The provisions of this Catalog are not an irrevocable contract between the student and the University of Houston–Downtown. The University of Houston–Downtown reserves the right to change any provision or requirement of this Catalog at any time, including but not limited to degree requirements, course offerings, fees and listings in the calendar as necessitated by university or legislative action.

All universities establish academic requirements for granting degrees. Advisors, program coordinators and other university officials are available to assist students in planning how to satisfy these requirements, but students themselves are responsible for fulfilling them.

Students should also be aware of the university’s guidelines for conduct and disciplinary procedures. Information on students’ rights and responsibilities including specific rules on academic honesty and prohibited conduct is available in the Student Handbook.

In accordance with the amendments to the Higher Education Act of 1965, known as the Student Right-to-Know and Campus Security Act, information regarding graduation rates may be found in Student Services and Enrollment Management (Room 380-South, 713-221-8100), and information on crime statistics may be found in the University Police Office (Suite 118-North, 713-221-8065).

The university seeks to provide equal educational opportunity without regard to race, color, religion, national origin, gender, age, disability or veteran status in compliance with Title IX regulations and all other federal and state regulations.

The information contained in this Catalog is correct at the time of publication and is subject to change without notice.
Contents

WELCOME FROM THE PRESIDENT ........................................................................................................... 4

ACADEMIC CALENDAR 2016-2017 ........................................................................................................... 5

UNIVERSITY OF HOUSTON-DOWNTOWN: HOUSTON’S DOWNTOWN UNIVERSITY ........................................ 6

RESOURCES AND SERVICES .................................................................................................................. 9

  Academic Resources ............................................................................................................................... 9
  Library.................................................................................................................................................. 9
  Advising and Mentoring .......................................................................................................................... 10
    Academic Advising Center .................................................................................................................. 10
    Academic Support Center .................................................................................................................. 10
  Other Resources ................................................................................................................................. 11
    Academic Computing Services ........................................................................................................... 11
    myUHD & Student e-Services .............................................................................................................. 11
    GatorMail .......................................................................................................................................... 12
    International and Study Abroad Programs .......................................................................................... 13

Student Affairs ........................................................................................................................................ 13

  Office of Student Affairs ....................................................................................................................... 13
  Office of Undergraduate Admissions ...................................................................................................... 14
  Office of Graduate and International Admissions ................................................................................ 14
  Registrar ........................................................................................................................................... 14
  Scholarships and Financial Aid ............................................................................................................. 14
  Career Development Center ................................................................................................................ 14
  Center for Student Diversity, Equity, and Inclusion ........................................................................... 15
  Office of Disability Services ................................................................................................................ 15
  Student Health Services ......................................................................................................................... 16
  Student Counseling Services ................................................................................................................. 16
  Student Activities ................................................................................................................................ 16
  Student Publications .............................................................................................................................. 17
  Sports and Fitness ................................................................................................................................ 17
  Testing Services ................................................................................................................................... 18
  Veterans Services ................................................................................................................................ 18

Off Campus and Distance Education ....................................................................................................... 20

  UHD Northwest at Lone Star College – University Park .................................................................... 20
  UHD at Lone Star College – CyFair ....................................................................................................... 22
  UHD at Lone Star College – Kingwood ................................................................................................. 22
  Online Programs at UHD ..................................................................................................................... 23

Continuing Education and Professional Development ................................................................................ 24

  Applied Business and Technology Center ........................................................................................... 24
  English Language Institute .................................................................................................................... 24

Other Services .......................................................................................................................................... 25

  Student Parking .................................................................................................................................. 25
  Dining Facilities .................................................................................................................................. 25
  Bookstore .......................................................................................................................................... 25
  O’Kane Gallery ................................................................................................................................... 25
  O’Kane Theatre .................................................................................................................................... 26

UNDERGRADUATE POLICIES AND PROCEDURES ............................................................................... 27
Welcome from the President

Dear student:

Welcome to the University of Houston-Downtown. We are happy you have made the choice to enroll and pursue your education with us. You are in the company of a dedicated and diverse group of students who, like you, wish to further their education and make a positive difference in their community. We take our commitment to students seriously, and we believe you will find that UHD offers an exceptional education.

For more than 40 years, UHD has been changing lives and building futures. UHD is Houston’s urban university, the second-largest four-year higher-education institution in the fourth-largest city in the United States. Our student body reflects Houston’s wealth of cultures, languages and nationalities.

We invite you to experience all that we have to offer students. You will find that UHD is dedicated to serving the needs of the diverse population of Houston and the surrounding area. Whether you are enrolling in college for the first time or transferring from another institution, whether you are an undergraduate student or a graduate student, UHD has the tools and resources to support you in reaching your educational goals.

At UHD, we are committed to offering programs of the highest quality and a supportive environment that will enable you to succeed academically and gain lifelong learning skills. Our more than 41,000 graduates enjoy successful careers in business, education, the sciences, the arts, humanities and social sciences. Some of our students go on to earn medical and other professional degrees and graduate degrees.

We are proud to offer small classes to provide a faculty-to-student ratio of 20 to 1 and to offer a supportive atmosphere where undergraduate students have the opportunity to work directly with faculty on research projects. Our tuition and fees are among the lowest of Texas colleges and universities.

Our mission to provide access and opportunity began more than four decades ago, and today we continue to embrace this. I encourage you to take advantage of the resources that are available for you and to enjoy the benefits of attending an institution that gives students the preparation they need to succeed.

Best wishes for a memorable and productive academic year.

Sincerely,
Michael A. Olivas
Interim President
University of Houston-Downtown
Academic Calendar 2016-2017

The following dates were correct at the time of publication, but some are subject to change. Check www.uhd.edu/academic/calendar.htm for current dates and for information regarding Part of Term sessions.

Fall Term, 2016
Classes begin .................................................................................................................................. August 22
Labor Day holiday ......................................................................................................................... September 5
Thanksgiving holidays .................................................................................................................. November 23-26
Last day of class .......................................................................................................................... December 3
Final exams ...................................................................................................................................... December 7-14

Winter Term, 2016
Classes begin ................................................................................................................................. December 19
Final exams ...................................................................................................................................... January 6

Spring Term, 2017
Classes begin ................................................................................................................................. January 17
Spring break .................................................................................................................................. March 13-18
Last day of class ............................................................................................................................. May 1
Final exams ..................................................................................................................................... May 4-11

May Term, 2017
Classes begin ................................................................................................................................. May 15
Final exams .................................................................................................................................... June 2

Summer Term I, 2017
Classes begin ................................................................................................................................. June 5
Last day of class ............................................................................................................................ July 6
Final exams ..................................................................................................................................... July 6

Summer Term II, 2017
Classes begin ................................................................................................................................. June 5
Last day of class ............................................................................................................................ July 27
Final exams ..................................................................................................................................... July 27

Summer Term III, 2017
Classes begin ................................................................................................................................. July 10
Last day of class ............................................................................................................................. August 10
Final exams ..................................................................................................................................... August 10
University of Houston-Downtown: Houston’s Downtown University

Mission Statement

The University of Houston-Downtown is a comprehensive four-year university offering bachelor's and selected master's degree programs and providing strong academic and career preparation as well as lifelong learning opportunities. Located in the heart of the city, UHD reflects the diversity of the greater Houston metropolitan area and, through its academic programs, engages with the community to address the needs and advance the development of the region. UHD is an inclusive community dedicated to integrating teaching, service and scholarly research to develop students' talents and prepare them for success in a dynamic global society.

Vision

The University of Houston-Downtown will be a premier city university where all students engage in high-impact educational experiences and graduate with 21st-century skills.

University of Houston-Downtown: Houston's Downtown University

Located in the heart of Houston, the University of Houston-Downtown is a public four-year university that offers exceptional educational opportunities through its colleges: Business, Humanities and Social Sciences, Public Service, Sciences and Technology, and University College.

UHD offers six bachelor's degrees (Bachelor of Applied Arts and Sciences, Bachelor of Arts, Bachelor of Business Administration, Bachelor of Engineering Technology, Bachelor of Science and Bachelor of Social Work) with majors in 44 disciplines, and five master's degrees (Master of Arts, Master of Arts in Teaching, Master of Business Administration, Master of Science and Master of Security Management) with programs in eight disciplines.

UHD is recognized nationally for its outstanding academic opportunities and its connectivity to the communities, agencies and people in the greater Houston metropolitan area. Students range in age from 20 to 65, with an average student age of 27.5 years, and represent 74 countries. UHD ranks 33rd nationally for graduating Hispanic students and 37th nationally for graduating African-American students with bachelor’s degrees, as reported in Hispanic Outlook. With more than 14,000 students, UHD is the second largest public university in Houston. More than 2,500 students graduate each year from UHD; its alumni number more than 41,000.

Students enjoy the flexible degree options UHD provides. Classes are available online, in traditional classrooms at satellite locations, and through hybrid arrangements that blend online and traditional classroom instruction. UHD offers classes at Lone Star College-CyFair, Lone Star College-Kingwood and UHD Northwest at Lone Star College-University Park. Weekend and evening classes also are available.

The nature of the UHD student population prepares individuals to thrive in the multicultural workplace of the 21st century. UHD students are diverse in every sense of the word: ethnicity, age, financial background and life situation.

UHD’s campus has grown considerably since the institution was founded in 1974. The campus is composed of the historic One Main Building, the Academic Building, the Girard Street Building, the Commerce Street Building, the Shea Street Building, the Jesse H. Jones Student Life Center and the restored Willow Street Pump Station.

UHD’s History and Future on the Bayou

The University of Houston-Downtown was founded in 1974, when the assets of the private South Texas Junior College were transferred to the University of Houston. By 1979, the Texas Legislature approved the new institution as a separate entity within the University of Houston System. In 1983, the name was changed to the University of Houston-Downtown.

Today UHD is the second largest institution in the University of Houston System, which is composed of four distinct universities: University of Houston, University of Houston-Clear Lake, University of Houston-Downtown and University of Houston-Victoria. All
four institutions are governed by the University of Houston System Board of Regents. Each university’s president serves as its chief administrative officer.

The history of the University’s campus begins even earlier. The campus’ One Main Building was constructed in 1929 on the banks of White Oak Bayou and Buffalo Bayou. Then known as the Merchants and Manufacturers Building, the building served the city for decades as a center for commerce and manufacturing. It is listed in the National Register of Historic Places.

UHD’s facilities have continued to change since the University’s inception. In the late 1990s, UHD added the Academic Building, with more than 40 classrooms and lecture halls; the Technology Teaching and Learning Center; the Wilhelmina Cullen Robertson Auditorium; and a food court. While the Academic Building was taking shape, so was the Jesse H. Jones Student Life Center, a state-of-the-art facility devoted to student health, recreation and fitness.

In 2004, the University opened the Commerce Street Building, which houses the College of Public Service, classrooms, academic labs, computer labs, meeting spaces and faculty offices.

In 2007, the University opened yet another showcase facility, the Shea Street Building, which houses the College of Business. The building features a glass-enclosed entrance that provides stunning views of Houston’s downtown skyline. Adjoining this award-winning building is a multistory parking facility.

UHD students enjoy the excitement of the nation’s fourth largest city, including being just minutes away from Minute Maid Park, BBVA Compass Stadium, the Toyota Center, world-class museums and art galleries, and a wide assortment of restaurants and cafes. Getting to and around campus is easy for students with UHD’s free shuttle bus, the city’s light rail line that stops at the University’s front door and easy access from two interstate highways.

UHD’s wireless campus provides students, faculty and staff with optimum service and flexibility. In addition to applying for admission and registering for classes online, students can handle much of the “business” of going to college from laptops or desktops while at home or at school. And connectivity makes it easy to meet online with other students for group projects and classes.

Since its founding, UHD has continued to grow and provide degrees, programs and facilities to meet the needs of students, faculty and staff. It is all part of the University’s commitment to providing access and opportunity to higher education.

Campus Safety and Security

The University of Houston-Downtown Police Department is committed to assuring your safety and security on campus. The Police Department provides comprehensive police services 24 hours a day, seven days a week. Offices are located on the first floor of the One Main Building, Suite 118-North.

Information on campus safety and security, including services such as vehicle jump starts and unlocks and five-year crime statistics, is provided on the UHD Police Department website at www.uhd.edu/campus/pd/. Also available are safety and crime prevention information; crime alerts; and campus policies on alcohol, firearms and sexual assault.

Accreditation

The University of Houston-Downtown is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate and master’s degrees. Contact SACSCOC at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500 or check www.sacscoc.org with questions about the accreditation of the University of Houston-Downtown.

The College of Business’ Bachelor of Business Administration and Master of Business Administration degree programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB International, 777 South Harbour Island Boulevard, Suite 750, Tampa, FL 33602-5730; 813-769-6500; www.aacsb.edu). Accreditation documentation is available in the College of Business, Room B400, Shea Street Building.

The Computer Science and Engineering Technology Department’s Bachelor of Science in Engineering Technology degree programs in Control and Instrumentation Engineering Technology, as well as Structural Analysis/Design Option in Engineering Technology, are accredited by the Engineering Technology Accreditation Commission of ABET (www.abet.org).
The Urban Education Department’s programs that lead to teacher certification are accredited by the Texas Education Agency (1701 N. Congress Avenue, Austin, Texas, 78701; 512-463-9734; tea.texas.gov).

The Natural Science Department’s Bachelor of Science program in Chemistry is approved by the American Chemical Society (1155 Sixteenth Street, NW Washington, DC 20036; Telephone: 800-227-5558; Internet: www.acs.org).


**Intellectual Property**

The UH System Board of Regents Policy Section III, 21.08 outlines rules for intellectual property ownership for all UHS faculty, staff, and students. In accordance with this BOR policy, UH System policy, SAM 01.E.01 establishes the System’s Office of Intellectual Property Management, which oversees issues of intellectual property for the entire UH System. Board of Regents Policy 21.08.4.A specifies that “the University will not assert ownership of copyright developed by faculty, staff or students, unless separately contracted for, in any:

1. Books, journal articles, texts, glossaries, bibliographies, study guides, laboratory manuals, syllabi, tests, and survey instruments;
2. Lectures and unpublished lecture notes;
3. Musical works;
4. Dramatic works;
5. Works of visual art, such as sculptures and drawings;
6. Architectural works.”

For the majority of UHD students and faculty, then, the University will not dispute the ownership of their intellectual products. However, Board Policy 21.08.4.B specifies that “the University will assert ownership of copyright developed by faculty, staff or students, with regard to other types of works subject to copyright, namely,

7. Films, audiovisual works, slide programs, film strips;
8. Sound recordings and video recordings containing original performances;
9. Programmed instruction materials;
10. Computer programs, software, and documentation.”

The policy enumerates the circumstances under which the University or UHS may claim copyrights for and ownership of such intellectual products. Students with questions or concerns about their intellectual property rights should consult the respective College Undergraduate Associate Dean and the UH Office of Intellectual Property Management.
Resources and Services

Academic Resources

Library
500 Main, Info. 713-221-8187• www.uhd.edu/library

The W.I. Dykes Library occupies the north portion of the fourth floor and the entire fifth floor of the One Main Street building and may be entered from the Main Street elevators or stairs. The library’s fourth floor computer lab provides 84 Windows computers with Internet access, research databases, and software applications. In addition to the computer lab, fourth floor study spaces include thirteen group study rooms, two presentation practice rooms, and a large reading room where students are able to study or relax between classes. The reading room and some study rooms are available for 24-hour access. Two library instruction classrooms and an event room are also located on the fourth floor. The recently renovated fifth floor houses the library’s physical collection and is furnished with comfortable seating and study carrels. The 40,000 Windows Café is located in the southeast corner of the fifth floor.

The library has holdings and access to more than 758,780 electronic and print books, subscriptions to more than 220 unique databases and access to more than 141,220 digital journals. The library also has a collection of over 4,470 physical multimedia items that are available for checkout or for listening and/or viewing in the library and access to more than 81,700 electronic media items. The Texas Education Collection is also housed in the library and includes teacher editions of select Texas state-adopted textbooks for K-12. This collection is supplemented by holdings of children’s literature. In order to enable convenient access for UHD’s commuter student body, preference is given toward purchase of full-text electronic materials.

The library website is frequently updated and is designed to serve as a gateway for navigating library resources. The library homepage offers multiple approaches for research queries, including LibSearch, a powerful Web-scale discovery service that allows easy searching across library holdings and beyond, the UHD online catalog, which lists books, journals, and other resources available through the W. I. Dykes Library, most University of Houston central campus libraries and the University of Houston-Clear Lake library, research guides created by subject librarians, the library’s electronic course reserves system, as well as information about library services and updates. Library news may be followed through the library’s blog (widykeslibrary.org/news), Facebook (www.facebook.com/UHDLibrary), and Twitter (twitter.com/uhdlibrary).

Students, faculty and staff can connect to electronic resources from any location with their e-services username and password. Access to the catalog and electronic resources from a home computer, wireless locations or from UHD computer labs supports research 24 hours a day. The full-text of journal, magazine, and newspaper articles in electronic form can be found by using the library’s databases, which include ABI/Inform Complete, Academic Search Complete, ACM Digital Library, Black Studies Center, Business Source Complete, JSTOR, LexisNexis Academic, ProQuest Databases, PsycINFO, SAGE Journals Online, New York Times, Wall Street Journal, and Westlaw Campus Research. Many additional electronic resources for finding citations or information about a topic can be accessed through the library’s website, including the databases Web of Science, Alexander Street Video, and Films on Demand. Search results from the library’s electronic holdings can be printed, downloaded to a flash drive or emailed. Print books from other UH system libraries may be requested electronically by clicking the Request button in the online library catalog. If the W. I. Dykes Library does not own a book or journal article needed by a student, faculty, or staff member, then an interlibrary loan request may be submitted online through the library’s My Interlibrary Loan system and the library’s Interlibrary Loan (ILL) Department will make every effort to borrow the material from another library within the nation-wide ILL network. ILL is primarily a free service. If there will be a charge, permission will be requested beforehand. The ILL Department also provides services for UHD off-campus and online students and faculty who would like to have materials from the W. I. Dykes Library collections delivered to them at the site where they have classes.

Reference librarians at the Information Desk offer in-person or telephone assistance in utilizing library resources. Reference help is also available through the library’s Ask a Librarian email service, 24/7 live chat, texting, research consultation appointments and a repository of previously asked questions and answers. UHD librarians are available to collaborate with faculty to provide library and course-related instruction, including face-to-face sessions and customized course-integrated learning activities. An augmented reality walking tour that explains library services and presents basic research strategy is also available.

Scanner stations and card and coin-operated photocopiers are available in the library. Two computer workstations are reserved for
visually impaired students. Anyone with special physical or communication needs may ask for assistance from any library service
desk or contact the library to schedule an appointment for special services.
A UHD identification card is used to check out materials. The library is open seven days a week during fall and spring semesters
and Monday through Saturday during summer sessions. Check with the library for intersession and holiday hours. For reference
information, call 713-221-8187; for circulation information call 713-221-8186.

Advising and Mentoring

Academic Advising Center
N 320, 713-221-8006

Academic Advising is a place where UHD students can meet with an academic advisor to discuss academic and other university
issues. Academic Advisors are available to make recommendations for registration and degree plan requirements, match students’
needs with available resources, communicate university policies and procedures, and assist students in declaring their major.
Academic advisors are also available to discuss coursework evaluation from previous colleges and universities that students may
have attended. Academic Advising is open from 8:00 to 6:00, Monday- Thursday and 8:00 to 5:00 on Friday. No appointment is
necessary during registration; however, students are strongly encouraged to request an appointment to meet with advisors during
the regular semester.

Academic Support Center
N925, 713-221-8669
www.uhd.edu/asc

The Academic Support Center (ASC) provides tutoring for students seeking to develop their skills in math, statistics, writing, and
reading. In addition, the ASC provides computers for students working on class assignments and quiet study areas for independent
or small group study sessions. The ASC is staffed by faculty and student peer tutors and is open to all currently enrolled UHD
students. Tutoring hours are structured to accommodate students attending day, evening, and weekend classes. The following
tutoring centers are conveniently located within the ASC:

Center for Math and Statistics Support (C4MS2): C4MS2 is a free walk-in tutoring service for mathematics and statistics available
to all UHD students. C4MS2 seeks to maintain a relaxed and friendly atmosphere and reduce student anxiety about learning
mathematics and statistics. The Center is staffed with experienced and qualified faculty and student peer tutors. Tutoring is available
for all developmental and freshman-level mathematics courses including MATH 0300 (Beginning Algebra), MATH 1300
(Intermediate Algebra), MATH 1301 (College Algebra), MATH 1302 (Trigonometry), MATH 1305 (Finite Mathematics), MATH 1306
(Fundamentals of Calculus), MATH 1310 (College Mathematics for Liberal Arts), MATH 1404 (Pre-calculus), and MATH 1505 (Pre-
calculus with Trigonometry), and for statistics courses such as STAT 1312 (Statistical Literacy), STAT 2300 (Introduction to
Statistics), STAT 3309/3310 (Business Statistics), and pre-service elementary teacher courses MATH 3321/MATH 3322 (Math
Concepts I and II). Tutoring is also available for MATH 2401 (Calculus I) and MATH 2411 (Calculus I for Natural Sciences).
Computers are also available in the Center for students to work on their online homework.

Writing and Reading Center: In pursuit of its dual mission, the UHD Writing & Reading Center facilitates UHD student, staff, and
faculty efforts to read, write, think critically, and communicate, and provides student peer tutors of writing with a rich teaching and
learning experience and ongoing professional development in writing center research, theory, and tutoring practice. Students can
learn more about the WRC at www.uhd.edu/wrc. Students interested in making an appointment may do so by registering for an
Other Resources

Academic Computing Services
S800, 713-221-8540 • www.uhd.edu/computing

The University of Houston-Downtown provides state-of-the-art computing equipment and software to its students, faculty, and staff. The university offers wireless computing services campus-wide (www.uhd.edu/wireless) and wireless printing for students (www.uhd.edu/printwireless) as well as computer lab environments and a technology commons to support general student lab and classroom computing needs.

The Academic Computing Labs are located in Suite 800-South in One Main, Suite C300 in the Commerce Building, Suite B200 in the Shea Building, and Suite B12.353 at UHD Northwest. Several electronic classrooms are available within these labs, as well as within the Technology Teaching & Learning Center (A700). There are more than 900 computers represented in these areas, as well as several laser printers and scanners. Laptops are available for student checkout in S800, C300 and B200. All labs have similar capabilities and support as the computer lab in Suite 800-South. The computer labs are available to serve all students, faculty and staff. Most computers in these labs are equipped with the same software.

The Technology Commons area is located in Suite B200 in the Shea Street Building and houses a 50-seat general use computer lab. There are also four electronic classrooms on the 2nd floor of the Shea Street Building including three inside the Technology Commons. These classrooms are utilized primarily for academic classes but are often opened as lab space when not occupied by classes.

Each of these facilities (S800, B200, C300 and B12.353 at Northwest) is available to any currently enrolled students, has several electronic classrooms as part of the facility, and provides special devices to aid students with disabilities. The Student Technology Services group, which manages and operates the labs, also provides documentation as well as group and individual consulting to its constituents. Presentation systems equipped with computers and projectors are also available in the electronic classrooms.

The Academic Computing Lab hours vary from semester to semester. A current listing of lab hours can be found at www.uhd.edu/acl. Extended support hours are also available through the Help Desk (713-221-8031) to faculty, staff & students 7 days a week. A current listing of support hours is listed at www.uhd.edu/computing/help.

Special purpose labs are also available to students. The Department of Computer Science & Engineering Technology maintains several computer labs. The Department of Mathematics & Statistics has eight computer classrooms of PCs for instruction in computer science, mathematics, and statistics. The Department of Natural Sciences has a Science Learning Center that contains two electronic classrooms, and a Science and Technology Demonstration Laboratory. The College of Business and the Departments of Arts & Humanities, English and Social Sciences also have several computer labs. The Academic Support Center also offers learning support software for individual work in developing reading, writing and mathematical skills. There are over 45 specialized departmental computing labs that service subject-specific needs.

Students can also download free software such as McAfee Virus Scan for use at home, as well as specific applications from Microsoft through DreamSpark. Microsoft Office 365 is also available to all enrolled students. It is a web-based service by Microsoft that provides students with Email/Calendar access, Office Web Apps, and much more (www.uhd.edu/computing/Pages/computing-o365.aspx). In addition, discounted software and hardware is offered to UHD students via special links accessible from https://www.uhd.edu/computing/labs-technology-centers/academic-computing-labs/Pages/acl-discounts.aspx.

myUHD & Student e-Services
http://myuhd.uhd.edu/

UHD offers a variety of student e-services on the web that allow students to go online rather than stand in line to perform administrative and academic functions that have traditionally required face to face interaction on campus. UHD’s student e-Services functions as a one stop student portal. In addition to providing access to GatorMail (see below) and a range of general information, such as the course schedule and the university catalog, many student-specific functions are available. Students may apply for admission, determine their financial aid status, determine their eligibility for registration, and register for classes if they meet certain requirements, view their grades, update their address and other directory information, and obtain information about their computer account. Students may also make payments on-line for library fines, parking citations, and tuition.
All enrolled students are issued a GatorMail email account. Students can obtain their GatorMail username and password via Student eservices (www.uhd.edu/eservices). UHD assigns student email accounts as a means of communication between faculty, staff, and students. Students should check their email on a frequent and consistent basis in order to stay current with University-related communications.

Technology Teaching and Learning Center
A700, 713-221-8200 • www.uhd.edu/computing/ttlc

The Technology Teaching and Learning Center (TTLC) located in the Academic Building Room A-700, serves as a resource center for faculty and staff who are interested in integrating technology in their academic and administrative activities. A wide range of services are offered in the TTLC in order to assist faculty and staff with improved understanding of software applications, technology tools, and assistance with improving a user’s technology knowledge base. The TTLC includes three electronic classrooms, a technology training lab, two seminar rooms capable of teleconferencing, an instructional television studio, and a faculty development area. The following services are offered in the TTLC.

Blackboard Support
Technical support and training for Blackboard is available for students, faculty and staff through a variety of methods, including telephone, email, online, chat and walk-in. The Blackboard team is committed to making sure faculty and staff are successful with all online coursework. Training sessions about various Blackboard topics are scheduled weekly. Training sessions can also be delivered to the different college’s conference areas or office visits. Blackboard support also includes an online Blackboard orientation for students, faculty and staff.

IT Training
IT related training is available for most all university wide applications including

- Blackboard
- Respondus
- SoftChalk
- Microsoft Office
- GatorSync
- Zoom
- Qualtrics
- Adobe Suite
- Mediasite
- UHD Sharepoint Website
- eIntelligence
- Formatting and Editing University Web Pages

Student technical training and support includes documentation and group trainings on GatorSync, Office365, and Blackboard.

A complete listing can be found here: https://www.uhd.edu/computing/services-training/training/Pages/training-index.aspx.

Multimedia Services
Multimedia Services provides a wide range of services to support classroom instruction, online instruction, meeting and event support and campus communications. Service areas include:

Classroom Technology Services
- Oversees the operation and maintenance of presentation equipment in classrooms, lecture halls, conference rooms, the Special Events Center and the Wilhelmina Cullen Robertson Auditorium.
- Distributes and maintains an inventory of PC laptops for faculty and staff for short term checkout
- Distributes and maintains an inventory of circulating multimedia equipment for classroom instruction, student presentations, professional presentations, special events and university administrative activities.
- Provides a limited amount of video and recording devices for student checkout.
- Provides poster printing, and lamination services for required classroom instruction and staff operations.
- Provides training to faculty and staff on the use of classroom technology and event room presentation equipment.
- Provides assistance to convert analog media in to digital format.
- Video and audio set up for point to point and cloud base conference and webinars.
• Provides standby assistance in live and on-demand webinars in conference rooms.

Event Support
Oversees all presentation support required for campus meetings and special events; staff consults with clients to determine the multimedia equipment and technical support required to stage activities and faculty sponsored student events.

Video Production Services
Provide creative and technical support for:
• Audio and video productions, lecture capture, and video streaming
• Instructional television courses
• Video production - point to point and cloud base
• Audio and video recording of special events and marketing videos
• Live and on-demand webinars

Digital Sign Management
Manages the digital information screen displays that are located at the UHD and UHD-NW campus; provide training, message development and design layout and message design consultation to university faculty, staff and administration.

International and Study Abroad Programs
S-204LL, 713-221-8250

The University of Houston-Downtown offers several international education opportunities. In addition to the UHD Faculty-Led Trips which last from one to four weeks, we have partnered with study abroad providers and foreign universities to offer study abroad experiences that last from one to several months. Faculty-Led Trips and study abroad programs give countless opportunities to explore intercultural issues outside the classroom and around the world. Programs vary in length, location, and cost. Credit is offered for most programs, so if you participate, you are not required to delay graduation.

UHD students planning to study abroad with a UHD sponsored or approved program may be eligible to apply for financial support from the International Education Student Fee Fund. A limited number of UHD Travel Awards may be available to help supplement the cost of a study abroad program. For more information on study abroad programs and scholarships, please visit the Office of International and Study Programs, Suite 370 -S or the UHD International Education webpage: http://www.uhd.edu/academic/international.

Student Affairs

The University of Houston-Downtown’s Student Affairs Unit offers a wide variety of services, programs and activities designed to augment the academic experience of students. The unit includes the Offices of Admissions, Graduate and International Admissions, Registrar, Career Development Center, Disability Services, Scholarships and Financial Aid, Student Activities, Student Counseling Services, Student Health Services, Sports & Fitness, Veteran’s Services, Diversity, Equity and Inclusion, Student Abroad, Testing Services, and the Office of Student Affairs.

Office of Student Affairs
S380, 713-221-8100

The Office of Student Affairs serves as a resource to students by distributing information, assisting with problem resolution and interpreting university policies, rules and procedures. This office which includes the Dean of Students is also responsible for carrying out the university’s student discipline and Title IX policies and procedures. Among the information Student Affairs provides to students and the university community are the UHD Student Handbook and the UHD Catalog.
Office of Undergraduate Admissions
S350, 713-221-8522 • www.uhd.edu/admissions/

The Office of Undergraduate Admissions provides information regarding the university to all prospective students and facilitates the admission process. The office is committed to providing quality service and assistance to students in all phases of the undergraduate admissions process and to ensuring that their admission experience is a positive one.

Freshman and Transfer Admission
S350, 713-221-8522

The Office of Admissions serves as the entry point for all incoming freshman and transfer students. The office provides walk-in assistance and ready access information that will help students understand the admission process to complete their academic college career.

Office of Graduate and International Admissions

International Admission
S350, 713-221-8048

Within the Office of Admissions, the Office of International Admissions supports the academic and cultural experience of international students at the University of Houston-Downtown. The office processes admission applications, provides immigration counseling, and offers personal assistance whenever possible.

Graduate Admission
S350, 713-221-8093

The Office of Graduate Admissions accepts applications for all UHD graduate programs and provides program-specific requirements, entry dates and application deadlines.

Registrar
N330, 713-221-8999

The Registrar's Office maintains all student academic records including course registration and grade history. The responsibility of this office is to provide valuable and reliable service and student records data to all UHD students, faculty, and staff as well as to state and federal agencies. The Registrar's Office issues official transcripts, diplomas, enrollment/degree verifications, certifies loan deferments via the National Student Clearinghouse, graduation certification, and manages all registration and student record related processes. The Registrar's office also provides guidance to students and troubleshooting support with the course registration process in Student e-Services.

Scholarships and Financial Aid
S330, 713-221-8041

The UHD Office of Scholarships and Financial Aid offers a variety of financial aid programs to assist undergraduate and graduate students in meeting educational costs. The programs include scholarships, grants, loans and work-study, which may be awarded in various combinations and amounts to meet individual student needs. Because funds are limited in many programs, it is important to begin the application process early and complete the necessary applications properly and on time. The priority deadline for fall is April 1 of each year.

Most federal and state aid is awarded on the basis of proven financial need rather than academic achievement. Most scholarships are awarded on the basis of academic achievement, talents, and special skills rather than proven financial need.

Career Development Center
S402, 713-221-8980

Career Development offers three general services for students and alumni:
Career Assessment: Assessing strengths and interests; identifying career options and majors that align with assessment results – please call for an appointment.

Job Search Coaching: Starting a job search, networking, using social media, resume and cover letter review, practice interviews, preparing graduate school applications – please call for an appointment or consult www.uhd.edu/jobs4gators for a workshop schedule.

Contact with employers: A job posting database called www.uhd.edu/jobs4gators, career fairs, and field experience.

Center for Student Diversity, Equity, and Inclusion
713-221-5008

The Mission of the Center for Student Diversity, Equity and Inclusion is to empower students, faculty, and staff to build a more inclusive, equitable, and welcoming campus environment for all members of the UHD community. The Center develops programming and trainings, facilitates mentoring opportunities, and engages in outreach and advocacy efforts to promote diversity, equity, inclusion, and social justice. Services, programs, and resources provided by the Center include:

- resources and expertise for students and faculty interested in addressing diversity, equity, and inclusion in their academic work;
- advising, mentoring, and advocacy for diversity-oriented student organizations, as well as for individual students;
- a lounge area for meetings or relaxation with equipment for viewing DVDs and streaming content, as well as a library/conference room, and a private DVD screening room, and;
- workshops and programming in support of diversity, equity, and inclusion initiatives.

Workshops and programming include:

- Diversity Talks: informal discussions on specific diversity, equity, and inclusion-related topics led by the Director;
- NCBI Workshops: NCBI-copyrighted diversity and inclusion workshops led by members of the UHD National Coalition Building Institute (NCBI) Team;
- Safe Zone trainings: training for faculty, staff, and students who wish to become members of UHD’s Safe Zone, a campus-wide team of LGBTQ Allies who are prepared to provide a safe space and/or a safe, confidential listening ear for LGBTQ members of the UHD campus community;
- Gators Don’t Say: an anti-prejudice campaign featuring students taking a stand against oppressive language;
- Affinity-Group Observances and Celebrations: programming in observance of affinity group days, weeks, and months, such as Black History Month, Women’s History Month, Hispanic Heritage Month, and National Coming-Out Day, just to name a few;
- Police-Citizen Interaction events: informal meetings bringing UHD students together with local law enforcement officers to discuss rights, lawful and effective assertion of rights, and ways to improve police-community relations; and,
- Gator BUHDs: mentoring program connecting UHD students with Burbank Middle School students.

Office of Disability Services
S409, 713-226-5227

The Office of Disability Services provides a variety of support services in compliance with Section 504 of the 1973 Rehabilitation Act and the Americans Disabilities Act of 1990. The Office of Disability Services: strives to empower students; foster independence; promote achievement of career and educational goals; and assist students to discover, develop, and demonstrate full potential and abilities.

Students who receive services from the Office of Disability Services will receive the following:

- equal access to and have a working knowledge of appropriate accommodations and support services,
- referrals for and be informed of available campus resources,
- equal access to university facilities and programs by the removal of barriers and installation of adaptive equipment throughout campus,
- advocacy services by the director and staff as necessary and as appropriate,
• knowledge and use of assistive technology to increase academic independence,
• tailored services to assist with remaining eligible for future semesters at the University of Houston Downtown.

Student Health Services
S445, 713-221-8137

Student Health Services focuses on health promotion, disease prevention, and treatment of minor illnesses and injuries. Nurse Practitioners (NP) provide the same primary care found in most physicians' offices (including women's health) and offer referrals to specialists in the community when necessary. Appointments are recommended, but not required, for these services. Routine laboratory services, pregnancy testing, and confidential HIV testing and counseling are also provided. Nurses provide counseling on a wide variety of health issues and offer special screenings and services throughout the year. In addition, educational brochures on a variety of health-related subjects are available as are applications for student health insurance.

Student Counseling Services
S445, 713-500-3852 toll-free (1-800-346-3549)

The Student Counseling Program is designed to help you maximize your health and effectiveness at home, school or work. Through this program, you receive confidential, personal support for a wide range of issues, from everyday concerns to serious problems.

Whether you want advice about a legal or financial concern, need to talk to someone about drug use, or are simply feeling overwhelmed by school life, we can help. You have access to both online and in-person support for a wide range of issues.

All records, including medical information, referrals and evaluations, are kept confidential in accordance with federal and state laws.

Office Hours: Monday – Friday 8:00 am-5:00 pm.

If assistance is needed when the office is closed call: 713-500-3852 or toll free at 1-800-346-3549, email at studentcounseling@uhd.edu, or log on to new.mylifevalues.com.

access username: uhds / password: uhds

Student Activities
S204, 713-221-8573

The Office of Student Activities is dedicated to supporting the educational mission of the University of Houston-Downtown by enriching students’ college experience outside the classroom. Through a collaborative, holistic approach it is our mission to enhance student learning and personal development through our social, cultural, community engagement and leadership programs. The Office of Student Activities is committed to providing programs and events that complement our students’ in-the-classroom experience to help them to develop their life and leadership skills.

Locker Rental
S204, 713-221-8573

UHD offers a 12 x35 x18 combination locker on either the 2nd and 4th floor of the One Main Building. Lockers are rented at a cost of $15 for the entire semester and can be renewed at the end of the semester.

Student Government Association
N210, 713-221-8551

The Student Government Association (SGA) is the representative body for all UHD students. SGA is responsible for nominating students to serve on university committees, proposing legislation to improve the student experience, and is involved in policy development activities through its participation in the shared governance process.

Student Organizations
S204, 713-221-8573

Student Activities supports over 50 student organizations at UHD. Types of organizations include Academic, Special Interest, Greek Letter Organizations, Service, Honors Societies, Cultural, and Professional. Students are also able to start a new organization if one
does not exist at UHD.

**Community Involvement**  
S204, 713-221-8573

Student Activities promotes public service and organizes support for volunteer opportunities in the community. Student Activities also serves as a clearinghouse of volunteer opportunities for UHD student organizations, individual students, faculty and staff.

**New Student Orientation**  
S204, 713-221-8022

New Student Orientation introduces new students to UHD community. It is designed to meet the needs of all students entering the university for the first time, and to help make new students’ transition to the university a smooth and enjoyable one. New Student Orientation programs are offered for the summer, fall and spring semesters. Orientation also offers currently enrolled students the opportunity to develop their leadership skills and make new friends by becoming leaders in the program.

**Student Publications**  
Dateline S260, 713-221-8569  
Bayou Review S250, 713-221-2716

*Dateline: Downtown* is a student-run newspaper. With guidance from a faculty advisor and the Student Publications Advisory Committee appointed by the president, students are provided with experience in journalism. Internships with the newspaper are available each semester.

*The Bayou Review* is a student-run, undergraduate literary journal, with biannual publication of poetry, fiction, creative nonfiction, reviews, and visual art. With guidance from a faculty advisor and the Student Publications Advisory Committee appointed by the president, the journal’s editorial staff seek to promote the arts and humanities at UHD and to provide a forum for students who have an interest in creative writing. Internships with the journal are available each semester.

**Sports and Fitness**  
Student Life Center, 713-221-8225

Sports and Fitness provides members with programs and facilities that offer vigorous, educational, health-promoting, physical activity conducive to wellness and personal development. Through a well-equipped recreational facility, fitness programs, intramural sports and club sports activities, members will be motivated to embrace a healthy life-style, which may ultimately enhance their quality of life.

**Membership**  
The programs and services of Sports and Fitness are open to all UHD students, faculty and staff at no additional fees. UHD graduates may purchase a Sports and Fitness membership for a fee.

**Jesse H. Jones Student Life Center**  
The three-level, 30,000-square-foot Jesse H. Jones Student Life Center includes two gymnasiums equipped for basketball, volleyball, and badminton; a multipurpose studio designed for aerobics, martial arts, and dance classes; and a fitness center with state-of-the-art weight equipment and cardiovascular units. Lockers and showers are available.

**Fitness Programs**  
Fitness programs are offered at various times throughout the week from certified instructors. Programs include: Aerobics, Zumba, Boot Camp, Karate, Pilates, Yoga, Hip Hop, and Latin Dance. Personal trainers and massage therapists are available to members for a nominal fee. The initial fitness assessment is free of charge. Healthy workshops are offered monthly as well as various certifications.

**Intramural Sports**  
Intramural sports programs are designed to provide opportunities for UHD members to participate in organized sports activities. Individual and team sports are offered in over 12 different sports. Leagues are created for competitive and just-for-fun participants alike, and there are several activities where men and women team-up for co-recreational sports.
Club Sports
Club sports provide members with opportunities to share common interests and pursue active involvement and skill improvement in a sport or activity. They also provide students with opportunities for leadership, development and community engagement. Clubs are encouraged to represent the university at local, regional and national competitions. There are currently club teams in baseball, basketball, cheer, cycling, dance, powerlifting, soccer, volleyball and wrestling.

Awards Banquet
The Sports and Fitness Awards Banquet is one of the university's oldest and best traditions. The annual event is held in May at which participants are recognized for outstanding involvement and contributions to the program. Outstanding participants from intramural sports, club sports and the various fitness programs are recognized before students, faculty, staff, family, and friends. The ceremony includes a dinner and an entertaining awards presentation.

Physical Education: PHED 2101 Health and Fitness for Life
The Department of Urban Education offers a physical education course, PHED 2101: Health and Fitness for Life, which requires students to participate in fitness class offerings in Sports and Fitness as part of the physical component of the class. The course focuses on health related behaviors and strategies for enhancing wellness throughout the life span. There is no prerequisite for the class which is considered a one credit elective applicable to most degree plans. The course is recommended for those students who plan to take state-mandated teacher certification examinations. It is also recommended for students who wish to examine and experience the benefits of leading a healthy lifestyle.

Testing Services
GSB311, 713-221-8027
To support new and current students, Testing Services personnel administer UHD, state and national tests. Several national tests and certification exams are provided by testing personnel, including the College Level Examination Program (CLEP), Law School of Admission Test (LSAT), SAT I and II and ACT are also administered here at UHD. Registration deadlines are about one month prior to test dates. Individuals who wish to take LSAT, ACT or SAT should register directly with respective testing agency. In addition, Texas Higher Education Assessment Quick Test (TQT) is another exam that Testing offers to UHD and non-UHD students.

The ACCUPLACER exam, the approved Texas Success Initiative (TSI) assessment required for certain new college freshmen, is offered by Testing Services to UHD students only.

Veterans Services
G318, 713-221-8622
The University of Houston-Downtown’s Veterans Services Office is dedicated to helping the men and women of the U.S. Armed Forces achieve the American dream of becoming highly successful. UHD recognizes the unique needs of service members, returning veterans, and their families and will work closely with them to make sure that they are aware of all the benefits and services that are available to them. Experienced staff are available to answer questions concerning veteran educational benefits, certifying enrollments for the Department of Veterans Affairs, monitoring students’ degree plans and academic progress, as well as giving referrals. The Veterans Services Office cannot determine eligibility for benefits. You have courageously served our country, now let us serve you!

Hazlewood Act for Veterans
State law provides that a veteran who is a legal Texas resident is exempted from tuition and certain required fees, but not from deposits. The veteran must meet the following criteria:

- reside in Texas for a period of not less than 12 months prior to the date of registration;
- served in the armed forces or in certain auxiliary services for more than 180 days;
- was a bona fide legal Texas resident at the time of entering such service;
- was honorably discharged (except those who were discharged because of being over the age of 38 or because of personal request);
exhausted all veteran’s educational benefits;
- is not eligible for federal grants, including federally sponsored grants provided for veterans by the US government; and
- is not in default on any federal or state student loans.

To obtain this exemption, the veteran must submit an application with attached evidence to the Office of Scholarships and Financial Aid by the Official Day of Record of the term for which the veteran is applying for the Hazlewood benefits. Hazlewood applications must be renewed each year.

If you qualify or have questions about the Hazelwood Act, please contact the Office of Scholarships and Financial Aid.

Credit for Military Service

It is the policy of the University of Houston Downtown to award transfer credit for military courses and/or military service based on the recommendations of the American Council on Education (ACE)’s Guide to the Evaluation of Education Experiences in the Armed Services. Credit for military courses and/or credit is available to all admitted undergraduates. Either elective or direct course credit will be awarded based on ACE recommendations.

Credit for Military Service (HB 269)

House Bill (HB) 269 makes military veterans who enroll in Texas universities and who meet certain requirements eligible to receive undergraduate college credit for the time they spent in the service. Eligible veterans receive college credit for all the required physical education courses needed for their degree and up to an additional 12 semester hours of elective coursework.

To be eligible to receive credit under HB 269, veterans must have:

- Graduated from a public or private high school accredited by a generally recognized accrediting organization or from a high school operated by the United States Department of Defense
- Completed at least two years of service in the armed forces (or discharged because of a disability)
- Been honorably discharged from the U.S. armed forces
- Credit awarded under HB 269 is awarded for having served, not for college-level courses that might have been taken while in the military.

Acceptable forms of documentation include:

- **AARTS** Transcript (Army ACE Registry Transcript)
- **CCAF** Transcript (Community College of the Air Force Transcript)
- **SMART** Transcript (Sailor/Marine ACE Registry Transcript)
Off Campus and Distance Education

Louis Evans, Executive Director of Off Campus and Online Coordination
evansl@uhd.edu
Downtown Office
S 950, 713-221-2766
Northwest Campus Office
Building 12, 20515 SH 249, Houston, TX 77070, 713-221-2766

For students who live or work in the suburban Houston areas, UHD offers programs at Lone Star College- CyFair, Lone Star College-Kingwood and UHD Northwest located at Lone Star College- University Park. Courses taken off-campus or online may apply to any UHD degree program in which they are ordinarily accepted. Students enjoy the ability to tailor their schedule to meet individual needs by taking courses at multiple locations or using multiple formats. All of the UHD programs are accredited by the Southern Association of College and Schools (SACS) and in addition the College of Business programs are accredited by The Association to Advance Collegiate Schools of Business, AACSB-International and Social Work is accredited by The Council on Social Work Education, CSWE. The teacher preparation programs offered by the UHD Urban Education Department is a multiple award winning program including the prestigious Texas Higher Education Coordinating Board (THECB) Star Award in 2010.

UHD Northwest at Lone Star College – University Park

UHD Northwest
713-237-5400
Building 12, 20515 SH 249, Houston, TX 77070
www.uhd.edu/Northwest
e-mail: distanceed@uhd.edu

Louis Evans, Executive Director, Off Camps and Online Coordination
Email: evansl@uhd.edu
713-221-2766

Maria Estrada, UHD Advisor/Coordinator
Email: estradam@uhd.edu
713-237-5405

Dale Higginbotham, UHD Advisor/Coordinator
Email: higginbotham@uhd.edu
713-237-5404

Kimberly Constantine, UHD Advisor/Coordinator
Email: constantinek@uhd.edu
713-237-5459

Marcelo Saldivia, Manager, IT Services
Email: saledia@uhd.edu
713-237-5450

Carol Bracex, Business Development Specialist
College of Business
Email: bracex@uhd.edu
713-237-5407

Janette Martin
College of Business
Email: martinja@uhd.edu
713-237-5409

Tom Winn, Director
Master of Security Management for Executives
College of Business
Email: winnt@uhd.edu
713-221-8531

For students who live or work in the Northwest Houston Metropolitan area, UHD Northwest offers programs at Lone Star College-University Park, located at HWY 249 and Louetta. The location serves western Montgomery County, Waller County, NW Harris County and the City of Houston in the Willowbrook area.

Students complete lower-level course work at one of the five colleges of the Lone Star College System. UHD offers the junior- and senior-level courses leading to the degree. Instruction is delivered live on-site and course instruction is delivered either on the weekend, in the evening or during the day.

College of Business Programs
B.B.A. Accounting*
B.B.A. Enterprise Information Systems*
B.B.A. Finance*
B.B.A. General Business*
B.B.A. Insurance and Risk Management*
B.B.A. Management*
B.B.A. Marketing*

Graduate Degree
M.S.M.E. Security Management for Executives

Graduate Certificates
Finance*
Human Resource Management*
Leadership*
Supply Chain Management*

*Accredited by The Association to Advance Collegiate Schools of Business

University College Programs
B.S. Interdisciplinary Studies
B.A.A.S. Applied Administration

College of Humanities and Social Sciences
B.S. Professional Writing

Graduate Degree
M.A Non-Profit Management

College of Public Service Programs
B.S. Criminal Justice
B.A.A.S. Bachelor of Applied Arts and Sciences in Criminal Justice
B.A. Interdisciplinary Studies EC-6 Generalist with ESL Supplemental Certification (teacher certification)
B.A. Interdisciplinary Studies EC-6 Generalist with Bilingual Supplemental Certification (teacher certification)
B.A. Interdisciplinary Studies 4-8 Generalist with ESL Supplemental Certification (teacher certification)
B.S.W. Bachelor of Social Work

Graduate Degrees
M.A. Teaching
M.S. Criminal Justice

**College of Science and Technology Programs**
- B.A. Mathematics
- B.A. Mathematics with Secondary-level Teacher Certification
- B.S. Biological and Physical Sciences
- B.S. Biological and Physical Sciences with Secondary-level Teacher Certification

**UHD at Lone Star College – CyFair**

LSC–CyFair, –CASA 109 K  
9191 Barker Cypress Road, Cypress, Texas 77433  
[www.uhd.edu/cyfair](http://www.uhd.edu/cyfair)

**Kimberly Constantine**, UHD Advisor/Coordinator  
Email: ConstantineK@uhd.edu  
281-290-3435

The rapid expansion of the Northwest area of Harris County has created new opportunities for meeting UHD students’ educational needs. The University of Houston-Downtown’s teacher education program at LSC-Cy-Fair College offers certification in elementary and bilingual education while earning a Bachelor’s of Arts in Interdisciplinary Studies. Students who wish to obtain EC-6 with ESL Supplemental certification or EC-6 with Bilingual Supplemental certification will need to take courses in a variety of academic areas. Students complete lower-level course work at one of the five colleges of the Lone Star College System. UHD offers the junior- and senior-level courses leading to the degree. Instruction is delivered live on-site and course instruction is delivered either on the weekend or in the evening.

**College of Public Service**
- B.A. In Interdisciplinary Studies EC-6 Generalist with ESL Supplemental Certification (teacher certification)
- B.A. In Interdisciplinary Studies EC-6 Generalist with Bilingual Supplemental Certification (teacher certification)

**UHD at Lone Star College – Kingwood**

LSC – Kingwood College - SCC 113  
20000 Kingwood Drive, Kingwood, Texas 77339  
[www.uhd.edu/kingwood](http://www.uhd.edu/kingwood)

**Mandy Danley**, UHD Advisor/Coordinator  
e-mail: danleym@uhd.edu  
281-318-4339

The rapid expansion of the Northeast area of Harris County has created new opportunities for meeting UHD students’ educational needs.

The University of Houston-Downtown’s teacher education program at LSC-Kingwood College offers certification in elementary education while earning a Bachelor’s of Arts in Interdisciplinary Studies. Students who wish to obtain EC-6 with ESL Supplemental certification or EC-6 with Bilingual Supplemental certification will need to take courses in a variety of academic areas. Courses are offered in the evening, online and on the weekend.

The University of Houston Downtown’s College of Business is offering the BBA in General Business at this location. Students complete lower-level course work at one of the six colleges or one of the Centers of the Lone Star College System. UHD offers the
junior- and senior-level courses leading to the degree. Instruction is delivered live on-site and course instruction is delivered in the evening.

College of Business programs
B.B.A. General Business*
*Accredited by The Association to Advance Collegiate Schools of Business

College of Public Service programs
B.A. In Interdisciplinary Studies EC-6 Generalist with ESL Supplemental Certification (teacher certification)
B.A. In Interdisciplinary Studies EC-6 Generalist with Bilingual Supplemental Certification (teacher certification)

Online Programs at UHD
www.uhd.edu/academic/distance
e-mail: distanceed@uhd.edu

Online Advisor - 713-237-5454
Toll Free - 855-864-3932

The rapid expansion of access to the Internet has created new opportunities for meeting UHD students’ educational needs. UHD offers a growing selection of upper division courses delivered over the web in support of degree programs. The courses are organized to provide students with a variety of activities designed to enhance the educational experience while providing the student with flexibility in taking the course. Students generally work within defined time frames for completion of course modules, and they often have the opportunity to interact directly in real-time with fellow students and their professor through chats and bulletin board discussions.

To meet students’ needs to access education anytime, anywhere, the University of Houston Downtown offers degree completion programs online. Students complete the required lower division course work, and UHD provides the upper division course work online for the degree. Classes offered are identical to those earned on campus and may be transferred to any other accredited institution. Students in the programs are not limited to online courses but can also take courses on campus or at UHD’s off-campus locations at their convenience. UHD has established the Office of Online Degree Programs to provide support to students completing degrees online. This office will provide assistance with services such as admissions, academic advising, registration, and financial aid.

College of Business Programs
B.B.A General Business*
B.B.A Enterprise Information Systems*
B.B.A Finance
B.B.A. Insurance and Risk Management*
B.B.A International Business*
B.B.A Management*
B.B.A Marketing*
B.B.A Supply Chain Management*
*Accredited by The Association to Advance Collegiate Schools of Business

College of Humanities and Social Sciences Programs
B.A. Humanities
B.S. Professional Writing
B.S. Psychology
M.A. Non-Profit Management

College of Public Service Programs
B.S. Criminal Justice
B.A.A.S. Criminal Justice
M.A. Teaching
M.S. Criminal Justice
Continuing Education and Professional Development

Continuing education and training are provided through three units: the Applied Business and Technology Center, the English Language Institute, and the Criminal Justice Training Division (see description in the Criminal Justice and Social Work Department’s section of this Catalog).

Applied Business and Technology Center
N716, 713-221-8032

The Applied Business and Technology Center (ABTC) is dedicated to responding to the needs of business and industry. With continuing changes in technology, jobs can become obsolete almost overnight. The many changes that are emerging in the workplace make lifelong education a necessity, not a luxury.

Hands-on training courses range from entry to advanced levels. The ABTC is an Authorized Premier Autodesk training center offering classes related to AutoCAD, Civil 3D, Revit, Inventor, third-party applications, and 3D Studio Max. In addition, hands-on training is provided on MicroStation, several programming languages, and various business applications. Also several online courses related to engineering, technology, and business applications are offered.

The center has an extensive consulting service that customizes courses to meet special industry requirements. Area corporations and agencies often contract with the center to provide their training needs in business and technology. In addition, national and foreign corporations often contract with the center to deliver services throughout the United States and abroad.

In addition, the center provides prep classes for the SAT, GRE, GMAT, and LSAT exams. The center also offers innovative classes, from computer programming to creative writing, for grade-school students during the summer.

English Language Institute

Mission

The English Language Institute at the University of Houston-Downtown provides quality English language instruction to international and resident non-native students and develops the cultural understanding necessary for academic and career success. Through engaging and authentic materials, the ELI leads students to achieve their individual academic and professional goals.

Goals

We strive to help learners build a foundation, gain control, advance their English knowledge and apply what they’ve learned in sophisticated ways. We do this by remaining:

Competitive

- Recruit qualified English instructors who have the appropriate credentials and experience teaching ESL
- Design curriculum specifically to advance student skills
- Implement valuable professional development training
- Strive to meet industry best practices by monitoring the scope, content and quality of services in accordance with CEA and SACS standards
- Cultivate new programs or courses that address the needs of all international students

Inclusive

- Encourage students to participate in intercultural exploration and communication activities
- Collaborate with UHD partners to support internationalization
- Preserve cultural respect within the global community by modeling acceptance
- Ease the transition from an educational setting to life through bridge activities
Supportive

- Encourage students to become comfortable and confident in their English communication skills
- Create a supportive environment for students, instructors, and office staff
- Enable students to gain an understanding of U.S. higher education culture and immigration regulations through access to individual consultation and activities

Resourceful

- Offer the necessary resources to allow students to personalize the information they acquire

Other Services

Student Parking
N354, 713-221-8127 • http://www.uhd.edu/about/parking/

Student parking is available at UHD in -three different locations: the Vine Street Garage (Naylor Street and Vine Street), the Daly Street Lot (North Main Street at Daly Street), and the Washington Street Lot (Washington Street at Louisiana Street). The campus shuttle service provides students with safe and convenient transportation from Daly Street Lot to the Commerce Street Building and the One Main/Academic Buildings. The shuttle can be tracked on your smartphone by downloading a free app ETA SPOT from the Apple Store or Google Play. To park on campus, vehicles must display a valid UHD parking permit. Purchasing a permit does not guarantee a parking place but allows you to park if space is available. The university reserves the right to control the availability of student parking areas to meet the demand for parking for special events. The parking fee is subject to change by the Board of Regents.

Dining Facilities
A308A, 713-221-8462 • http://uhd.campusdish.com/

Located on the third floor of the Academic Building, you will find the University Food Court to meet any of your breakfast, lunch or snack needs while on campus. During the Fall and Spring semesters, the Food Court offers a wide variety of lunch options including Starbucks, Smoothie King, Chick-fil-A, Subway, Grille Works, Bene Pizzeria, and a Salad Garden. Needing a quick snack? "Grab-N’Go” convenience items and a F’real milkshake machine are available as well. Stop by the Grille Works in the morning for breakfast tacos, pancakes, hash-browns, grits, breakfast sandwiches and more! In addition Chick-Fil-A, Starbucks and Subway are here to conquer those afternoon cravings.

Located on the first floor of the College of Business Shea Street Building, you will find the Shea Street Café. The café offers an assortment of “Grab-N’Go” items, snacks, and cold beverages for between-class snacks or on-the-go meals.

The fifth floor of the UHD Library features the 40,000 Windows Café, a coffee shop that offers handcrafted espresso drinks, brewed coffee and tea, and smoothies, as well as pastries and grab-and-go items to keep you fueled while you study.

Bookstore
N351, 713-221-8147, uh-downtown.bncollege.com

The upper level (third floor) of the university bookstore is located near the Main Street entrance of the One Main Building. It offers school supplies, clothing, insignia items, and snacks. The lower level (second floor) is your one stop shop for all of your new, used, rental and digital textbook needs. The bookstore is also available, online, 24 hours a day at uh-downtown.bncollege.com.

O’Kane Gallery
GSB322, (Girard Street Building), 713-221-8042

O’Kane Gallery opened its new facility in the spring of 2016 adjacent to the UHD Welcome Center. Directly above visitor parking off
Girard Street, the gallery offers over 1700 square feet of exhibition space. Intent on providing diverse programming that includes contemporary and historical work by regional, national, and international artists, the gallery serves UHD’s over 14,000 students, the university’s faculty and staff, and welcomes the public to view exhibitions and visit the UHD campus. Exhibitions are always free. In addition to professional exhibitions, the UHD Student Exhibition and the Houston high school High Art exhibition are annual events. The Harry W. O’Kane Gallery, established in 1970, was made possible by gifts from Harry W. O’Kane, Mary W. Bingman, and the Humphreys Foundation. For hours and information call 713-221-8042 or visit www.okanegallery.uhd.edu.

**O’Kane Theatre**

N364, 713-221-8104

The Harry W. O’Kane Theatre, established in 1970, was made possible by gifts from Harry W. O’Kane, Mary W. Bingham, and the Humphreys Foundation. The UHD theatre program presents two major theatrical productions each year, as well as numerous student-directed One Acts, Student Initiated Projects (SIP’s) and Lunch Time Theatre productions. In addition to the theatre space and a scene shop, there are adjacent work areas, storage rooms, an entrance lobby and a Green Room where students gather to study, rest, relax and socialize. Participation in all productions and activities, both onstage and backstage, is open to students, faculty, staff and alumni.
Undergraduate Policies and Procedures

Admissions
Applications must be submitted online at www.applytexas.org.

New Student Admission

General Information

Application. All new students must file an application for admission through the Apply Texas Application (www.applytexas.org) according to the posted application deadline dates (see below). A non-refundable application fee will be required as part of the enrollment process. All students must submit a non-refundable application fee or a qualifying UHD fee waiver.

NOTE: If you do not enroll for the semester you applied for admission, you must update your application using the Admissions Application Update form. A new application must be submitted if a full academic year has passed and grades have been earned. The application fee is good for one calendar year therefore if you are submitting an application form for a semester that falls after one calendar year you must pay the non-refundable application fee, and turn in any official documents by the posted application deadline dates (see below).

<table>
<thead>
<tr>
<th>Freshman Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term</td>
</tr>
<tr>
<td>Fall (regular undergraduate)</td>
</tr>
<tr>
<td>Spring (regular undergraduate)</td>
</tr>
<tr>
<td>Summer I and II</td>
</tr>
<tr>
<td>Summer II</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transfer Deadlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term</td>
</tr>
<tr>
<td>Fall (regular undergraduate)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Winter Term</td>
</tr>
<tr>
<td>Spring (regular undergraduate)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>May Term</td>
</tr>
<tr>
<td>Summer I and II</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Summer III</td>
</tr>
</tbody>
</table>

Residency Status Documents. International students and U.S. citizens born outside the United States must provide original, valid immigration documents such as I-551, I-688, I-94, passport or US citizenship certificate.

Transcripts. A transcript is considered official when it bears the institution's seal, is signed by the issuing authority, and is sent directly by the issuing institution or delivered in an envelope sealed by the issuing institution. Students with prior college experience must submit official transcripts from all previously attended colleges regardless of whether college credit was earned.
NOTE: UHD prefers the use of EDI/SPEEDE transcript submission. However, if this option is not available, official paper transcripts are acceptable as long as they are unopened and bearing the seal of the sending institution.

If sending your official transcripts by a 3rd party service such as eSCRIP-SAFE, JST, National Student Clearinghouse, Parchment/DocuFide, ADDS/AVOW, etc. please use the UHDETranscripts@uhd.edu email address. PLEASE NOTE: PDF transcripts must be sent directly from the issuing company and directly to the UHDETranscripts@uhd.edu email address to be considered official.

If you are unsure as to whether or not your electronic transcripts will be considered official at UHD, please contact the Office of Admissions by phone at 713-221-8522 or via email at uhdadmit@uhd.edu before you request or send your electronic transcripts.

Texas Success Initiative. The State of Texas requires that all students take, or prove exemption from, an assessment test prior to enrolling in college-level courses in a public institution. Students who have taken the THEA (formerly TASP), ASSET, COMPASS, or ACCUPLACER, or who are exempt from testing, must submit official documentation of the scores to the Office of Admissions.

Application process. New students who are admitted for any semester and do not register for courses within one calendar year must submit a new Apply Texas Application and non-refundable application fee to apply for any future semester. Any subsequent applications must be in accordance with current admission requirements. New transcripts, test scores, and other supporting documents may be required since files for admitted students who do not register are not retained indefinitely, and to ensure the application file reflects the applicant’s complete academic record prior to enrollment at UHD.

Freshman Admission

To qualify as a Freshman applicant, the student must have completed at least the 6th semester (junior year) of high school, received a high school diploma, or hold a GED high school equivalency. Each Freshman applicant must apply online with the Apply Texas Application (www.applytexas.org) and submit an official high school transcript, and SAT/ACT test score results. An admission decision is not made until the applicant’s file is complete. All documents submitted in support of an application become the property of UHD and cannot be returned. Offers of admission are valid only for the semester indicated in the acceptance letter. In addition to the Freshman Admission criteria, all must also comply with the State of Texas Uniform Admission Policy as stated below.

Students applying for admission should complete the following curriculum:

<table>
<thead>
<tr>
<th>English (four credits)</th>
<th>Science (four credits)</th>
<th>Social Studies (four credits)</th>
<th>Foreign Language (two credits in the same language)</th>
</tr>
</thead>
<tbody>
<tr>
<td>English I</td>
<td>Biology</td>
<td>U.S. History (one credit)</td>
<td>Fine Arts (one credit)</td>
</tr>
<tr>
<td>English II</td>
<td>Chemistry</td>
<td>U.S. Government (one-half credit)</td>
<td>Physical Education (one credit)</td>
</tr>
<tr>
<td>English III</td>
<td>Physics</td>
<td>Economics (one-half credit)</td>
<td>Speech (one-half credit)</td>
</tr>
<tr>
<td>English IV</td>
<td>An additional science credit</td>
<td>World History (one credit)</td>
<td>Communication Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>World Geography (one credit)</td>
<td>Professional Communications (CTE)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Electives (five and one-half credits)</td>
</tr>
</tbody>
</table>

Math (four credits)
- Algebra I
- Algebra II
- Geometry
- An additional math credit

State of Texas Uniform Admission Policy

Texas Education Code (TEC) 51.803-51.809 requires that all students meet one of the following college readiness standards in order to be eligible to be considered for admission at a Texas Four-Year Public Institution.

- Successfully complete the recommended or advanced high school program or complete the portion of the program that was available to them; or
• Satisfy the College Readiness Benchmarks on the SAT or ACT assessment
  o SAT – 1500 out of 2400 (Verbal + Math + Writing)
  o ACT – 18 English, 21 Reading, 22 Mathematics and 24 Science; or
• Successfully complete a curriculum that is equivalent in content and rigor to the recommended or advanced high school program at a high school that is exempt from offering such programs.

Students that do not meet one of first two requirements must prove they meet the third requirement by having their counselor fill out the High School Curriculum Certification Form and submit to the University of Houston-Downtown.

In addition to the State of Texas Uniform Admission Policy, beginning Summer 2016, University of Houston-Downtown applicants must meet the following Freshman Admission criteria:

**Top Quarter 1-25%
Submit SAT or ACT score**

**Second Quarter 26-50%
Minimum New SAT Total* 930/Old SAT** Total 850/ACT 18 or 2.5 GPA**

**Third Quarter 51-75%
Minimum New SAT Total* 930/Old SAT** Total 850/ACT 18 and 2.5 GPA**

**Fourth Quarter 76-99%
Minimum New SAT Total* 930/Old SAT** Total 850/ACT 18 and 2.5 GPA**

**Home School or GED
Minimum New SAT Total* 930/Old SAT** Total 850/ACT 18**

* New SAT Scores are for SAT exams taken March 2016 and after. The total consists of the Evidence-Based Reading and Writing & Math scores only.
** All other scores were taken prior to March 2016. The total consists of Critical Reading and Math scores only.

**Individual Review:** An applicant may be admitted without conditions or may be admitted conditionally. An applicant who is admitted conditionally will be required to successfully complete additional requirements prior to becoming eligible to enroll at UHD.

**Joint Admissions with the Gator Guarantee Community College Transfer Program**

Students who do not meet the UHD admissions criteria, will be referred to a partner community college. They will be jointly admitted to UHD and to the community college as a Gator Guarantee Community College student. Students that opt-in for this program will speak with an Academic Advisor and will be given a success action plan that details the courses that must be completed with a prescribed GPA to guarantee re-admission to UHD when the prerequisite conditions are met. Students who elect this program will be required to complete all developmental course work with passing scores as well as 24 hours of core courses.

**Additional Information**

• Freshman-Transfer applicants have less than 15 college credit hours, follow the Freshman Application procedures, and submit official transcripts from all colleges/universities attended.
• Texas Public High School Graduates must submit a high school transcript
• GED Recipients must submit their official GED certificate electronically, in person, or a true copy via mail.
• Home School Students are welcome as applicants for admission. Home schooled students are evaluated for admission on the same basis as students from public and other private high schools. Home schooled students are not required to submit TAKS scores.
Official Transcripts

All transcripts sent to UHD must be official; an official transcript includes the school's official seal, the signature of the school official, your class rank and size, and your high school coursework. Copies and faxes do not satisfy this requirement.

Early Admission

A high school student with a strong academic record who wishes to attend UHD during the summer prior to or during his or her senior year may apply for early admission. With the exception of the Texas Success Initiative (TSI) requirement, a student applying for early admission must follow the procedures for admission as outlined in the section titled Freshman Student Admission. In addition to these requirements, written approval from the high school principal or counselor must be provided. The courses to be taken at UHD must be approved by both the high school counselor and the university advisor.

Transfer Student Admission

Students should apply for admission as transfer students if they have previously completed 15 or more college-level credit courses from a regionally accredited institution after high school graduation. Applicants may be attending another regionally accredited college or university and may have coursework in progress at the time of their application to UHD.

Transfer applicants must file an application for admission, application fee, and submit official transcripts from all previously attended colleges, regardless of whether credit was earned, to the Office of Admissions by the application deadline. Transfer applicants that are on Academic Suspension from the most recent institution attended prior to applying to UHD will not be offered admission.

To qualify for transfer admission, the applicant must have earned 15 or more college-level semester credit hours and must have a minimum 2.0 transfer grade point average in non-remedial and non-developmental coursework. Plus and minus grades from a regionally accredited institution (i.e. “C-”, “B+”) are not used to determine the transfer grade point average.

Students applying for admission with less than 15 semester hours of college-level credit should submit an official high school or GED transcript as well as official college or university transcripts. To qualify for admission, applicants must have a minimum transfer grade point average of a 2.0 and meet the freshman admission standards.

UHD prefers the use of EDI/SPEEDE transcript submission. However, if this option is not available, official paper transcripts are acceptable as long as they are unopened and bearing the seal of the sending institution.

If sending your official transcripts by a Third party service such as eSCRIP-SAFE, JST, National Student Clearinghouse, Parchment/DocuFide, ADDS/AVOW, etc. please use the UHDETranscripts@uhd.edu email address. PLEASE NOTE: PDF transcripts must be sent directly from the issuing company and directly to the UHDETranscripts@uhd.edu email address to be considered official.

If you are unsure as to whether or not your electronic transcripts will be considered official at UHD, please contact the Office of Admissions by phone at 713-221-8522 or via email at uhdadmit@uhd.edu before you request or send your electronic transcripts.

Academic Fresh Start

A Texas resident is entitled to apply for admission as an undergraduate student in any public institution of higher education under the fresh start program. The university shall not consider academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll. An applicant who is admitted with a fresh start may not receive any course credit for courses undertaken 10 or more years prior to enrollment. If a student earns a baccalaureate degree, and applies for admission to a postgraduate or professional program offered by a public institution of higher education, the institution shall consider only the GPA of the applicant established by the course work completed after enrollment under the fresh start program, along with any other criteria the institution uses in evaluating applicants for admission. Nothing prohibits a public institution of higher education from applying standard admissions criteria to persons seeking admission to the institution.
Transient Student Admission

Current students who are working towards a bachelor's degree at another college or university and would like to attend UHD for one semester, may qualify for transient undergraduate admission to UHD.

To qualify as a transient applicant, students must apply online at applytexas.org, submit the completed Letter of Academic Standing available online on the Office of Admissions webpage, and submit official or unofficial transcripts.

Transient students are not eligible for financial aid. A transient student who wishes to remain at UHD or plans to attend in a future semester must reapply and be accepted as a transfer student.

Post-Baccalaureate Admission

Post-baccalaureate applicants seeking a baccalaureate degree from UHD must meet all requirements for transfer admission. Post-baccalaureate applicants desiring to earn an additional undergraduate degree are required to submit official transcripts from all institutions attended. Post-baccalaureate applicants desiring to take undergraduate courses only without seeking a degree, are required to submit an official transcript from the baccalaureate degree awarding institution. Post-baccalaureate applicants desiring to take graduate-level courses, but not seeking a graduate degree, must comply with all requirements of the department offering the graduate degree. All post-baccalaureate students must see an academic advisor before registering for their first semester. Additional documents may be required by a designated UHD College if enrollment in upper level courses is desired.

Return of Former Students

Students who have attended UHD but who were not enrolled during the preceding long semester must apply for readmission online by requesting that their academic record be reactivated. Students who have attended other colleges or universities since last attending UHD must submit official transcripts to the Office of Admissions. Students may apply for readmission online at http://myuhd.uhd.edu.

Eligibility for registration depends on the student's academic status at the conclusion of the last UHD semester of enrollment and academic performance on any subsequent college or university work attempted since last enrolled at UHD. Depending on academic standing students will need to speak with an Academic Advisor for class approval.

Articulation Agreements

UHD has worked with area community colleges to develop degree articulation agreements. Students planning to transfer to UHD are encouraged to direct their questions about the transferability of their courses to their community college counselor or to the Office of Admissions at 713-221-8522. Transfer students are also referred to information on the Texas Common Course Numbering System. This system ensures that any course designated as a common course by UHD will be accepted in transfer as equivalent to the UHD course.

International Student Admission

Individuals who hold non-immigrant visas are classified as international students. International students seeking admission to the University of Houston-Downtown must apply through the Office of International Admissions. Individuals who have applied for immigrant status, but who have not adjusted their status with the Immigration and Naturalization Service, also must follow the procedures below in order to obtain an I-20 immigration form.

Application. A new international student must file an application for admission with the Office of International Admissions and pay the nonrefundable application fee according to the dates listed below:

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>by</td>
<td>by May 1</td>
<td>By Nov 1</td>
</tr>
<tr>
<td>fee</td>
<td>$60</td>
<td>$60</td>
</tr>
<tr>
<td>after</td>
<td>after May 1</td>
<td>after Nov 1</td>
</tr>
<tr>
<td></td>
<td>$100</td>
<td>$100</td>
</tr>
</tbody>
</table>
In addition to meeting the appropriate requirements for freshman or transfer admission, an international applicant must provide the following:

**Transcripts.** Freshman students must provide official transcripts of secondary school scores, including mark sheets and date of graduation, in their original language. A certified English translation of all transcripts must be included if the originals are not in English. Transfer students must provide official transcripts from all colleges or universities attended. If original transcripts are not in English, a certified translation must accompany the original documents. In addition, all foreign transcripts must be evaluated by an evaluation service recognized by UHD in order to receive transfer credit. Students transferring from another college or university in the United States must submit a transfer form that has been completed and signed by the foreign student advisor at the previously attended institution. This form must be returned to the Office of International Admissions in order to complete the application.

**Affidavit of Support.** An Affidavit of Support must be submitted showing that a sponsor will be responsible for all educational and living expenses.

**Bank Letter.** A certified bank letter, indicating that the sponsor is financially capable of meeting the student’s education and living expenses, must be submitted. This letter must indicate, either in US dollars or in the local currency, the amount maintained in the account(s). The letter must have been issued within the past six months.

**Language Proficiency.** A valid Test of English as a Foreign Language (TOEFL) score of 550 for the paper version or 213 for the computer-based version, an IBT score of at least 80 or an IELTS score of at least 6.5 is required. Students with a language proficiency score of less than the requirement may attend the English Language Institute (ELI) prior to beginning academic studies at the university. ELI students study noncredit English classes until they are either recommended by ELI for academic study or achieve satisfactory language proficiency score. Graduates of ELI are able to enroll directly into the academic program at UHD without taking the TOEFL. Transfer students may be exempt from taking the TOEFL if they have passed 12 or more college-level hours in the United States, including Composition I and II, with a grade of C or better.

**Health Insurance.** International students must carry health insurance for the duration of their studies. The University of Houston-Downtown requires that students have a minimum of US $50,000 health insurance coverage, US $7,500 repatriation coverage and US $10,000 medical evacuation coverage. The deductible cannot exceed US $500. Each semester, in order to receive a UHD health insurance waiver, students must provide updated proof of this coverage, written in English, specifying coverage from the beginning of the semester until the end of the semester. This proof must be in the form of a letter from the insurance company or embassy and it must be submitted to the Office of International Admissions no later than the Official Day of Record which appears in the University Calendar at the front of every Registration Bulletin. Otherwise, students will be charged for health insurance as a part of their registration fees.

### Required Testing

#### Texas Success Initiative

On September 1, 2003, the 78th Texas State Legislature replaced the Texas Academic Skills Program (TASP) with the Texas Success Initiative (TSI). In order to enhance student success, this state-mandated program evaluates college readiness in math, reading, and writing. Unless TSI exempt or TSI complete by prior course work, all TSI obligated students entering UHD as undergraduates are required to take the New TSI test. Students who score below college readiness levels must enroll in the appropriate developmental courses.

Students will be notified of their TSI compliance and/or exemption status. Transfer students should contact an academic advisor in the Academic Advising and Transfer Center (Room 320-North) to determine exemptions or the need for testing. Students enrolling at off-site locations may consult with the designated UHD advisor at the site. Students who are not exempt or have not satisfied TSI College Readiness with coursework can contact UHD Testing Services to schedule the TSI Assessment.

**Students may satisfy TSI with “College Ready” based upon the following TSI scores.**

- 350 TSI MATH
- 351 TSI RDG
- 5 TSI Essay or 4 TSI Essay + 363 TSI WRT 363
TX students may be exempt from TSI testing.
Exemptions from TSI testing and Developmental course placement:

- Associate (AA or AS) or a baccalaureate (BA or BS) degree from a Texas public institution of higher education
- ACT composite score of 23 or higher with a score of at least 19 on both the math and English sections (scores good for 5 years from original test date)
- SAT score of 1070 or higher with at least 500 on both the math and verbal sections (scores good for 5 years from original test date)
- TAKS (Eleventh grade exit-level) with at least 2200 on MATH and/or at least 2200 on English Language Arts with a writing score at least 3 (scores good for 5 years from original test date)
- STAAR end-of-course (EOC) with at least 2000 on Level 2 of the English III are exempt from the TSI Assessment for both reading and writing, and at least 4000 on Level 2 of the Algebra II EOC (scores good for 5 years from original test date)
- Active duty military, Texas National Guard, or reserves or were honorably discharged, retired, or released from active duty in the military, the Texas National Guard, or the reserves after August 1, 1990.

UHD Students may satisfy TSI with college courses

Courses that satisfy TSI

**RDG: Reading**
College Reading with an earned graded of C or better or completion of Freshman or Sophomore level course in one of these areas:
SOC, ANTH, HIST, POLS, PHIL, ECO, PSY, ENG, CJ, GEOG.

**ENG: English**
UHD ENG 1300 [or transfer equivalent] with an earned graded of C or better or completion of Freshman or Sophomore level course in ENG Composition.

**MATH: Mathematics**
UHD MATH 1300 [or transfer equivalent] with an earned graded of C or better or completion of Freshman or Sophomore level course in one of these areas: MATH or STAT.

Questions call Academic Advising Mentoring Center at 713-221-8006,

Developmental Education Requirements

All UHD students may demonstrate College Readiness by initial testing or retesting or by making a C in the relevant developmental course. UHD Developmental education courses include:

- Writing: ENG 1300 (Fundamentals of English)
- Mathematics: MATH 0300 (Beginning Algebra) or MATH 1300 (Intermediate Algebra)

Tuition and Fees

The amounts shown in this section are provided to better assist students in assessing the cost of enrolling at the University of Houston-Downtown. While this information is intended to be comprehensive, tuition and fees are subject to change without notice by action of the Texas Legislature and/or the Board of Regents of the University of Houston System. Students are responsible for any additional amounts due to UHD, including changes to any fees and waivers, resulting from audits and corrections, such as registration assessment errors, or schedule changes resulting in additional charges. For current information on tuition and fees refer to the table online at [http://www.uhd.edu/cashiers/tuition_fees.html](http://www.uhd.edu/cashiers/tuition_fees.html).
Residency Status for Tuition Purposes

Residency status is determined in accordance with Rules and Regulations for Determining Residency Status, published by the Texas Higher Education Coordinating Board and pursuant to Title 3, Texas Education Code. Applicants provide residency information in the Application for Admission.

If the information provided is insufficient, UHD will classify the applicant as non-resident and request additional information. As a UHD student, you must establish both Texas residency and US residency in order to pay in-state tuition. If the student has been classified as a nonresident, the student may be required to show proof of either Texas or US residency, or both. If you are a first time student at UHD or it is your first semester as a transfer student you must go to the Admissions Office to request a change in residency status along with all supporting documentation. If you have established any academic history at UHD, you must request a residency reclassification form and provide all supporting documentation to the Registrar’s Office.

The burden of proof lies with the applicant that the residency requirements have been met for UHD to consider reclassification. Residency appeals must be submitted with all appropriate documentation by the Official Day of Record of the current semester. See University Academic Calendar for dates.

Tuition for Excessive Undergraduate Hours

Newly enrolled undergraduate students may be charged a tuition rate not to exceed that charged to nonresidents, if they are a resident of Texas and the number of hours required for completion of their undergraduate degree is in excess by at least 30 hours. Details on this law are available from the Office of Student Services and Enrollment Management, Suite 380-South.

Auditing Courses

To audit a course is to enroll in a course on a noncredit basis. Audit students pay the regular tuition and all other applicable fees as set for the current academic year. Senior citizens 65 years or over may be eligible for an exemption of tuition for an audited course on a space-available basis. A change to credit status may not be made after the student has registered to audit a course. Changes from credit status to audit status in a course must be made prior to the end of the Official Day of Record. A Request to Audit form must be processed in the Registrar’s Office by the Official Day of Record for the appropriate term along with Instructor approval. Students wishing to audit courses should contact the Registrar’s Office for further details. http://www.uhd.edu/registrar/students.html.

Texas Rebate Program

As authorized by Texas Education Code (Section 54.0065), any student who enrolled for the first time since fall 1997 for their first baccalaureate degree from a Texas public university may be eligible for a rebate of a portion of their undergraduate tuition up to $1,000. To be eligible, a student must complete his/her degree with no more than three hours attempted in excess of the minimum number of semester credit hours required to complete the degree, including transfer credits. The form to apply for this rebate can be found at the following online location: https://www.uhd.edu/student-resources/cashiers/Pages/cashiers-forms.aspx.

A student must wait until after the end of their final semester to submit this form to the Registrar’s Office. The form will be forwarded to the various departments listed on the form for review and approval. The final review and processing will be done by the Student Accounting department.

Fees

In addition to tuition, all students are subject to the following mandatory fees; Center Fee, Student Service Fee, International Education Fee, Incidental Fee, Records Office Fee, Extended Access & Support Fee, Advising Fee and Library Fee. These amounts can be found in the Tuition & Fee tables online at http://www.uhd.edu/cashiers/tuition_fees.html. Some courses and services also require additional fees:

Application for admission (nonrefundable) ........................................  $35
Late application for admission (nonrefundable) ...............................  $75
Application for international admission (nonrefundable) .................  $60
Late application for international admission (nonrefundable) ..........  $100
Course Fees (designated classes) ............... Varies from $10 to $30

Graduation application ........................................ $50
Late registration (nonrefundable) ......................... $50
Returned check ...................................................... $20
Orientation fee ..................................................... $80
Field trip .................................. Amount necessary to defray cost of trip
International student service fee .......................... $45
Student parking: long semester ........... Varies by location $90-$250
Student parking: summer session .......... Varies by location $30-$100
Health Service Visit Fee ......................................... $10
Course attempted 3rd time ...................... $65 per SCH
Developmental course after earning 18 hours of
  developmental credit ........................................ $65 per SCH
Hours exceeding degree program maximum* .......... $65 per SCH
Installment plan set up fee (Long/Short Term) .......... $24/$16
Installment plan fee (Delinquent/Default) .............. $10/$50
GatorCard Express Wire .................................... $30

*For students who initially enrolled in any institution of higher education from the fall 1999 semester through summer 2006, this fee applies to attempted hours that exceed 45 beyond their degree program's maximum. For students initially enrolling in the fall 2006 semester, this fee applies to attempted hours that exceed 30 beyond their degree program's maximum.

The university reserves the right to change tuition, other charges, and related requirements and regulations as necessitated by Board of Regents or legislative action.

Fall 2016 Undergraduate Tuition and Mandatory Fees

All fees are subject to change without notice.

The Fall 2016 tuition rate for Texas resident students is $202.50 per semester credit hour and for nonresident students the rate is $610.50 per semester credit hour.

Mandatory fees also vary according to the number of semester credit hours a student is taking.
In addition to nonresident tuition and fees, international students also pay an international student service fee of $45 per long semester. Student health insurance is also required for each semester. Students purchasing health insurance in the spring semester are covered through the summer and need not purchase the insurance again for any summer semester. Students attending summer sessions but who did not attend or pay for health insurance in the spring semester must purchase health insurance for the summer.

<table>
<thead>
<tr>
<th>Hours</th>
<th>Total Tuition and Mandatory Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Texas Resident</td>
</tr>
<tr>
<td>19</td>
<td>$4,430.50</td>
</tr>
<tr>
<td>18</td>
<td>$4,228.00</td>
</tr>
<tr>
<td>17</td>
<td>$4,025.50</td>
</tr>
<tr>
<td>16</td>
<td>$3,823.00</td>
</tr>
<tr>
<td>15</td>
<td>$3,620.50</td>
</tr>
<tr>
<td>14</td>
<td>$3,418.00</td>
</tr>
<tr>
<td>13</td>
<td>$3,215.50</td>
</tr>
<tr>
<td>12</td>
<td>$3,013.00</td>
</tr>
<tr>
<td>11</td>
<td>$2,810.50</td>
</tr>
<tr>
<td>10</td>
<td>$2,608.00</td>
</tr>
<tr>
<td>9</td>
<td>$2,405.50</td>
</tr>
<tr>
<td>8</td>
<td>$2,183.00</td>
</tr>
<tr>
<td>7</td>
<td>$1,957.50</td>
</tr>
<tr>
<td>6</td>
<td>$1,700.00</td>
</tr>
<tr>
<td>5</td>
<td>$1,416.50</td>
</tr>
<tr>
<td>4</td>
<td>$1,143.00</td>
</tr>
<tr>
<td>3</td>
<td>$869.50</td>
</tr>
<tr>
<td>2</td>
<td>$596.00</td>
</tr>
<tr>
<td>1</td>
<td>$322.50</td>
</tr>
</tbody>
</table>

The university reserves the right to change tuition, other charges, and related requirements and regulations as necessitated by the Board of Regents or legislative action.

**Method of Payment**

Students shall be provided with two alternative methods of payment of tuition and mandatory fees for each semester for which they are enrolled.

- Full payment of all tuition and mandatory fees prior to the beginning of the semester, or
- Installment Plan
**Fall and Spring semesters** – Up to seven equal payments with the first payment plus a $24 or $16 installment fee (depending on plan option) to be made in advance of the beginning of the semester, the remaining payments to be made monthly, and the final payment to be made before the last day of the semester. There will be a $10 late fee added for each installment payment not received by the due date and a $50 default fee added for any remaining balance at the end of the semester.

**Summer semesters** – Up to three equal payments with the first payment plus a $24 or $16 installment fee (depending on plan option) to be made in advance of the beginning of the summer term and the final payment to be made before the last day of the term. There will be a $10 late fee added for each installment payment not received by the due date.

**May/Winter Mini semesters** – Up to two equal payments with the first payment plus a $16 installment fee to be made in advance of the beginning of the term and the final payment to be made before the last day of the term. There will be a $10 late fee added for each installment payment not received by the due date.

Installment payment plans are available at the Cashier’s Office or online through Student e-Services under the My Payment option. Enrollment in an installment payment plan is equivalent to acknowledgement of financial responsibility for the semester. Students are only eligible for one installment plan option per semester. Once the installment plan is executed for the semester, it cannot be altered. Any charges incurred after the execution of the installment plan are due immediately. Additional charges that are incurred and not paid in full with the next installment are subject to being assessed a $10 late fee.

Payment may be made by cash, check or credit card. Payment may be made in person, by mail, online (credit/debit card or echeck) or through the payment drop box located in the hall next to the cashier’s office on the third floor of the One Main Building. Credit card payment (Visa, MasterCard, American Express, or Discover) may be made over the web via UHD’s Student e-services ([www.uhd.edu](http://www.uhd.edu)) or by fax to 713-223-7437 (authorization form available at [https://www.uhd.edu/student-resources/cashiers/Pages/cashiers-forms.aspx](https://www.uhd.edu/student-resources/cashiers/Pages/cashiers-forms.aspx)). Please remember that mailed payments must be received by the posted payment deadlines to avoid having classes dropped or late fees assessed. UHD does not receive mail on Saturday, so payments must be received by Friday for Saturday deadlines.

The University of Houston System charges a processing fee on all credit card transactions. The processing fee is assessed on all credit card brands. The processing fee imposed is not greater than the University’s applicable merchant discount rate for credit card transactions.

The credit card processing fee is assessed to Credit Cards, Debit Cards, Gift Cards, PrePaid Cards, and Check Cards. This fee is assessed on all credit card transactions that occur online or in person at the Cashier’s Office.

Health Insurance fees shall be paid prior to the beginning of the semester.

Most financial aid awards will be credited to your account automatically once processing is completed and you are registered for the same number of hours for which you are awarded. It is the student’s responsibility to check their account statement to ensure that their funds have been posted to their account before the payment deadline and that 100% of their tuition and fee charges are paid to secure enrollment. If financial aid has not been posted or does not cover 100% of the term charges, the student must make the payment or other arrangements with the Cashier’s Office or online by the deadline to avoid enrollment cancellation. Student account statements can be viewed through UHD’s Student e-services ([www.uhd.edu](http://www.uhd.edu)), My Payment option.

Students receiving financial aid equal to, or in excess of, the total amount of tuition and fees prior to the beginning of the semester may not participate in the installment plan. The full payment of tuition and fees for the semester in which they are enrolled must be made upon issuance of that semester’s financial aid funds before any excess amounts will be refunded.

Withdrawal from the university, for whatever reason, will not cancel the obligation to pay the full amount of the installment plan. If the amount of tuition and fees credited as a result of withdrawal is less than the remaining balance of an installment plan, the balance remaining is still the obligation of the student. If the credited amount is more than the balance of an installment plan, the remaining credit will be refunded to the student.

Any student who has elected to pay tuition and fees by installment, and who is delinquent in making payment by the final installment
due date, is barred from registering at any institution in the University of Houston System until full payment, including delinquent charges, has been made. Additionally, students with delinquent accounts will be barred from request of official transcript or diploma. Each university maintains records and informs other institutions about the status of payments should the student attempt to register for courses or pursue a degree at any other component of the University of Houston System.

An additional default fee of $50 is collected from any student who fails to make all installment payments by the end of the semester. This fee, in addition to all other amounts due, must be paid prior to the student’s registering for courses during a subsequent semester.

Financial Responsibility

Students are required to meet all financial responsibilities to the university. An outstanding debt at any university within the University of Houston System (UH, UH-Clear Lake, UH-Downtown or UH-Victoria) will prohibit a student from enrolling in or the release of an official transcript or diploma from all University of Houston System Institutions. Establishing a payment agreement with the University does not satisfy the conditions necessary to receive credit for courses completed or for the release of an official transcript or diploma. Students are required to complete an electronic Financial Responsibility Agreement each semester upon registration. This statement outlines the terms and conditions of the financial responsibilities and obligations associated with attending the university.

Returned Checks

Students who write checks to the university on accounts with insufficient funds are assessed a $20 service charge for each such check, regardless of the amount, and may be referred to law enforcement authorities and/or credit bureaus. If a check is returned as a result of bank error, the student must contact their bank for reimbursement of the $20 returned check charge paid to the university. If such a check is presented in payment of tuition and fees, the payment will be reversed from the student account and the student will be subject to all applicable late fee and drop dates. Failure to make a valid payment by the drop date WILL result in loss of registration and a reinstatement charge may be required before reenrollment is approved.

Financial Hold Removal

Students must clear financial holds with all University of Houston System Institutions before credit can be granted for coursework completed and an official transcript or diploma released. There is a minimum 15-day hold on all personal check/electronic check payments which will prevent the release of an official transcript or diploma. Cross-campus financial hold removal can take 2-24 hours to be updated across all UH System Campuses. It is the student’s responsibility to contact the UHD-Cashier’s Office to request financial hold removal after payment has been submitted.

Collections

A student who does not meet financial responsibilities to the university may be subject to withdrawal from classes and may be referred to an outside collection agency. Once an account is referred to a collection agency, the student is responsible for payment of additional collection fees. The student agrees to reimburse the university the fees of any collection agency, which may be based on a percentage at a maximum of 33.3% of the debt, and all costs and expenses, including reasonable attorney’s fees, the university incurs in such collection efforts.

Refunds

All refunds are processed through HigherOne, the issuer of your HigherOne Card. In order to receive a refund you MUST activate your HigherOne Card and choose one of the three refund methods. To activate your HigherOne Card, go to www.uhdgatorcard.com. If you have not received your card, you can click on the Where’s My Card? link also at www.uhdgatorcard.com to see the status.

No refund shall be issued to a student who has not met all financial obligations for the semester, including full payment of installment balances.

If a balance is owed for a semester other than the semester due the refund, funds may be automatically moved to cover that balance. If a student is allowed to register with an outstanding balance or incurred a debt after registering, that balance must be paid in full before being permitted to register for future semesters and/or receive a transcript or a diploma. It is the student’s responsibility to check his/her account summary and hold status after the receipt of a University issued refund to ensure that there is no outstanding financial obligation.
The first posting of financial aid to student’s accounts is not allowed until 10 working days before the first class day. Financial Aid refunds will be issued within 14 business days. See information below regarding overpayments.

All refunds for schedule changes and withdrawals are made in accordance with the following rules and regulations:

**Complete Withdrawal (Processed after the Official Day of Record listed in Academic Calendar)**
Students who officially withdraw from all university courses may be eligible for a refund of tuition and mandatory fees. Please refer to the current academic calendar for the refund schedule. All 100% refunds incur a $15 processing fee. Students who are withdrawing and who have received financial aid should consult the Office of Scholarships and Financial Aid.

**Partial Withdrawal (Processed after the Official Day of Record listed in Academic Calendar)**
Students who officially drop some but not all of their courses within the first 12 class days of the fall or spring semester, within the first four days of a summer session, or within the first two days of the May/Winter mini sessions are eligible for a 100% refund of tuition and fees for the dropped classes. After this period there is no refund for partial withdrawals. Refunds resulting from dropped classes will not be processed until after the ADD/DROP period has ended. Students who are withdrawing and who have received financial aid should consult the Office of Scholarships and Financial Aid. Financial Aid adjustments may be required for partial withdrawals and before processing of a refund. Part of Term courses may have a separate drop schedule. Please see Academic Calendar for specific dates and deadlines.

**Overpayments (Processed after the Official Day of Record listed in Academic Calendar)**
Payments received on student accounts with a zero balance will be returned to the student or vendor sending the payment to the address on file or listed on the payment

**Payment by Check**
Payments by check that result in a credit balance will be refunded to the student HigherOne Card after a 30 day clearing period.

**Payment by Credit Card**
Payments by credit card that result in a credit balance will be refunded back to the credit card used to make the payment.

**Payment by Cash**
Payments by cash that result in a credit balance will be refunded to the student HigherOne Card.

**Scholarships and Financial Aid**

**Estimated Costs**

The following are estimated costs for attending UHD full time for the 2016-2017 academic year:

<table>
<thead>
<tr>
<th>Costs</th>
<th>Resident</th>
<th>Non-Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Direct Costs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuition &amp; Fees (12 hours)</td>
<td>$6,026</td>
<td>$15,818</td>
</tr>
<tr>
<td>Books and Supplies</td>
<td>$1,210</td>
<td>$1,1210</td>
</tr>
<tr>
<td><strong>Indirect Costs</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Living Expenses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>With Parents</td>
<td>$4,360</td>
<td>$4,360</td>
</tr>
<tr>
<td>Not with Parents</td>
<td>$8,720</td>
<td>$8,720</td>
</tr>
<tr>
<td>Transportation</td>
<td>$2,906</td>
<td>$2,906</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>$4,012</td>
<td>$4,012</td>
</tr>
</tbody>
</table>

The University of Houston-Downtown offers a variety of financial aid programs to assist undergraduate and graduate students in meeting educational costs. The programs include scholarships, grants, loans and part-time employment, which may be awarded in various combinations and amounts to meet individual student needs. Because funds are limited in many programs, it is important to
begin the application process early and complete the necessary applications properly and on time. To receive priority consideration for Supplemental Equal Opportunity Grant and all state and institutional grant funds, all necessary applications must be on file in the Office of Scholarships and Financial Aid by April 1 of each year. Most federal and state aid is awarded on the basis of proven financial need rather than academic achievement. Most scholarships are awarded on the basis of academic achievement, talents and special skills rather than proven financial need.

Financial Aid Programs
http://www.uhd.edu/financial/

University of Houston-Downtown participates in the following federal, state and institutional programs. Most programs have limited funds so early application is encouraged.

Grants

Federal Pell Grant. A Federal Pell Grant, unlike a loan, does not have to be repaid. Pell Grants are awarded to undergraduate students who have not earned a bachelor's or a professional degree. The maximum can change each award year and depends on program funding. The amount awarded, though, will depend not only on the student's financial need, but also on their costs to attend school, status as a full-time or part-time student, percentage of Pell Grant funding received in the past and plans to attend school for a full academic year or less.

Federal Supplemental Equal Opportunity Grant. The Federal Supplemental Educational Opportunity Grant (FSEOG) program is for undergraduates with exceptional financial need. Pell Grant recipients with financial need will be considered first for a FSEOG. Just like Pell Grants, the FSEOG does not have to be repaid.

TEXAS Grant. This renewable state grant is available to recent Texas high school graduates who completed the recommended or advanced curriculum in high school or who received an associate's degree after May 1, 2001 who also demonstrate financial need. Students must enroll in a minimum of 12 hours and be classified as Texas residents.

Texas Public Educational Grant. This grant is funded by tuition revenues and is available to both Texas residents and non-residents. Students must demonstrate financial need to be eligible for this grant. Priority will be given to students who enroll at least half-time.

License Plate Scholarship. This grant is funded by revenues from UHD vanity plate fees. Students must enroll at least half-time, be classified as Texas residents and demonstrate financial need.

Work-Study Programs
https://jobs.uhd.edu

Texas Work-Study and Federal College-Work Study. These programs are designed for students who enroll at least half-time who demonstrate financial need. Awards are earned as wages in on- and off-campus positions. Must be a US citizen or permanent resident for federal work-study or be classified as a Texas resident for Texas work-study. Students who have relatives working at UHD must get clearance from the Office of Scholarships and Financial Aid to show they are in compliance with the university's nepotism policy.

Student Loans

Direct Subsidized Loan. A low-interest loan with interest subsidies while student is enrolled at least half-time. Must be a US citizen or permanent resident and be enrolled at least half-time to participate. Maximum loan amounts vary with grade level in college. Additional application and loan counseling required.

Direct Unsubsidized Loan. A low-interest loan not based on financial need. Students may defer interest payments while enrolled at least half-time. Must be a US citizen or permanent resident and be enrolled at least half-time to participate. Maximum loan amounts vary with grade level in college. Additional application and loan counseling required.
Parent Loans to Undergraduate Students. A low-interest loan for parents of dependent students enrolled at least half-time. Parent must be a US citizen or permanent resident and student must be enrolled at least half-time to participate. Families do not need to demonstrate need to participate in this program. Additional application required.

Application Procedures

At a minimum, students should complete the Free Application for Federal Student Aid (FAFSA). Other forms or documentation may be required to determine eligibility for state and/or federal programs. When completing the FAFSA, students should list UHD’s school code (003612) in Step Six. Once a student has begun the application process, the Office of Scholarships and Financial Aid will notify the student of missing forms and/or documentation by e-mail. Students will also be e-mailed an award letter to their gator mail account when their eligibility for aid has been finalized. Students may also access their financial aid information online at www.uhd.edu/eservices.

Certain categories of foreign-born and immigrant students in the state of Texas can meet state requirements for residency. Such students are able to pay the resident tuition rate while attending public institutions of higher education in Texas. If a student falls into this category he/she will need to complete the Texas Application for State Financial Aid (TASFA). The form is available online at https://www.uhd.edu/financial/Documents/1617-tasfa.pdf.

Direct Lending Procedures

Getting Started:
1. Important: You will need your Department of Education FSA ID (the same ID used for the FAFSA) in order to complete and electronically sign your electronic Master Promissory Note (eMPN) under the Direct Loan Program. If you have forgotten your ID or do not yet have one, please go to fsaid.ed.gov to have your ID reset.
2. Have your social security number, date of birth, and driver’s license number accessible.
3. You will also be required to provide two personal references (full name, address, and telephone number) whom you have known for at least three years. Each reference provided must reside at a different U.S. address as well as different from the student’s address.

Complete an Electronic Master Promissory Note (eMPN)

To complete your eMPN, you will need to go to https://www.studentloans.gov/ and click on “Complete New MPN for Student Loans”. Remember that you will need your Federal Student Aid ID and password.

We estimate that it will take 30 minutes to complete the eMPN process. Make sure you allow enough time to complete the entire process in a single session.

Once you complete the eMPN process correctly, UHD will receive notification electronically that you have completed your MPN. This will allow the UHD Financial Aid Office to continue working on your loan disbursement authorization process.

Complete a Loan Entrance Counseling (LEC)

To complete your LEC, you will need to go to https://www.studentloans.gov/ and click on “Complete Loan Entrance Counseling”. Remember that you will need your Federal Student Aid ID and password.

Your LEC includes information about all of your past student loans as well as helps you to see the amount you will owe based on that previous total.

Once you complete the LEC process correctly, UHD will receive notification electronically that you have completed your LEC. This will allow the UHD Financial Aid Office to continue working on your loan disbursement authorization process.

Direct Lending Disbursement Requirements

Federal regulations require that all Direct Loans (subsidized, unsubsidized and PLUS) must be disbursed in two disbursements based on your enrollment period. Direct Loans that are processed for a single semester will be paid in two installments, one at the beginning of the semester and the remaining payment at the midpoint of the semester. The first disbursement for first-time, first-year borrowers will be 30 days after the beginning of the first semester enrolled at least half-time.
Other Eligibility Requirements

UHD Degree-Seeking Student Requirement
In order to receive financial aid, students must make progress toward their degree as defined by the Office of Scholarships and Financial Aid.

There are three components to satisfactory academic progress:

Grade Point Requirement
Undergraduate students must achieve and maintain at least a 2.0 cumulative grade point average on all course work attempted at UHD. Graduate students must achieve and maintain a cumulative GPA of 3.0 on all course work attempted at UHD.

Completion Requirement
Students must complete at least 73% of all course work attempted.

Time Frame Requirement
Students must complete their program of study within a reasonable time frame. The maximum time frame established for UHD as an undergraduate is 170 credit hours (to include all transfer credit hours). A complete copy of the Satisfactory Academic Progress Policy is available online. Please read this policy to see how progress will be monitored. The Office of Scholarships and Financial Aid is required to review students’ entire academic records (regardless of the age of the record or whether or not aid was received) to determine compliance. Students found not to be in compliance will be notified in writing of any denial/suspension and the appropriate appeal procedure.

Dropping Classes
Students’ final eligibility for aid will be based on the number of hours for which they are enrolled on the Official Day of Record listed in the Class Schedule. If they register and then drop classes prior to that date, their eligibility for aid will be RECALCULATED on the remaining hours as of the Official Day of Record. Since financial aid is released prior to the Official Day of Record, students who receive a financial aid payment based on more hours than those remaining as of the Official Day of Record may be responsible for repaying a portion of any financial aid received. Dropping classes may affect students’ eligibility for future aid. Students should consult the Satisfactory Academic Progress Policy to determine if dropping classes will affect their eligibility for aid.

Total Withdrawal from School
For students who register and then totally withdraw from all classes, eligibility for aid will be RECALCULATED based on the number of days the student attended class. If the student totally withdraw from all classes prior to the first class day, he/she must repay any and all financial aid received. If the student withdraws on or after the first class day, he/she may have to repay a portion of any financial aid received. Students who have failed to earn a passing grade in any of their classes are considered to have totally withdrawn from school and may have to repay a portion of any financial aid received. See Return of Title IV Funds below. Students who totally withdraw should consult the definition of Satisfactory Academic Progress to determine if their withdrawal will affect their eligibility for future aid.

Administrative Drops
For students who have been administratively dropped from classes for non-attendance, eligibility for aid will be RECALCULATED based on the number of hours for which enrollment remains. If student is dropped from all courses, ALL aid will be removed from student’s account which may result in a balance to the university.

Return of Title IV Funds
The Higher Education Amendments of 1998 changed the formula for calculating the amount of aid a student and school can retain when the student totally withdraws from all classes or fails to earn a passing grade in any of the current semester’s classes. Students who withdraw from all classes prior to completing 60% of the semester will have their eligibility for aid recalculated based on the percent of the semester completed. For example, a student who withdraws completing only 30% of the term will have “earned” only 30% of any Title IV aid received. The remaining 70% must be returned by the school and/or the student. A student who fails to earn a passing grade in any of his/her courses will have their eligibility recalculated based on the midpoint of the semester or the last date of participation in an academically related activity. The Office of Scholarships and Financial Aid
encourages you to obtain a complete copy of this policy from the office and read it carefully. If you are thinking about withdrawing from all classes PRIOR to completing 60% of the semester, you should contact the Office of Scholarships and Financial Aid to see how your withdrawal will affect your financial aid.

**Academic Scholarships**

Academic scholarships at UHD are intended to recognize and reward outstanding achievement and community involvement. Applicants for most scholarships, therefore, do not need to show evidence of financial need to apply. The application deadline for most UHD scholarships is April 1 of each academic year. However, the Office of Scholarships and Financial Aid may accept applications at other times during the year if scholarship funds are available. Interested students should contact the Office of Scholarships and Financial Aid as soon as they decide to apply for admission at UHD to find out what scholarships are available. Many academic departments at UHD also award scholarships. Students are encouraged to contact the department of their major to find out what departmental scholarships are available.

**Tuition and Fee Exemptions**

**Hazlewood Act**

The Hazlewood Act is a benefit that provides qualified veterans, their spouses, and dependent children with an exemption that can cover up to 150 credit hours of eligible tuition and fees at Texas public institutions. Not all university charges are covered, and it does not include indirect expenses such as living expenses, books, or miscellaneous.

**Veterans** The veteran must meet the following criteria:

- At the time of entry into the U.S. Armed Forces:
  - Were Texas residents or
  - Designated Texas as Home of Record, or
  - Entered the service in Texas
- Have served at least 181 days of active military duty, as indicated on the DD214 as “net active service” (the sum of 12[c] and 12 [d])
- Have received an honorable discharge or separation or a general discharge under honorable conditions
- Have no federal veteran’s education benefits, or have no federal Veterans education benefits dedicated to the payment of tuition and fees only (such as Chapter 31 or 33) for term or semester enrolled that do not exceed the value of Hazlewood benefits.
- Are not in default on a student loan made or guaranteed by the State of Texas.
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its costs), unless the college’s governing board has ruled to let veterans receive the benefit while taking non-funded courses.
- Meet [Satisfactory Academic Progress](#) requirements in accordance with the university’s financial aid policy.

**Dependents** Children and Spouses must meet the following criteria:

- Be a child or spouse of a veteran who, at the time of entry into the U.S. Armed Forces:
  - Were Texas residents or
  - Designated Texas as Home of Record, or
  - Entered the service in Texas
- Have a parent or spouse who was a veteran of the U.S. Armed Forces, Texas National Guard, or Texas Air National Guard who died as a result of service-related injuries or illnesses, is missing in action, or became totally disabled for purposes of employability as a result of service-related injury or illness.
- Have no federal veteran’s education benefits, or have federal education benefits dedicated to the payment of tuition and fees only (such as Chapter 31 or 33) for term or semester enrolled that do not exceed the value of Hazlewood benefits.
- Are residents of Texas as of the term or semester in which they enroll
- Meet [Satisfactory Academic Progress](#) requirements in accordance with the university’s financial aid policy.
To obtain this exemption, the veteran or dependent must submit an application with attached evidence to the Office of Scholarships and Financial Aid by the Official Day of Record of the term for which the veteran or dependent is applying for the Hazlewood benefits. Hazlewood applications must be renewed each year.

Financial Aid Disbursements

The dollar amounts listed on your award page are generally based on full-time enrollment. The amount of aid authorized for disbursement to your student account will be based on your actual credit hour enrollment. With the exception of Federal or State Work-Study, financial aid processed by the Financial Aid Office will automatically be disbursed to your student account given you have completed the Terms and Conditions requirement. The Student Accounting and Cashiers Office will deduct incurred costs (tuition, fees, and other authorized charges) from the financial aid that is credited to your account. Any remaining financial aid is refunded to you by the Student Accounting and Cashiers Office.

The Financial Aid Office will authorize disbursement no earlier than 10 days prior to the start of classes for the semester.

Academic Policies

Courses and Course Credit

Course Load

Maximum course loads are established to encourage students to think carefully about the amount of time they will need to devote to each class. The following policies are in place so that students are better able to meet their course obligations successfully.

- A standard undergraduate course load during the fall and spring terms is 15 to 16 semester credit hours, or five courses. Twelve semester credit hours are considered the minimum full-time load.
- Students who are employed 40 hours per week should take no more than two courses, or six credit hours.
- Students who wish to enroll in 20 credit hours or more in a fall or spring term must receive approval from the assistant or associate dean of their college.
- The standard load for one summer session is six to eight credit hours.
- Students who wish to enroll in nine hours or more in a single summer session or in two overlapping summer sessions must receive approval from the assistant or associate dean of their college.

For information on the graduate course load, consult specific master's degree coordinator.

Part-of-Term (PoT)

Effective Fall 2011, UHD began utilizing shorter sessions, termed "Part-of Term" (PoT) within full terms. For more information about these offerings, please review the posted academic calendars on the UHD website (uhd.edu).

Schedule Changes

Schedule changes are made online, and may require approval by an academic advisor. Registration instructions for Schedule Changes are found in on the UHD Registrar’s Office website and the dates for Schedule Changes are found in the online Academic Calendar.

Discontinued (Cancelled) Classes

The university reserves the right to discontinue classes or otherwise alter the class schedule. Whenever possible, enrollment in an alternate course is completed through an administrative change form initiated by the department responsible for discontinuing the class.

Classification

Undergraduate classification is determined by the number of credit hours which have been completed: 0-29 semester hours: freshman; 30-59 semester hours: sophomore; 60-89 semester hours: junior; and 90 semester hours and above: senior. Graduate classification is determined by admission status.

Class Attendance

Students are expected to attend all class sessions. The responsibility for dropping a course lies with the student. Departments and
faculty members may have additional attendance policies for their courses.

Transfer Credit-Undergraduate

Acceptance of Transfer Credit

Transfer students must submit official transcripts from all colleges or universities attended as a part of the admission process. Transfer credit evaluations will be performed during the admission process to the university. Course work transferred or accepted for credit toward an undergraduate degree must be accredited by a recognized regional accrediting association and represent collegiate course work relevant to the degree, with course content and level of instruction resulting in student competencies at least equivalent to those of students enrolled in the institution’s own undergraduate degree program.

Workforce Education course work, both vocational and technical, may be accepted by some programs, depending on the specific program, provided these courses are from an accredited institution that is recognized by THECB.

Transfer courses determined to be substantially equivalent to a UHD course will be transferred as the UHD course equivalent. Courses taken at other colleges that do not correspond to courses offered by UHD may transfer as elective credit. The number of hours credited for a transferred course will be calculated as UHD equivalent hours. In the case that the number of transferred hours for a course is less than the number of hours required by UHD, the missing hours must be fulfilled under the electives area of the degree plan.

With the consent of the appropriate dean, the chair of the department in which a student is majoring will make the decision concerning application of transfer credit to the degree program. Therefore declared majors should obtain approval from their degree-granting college before taking courses from a community or junior college which they wish to transfer to UHD.

In general, UHD does not award transfer credit for vocational courses that are not considered part of a standard college curriculum. Students may petition the academic dean of the college in which they are seeking their degree, who may agree to award credit for such courses in exceptional circumstances.

Students should direct questions concerning transfer credit to their academic advisor or degree program coordinator.

Evaluation of Transfer Credit

Transcripts will be evaluated for institutional transfer credit upon completion of the admission application process.

For a course taken more than once, the highest grade will be transferred. Courses that have an F or W will not be accepted for transfer. Grades from the transfer institution, including any other university in the UH System, do not count toward the student’s UHD GPA. Developmental courses do not transfer for credit but may allow the student to move forward.

Transfer work will be further evaluated for applicability to the student’s chosen degree plan by the degree-granting college once the student has been accepted into the college as a declared major.

Students who apply to UHD while they are attending another institution must submit two official transcripts. The first should be sent at the time of application and should reflect the student’s current enrollment. A second must be sent as soon as grades are available for those classes.

Transferring Credits from Other Countries

Students applying for admission with college credits from other countries must submit an evaluated transcript from a credential evaluation service recognized by the university. Credits will be granted based on the recommendations of the evaluating service with respect to University of Houston-Downtown degree requirements at the time of enrollment.

Information and brochures from evaluating service agencies are available at the Office of Admissions and online at www.uhd.edu/admissions.
Transfer Credit Dispute Resolution Procedures

Students who receive written notification from Office of Admissions that a lower-level course taken at another Texas public institution of higher education has not been accepted may challenge denial of credit by UHD. To initiate a dispute action, a Transfer Dispute Resolution form must be completed. The form and instructions for its completion are available on the Office of Admission website.

Credit by Examination

UHD accepts up to 24 hours of credit by examination. Credit by examination may be obtained on the basis of several types of examinations. Nationally recognized standardized examinations such as the College Level Examination Program (CLEP), the College Board’s Advanced Placement program, and International Baccalaureate (IB) may be used. Examinations widely used within a professional field and locally designed examinations also may be used. Students planning to take CLEP exams should do so before their final semester.

Nationally standardized examinations are administered through Testing Services; all other examinations are administered through the responsible department.

If credit is not awarded, a period of six months must elapse before application for re-examination will be considered. Appropriate fees are charged for each examination. No student may attempt the exam for a particular course more than twice. Credit may be granted for professional certification and training received from armed forces and service schools. With consent of the appropriate dean, the chair of the department in which the student is majoring will make the decision concerning the applicability of such courses to the degree program.

Credit received by examination does not fulfill residency requirements for graduation.

No grade is awarded for courses for which credit has been obtained by exam, nor are hours received for such courses included in the calculation of grade point average for graduation. Listed below are the subject examinations for the Advanced Placement Program and the College Level Examination Program.

### College Level Examination Program

<table>
<thead>
<tr>
<th>Examination</th>
<th>Score</th>
<th>UHD credit awarded</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Government</td>
<td>50</td>
<td>POLS 2305</td>
<td>3</td>
</tr>
<tr>
<td>American Literature</td>
<td>50</td>
<td>ENG 2311 &amp; 2312</td>
<td>6</td>
</tr>
<tr>
<td>Analyzing &amp; Interpreting Literature</td>
<td>50</td>
<td>ENG 2300</td>
<td>3</td>
</tr>
<tr>
<td>College Algebra</td>
<td>50</td>
<td>MATH 1301</td>
<td>3</td>
</tr>
<tr>
<td>College French</td>
<td>50</td>
<td>FREN 1401 &amp; 1402</td>
<td>8</td>
</tr>
<tr>
<td>College Spanish</td>
<td>50</td>
<td>SPAN 1401 &amp; 1402</td>
<td>8</td>
</tr>
<tr>
<td>English Literature</td>
<td>50</td>
<td>ENG 2313 &amp; 2314</td>
<td>6</td>
</tr>
<tr>
<td>College Composition Modular</td>
<td>50</td>
<td>ENG 1301</td>
<td>3</td>
</tr>
<tr>
<td>History of the US I</td>
<td>50</td>
<td>HIST 1305</td>
<td>3</td>
</tr>
<tr>
<td>History of the US II</td>
<td>50</td>
<td>HIST 1306</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>50</td>
<td>PSY 2310</td>
<td>3</td>
</tr>
<tr>
<td>Information Systems &amp; Computer Applications</td>
<td>50</td>
<td>CIS 1301</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>50</td>
<td>PSY 1303</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>50</td>
<td>SOC 1303</td>
<td>3</td>
</tr>
<tr>
<td>Pre calculus</td>
<td>50</td>
<td>MATH 1302 &amp; 1404</td>
<td>7</td>
</tr>
<tr>
<td>Principles of Macroeconomics</td>
<td>50</td>
<td>ECO 2301</td>
<td>3</td>
</tr>
<tr>
<td>Principles of Microeconomics</td>
<td>50</td>
<td>ECO 2302</td>
<td>3</td>
</tr>
</tbody>
</table>
### Advanced Placement Program

<table>
<thead>
<tr>
<th>Examination</th>
<th>Score</th>
<th>UHD credit awarded</th>
<th>Hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>4</td>
<td>ART 1302</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>ART 1301 &amp; 1302</td>
<td>6</td>
</tr>
<tr>
<td>Biology</td>
<td>3 or 4</td>
<td>BIOL 1301/1101</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>BIOL 1301/1101 &amp; 1302/1102</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3 or 4</td>
<td>CHEM 1307/1107</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>CHEM 1307/1107 &amp; 1308/1108</td>
<td>8</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3</td>
<td>CS 1410</td>
<td>4</td>
</tr>
<tr>
<td>English: Language &amp; Composition OR English Literature &amp; Composition</td>
<td>3</td>
<td>ENG 1301</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>ENG 1301 &amp; 1302</td>
<td>6</td>
</tr>
<tr>
<td>French Language</td>
<td>3 or higher</td>
<td>FREN 1401 &amp; 1402</td>
<td>8</td>
</tr>
<tr>
<td>Gov’t &amp; Politics: US</td>
<td>3</td>
<td>POLS 2305</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics: Calculus AB</td>
<td>3</td>
<td>MATH 2401</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics: Calculus BC</td>
<td>3</td>
<td>MATH 2402</td>
<td>4</td>
</tr>
<tr>
<td>Physics B</td>
<td>3 or 4</td>
<td>PHYS 1307/1107</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>PHYS 1307/1107 &amp; 1308/1108</td>
<td>8</td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3</td>
<td>PHYS 1307/1107</td>
<td>4</td>
</tr>
<tr>
<td>Physics C: Electricity &amp; Magnetism</td>
<td>3</td>
<td>PHYS 1308/1108</td>
<td>4</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>PSY 1303</td>
<td>3</td>
</tr>
<tr>
<td>Spanish Language/Literature</td>
<td>3</td>
<td>SPAN 1401</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>SPAN 1401 &amp; 1402</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>SPAN 1401, 1402, &amp; 2301</td>
<td>11</td>
</tr>
<tr>
<td>US History</td>
<td>3</td>
<td>HIST 1305</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>4 or 5</td>
<td>HIST 1305 &amp; 1306</td>
<td>6</td>
</tr>
</tbody>
</table>

### International Baccalaureate Program

<table>
<thead>
<tr>
<th>IB Category</th>
<th>Exam</th>
<th>Test Score</th>
<th>Course Equivalency</th>
<th>UHD Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic B</td>
<td>SL</td>
<td>4-7+dipl</td>
<td>ARAB 1401, 1402 Elementary Arabic I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Arabic B</td>
<td>HL</td>
<td>4-7</td>
<td>ARAB 1401, 1402 Elementary Arabic I &amp; II, LANG 2301, 2302 Intermediate Language I &amp; II</td>
<td>14</td>
</tr>
<tr>
<td>Biology</td>
<td>SL</td>
<td>4+dipl</td>
<td>BIOL 1301, 1101, 1302, 1102, Gen Biology I &amp; II and labs</td>
<td>8</td>
</tr>
<tr>
<td>Biology</td>
<td>HL</td>
<td>4</td>
<td>BIOL 1301, 1101, 1302, 1102, Gen Biology I &amp; II and labs</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>SL</td>
<td>4+dipl</td>
<td>CHEM 1305, 1105, Intro to Chem &amp; 4 hours of CHEM 1XXX with core 030</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>SL</td>
<td>5</td>
<td>CHEM 1305, 1105, Intro to Chem &amp; 4 hours of CHEM 1XXX with core 030</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>HL</td>
<td>4</td>
<td>CHEM 1305, 1105, 1307, 1107, Intro to Chem &amp; Gen Chemistry I, with labs</td>
<td>8</td>
</tr>
<tr>
<td>Chemistry</td>
<td>HL</td>
<td>5</td>
<td>CHEM 1307, 1107, 1308, 1108, Gen Chemistry I &amp; II with labs</td>
<td>8</td>
</tr>
<tr>
<td>Chinese B</td>
<td>SL</td>
<td>4-7+dipl</td>
<td>CHI 1401, 1402 Elementary Chinese I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Chinese B</td>
<td>HL</td>
<td>4-7</td>
<td>CHI 1401, 1402 Elementary Chinese I &amp; II, LANG 2301, 2303 Intermediate Language I &amp; II</td>
<td>14</td>
</tr>
<tr>
<td>Computer Science</td>
<td>SL</td>
<td>4+dipl</td>
<td>CS 1410, Intro to Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>Computer Science</td>
<td>HL</td>
<td>5</td>
<td>CS 1410, Intro to Computer Science I</td>
<td>4</td>
</tr>
<tr>
<td>Computer Science</td>
<td>HL</td>
<td>4</td>
<td>CS 1410, 3304, Intro to Computer Science I &amp; Data and Info Structures</td>
<td>7</td>
</tr>
<tr>
<td>Subject</td>
<td>Level</td>
<td>Code</td>
<td>Description</td>
<td>Credits</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-------</td>
<td>------</td>
<td>-----------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Economics SL</td>
<td>4+dipl</td>
<td></td>
<td>ECO 2301, 2302 Principles of Econ I &amp; II</td>
<td>6</td>
</tr>
<tr>
<td>Economics HL</td>
<td>4</td>
<td></td>
<td>ECO 2301, 2302 Principles of Econ I &amp; II</td>
<td>6</td>
</tr>
<tr>
<td>English Language A SL</td>
<td>4+dipl</td>
<td></td>
<td>ENG 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>English Language A HL</td>
<td>4</td>
<td></td>
<td>ENG 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>English Language A HL</td>
<td>5-7</td>
<td></td>
<td>ENG 1301, 1302 Composition I and II</td>
<td>6</td>
</tr>
<tr>
<td>English Language B</td>
<td>N/A</td>
<td>N/A</td>
<td>No Equivalency</td>
<td>0</td>
</tr>
<tr>
<td>English Literature A</td>
<td>N/A</td>
<td>N/A</td>
<td>No Equivalency</td>
<td>0</td>
</tr>
<tr>
<td>Environmental Systems and Societies</td>
<td>N/A</td>
<td>N/A</td>
<td>No Equivalency</td>
<td>0</td>
</tr>
<tr>
<td>French AB</td>
<td>4-7+dipl</td>
<td></td>
<td>FREN 1401, 1402 Elementary French</td>
<td>8</td>
</tr>
<tr>
<td>French B</td>
<td>4-7</td>
<td></td>
<td>FREN 1401, 1402 Elementary French I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Further Mathematics SL</td>
<td>4+dipl</td>
<td></td>
<td>MATH 1305, 1306, Finite Math and Fundamentals of Calculus</td>
<td>6</td>
</tr>
<tr>
<td>Further Mathematics SL</td>
<td>5+dipl</td>
<td></td>
<td>MATH 1305, 1306, STAT 2300, Finite, Fund of Calculus, Intro to Statistics</td>
<td>9</td>
</tr>
<tr>
<td>Further Mathematics HL</td>
<td>4</td>
<td></td>
<td>MATH 1305, 1306, Finite Math and Fundamentals of Calculus</td>
<td>6</td>
</tr>
<tr>
<td>Further Mathematics HL</td>
<td>5</td>
<td></td>
<td>MATH 1305, 1306, STAT 2300, Finite, Fund of Calculus, Intro to Statistics</td>
<td>9</td>
</tr>
<tr>
<td>Geography SL</td>
<td>4-7+dipl</td>
<td></td>
<td>GEOG 1302 World Geography</td>
<td>3</td>
</tr>
<tr>
<td>Geography HL</td>
<td>4-7</td>
<td></td>
<td>GEOG 1302 World Geography</td>
<td>3</td>
</tr>
<tr>
<td>German B</td>
<td>4-7</td>
<td></td>
<td>LANG 1401, 1402 Elementary Language I &amp; II, LANG 2301, 2302 Intermediate Foreign Language</td>
<td>14</td>
</tr>
<tr>
<td>German B</td>
<td>4-7+dipl</td>
<td></td>
<td>LANG 1401, 1402 Elementary Language I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Hindi B</td>
<td>4-7</td>
<td></td>
<td>LANG 1401, 1402 Elementary Language I &amp; II, LANG 2301, 2302 Intermediate Foreign Language</td>
<td>14</td>
</tr>
<tr>
<td>Hindi B</td>
<td>4-7+dipl</td>
<td></td>
<td>LANG 1401, 1402 Elementary Language I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>History - European HL</td>
<td>4-7</td>
<td></td>
<td>HIST 1XXX</td>
<td>3</td>
</tr>
<tr>
<td>History - European SL</td>
<td>4-7+dipl</td>
<td></td>
<td>HIST 1XXX</td>
<td>3</td>
</tr>
<tr>
<td>History - Americas HL</td>
<td>4-7</td>
<td></td>
<td>HIST 1XXX</td>
<td>3</td>
</tr>
<tr>
<td>History - Americas SL</td>
<td>4-7+dipl</td>
<td></td>
<td>HIST 1XXX</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics SL</td>
<td>4+dipl</td>
<td></td>
<td>MATH 2401, 2402, Calculus I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics SL</td>
<td>5</td>
<td></td>
<td>MATH 2401, 2402, Calculus I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics HL</td>
<td>4</td>
<td></td>
<td>MATH 2401, 2402, Calculus I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>Mathematics Studies SL</td>
<td>4+dipl</td>
<td></td>
<td>MATH 1301, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Studies SL</td>
<td>5</td>
<td></td>
<td>MATH 1301, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Studies HL</td>
<td>4</td>
<td></td>
<td>MATH 1301, College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>Music</td>
<td>4</td>
<td></td>
<td>MUS 1XXX</td>
<td>3</td>
</tr>
<tr>
<td>Music Solo Performance SL</td>
<td>4-7+dipl</td>
<td></td>
<td>MUS 1303 Reading Music</td>
<td>3</td>
</tr>
<tr>
<td>Musical Composition SL</td>
<td>4-7+dipl</td>
<td></td>
<td>MUS 1304 Music Theory I</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy SL</td>
<td>4-7+dipl</td>
<td></td>
<td>PHIL 1301 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy HL</td>
<td>4-7</td>
<td></td>
<td>PHIL 1301 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td>4+dipl</td>
<td></td>
<td>PHYS 1307, 1107, 1308, 1108 Gen Physics and labs</td>
<td>8</td>
</tr>
<tr>
<td>Physics</td>
<td>5</td>
<td></td>
<td>PHYS 1307, 1107, 1308, 1108 Gen Physics and labs</td>
<td>8</td>
</tr>
<tr>
<td>Physics</td>
<td>4</td>
<td></td>
<td>PHYS 1307, 1107, 1308, 1108 Gen Physics and labs</td>
<td>8</td>
</tr>
<tr>
<td>Psychology SL</td>
<td>4-7+dipl</td>
<td></td>
<td>PSY 1303 Introduction to Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>
### Credit for Military Service

It is the policy of the University of Houston Downtown to award transfer credit for military courses and/or military service based on the recommendations of the American Council on Education (ACE)’s Guide to the Evaluation of Education Experiences in the Armed Services. Credit for military courses and/or credit is available to all admitted undergraduates. Either elective or direct course credit will be awarded based on ACE recommendations.

**Credit for Military Service (HB 269)**

HB 269 makes military veterans who enroll in Texas universities and who meet certain requirements eligible to receive undergraduate college credit for the time they spent in the service. Eligible veterans receive college credit for all the required physical education courses needed for their degree and up to an additional 12 semester hours of elective coursework.

To be eligible to receive credit under HB 269, veterans must have:

- Graduated from a public or private high school accredited by a generally recognized accrediting organization or from a high school operated by the United States Department of Defense.
- Completed at least two years of service in the armed forces (or discharged because of a disability)
- Been honorably discharged from the U.S. armed forces.
- Credit awarded under HB 269 is awarded for having served, not for college-level courses that might have been taken while in the military.

Acceptable forms of documentation include:

- **AARTS Transcript** (Army ACE Registry Transcript)
- **CCAF Transcript** (Community College of the Air Force Transcript)
- **SMART Transcript** (Sailor/Marine ACE Registry Transcript)
Elective credit

Directed Studies Courses

A directed studies course allows students to work directly with a faculty member on an individual basis. This type of study is intended to expand the curriculum and may not duplicate an organized course. A directed studies course requires a term paper, research study or comparable project.

The student must be in good academic standing

Students wishing to enroll in a directed studies course must be in good academic standing, must have instructor approval to enroll in the course. The academic department of the course or college may have additional prerequisites or requirements for enrollment in a directed studies course.

Procedures for enrolling in directed studies courses are available in UHD Policy Statement 03.A.17- Directed Studies. Degree requirements may limit the number of hours of directed studies that may be applied.

Auditing Courses

To audit a course is to enroll in a course on a noncredit basis. Audit students pay the regular tuition and all other applicable fees as set for the current academic year. Senior citizens 65 years or over may audit for free on a space-available basis. A change to credit status may not be made after the student has registered to audit a course. Changes from credit status to audit status in a course must be made prior to the end of the business day of the Official Day of Record. A Request for Audit form must be processed in the Registrar’s Office by the Official Day of Record for the appropriate term along with Instructor approval. Students wishing to audit courses should contact the Registrar’s Office for further details [http://www.uhd.edu/registrar/documents/audit_form.pdf].

Grading System and Standards

Academic Honesty

The Academic Honesty Code is embraced by all members of the University of Houston-Downtown academic community and is an essential element of the institution’s academic credibility. The Honesty Code states "We will be honest in all our academic activities and will not tolerate dishonesty." The purpose of the Academic Honesty Policy is to deal with alleged violations of the Honesty Code in a fair and consistent manner. The policy is administered jointly by students and faculty. It is each student's responsibility to read and understand the Academic Honesty Policy. It may be found in the Student Handbook [www.uhd.edu/student-resources/handbook].

Grading System

The following grades are included in the calculation of grade point averages:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Superior</td>
<td>4.0</td>
</tr>
<tr>
<td>B Above Average</td>
<td>3.0</td>
</tr>
<tr>
<td>C Average</td>
<td>2.0</td>
</tr>
<tr>
<td>D Below Average</td>
<td>1.0</td>
</tr>
<tr>
<td>F Failure</td>
<td>0.0</td>
</tr>
</tbody>
</table>

The following grades are not included in the calculation of grade point averages:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A*</td>
<td>Non-credit grade</td>
</tr>
<tr>
<td>B*</td>
<td>Non-credit grade</td>
</tr>
<tr>
<td>C*</td>
<td>Non-credit grade</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
</tr>
</tbody>
</table>
AU ................................................................. Audit
S ................................................................. Satisfactory (Passed)
U ................................................................. Unsatisfactory (Failed)
W ................................................................. Drop
CA ............................................................. Credit Awarded

I (Incomplete)

An incomplete grade is given only when an unforeseen emergency prevents a student from completing the course work and only with the instructor’s approval. A grade of I will be changed to a passing grade if the missing work is completed satisfactorily by the deadline set by the instructor but no later than the end of the long semester immediately following the term in which the grade was received. An incomplete grade that is not removed by this deadline becomes an F. Repetition of a course for which an incomplete grade was received does not affect resolution of the original grade. An incomplete grade earned in a student’s graduating semester is computed as an F in determining grade point average.

IP (In Progress)

The grade of IP may be given in some developmental courses. In the calculation of grade point average, a grade of IP is treated as a W. To receive credit for a course in which an IP was assigned, a student must register for the course again and earn a passing grade.

AU ('Audit)

In accordance with PS 03.A.03 – Auditing Courses, a grade of AU may be assigned only in those courses officially approved for such designation. Grades of AU are not included in calculating the GPA.

S (Satisfactory)

The grade of S may be earned in field experience courses and certain other courses. Credit received with a grade of S is not part of the grade point average calculation.

W (Withdrawal from Courses)

Students will not receive a grade for a course if they drop the course by the Official Day of Record (see Academic Calendar). Students automatically receive a grade of W for any course they drop after the Official Day of Record up to the drop/withdrawal deadline as listed in the online Academic Calendar. Official Day of Record and drop/withdrawal deadlines are published in the University Calendar online at www.uhd.edu/AcademicCalendars.

Class days are defined as days on which the university normally has one or more classes scheduled; not the days for which an individual student is scheduled for his/her particular classes. For purposes of determining academic calendar dates, class days during the Fall, Spring, May and Winter terms are Monday through Friday while class days during a summer term are Monday through Thursday.

Grade Point Average (GPA)

The grade point average is a measure of a student’s academic achievement. Grade point averages are computed by multiplying the grade point value by the number of credit hours in each course, and then dividing the sum of all grade points obtained by the total number of hours attempted. The following formula represents the method of computing grade point average:

\[
\text{Grade Point Average} = \frac{\text{Total Number of Grade Points Earned}}{\text{Total Number of Semester Hours}}
\]

The number of grade points earned for each course equals the hour credit value of the course multiplied by the points awarded for grades received. Grades of I, S, U, IP, CA, AU and grades marked with an asterisk (*) in the table above are not counted in the calculation of the grade point average. Grades of I will be calculated as F grades in determining grade point average for graduation.
In calculating the Grade Point Average (GPA) to determine honors for students who have earned all their credits at UHD, the UHD GPA, as it appears in the student record system, is used. For students who have completed some portion of their college work at other institutions, the UHD GPA is combined proportionately with the Transfer GPA earned at those other institutions to determine eligibility for honors.

Undergraduate students must meet a graduation requirement of a minimum 2.0 grade point average calculated on all grades earned at UHD. Some departments may specify more stringent requirements, such as a 2.5 grade point average in the major or a 2.5 grade point average in all upper-level courses.

Graduate students must meet a graduation requirement of a minimum 3.0 grade point average.

Appeal of Grades

If a student believes a course grade to be in error (i.e., if it appears to be a miscalculation, or if it appears that grade was not calculated and/or evaluated according to the course instructor’s stated procedure) a student may file an appeal by proceeding in the following sequence: (1) appeal first to the course instructor, (2) if the appeal is not resolved to the student’s satisfaction, then appeal to the appropriate department chair, (3) the final level of appeal would be to the appropriate dean.

If a student does not appeal a grade within one calendar year after the close of the semester in which the grade was received, the grade is final and no appeal will be heard.

The responsible party at each level has 14 academic calendar days to respond to students in writing with their decision regarding the appeal, unless granted an exception by the Dean of the college in which the original grade was awarded.

Appeals must be submitted in writing. Students bear the responsibility for providing documentation related to the grade appeal. If the appeal reaches the chair or dean and it is determined that there is evidence of a grading error, the chair or dean will consult with the course instructor before making a final decision. Final decisions must be communicated in writing to all concerned parties.

When the appealed grade is from a course that is housed in a multidisciplinary or multi-college program, all appeals will be handled within the course’s “home” department and college. A student may file an appeal by proceeding in the following sequence: (1) appeal first to the course instructor, (2) if the appeal is not resolved to the student’s satisfaction, then appeal to the chair of the department in which that course is housed (for courses in programs that do not have a department chair, the appeal is initiated with the program director), (3) the final level of appeal would be to the dean of the college in which that course is housed.

An instructor may appeal the chair’s decision to the Office of the Dean.

Dean’s List

The Dean’s List recognizes students who have achieved superior academic performance during the fall or spring semester. To be included on the Dean’s List for a specific semester, a student must, during that semester, complete at least nine semester hours of college-level work, earn at least a 3.5 grade point average, and receive no grade of I or F. The Dean’s List is published by each college at the end of each fall and spring semester.

Grades for Repeated Courses

When a UHD course is repeated at UHD, only the highest grade will be used in computing the UHD grade point average. If a course taken initially at UHD is repeated later at another institution for credit, only the UHD grade is included in the UHD grade point average. However, the course with higher grade will be used to complete degree requirements.

Academic Probation and Suspension

Probation

Academic probation is a warning to the student that his or her academic record has been unsatisfactory. A student who is not making satisfactory progress toward meeting graduation requirements may be placed on academic suspension if this record does not improve.

A student is placed on academic probation at the end of any term in which his or her cumulative UHD GPA falls below
2.0. The cumulative UHD GPA for academic probation is computed on grades earned at UHD. Grades of I, IP, S or W are not counted. See the Grading System and Standards section of the catalog for additional details on grades that count toward the UHD GPA.

All students on probation must consult with an academic advisor before registration to discuss their plans, academic progress and GPA repair, and available academic support.

Students on probation must maintain a UHD term GPA of 2.0 or above in each term in which they are enrolled until their cumulative UHD GPA reaches 2.0 or above. Students on academic probation will be placed on continued probation at the end of any term in which they fail to earn a minimum term GPA of 2.0. Failure to earn a term GPA of 2.0 or above while on continued probation status will result in academic suspension. Only courses taken at UHD will remediate the cumulative UHD GPA. A student returns to regular academic standing after his/her cumulative UHD GPA reaches 2.0 or higher.

**Suspension and Dismissal**

Suspension means that a student is ineligible to register or remain in classes. Students on continued probation status will be suspended at the end of any term in which their cumulative GPA falls below the specified minimum cumulative UHD GPA unless they earn a minimum GPA of 2.0 in that term.

Any registered coursework for the next term will be administratively dropped by the Records Office. A student’s suspension is in effect for that term, pending readmission. The student may appeal the suspension to the student’s academic dean or the dean’s designated representative. For an appeal, students must provide clear and compelling evidence of potential academic success, for example, academic success at other institutions. The final decision for readmission rests with the academic dean or dean’s designated representative.

If a student’s appeal is approved, the student will be placed on extended probation. The student must meet with a dean’s representative or designated advisor to discuss how to improve their academic performance and make satisfactory academic progress. The student may be required to agree to a contract of actions likely to result in improved academic performance. Students must maintain a term GPA of 2.0 or above in each term they register until achieve a cumulative UHD GPA of 2.0. Failure to maintain a term GPA of 2.0 will result in academic dismissal from the university. This academic dismissal will be permanent unless the student appeals to their academic dean or dean’s designated representative for readmission or readmits under Academic Amnesty.

*Academic probation and suspension will be noted on the student’s official undergraduate transcript.*

**Academic Amnesty**

A student returning to UHD after a minimum of a two-year absence may petition for application of the academic amnesty policy. To be eligible, the student must not have attended UHD for the two-year period immediately preceding his/her return to UHD. The student must also complete 24 semester credit hours with a minimum grade point average of 2.5 following readmission to UHD. If academic amnesty is granted, all courses with grades of F or D earned prior to readmission are ignored in applying credit toward fulfillment of degree requirements and in future computations of the student’s grade point average. The amnesty provision applies only to the application of credit toward a degree and computation of the student’s grade point average. No grades on the student’s permanent record are altered or deleted.

**Student Records**

**Transcripts**

Requests for official UHD transcripts are made online through the MyUHD portal via Student eServices and are processed by the Registrar’s Office. All requests for official UHD transcripts will be processed within 2-3 business days, with the exception of transcripts that include coursework completed at South Texas Junior College, which may take up to 10 business days for processing.

Effective September 1, 2013, a transcript fee of $10 will be charged for each printed official transcript. Transcripts requested to be sent electronically through Electronic Data Interchange (EDI) to other institutions of Higher Education or as a PDF through our chosen partner Scrip-Safe will not incur an additional cost.

- Electronic transcripts (EDI or PDF): no additional cost
• Printed transcripts (mail or pick-up): $10.00 per transcript (non-refundable)

Official transcripts from other institutions which are submitted to the Office of Admissions as part of the admissions process become the property of UHD and will not be rereleased to the student unless the request is covered under the Family Educational Rights and Privacy Act (FERPA). Additionally, UHD does not include completed transfer coursework on the official UHD transcript.

Unofficial transcripts, also known as the online grade history, are available through the MyUHD Portal, under the My Transcript & Grades option in Student eServices.

NOTE: Grades for Part of Term (PoT) courses ending prior to the close of the full term will be available online on the dates listed in the Academic Calendar. Part of Term (PoT) official grades will be displayed on the official transcript when grades for the full term are made available. See the Academic Calendar for grade posting dates at www.uhd.edu/academic/calendar.htm.

Bacterial Meningitis Vaccination Requirement

Effective October 1, 2013, Texas Senate Bill 1107 has been amended by Senate Bill 62 and requires all students (under age 22) entering an institution of higher education (public and private) and enrolling into courses which meet face-to-face on campus to either receive a vaccination against bacterial meningitis or meet certain criteria for declining such a vaccination before classes start. For additional time-sensitive information about this requirement, please visit: uhd.edu/meningitis.

Release of Student Records

UHD has a policy in conformity with the Family Educational Rights and Privacy Act (FERPA) covering the release of student records. Student rights include the following:

• Students have the right to inspect and review their education records within 45 days of the day the university receives the request.
• Students have the right to request amendment of their education records that they believe are inaccurate or misleading.
• Students have the right to consent to the disclosure of personally identifiable information in their education records, except to the extent that FERPA authorizes disclosure without consent.
• Students have the right to file a complaint with the US Department of Education concerning alleged failures by the university to comply with the requirements of FERPA.

Directory Information

At its discretion the University of Houston-Downtown may provide directory information to the general public without student consent. Directory information is defined by University of Houston-Downtown (within the guidelines of the Family Educational Rights and Privacy Act of 1974) as follows:

• Student’s name
• Mailing Address Primary Telephone number
• University Assigned e-mail address
• Classification
• Enrollment Status
• Major and minor fields of study
• Degrees, certificates, awards and honors received
• Dates of attendance
• Graduation Date
• Expected graduation date
• The most recent previous educational agency or institution attended by the student
• Participation in officially recognized activities and sports
• Weight and height of members of athletic teams

Students may request that directory information be withheld from the public by contacting the Registrar's Office at any time during the semester. Such requests must be made in writing and will remain in place until the student directs the office in writing that it is to be removed. The Confidentiality Request Form is available online, visit the Registrar’s Office website for more information.
Disclosure of Education Records

In accordance with FERPA and at its discretion, UHD will disclose information from a student’s education records without the written consent of the student to school officials who have a legitimate educational or administrative interest in the records. A school official is defined as a person employed by the University who holds an administrative, supervisory, academic, or support staff position (including the University’s police department and health care staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Regents; or a person assisting another school official in performing his or her official duties. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibilities.

Custodian of Records

The following individuals are designated by the University as custodians of records: Registrar’s Office, Room N330; Director of Scholarships and Financial Aid, Room S330; Director of the Career Development Center, Room S402; Director of Counseling and Health Services, Room S445; Dean of Students, Room S380; Dean of each College.

Procedure for Inspecting Education Records

A student has the right to inspect his or her education records and challenge the contents. To review records, a student must make a request in writing to the Registrar’s Office. The request must clearly and specifically identify the record or records he or she wishes to inspect plus the purpose of the request. The request must be signed and dated by the student. The University will respond to the student’s request within a reasonable time. A request to inspect (review) education records is not considered the same as a request for copies of the records.

Procedure for Amending Education Records

If a student believes the information in his or her education record contains information that is inaccurate, misleading, or in violation of the student’s rights of privacy, the student should submit a written and signed request for amendment to the Registrar’s Office. The written request should clearly identify the part of the record the student wants changed and specify why it is inaccurate, misleading, or in violation of the student’s rights of privacy. The University will notify the student within a reasonable time regarding whether or not the record will be amended. If the university denies the student’s request for amendment of his or her record, the student has the right to a hearing regarding the requested amendment. This procedure does not govern grade appeals.

Change of Name and Address

An official change in name must be reported to the Registrar’s Office and when applicable to the Office of Scholarships and Financial Aid. Original legal documentation must be presented along with a copy of the Social Security card when requesting a name change or correction (e.g., marriage certificate, divorce decree, naturalization certificate, etc.). A copy of your state issued driver’s license or government issued photo ID will also be required. Mailing addresses may be changed online through the MyUHD Portal’s Student eServices at www.uhd.edu/eservices under “My Personal Profile & Emergency Alerts.” Currently enrolled students requesting a name change should refer to the Student Information Change form for important information regarding updates to GatorMail and Blackboard.

Graduation Requirements

General Degree Requirements for Graduation

A bachelor’s degree contains a minimum of 120 semester credit hours. For degree completion, at least 25% of the semester credit hours must be earned through instruction offered by UHD.

In addition to completion of specific degree requirements, all students must meet the requirements described below. At least 30 semester credit hours of course work toward the degree must be taken at the University of Houston-Downtown; 18 hours must be at the upper level and be approved by the student’s major department. Only the appropriate academic dean may waive any portion of these requirements and only upon petition by a student who has extraordinary reasons.

The University of Houston Downtown limits academic residency to no more than twenty-five percent of the degree requirements for all degrees for active-duty service members. Academic residency can be completed at any time while active-duty service members...
are enrolled. Reservist and National Guardsmen on active-duty are covered in the same manner.

A minimum grade point average of 2.0 calculated on all grades earned at UHD is required for graduation. In addition, a grade point average of 2.0 is required for all courses taken at UHD that apply toward the degree.

Students enrolled in any degree program at UHD who wish to take courses at another college or university, including any other university in the UH System, and apply the credits earned toward his degree, must have prior approval of the appropriate officer of the student's degree program. Courses taken without such approval may not be counted toward the fulfillment of degree requirements. A student taking courses under these provisions is responsible for having his official transcript from the second institution, including any other university in the UH System forwarded to the registrar's office at UHD and for requesting that an official evaluation of this transcript be made and reported to the appropriate officer of the student's degree program.

Double Majors and Dual Degrees

A student can earn two different degrees by simultaneously completing the requirements for two academic programs of study that award different Bachelor's Degrees, such as a Bachelor of Arts (BA), a Bachelor of Science (BS), a Bachelor of Business Administration (BBA) or a Bachelor of Science in Engineering Technology (BSET). With each degree, students will also select a major and, thus, will graduate with two majors as well as two degrees. However, the fact that each major is awarded with a different degree establishes students on this path as students seeking a "dual degree."

A UHD GPA of 2.5 is required to declare a dual degree or double major, and the declaration must be made before students submit any applications for graduation. Students may not pursue more than two degrees or majors simultaneously.

A student can earn a double major by simultaneously completing two academic programs, both of which award the same degree. Examples of majors include English, History, Chemistry, Criminal Justice, and Computer Science. The majors may or may not be housed in different colleges. Double majors awarded under the same degree (e.g. Bachelor of Science or Bachelor of Arts) establishes students as seeking a “double major,” except for major pairings offered in the College of Business, which qualify as dual degree programs.

A bachelor's degree contains a minimum of 120 semester credit hours. Students in a dual degree program must complete all courses required for each degree. Each degree must consist of at least 30 unique hours taken in residency at the University of Houston-Downtown, with a minimum of 18 of the unique hours in each program being upper-level and applicable to the upper-level requirements of the degree. Students seeking a double major must complete at least 18 upper-level hours in residency at the University of Houston-Downtown for each major. These 18 hours must be unique to each major and must be applicable to the upper-level requirements of each major.

Students should be aware that the state has imposed a limit of 120 hours for all degrees. Students who attempt more than 30 hours above this enrollment cap may be charged out-of-state tuition for the excess hours.

If students declare both degrees or majors at the same time, they must indicate which will be the primary degree or major and which will be the secondary degree or major. The college housing the primary degree or major is the academic home of record.

If the second degree or major is declared after the student has already been accepted into one program, the first degree or major is considered primary. Students wishing to have the second declaration considered the primary degree or major must seek permission from the dean of the college housing the new primary degree or major.

Students deciding not to continue pursuing a dual degree or double major may opt out of one degree or major by notifying in writing the dean of the college housing that degree or major before graduation is certified.

Students who will not be able to meet all of the requirements of one of the degrees or majors by the time of certification will be notified by the dean’s representative in their home college. At that point, such students have three options and must state the preferred option in writing to that representative:

• to get certified in only the completed degree or major
• to change the uncompleted degree program or major into a minor, if a minor in that area exists
• to delay any certification until both degrees or majors are completed

Honors of summa cum laude, magna cum laude, and cum laude will be calculated by an official in the college of the primary degree for dual degrees and the primary major for double majors. The college of the primary degree is responsible for forwarding the needed documentation to determine honors in the secondary degree to the college responsible for the secondary degree plan. College Honors will be determined by an official in the college of the primary degree for dual degrees or the primary major for double majors. The college of the primary degree is responsible for forwarding the needed documentation to determine honors in the secondary degree to the college responsible for the secondary degree plan.

Students who successfully complete a dual degree will receive two diplomas, and both degrees and any majors within those degrees will be noted on their transcripts. The transcripts of students who successfully complete a double major will indicate both majors.

Additional Bachelor’s Degree

To qualify for a second UHD bachelor’s degree after having been already certified in one bachelor’s degree, a candidate must
• meet the general and specific requirements for each degree.
• take at least 30 unique hours, including 18 hours needed for the major, in residency for each degree at the University of Houston-Downtown, with a minimum of 18 of the unique hours in each program being upper-level and applicable to the upper-level requirements of the degree.

Graduation under a Specific Catalog

A student usually graduates under the degree provisions of the catalog in effect at the time of his or her first completed term of enrollment or any subsequent catalog.

Exceptions:
• No catalog more than ten years old may be used.
• The program of students whose enrollment is interrupted for more than two consecutive long semesters for reasons other than military service shall normally be governed by the catalog in effect at the time of the students' reenrollment in the university. Students have the option of graduating under the provisions of this catalog or any subsequent catalog.
• A student whose enrollment is interrupted by military service must reenroll within one year from date of separation from the service and no more than five years from the beginning of military service in order to remain under the provisions of the catalog in effect at the time of original enrollment at the university.
• Students forced to withdraw for adequate cause before the completion of the degree may, upon readmission, petition the appropriate academic dean to graduate under the catalog in effect at the time of original enrollment.
• The program of students who change their major shall be governed by the catalog in effect at the time of the change of major.

Application for Graduation

All degree candidates must file an application for graduation with their college and pay the $50 graduation fee by the Official Day of Record for the term of intended graduation. The graduation fee covers the costs of processing the graduation application, printing the diploma and mailing it to the graduate, and other costs associated with the commencement ceremony. If students fail to complete all degree requirements during the term in which they applied for graduation and paid the graduation fee, then they must apply for graduation and pay the graduation fee again when they become eligible to graduate.

Candidates must also place a diploma order, which specifies how they want their name to appear on the diploma, with the Registrar’s Office.

Commencement Exercises

To participate in commencement exercises, students must be enrolled in the courses needed to complete all degree requirements and must file an application for graduation with their college, and pay the graduation fee by the second Monday after the last day to drop a course without a grade (the Official Day of Record) for the term of intended graduation. The final decision on eligibility for
graduation and participation in commencement exercises rests with the appropriate academic dean.

Commencement participants with honors are so designated in the commencement program and wear special insignia with their academic regalia. As commencement occurs prior to the posting of final grades, the designation of honors for May and December commencement participants reflects only grades earned prior to the final semester. Designation of final honors on the transcript and diploma, however, is based on all work attempted.

Arrangements for obtaining academic regalia may be made through the university bookstore. Deadlines for ordering and paying for regalia are announced for each commencement.

Graduation with Honors

**Current Policy effective until Graduation Candidates for Summer 2017**

Students who complete bachelor’s degree requirements with exceptionally high grade point averages receive degrees with honors.

- a cumulative grade point average of 3.75-4.00 graduate summa cum laude,
- a cumulative grade point average of 3.50-3.74 is required for magna cum laude.
- a grade point average of 3.25-3.49 is needed to graduate cum laude.

In the computation of this average, both the cumulative UHD grade point average and the grade point average over all college level work will be computed; the lower of the two averages will be used as the basis for determining honors.

Students not eligible for cum laude, magna cum laude or summa cum laude honors may be eligible for College Honors. Students who have earned a GPA of 3.50 or greater in their last 60 hours attempted at UHD, including at least 30 upper-level hours, are eligible to receive the designation, “College Honors.”

**Effective for Graduation Candidates in Fall 2017 and beyond**

Students who complete bachelor’s degree requirements with exceptionally high grade point averages receive degrees with honors. University honors will appear on the student transcript and diploma. To qualify for University honors consideration students must have earned 42 credit hours or more at UHD of which 24 credit hours must be upper level course work. In accordance with the Grading System Standards, all UHD credit hours are used in the GPA calculation. Only credit hours at UHD are considered; transfer credits are not used in the GPA calculation for university honors.

For consideration of university honors, the university will look at two different UHD GPA calculations:
- the UHD GPA calculated from the student’s last 42 credit hours taken at UHD and
- the UHD GPA calculated from all courses taken at UHD.

The higher of the two UHD GPAs will be considered for university honors categories below:

- a cumulative grade point average of 3.80-4.00 is required for summa cum laude.
- a cumulative grade point average of 3.60-3.79 is required for magna cum laude.
- a grade point average of 3.40-3.59 is required for cum laude.

Designation of university honors in the commencement program for graduates will reflect only grades earned prior to the final semester. University honors also will be calculated after final semester grades post and final honor status is reflected on the transcript.

Students not eligible for cum laude, magna cum laude or summa cum laude honors may be eligible for College Honors. Each college will set its own GPA requirements for College Honors. College honors will be calculated after final semester grades post. College honors will be reflected only on the student’s final transcript.
General Education

The granting of a college degree signifies having reached a level of intellectual development that merits formal recognition. Intellectual development can be measured both in terms of depth and breadth of knowledge, and a college degree should signify growth in both dimensions. In most college programs, students demonstrate depth of knowledge by completing courses required in the major field of study.

Breadth of knowledge is demonstrated by satisfying a group of general education requirements that are shared by students in all majors. Whereas the aim of the major field of study is to provide experiences defining membership in a disciplinary community, the aim of the general education program is to provide experiences that define what it means to be a college-educated person. The centerpiece of the general education program is called the “core curriculum” because these courses comprise the core of the college experience. The core curriculum specifically addresses the following outcomes:

- Think creatively and to innovate
- Conduct inquiry and analyze, evaluate, and synthesize information
- Effectively develop, express and interpret ideas through written communication
- Effectively develop, express and interpret ideas through oral communication
- Effectively develop, express and interpret ideas through visual communication
- Manipulate and analyze data or observable facts, resulting in an informed conclusion
- Consider different points of view
- Work effectively with others to support a shared purpose or goal
- Demonstrate intercultural competence
- Articulate knowledge of civic responsibility
- Engage effectively in regional, national, and global communities
- Connect choices, actions and consequences to ethical decision-making

In order to achieve these goals, the general education component of all degrees earned at UH-Downtown consists of courses satisfying these common core requirements.

Common Core Requirements

Students in all UH-Downtown undergraduate degree programs must complete a common core of courses consisting of 42 semester credit hours. The following table lists the Foundational Component Areas of the core, the number of semester credit hours (SCHs) required in each area, and the UH-Downtown courses that may be used to fulfill these requirements. Departments often suggest certain courses that they prefer their majors to take to fulfill some of the core requirements, so students should carefully study the degree plans that interest them. Degree plans may be found in the sections of this catalog describing the departments’ programs and in degree program brochures available in departmental offices.

A student transferring to UHD who has completed the common core requirements at another Texas institution of higher education will receive credit for each of the core courses transferred and will be considered to have fully satisfied all of UHD’s common core requirements.

A student transferring to UHD who has completed some, but not all, of the common core requirements at another Texas institution of higher education will receive credit for each of the core courses transferred and will be considered to have fully satisfied the corresponding common core requirements at UHD. The student must still satisfy any remaining UHD common core requirements.

Students concurrently enrolled at more than one institution of higher education should follow the core curriculum requirements in effect for the institution where they are classified as degree-seeking students.

<table>
<thead>
<tr>
<th>FOUNDATIONAL COMPONENT AREAS</th>
<th>SCHs</th>
<th>UHD COURSE OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>6</td>
<td>ENG 1301, 1302</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
<td>MATH 1301, MATH 1310, STAT 1312 or any course for which one of these courses is a prerequisite</td>
</tr>
<tr>
<td>Life and Physical Sciences</td>
<td>6</td>
<td>BIOL 1301, 1302, 1303, 1304, 1310, 1312; CHEM 1305, 1307, 1308; GEOL 1304, 1305, 1306, 1307, 1308, 1345; MBIO 1305, 1310; NS 1300; PHYS 1301, 1302, 1307, 1308, 2401, 2402</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>---</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Language, Philosophy and Culture</td>
<td>3</td>
<td>ENG 2301, 2302, 2305, 2309, 2311, 2312, 2313, 2314; HUM 2301, 2302; PHIL 1301, 2305, 2310; SPAN 2301, 2302</td>
</tr>
<tr>
<td>Creative Arts</td>
<td>3</td>
<td>ART 1301, 1302, 1308, 1310; DANC 1301; DRA 1301, 1303; ENG 1316; MUS 2301, 2302</td>
</tr>
<tr>
<td>American History</td>
<td>6</td>
<td>HIST 1305, 1306, 1312, 1314</td>
</tr>
<tr>
<td>Government/Political Science</td>
<td>6</td>
<td>POLS 2305, 2306</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
<td>ANTH 2302, CJ 1301, ECO 1305, FIN 1330, PSY 1303, SOC 1303; SOCW 2361, 2363</td>
</tr>
<tr>
<td>Component Area Option</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral Communication</td>
<td>3</td>
<td>COMM 1301, 1302, 1304, 1306, 1309, 2307, 2309, 2311; ENG 1306</td>
</tr>
<tr>
<td>New Student Seminar*</td>
<td>3</td>
<td>UHD 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308</td>
</tr>
<tr>
<td>Total Hours</td>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>

*In the first semester of attendance at UHD, if a student has not completed the 6 hours of the Component Area option requirement at a Texas college or university, the student will take either a course numbered UHD 1301-1308 or a course numbered UHD 2301-2308.

UHD 1301-1308 is intended for students who have:
- earned fewer than 30 SCHs of college work or
- not passed ENG 1301, regardless of the number of SCHs earned.

UHD 2301-2308 is intended for students who have:
- earned at least 30 SCHs of college work and
- passed ENG 1301.

**Time Frame for Completing Common Core Requirements**

The common core of the general education program is designed to provide students with the academic skills and knowledge that constitute the foundation of a baccalaureate education. The specialized course work taken in the major field of study builds upon this foundation, so it is necessary for students to complete core requirements early in their course of study.

Writing and computational skills are especially critical for future academic success. Therefore, In the first semester in which they are eligible to do so, students should enroll in a course that will satisfy the Communication requirement (ENG 1301 or ENG 1302), and a course that will satisfy the Mathematics requirement (MATH 1301, 1310 or STAT 1312), and students should continue to enroll in these courses until they have completed the core’s Communication and Mathematics requirements.

Students are encouraged to complete all other common core requirements before enrolling in any upper-division (3000-level and 4000-level) courses.
University College

B. Christiana Birchak, PhD, Dean
William Waller, PhD, Associate Dean
Charlie Finch, PhD, Assistant Dean
S655, 713-221-8007

University College (UC) supports learning across multiple disciplines and from a variety of perspectives, thus fostering the versatility and creativity essential to success in the 21st Century. It offers two degrees that prepare graduates to adapt to the ever-changing world economy. The baccalaureate degrees in Applied Administration and Interdisciplinary Studies both allow students to refine skills, broaden knowledge, and prepare for personal growth, professional advancement, and graduate school. Additionally, the College provides innovative programming for undergraduate students during their freshman and sophomore years, including coordinating the First Year Experience and the newly created Second Year Experience. Among these academic enhancements are Supplemental Instruction, the Freshman Summer Success Program, Advancement via Individual Determination (AVID), and the Student Transition and Retention (STAR) Program. Interdisciplinary honors programs and faculty development activities to encourage transformative teaching and learning serve the university-wide community.

Programs of Study

Bachelor of Applied Arts and Sciences with major in:
  Applied Administration

Bachelor of Science with major in:
  Interdisciplinary Studies

Center for Teaching and Learning Excellence

Gregory A. Dement, PhD, Director
A724, 713-221-8280

The Center for Teaching and Learning Excellence (CTLE) at the University of Houston-Downtown is led by a full-time Director in consultation with an Advisory Board broadly representative of the UHD community. It was established in 2013 to serve as a hub of innovation, collaboration, and scholarship for the purpose of enhancing UHD learning environments and supporting ongoing student success initiatives. These initiatives include improving the first-year experience for students, enhancing the quality of online and hybrid courses, and expanding the use of AAC&U high-impact practices. The center provides all full-time and part-time instructors at UHD with access to a variety of services and resources that address differences in teaching styles and disciplinary pedagogy. These offerings include, but are not limited to, individual consultation, classroom observation, support for the scholarship of teaching and learning, instructional training grants, stipends for participation in faculty teaching circles, professional development workshops, and web-based/print resources. The center is focused on promoting continuous improvement and supporting evidence-based and innovative instructional strategies in order to enhance the vibrant teaching culture at UHD.

University Honors Program

Mari Nicholson-Preuss, PhD, Director
S405, 713-221-8236

The University Honors Program offers high-achieving intellectually curious students an enriched educational experience. The stimulating curriculum supplemented by a variety of engaging cultural and social activities provides ample opportunities for Honors students to develop as scholars, leaders, and global citizens. An Honors Council composed of elected faculty representatives reviews proposals for the Honors designation for existing courses. Honors courses are typically small learner-centered courses that delve deeply into the content with inquiry driven lessons taught by exceptional instructors utilizing innovative classroom strategies. Honors students work closely with faculty in a number of academic settings ranging from graduate style seminars to independent
research. The Honors Program supports student success through personalized advising as well as peer and faculty mentoring. Admission to the Honors Program is competitive, and scholarships are available.

**Bachelor of Applied Arts and Sciences with a major in Applied Administration (120 hours)**

Karen C. Kaser, PhD, Program Director  
S601, 713-223-7992

**Faculty**  
Buell  
Kaser  
Nuwal

**Mission Statement**

The Bachelor of Applied Arts and Sciences with a major in Applied Administration (BAAS-AA) degree program is designed to offer students that have completed the Associate of Applied Science (AAS) degree the opportunity to develop competencies, skills, and the foundation preparation for promotion to administrative and supervisory positions in organizations.

Through the completion of the BAAS in Applied Administration, the student is provided the opportunity to acquire knowledge in the areas of program planning and evaluation, supervision and leadership, human resources, budgeting, interpersonal communication skills, change management, information systems, and the development of technology for use in organizational processes. This degree will provide the skills and knowledge for upward mobility into supervisory and administrative positions.

**Program Learning Outcomes**

Graduates who earn a BAAS in Applied Administration will be able to:

- Demonstrate a knowledge of the fundamental disciplines of administration to:
  - a) Manage human resources effectively.
  - b) Develop strategies to guide and implement change.
  - c) Create, analyze and administer a budget.
  - d) Manage project scheduling to ensure on-time deliveries of products or services and conduct a post-project evaluation of the schedule.
  - e) Based upon an analysis of the situation, select appropriate negotiation and mediation strategies to resolve conflict.
  - f) Apply fundamental theories of leadership to develop processes and solve problems.

- Communicate effectively in writing.
- Communicate orally including:
  - a) Make a professional presentation; and
  - b) Apply interpersonal, group, and organizational communication skills within the administrative operations setting.
- Use technology to support administrative functions.
- Identify and critically analyze legal and ethical responsibilities in administration management.
- Analyze problems and identify an appropriate course of action to resolve the problem.

**Academic Requirements**

Consistent with the University of Houston-Downtown’s commitment to quality undergraduate education, the BAAS in Applied Administration degree program adopts this policy regarding admissions, the declaration of majors, course enrollment and requirements for graduation for the BAAS in Applied Administration degree program.

**Admission and Declaration of Major**

Students continuing at UHD who meet the following criteria may be admitted into the BAAS in Applied Administration degree program as a declared major:

- UHD GPA of 2.25 or higher
- Completion of an Associate of Applied Science (AAS) degree from an institution accredited by a Texas Higher Education Coordinating Board recognized accrediting agency
Students transferring to UHD who meet the following criteria may be admitted into the BAAS in Applied Administration degree program as a declared major:

- Transfer GPA of 2.25 or higher
- Completion of an Associate of Applied Science (AAS) degree from an institution accredited by a Texas Higher Education Coordinating Board recognized accrediting agency

Students who do not meet the criteria above do not qualify for admission into the BAAS in Applied Administration degree program and will be classified as Pre-Applied Administration majors. However, students not on track to complete and transfer an AAS degree to UHD are strongly encouraged to meet with an advisor to select another degree program.

**Satisfaction of Prerequisites**

Prerequisites are NOT optional. Prerequisites ARE requirements or courses that must be completed PRIOR to taking a course. The prerequisites for a course are described in the catalog course descriptions. It is the student's responsibility to insure that he/she meets the prerequisites prior to enrollment in a course. If the student enrolls and does not meet the prerequisites, he/she may be administratively withdrawn from the course at any time. Any variance in prerequisite requirements or this policy must be obtained in writing from the program director prior to enrollment in the course.

**Dismissal from the BAAS in Applied Administration Degree Program**

Students admitted to the degree program who seek to change their major must submit that request in writing to be released from the degree program.

Students admitted to the degree program whose UHD GPA falls below 2.0 for three consecutive semesters will be placed on academic suspension in accordance with the current UHD Catalog. Students placed on academic suspension may be dismissed from the program.

If a student subsequently seeks readmission to the degree program, s/he must reapply and meet the admission and declaration standards in effect at the time of the reapplication.

**Course Approvals and Advising**

Students admitted to the BAAS in Applied Administration degree program will be advised by University College Advising Center advisors only. Students will be granted self-advising privileges as long as they have completed the 42 hour Common Core, they maintain a GPA of 2.25 or above, and they follow all prerequisites.

Students in the BAAS in Applied Administration degree program may not enroll in courses in the College of Business BBA degree programs. Likewise, students in College of Business BBA degree programs may not enroll in BAAS in Applied Administration courses.

**Graduation Requirements**

In addition to meeting the general requirements established by the University of Houston-Downtown for eligibility to graduate, students receiving a BAAS in Applied Administration degree must have an overall GPA of 2.0 or better for all courses taken in the BAAS in Applied Administration degree program. For degree completion, at least 30 semester credit hours must be earned through instruction offered by UHD. Additionally, 18 of 30 hours must be in upper-division course work as approved by BAAS in Applied Administration degree program. Any course substitutions or waivers must be approved by the Program Director.

**Courses of Instruction**

Individual courses of instruction are subject to change or cancellation at any time and may not be offered each semester or every year. Students should be especially mindful that summer offerings are limited and vary from year to year. Therefore, careful planning is required if progress toward the degree is expected during the summer months.

**Field Experience**

Field experience integrates theory learned in the classroom with practical work experience related to the student's academic and professional goals. The work experience and the academic experience must be directly related. Positions may or may not be paid and may last the duration of the fall or spring semester or the entire summer. Field Experience generally is not approved for students already employed in their area of study.
Eligibility for Field Experience enrollment includes at least 60 semester hours completed in the degree program, completion of additional preparatory courses, and a minimum cumulative grade point average of 2.5 or prior approval of the program director. Submission of applications and other preliminary procedures should be completed during the semester prior to the one in which the student wishes to enroll in field experience.

The BAAS in Applied Administration program allows up to two courses (6 semester credit hours) in Field Experience to be applied toward graduation requirements. These courses are graded on a pass/fail basis and do not apply toward calculation of the grade point average.

**Degree Requirements for the BAAS-AA**

This major integrates the Associate of Applied Sciences (AAS) with the requirements of the BAAS in Applied Administration enabling the student to earn a four-year degree with minimal loss of AAS credit hours.

**Common Core Requirements (42 hours)**

All students seeking a BAAS in Applied Administration degree from the University of Houston-Downtown must complete the common core requirements as listed in this catalog.

**AAS/AAT Degree Workforce Courses (36 hours)**

**Applied Administration Major Requirements (30 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA 3301</td>
<td>Professional Ethics</td>
</tr>
<tr>
<td>AA 3302</td>
<td>Administrative Communication</td>
</tr>
<tr>
<td>or ENG 3302</td>
<td>Business &amp; Technical Report Writing</td>
</tr>
<tr>
<td>AA 3303</td>
<td>Information Technology Administration</td>
</tr>
<tr>
<td>AA 3304</td>
<td>Budgeting for Administrators</td>
</tr>
<tr>
<td>AA 3305</td>
<td>Human Resources Administration</td>
</tr>
<tr>
<td>AA 3306</td>
<td>Decision Making Skills for Administrators</td>
</tr>
<tr>
<td>AA 3307</td>
<td>Administrative Leadership</td>
</tr>
<tr>
<td>AA 3308</td>
<td>Negotiation and Mediation Skills</td>
</tr>
<tr>
<td>AA 3310</td>
<td>Administering Organizational Change</td>
</tr>
<tr>
<td>AA 4305</td>
<td>Project Administration</td>
</tr>
</tbody>
</table>

**Prescribed Electives (9 hours)**

Select three courses from the following:

- AA 4301 Administering Budgets and Cost Centers
- AA 4303 Economics for Administrators
- AA 4306 Administration of Technological Resources
- AA 4307 Network Security Administration
- AA 4308 Global Economic Environment
- AA 4380 Field Experience in Applied Administration
- AA 4390 Special Topics in Applied Administration
- AA 4399 Directed Study in Applied Administration
- PSY 3301 Industrial/Organizational Psychology
- POLS 4319 Non-Profit Organizations in American Society

**Free Upper Division Electives (3 hours)**

No UHD College of Business Courses

**Engineering Technology Concentrations**

Students majoring in Applied Administration who have completed an AAS/AAT degree in engineering technology or related fields have the option to choose one of four concentrations in Engineering Technology, each of which includes 18 hours in upper level engineering technology and related courses. Each Engineering Technology concentration has specific admission requirements in addition to the requirements for the Applied Administration major.

**Common Core Requirements**

The 3-ht math requirement must be filled by MATH 1301.

**Applied Administration Major Requirements for All Engineering Technology Concentrations (24 hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA 3301</td>
<td>Professional Ethics</td>
</tr>
<tr>
<td>AA 3304</td>
<td>Budgeting for Administrators</td>
</tr>
</tbody>
</table>
Fire Protection Engineering Technology Concentration
This concentration is a completion degree for those students articulating from community college Fire Protection Engineering Technology or related AAS/AAT degrees. The degree contains technical core and electives in fire protection designed to complement the technical content of the curriculum received by students graduating with their AAS/AAT degrees.

Technical Core in Fire Protection Engineering Technology (12 hours)
ENGR 3320  Principles of Fire Protection Chemistry and Physics
ENGR 4370  Human Factors in Fire and Safety
ENGR 4323  Technology Seminar
ENGR 4328  Capstone Project

Technical Electives in Fire Protection Engineering Technology Concentration (6 hours)
Select two courses from the following:
  - ENGR 3346  Offshore safety and Fire Inspection
  - ENGR 3365  Fire Protection for Power Plants
  - ENGR 3370  Fire Protection Law
  - ENGR 4350  Industrial Loss Prevention

Manufacturing and Process Engineering Technology Concentration
This concentration is a completion degree for those students articulating from community college Manufacturing and Process Engineering Technology or related AAS/AAT degrees. The degree contains technical core and electives in manufacturing and process engineering technology designed to complement the technical content of the curriculum received by students graduating with their AAS/AAT degrees.

Technical Core in Manufacturing and Process Engineering Technology (12 hours)
ENGR 3410  Process Modeling and Simulation
ENGR 4402  Process Operations and Design
ENGR 4323  Technology Seminar
ENGR 4328  Capstone Project

Technical Electives in Manufacturing and Process Engineering Technology (6 hours)
Select two courses from the following:
  - ENGR 3302  Engineering Economics,
  - ENGR 3307  Applied Thermodynamics and Heat Transfer,
  - ENGR 4330  Systems Safety Management

Petroleum Engineering Technology Concentration
This concentration is a completion degree for those students articulating from community college Petroleum Engineering Technology or related AAS/AAT degrees. The degree contains technical core and electives in petroleum engineering technology designed to complement the technical content of the curriculum received by students graduating with their AAS/AAT degrees.

Technical Core in Petroleum Engineering Technology (12 hours)
ENGR 3410  Process Modeling and Simulation
GEOL 3303  Environment Geology
ENGR 4323  Technology Seminar
ENGR 4328  Capstone Project

Technical Electives in Petroleum Engineering Technology (6 hours)
Select two courses from the following:
ENGR 3302 Engineering Economics,
ENGR 3307 Applied Thermodynamics and Heat Transfer,
ENGR 3346 Offshore Safety and Fire Inspection,
ENGR 4330 Systems Safety Management,
ENGR 4402 Process Operations and Design

Safety Management Concentration
This concentration is a completion degree for those students articulating from community college Safety Management or related AAS/AAT degrees. The degree contains technical core and electives in safety management designed to complement the technical content of the curriculum received by students graduating with their AAS/AAT degrees.

Technical Core in Safety Management (12 hours)
ENGR 3380 Occupational Safety
ENGR 4330 Systems and Safety Management
ENGR 4323 Technology Seminar
ENGR 4328 Capstone Project

Technical Electives in Safety Management (6 hours)
Select two courses from the following:
ENGR 3346 Offshore Safety and Fire Protection,
ENGR 3350 Construction Safety,
ENGR 4350 Industrial Loss Prevention,
ENGR 4355 Industrial Safety,
ENGR 4370 Human Factors in Fire Safety,
ENGR 4381 Violence and Safety

Bachelor of Science with a major in Interdisciplinary Studies

Melissa Hovsepian, PhD, Program Director
S601, 713-221-8926

Faculty
Hovsepian

Mission Statement
The Bachelor of Science with a major in Interdisciplinary Studies (BS-IS) degree program permits students to select those courses that most interest them and to present 36 upper-level semester credit hours of those courses as their major. The degree shares the basic core curriculum with other degrees and includes a distribution of courses to ensure a good academic foundation. Since the degree is interdisciplinary, it is often a suitable degree completion alternative for transfer students and for students who wish to pursue a multidisciplinary degree that meets their academic and professional interests. Although a minor is not required, students are strongly encouraged to complete one or more, using the required area of concentration as a basis.

Graduates are qualified to undertake a variety of employment or community service opportunities and challenges. By careful selection of courses with the help of a college advisor, students who complete the degree can prepare themselves for advancement in their current position, new directions in their career path, and a variety of post-baccalaureate programs. Students should consider taking advantage of the option to complete up to 6 upper-level credit hours of field experience or internship.

Program Learning Outcomes
Graduates who earn a BS in Interdisciplinary Studies will:

- Be able to produce clear, mature, well-organized college-level writing which uses proper grammar and sentence structure.
- Be able to:
  a) research topics in one or more arts/science disciplines;
  b) articulate a well-stated purpose or argument;
c) use research to advance the thesis of the paper; and

d) cite sources correctly in original papers.

- Be able to apply disciplinary and interdisciplinary knowledge to work-based task or project.
- Be able to use software to produce documents which are professional in appearance.

**Academic Requirements**

Consistent with the University of Houston-Downtown’s commitment to quality undergraduate education, the BS in Interdisciplinary Studies degree program adopts this policy regarding admissions, the declaration of majors, course enrollment, and degree requirements.

**Admission and Declaration of Major**

Students continuing at UHD who meet the following criteria may be admitted into the BS in Interdisciplinary Studies degree program as a declared major:

- UHD GPA of 2.00 or higher

Students transferring to UHD who meet the following criteria may be admitted into the BS in Interdisciplinary Studies degree program as a declared major:

- Transfer GPA of 2.00 or higher

Students who meet Freshman Admissions criteria may be admitted into the BS in Interdisciplinary Studies degree program as a declared major upon admission to UHD.

Students who do not meet the criteria above do not qualify for admission into the BS in Interdisciplinary Studies degree program and will be classified as Pre-Interdisciplinary Studies majors.

**Dismissal from the BS in Interdisciplinary Studies Degree Program**

Students admitted to the degree program who seek to change their major must submit that request in writing to be released from the degree program.

Students admitted to the degree program whose UHD GPA falls below 2.0 for three consecutive semesters will be placed on academic suspension in accordance with the current UHD Catalog. Students placed on academic suspension may be dismissed from the program.

If a student subsequently seeks readmission to the degree program, s/he must reapply and meet the admission and declaration standards in effect at the time of the reapplication.

**Satisfaction of Prerequisites**

Prerequisites are NOT optional. Prerequisites ARE requirements or courses that must be completed PRIOR to taking a course. The prerequisites for a course are described in the catalog course descriptions. It is the student’s responsibility to insure that s/he meets the prerequisites prior to enrollment in a course. If the student enrolls and does not meet the prerequisites, s/he may be administratively withdrawn from the course at any time. Any variance in prerequisite requirements or this policy must be obtained in writing from the program director prior to enrollment in the course.

**Course Approvals and Advising**

Students admitted to the degree program will be advised by University College advisors and will be granted self-advising privileges as long as they maintain a GPA of 2.0 or above and they follow all prerequisites.

**Degree Requirements for the BS in Interdisciplinary Studies**

The degree requires the completion of 120 semester credit hours. At least 36 hours of upper-level course work are required. Thirty hours must be successfully completed in residence with UHD coursework. Additionally, 18 of the 30 must be upper level coursework in the major. A minimum GPA of 2.00 at UHD and in the Major Requirements is required for graduation. Students who have declared a minor must also meet the requirements governing the minor. Prior to applying for graduation, enrollment in ISS 4098 “Senior Portfolio for BS-IS” in the expected term of graduation is recommended, and successful completion is required for graduation.

No more than 27 hours in the same discipline may be applied towards this degree, excluding courses used to satisfy the common
core requirements. No more than 3 hours of physical activity-related classes (physical education or sports) may be applied towards this degree. Any course substitutions or waivers must be approved by the Program Director. Developmental (e.g., ENG 1300 or below, MATH 0300, MATH 1300 and RDG 1300 or below) and workforce or equivalent hours are not applicable towards this degree. UHD courses and any transfer courses that are equivalent or appear similar cannot both be applied toward this degree. Also, the college reserves the right to limit the number of directed study, field experience, internship, service learning, experience learning, and credit-by-examination hours that can be applied towards the degree.

**Common Core Requirements (42 hours)**
All students seeking a BS in Interdisciplinary Studies from the University of Houston-Downtown must complete the common core requirements as listed in this catalog.

**Preparatory Requirements (18 hours)**
Three hours of literature, six hours of arts and humanities, six hours of social sciences, and three hours of mathematics, natural sciences, or computer science. These requirements may be satisfied with either lower-level or upper-level course work.

**Major Requirements (36 hours)**
At least 36 hours of upper-level course work are required and 18 of the 36 must be UHD course work. Within these requirements, students must complete a concentration consisting of at least 9 hours in a single discipline or area of concentration, without exceeding the limit of 18 hours in a single discipline or area of concentration. Six hours must be in UHD writing-intensive courses, including at least one ENG course with “Writing” in the title. Although a minor is not required, students are strongly encouraged to complete one or more minors, using the concentration as a basis. A 3- or 6-hour internship or field experience is highly recommended, but not required. Successful completion of ISS 4098 Senior Portfolio is required for graduation.

**Electives (24 hours)**
Free electives may be courses from any department at any level, with the restrictions noted in the degree requirements above. Students who did not complete an Ethics course through class selections in the Core, Preparatory, or Major area, must complete an Ethics course as an Elective. Ethics courses include any Philosophy course except for “Critical Thinking” or “Logic.” Non-Philosophy options for Ethics include CJ 3311 “Ethics in Criminal Justice,” POLS 3300 “Ethics and Public Life,” COMM 3340 “Communication and Leadership,” and any other course with “Ethics” in the title or course description.
College of Business

Michael Fields, PhD, Dean
Justo Manrique, PhD, Associate Dean, Undergraduate Studies
Kevin Barksdale, PhD, Associate Dean, Graduate Studies
Carmen Cuevas, JD, Assistant Dean
B400, 713-221-8179

Department of Finance, Accounting and Enterprise Information Systems

Chu Nguyen, PhD, Chair
B410-D, 713-222-5334

Faculty
Professors: Bose, Bressler, DeVries, Islam, Manrique, Pelaez, Penkar, Robbins, Serrett, Smith, Wadhwa, Williams
Associate Professors: Deo, Hashemi, McMahon, C. Nguyen, Paskelian, Pence, Verma, Wright, Zhou
Assistant Professors: Castro, Jones, Liu, Lloyd, Putnam, Shroff, Yancy, Zhang,
Visiting Professors: George, Ren, Wang
Lecturers: Ali, Burrus, Butler, Jafari, Holmes, Karkoviata, Miller, T. Nguyen,, Richards, Wetherbe
Emeriti: Duangploy, Rebhun, Omer

Programs of Study

Bachelor of Business Administration with majors in:
Accounting
Finance
International Business
Management Information Systems

Minors in:
Accounting
Accounting and Finance for Non-Business Majors
Economics
Finance
International Business
Management Information Systems
Department of Management, Marketing and Business Administration

Lucille Pointer, PhD, Chair
B410, 713-221-5382

Faculty
Professors: Ashe, Coy, Evans, Fields, Gupta, Johnson,
            Nealy, Pointer, Shipley, Stanberry, Strain
Associate Professors: Adams, Cao, Dillard, Epstein, Hale, Hurley,
                      Khoja, Morgan, Usnick, Walker, Zhou
Assistant Professors: Canedo Soto, J. Davis, Holmes, Hu, Latheef,
                      Pore, Smith, TeDuits, Wang,
Visiting Professors: Angert, Neale, Vogt, Gleason, Kohlhausen,
Lecturers: LeBon, Monroe, Nayeypour, Tannous, TeDuits, Wicmandy
Emeriti: Aven, Eckles, Efraty, Hebert, Kauffman,
          Robinson, Rooney, Spilger, Wilkinson, Woods

Center Directors: Braniff, J. Davis, Dudley

Programs of Study

Bachelor of Business Administration with majors in:
General Business
Insurance & Risk Management
Management
Marketing
Supply Chain Management

Minors in:
Business Development
Digital Marketing
Energy Management
General Business (available only to non-Business majors)
Human Resource Management
Insurance & Risk Management
Management
Marketing
Metro-Entrepreneurship
Operations Management
Professional Land Management
Project Management
Retail Management
Small Business Management
Supply Chain Management

Certificate in:
Entrepreneurship

Accreditation
The BBA programs of the College of Business are accredited by the Association to Advance Collegiate Schools of Business-International.
Mission Statement
The AACSB accredited College of Business provides reality-based education that enables a diverse* student body to advance intellectually, professionally, and financially. We create student-focused learning environments and engage in predominantly applied research that contributes to educational excellence, and business and industry practices.

*Diversity at UHD includes demographic factors such as ethnicity, race, and age. In addition, there is diversity in the quality of their academic preparation since approximately 85% of the students transfer from another institution.

Shared Values
A highly qualified faculty accomplishes this mission within a dynamic learning environment based on:

- **Professionalism**: the high standard expected from individuals who are well trained in a particular area of expertise that includes respect for another’s commitment to the common purpose and ability to work toward it.
- **Commitment**: the willingness and aspiration to make efficient use of available resources in order to achieve common goals.
- **Inclusiveness**: tolerance of different points of view and actively eliciting and objectively evaluating input from all stakeholders to reach a shared outcome.
- **Innovation**: the skills and ability to produce new ideas and practices or improve existing ones.
- **Transparency**: the willingness to openly share and timely communicate decisions, policies and practices.
- **Integrity**: the quality of being honest, having strong moral principles, holding oneself accountable, and the belief that others will do the same.

Beta Gamma Sigma
The College of Business is privileged to have a student chapter of Beta Gamma Sigma, the national business honorary society recognized by the AACSB-International. Its mission is to encourage and honor academic achievement and personal excellence in the study and practice of business. Each year, the University of Houston-Downtown Chapter invites to membership the juniors in the college who rank in the top 10% of their class and the seniors who rank in the top 10% of their class who are not already members.

Gamma Iota Sigma
The Beta Kappa chapter of Gamma Iota Sigma, the national risk management, insurance and actuarial science collegiate fraternity, was chartered in at the College of Business in 2014. Its mission is to encourage student interest in insurance, risk management and actuarial science as professions and the high moral and scholastic attainments of its members. It facilitates interaction of educational institutions and industry through networking and by fostering research activities, scholarship and improved public relations.

Academic Requirements
Consistent with the University of Houston-Downtown’s commitment to quality undergraduate education, the College of Business adopts this policy regarding admissions, the declaration of majors, course enrollment and requirements for graduation for BBA degree programs.

Admission and Declaration of Major
Students continuing at UHD will be declared majors in Business if they meet the following criteria:

- UHD GPA is 2.5 or higher, and
- Completion of common core, and
- Minimum grade of “C” in Math 1301 (College Algebra), Math 1305 (Finite Math) OR Math 1306 (Calculus with Business Applications).

Students transferring to UHD will be declared majors in Business if they meet the following criteria:

- GPA is 2.5 or higher at the last college or university attended, and
- Completion of common core, and
- Minimum grade of “C” in Math 1301 (College Algebra), Math 1305 (Finite Math) OR Math 1306 (Calculus with Business Applications).

Students who do not meet the criteria above do not qualify for admission into the College of Business and will be classified as a pre-major based upon their respective major of interest.
Post-Baccalaureate and Special Status Admission

Students who hold bachelors or graduate degrees from accredited universities who are not seeking a degree from the University of Houston-Downtown may apply for admission to the College of Business as special status students prior to enrolling at the University of Houston-Downtown.

Students who desire to take courses offered by the College of Business which have been approved by external certification agencies to fulfill their continuing education requirements may apply for admission to the College of Business as special status students. In order to qualify, the applicant must have at least 60 hours of university credit. Additionally, the student must satisfy TSI requirements if applicable.

Courses taken by a special status student may not be used to fulfill degree requirements of any degree granted by the College of Business.

Transient students who need to take one or more business classes at UHD to complete their degree at another university must obtain prior written approval from their dean or college representative to enroll in specific courses which will be used to satisfy graduation requirements.

Satisfaction of Prerequisites

Prerequisites are NOT optional; prerequisites ARE requirements or courses that must be completed PRIOR to taking a course. The prerequisites for a course are described in the catalog course descriptions. It is the student’s responsibility to insure that he/she meets the prerequisites prior to enrollment in a course. If the student enrolls and does not meet the prerequisites, he/she may be administratively withdrawn from the course at any time. Any variance in prerequisite requirements or this policy must be obtained in writing from the department chair prior to enrollment in the course.

Dismissal from the College of Business

Students admitted to the College of Business whose overall GPA falls below 2.0 for two consecutive semesters will be placed on academic suspension in accordance with the current UHD Catalog. Students on academic suspension will be dismissed from the College of Business.

A student who changes his/her major to a discipline outside of the College of Business will be dismissed from the College of Business and their records will be forwarded to the appropriate college.

A student who is unsuccessful in a required course after three attempts will be dismissed from the College of Business for failure to make progress. College of Business interprets a required course as any course in the Business Core or Major Requirements. Finally, the College of Business will interpret failure to progress as not moving forward in a degree plan. Therefore, in some majors a “D” in a course will be considered unsuccessful if the degree sequence requires a “C” or better. An attempt is registered when the student receives either a grade or “W” for the course.

If a student subsequently seeks readmission to the College of Business, she/he must reapply and meet the College of Business standards of admission in force at the time of reapplication.

COB Student Services

Carmen Cuevas, J.D., Assistant Dean, B-101 (713) 221-8675
Brett Hobby, M.Ed., COB Career Director, B-104 (713) 221-5075

COB Career Services: B-104 (713) 221-5011
Brett Hobby, M.Ed., Career Center Director
Maxine Todd, M.B.A., Career Counselor

COB Advising Office: B-101 (713) 221-8675
Marilyn Tabacco, M.Ed., M.S., CPA, Assistant Director, Advising Services
Amanda Clay, M.Ed., Academic Advisor II
Stephanie Williams, Academic Advisor II
Course Approvals and Advising
All students admitted to the College of Business will be advised by College of Business advisors. Students with declared majors will be granted self-advising privileges after their initial session as long as their GPA is 2.25 or above and prerequisites are followed. Students who fail to follow prerequisite requirements will be denied self-advising privileges. This provision applies to students who have not completed the 18 hours of required lower division business core classes in MATH, ACC and ECO before attempting upper division courses, or do not follow advisors’ directions. Students who fail to file a declaration of major when eligible will be denied enrollment in courses administered by the College of Business until the declaration has been filed.

Students not admitted to the College of Business who want to enroll in upper division business courses must have an overall GPA of 2.00 or higher, must meet all the prerequisites for the courses, and must have prior written approval of a College of Business advisor or a designated delegate. The only courses that do not require prior written approval of a College of Business advisor are BA 3300 (Business Cornerstone), BA 3301 (Legal Environment of Business), MGT 3301 (Principles of Management and Organization), MKT 3301 (Principles of Marketing), MIS 3302 (Management of Information Systems), and FIN 3302 (Business Finance.)

Students not admitted to the College of Business (non-business majors) will be restricted to a maximum of 18 hours of upper division Business courses. Students seeking more than 18 hours must receive written permission from the Associate Dean of the College of Business.

Graduation Requirements
In addition to meeting the general requirements established by the University of Houston-Downtown for eligibility to graduate, students receiving a degree in a program administered by the College of Business must have an overall GPA of 2.0 or better for all courses taken in the College of Business at UHD.

Courses of Instruction
Individual courses of instruction are subject to change or cancellation at any time and may not be offered each semester or every year. Students should be especially mindful that summer offerings are limited and vary from year to year. Therefore, careful planning is required if progress toward the degree is expected during the summer months.

Field Experience
Field Experience integrates theory learned in the classroom with practical work experience in a job related to the student’s academic and professional goals. The work experience and the academic experience must be directly related. Positions may or may not be paid and may last the duration of the fall or spring semester or the entire summer. Field Experience generally is not approved for students already employed in their area of study.

Eligibility for Field Experience enrollment includes at least 60 semester credit hours completed in the degree program, a minimum cumulative grade point average of 2.5 or prior approval of the department chair in whose area the course is being offered. Other requirements specified by the department may impact the applicant's eligibility. Submission of applications and other preliminary procedures should be completed during the semester prior to the one in which the student wishes to enroll.

The College of Business allows up to two courses (6 semester credit hours) in Field Experience to be applied toward graduation requirements. These courses are graded on a pass/fail basis and do not apply toward calculation of the grade point average. Field Experience credit may NOT be used to satisfy minor program requirements, except for Insurance & Risk Management.

Minor Program Requirements
Additionally, the College of Business offers a variety of minors to complement major programs. Both students pursuing a Bachelor of Business Administration degree and those pursuing other degrees offered by the university can select these minors. Students planning to take a minor in the College of Business who are not seeking a Bachelor of Business Administration degree are reminded that in compliance with the accrediting principles of AACSB-International, the course work taken in the College of Business, including all courses applicable to the minor, is limited to 25% of the credit hours applied toward graduation.
The general academic requirements for minors are:

- College of Business majors must have a minimum 2.5 GPA at UHD to declare a minor.
- Students majoring in a non-Business field must have a minimum 2.25 GPA at UHD to be approved for a COB minor.
- Student must have a minimum 2.0 GPA in minor courses for minor to be certified for graduation.
- The field experience courses (ACC 4380, BA 4380, FIN 4380, MGT 4380, MIS 4380, MKT 4380, PLM 4380 or SCM 4380) may not be applied to a minor program.
- The minor field elected must be different from the major.
- A student must complete all course work required for the minor in addition to all course work required for the degree prior to certification for graduation.
- All minor programs in the College of Business require at least 9 hours upper-level course work in residence at UHD.

Students should note that in some instances courses listed as requirements or options for the minor program may have prerequisites that are not listed as part of the program. Prerequisites will not be waived. The procedure to declare a minor is available from the College of Business Student Services Office, Room B101.

Certificate Requirements
Students completing both BA 3305 (Entrepreneurship) and BA 3306 (Intrapreneurship) are eligible to receive a certificate in Entrepreneurship from the MMBA Department, regardless of major. UHD Students pursuing a Bachelor of Business Administration degree, along with those pursuing other degrees will qualify if the student earns a minimum grade of C in both courses. Information concerning this certificate is available from the College of Business Student Services Office, Room B101.

Bachelor of Business Administration Programs

All majors within the Bachelor of Business Administration degree program administered by the College of Business share a common core of general education requirements and a common core of business course requirements. These two core areas must be completed in addition to the major discipline requirements.

Students must complete all general education core requirements prior to enrolling in upper-division courses. Upon completion of the Common Core requirements and earning the requisite GPA, students should file for admission to the College of Business.

Degree Requirements

Preparatory Requirements
All students seeking a Bachelor of Business Administration degree from the University of Houston-Downtown must complete the common core requirements.

Common Core Requirements (42 hours)
Common core requirements may be filled by taking any of the courses listed as options under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section. To fulfill the mathematics requirement, MATH 1301 is recommended. To fulfill the institutional requirement, UHD 1301 – BUS, “Digital Competency for College Success and Beyond” is recommended for freshman students. Transfer students who haven’t completed the institutional requirement are recommended to take either UHD 2301 – BUS “Business of Success” or UHD 2301 – BUS, “Computer Competency and Skills for Success.”
Business Core Requirements (45-48 hours)

Lower Level
- MATH 1305 Finite Math with Applications
- MATH 1306 Fundamentals of Calculus with Applications
- ACC 2301 Financial Accounting
- ACC 2302 Managerial Accounting
- ECO 2301 Principles of Economics I
- ECO 2302 Principles of Economics II

Upper Level
- BA 3300 Business Cornerstone
- BA 3301 Legal Environment of Business
- MKT 3301 Principles of Marketing
- MGT 3301 Principles of Management and Organization Behavior
- BA 3350 Business Communications
- MIS 3302 Management of Information Systems (Not required for Accounting majors)
- STAT 3309 Statistical Analysis for Business Applications
- FIN 3302 Business Finance
- MGT 3332 Operations and Supply Chain Management
- BA 4302 Business Strategy

Major in Accounting (120 hours)

Accounting faculty: Bressler, Burrus, Butler, George, Holmes, Liu, Lloyd, Miller, Pence, Richards, Serrett, Shroff, Wadhwa, Williams, Yancy, Zhang, Wang

Accounting graduates have flexibility in career choices due to the wide variety of accounting specializations and the breadth of accounting applications. The program prepares graduates for careers in public accounting, accounting within business entities, or accounting within governmental or not-for-profit agencies. Accounting serves as an excellent background for students planning to pursue graduate studies or careers in law.

The Texas Public Accountancy Act of 1991 requires that a CPA candidate sitting in Texas for the CPA Exam for the first time as of May, 1998 have (1) a baccalaureate degree with any major, (2) two basic accounting courses plus an additional 30 hours of accounting as defined by the Board including a minimum of two semester hours in research and analysis (accounting or tax), (3) 24 hours of upper division business related courses as defined by the Board including a minimum of two semester hours in accounting communications or business communications, (4) an approved 3 semester hour ethics course, and (5) a total of 150 unduplicated college transcript hours. The candidate is NOT required to complete a master’s degree. Contact the Texas State Board of Public Accountancy (512-505-5599) for further information.

The accounting program offers a foundation of required accounting courses and accounting electives to meet the requirements to sit for the Uniform Certified Public Accountants examination. The accounting program also provides the basic courses related to preparing for the Certified Management Accountants exam as well as other specialized accounting certification examinations.

Program Outcomes
1. Accounting majors will produce effective communication.
2. Accounting majors will demonstrate effective oral communication.
3. Accounting majors will employ analytical thinking.
4. Accounting majors will demonstrate knowledge of the BBA Common Core.
5. Accounting majors will recognize and resolve an ethical dilemma.
6. Accounting majors will effectively utilize technology.
7. Accounting majors will demonstrate expertise in the Accounting field.
Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (45 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Accounting Major Requirements (27 hours*)
ACC 3300 Intermediate Accounting I
ACC 3301 Intermediate Accounting II
ACC 3302 Intermediate Accounting III
ACC 3303 Cost Accounting
ACC 3304 Accounting Information Systems
ACC 4301 Individual Income Taxation
ACC 4302 Corporation Taxation
ACC 4303 Advanced Accounting
ACC 4304 Auditing

*For purposes of taking the CPA exam in Texas, the Texas State Board of Public Accountancy (TSBPA) will accept not fewer than 30 passing semester hours of upper division accounting courses. The TSBPA requires that at least 15 of these hours must result from physical attendance at classes meeting regularly on the campus.

Upper Division Business Electives (6 hours)
Accounting majors may, but are not required to, choose one of the following professional tracks. Students following a particular track will select one course from Group A and one course from Group B within the chosen track. Students who do not wish to follow a track may choose any two upper level courses in the College of Business.

Financial Reporting

Group A (choose one of the following)
FIN 3301 Small Business Finance
FIN 3306 Treasury Risk Management
FIN 4301 Cases in Managerial Finance
FIN 4303 International Finance
FIN 4305 Investments

Group B (choose one of the following)
ACC 3305 Governmental and Not-For-Profit Accounting
ACC 3307 Oil and Gas Accounting
ACC 3323 International Accounting
ACC 4321 Financial Reporting Theory

Auditing and Taxation

Group A (choose one of the following)
FIN 3306 Treasury Risk Management
FIN 4301 Cases in Managerial Finance
FIN 4303 International Finance
FIN 4305 Investments

Group B (choose one of the following)
ACC 3305 Governmental and Not-For-Profit Accounting
ACC 4309 Computer Control and Audit
ACC 4310 Forensic Accounting
ACC 4322 Estate, Gifts, and Trust Taxation
ACC 4325 Tax Research Methodology
Cost Management and Decision Analysis

Group A (choose one of the following)
ECO 3302 Managerial Economics
ECO 3303 Economics of Industrial Organization
ECO 4303 International Economics
ECO 4307 Health Economics
FIN 4301 Cases in Managerial Finance
FIN 4305 Investments
MGT 4308 Leading People and Teams

Group B (choose one of the following)
ACC 3323 International Accounting
ACC 4307 Accounting Analysis for Decision Making
ACC 4321 Financial Reporting Theory

Accounting Information Systems

Group A (choose one of the following)
MIS 3301 Systems Analysis and Design
MIS 3304 Microcomputer Applications in Business

Group B (choose one of the following)
ACC 4307 Accounting Analysis for Decision Making
ACC 4309 Computer Control and Audit
ACC 4321 Financial Reporting Theory

Major in Finance (120 hours)

Finance faculty: Castro, Deo, Jones, Nguyen, Paskelian, Pelaez, Penkar, Putnam, Ren, Smith, and Verma

The finance program presents students with the opportunity to learn a body of theory and analytical techniques needed to perform various finance functions in corporations and financial services firms. Finance graduates may pursue careers as financial managers, personal financial advisors, security analysts, real estate brokers and sales agents, insurance sales agents, and securities, commodities, and financial services sales agents, among others. One of the most promising careers paths is that of personal financial advisors. As government regulation of the financial sector increases, the regulatory agencies will employ finance graduates as financial examiners to ensure compliance with laws and regulations. Ideally, the finance graduate will have strong analytical skills, good communication skills, and excellent sales ability.

Program Outcomes

Finance majors will produce effective written communication.
1. Finance majors will demonstrate effective oral communication.
2. Finance majors will employ analytical thinking.
3. Finance majors will demonstrate knowledge of the BBA Common Core.
4. Finance majors will recognize and resolve an ethical dilemma.
5. Finance majors will effectively utilize technology.
6. Finance majors will demonstrate expertise in the Finance field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.
Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Finance Major Requirements (12 hours)
FIN 3305   Money, Markets and Institutions
FIN 4301   Cases in Managerial Finance
FIN 4305   Investments
FIN 4309   Advanced Financial Management

Finance majors must select ONE of the two finance tracks, totaling 12 credit hours

Corporate Finance Track (Students choose four from the following)
FIN 3301 – Small Business Finance
FIN 3306 – Treasury Risk Management
FIN 3309 – Quantitative Methods in Finance
FIN 3314 – Intermediate Corporate Finance
FIN 4303 – International Finance
FIN 4307 – Derivative Securities

Investment Management Track (Students choose four from the following)
FIN 3309 – Quantitative Methods in Finance
FIN 3313 – Real Estate Finance
FIN 3314 – Intermediate Corporate Finance
FIN 4307 – Derivative Securities
FIN 4310 – Portfolio Management
FIN 4320 – Financial Planning

Electives (6 hours)
Lower-level Business elective
Upper-level Business elective

Additional Degree Requirements
- A student majoring in Finance must earn a grade of C or better in FIN 3302.
- A student majoring in Finance must have a GPA of 2.0 or better in all finance courses.
- A student majoring in Finance must earn a grade of C or better in FIN 4309.

Major in General Business (120 hours)

General Business faculty: Angert, Ashe, Brown, Epstein, Evans, Khoja, Kohlhausen, Nealy, Stanberry, Usnick

A vital part of UH-Downtown’s mission is to offer high quality business education to prepare students for immediate entry into the local business community. Designed for students who seek a strong interdisciplinary business program, the General Business major combines a solid foundation of general education with understanding of the fundamental theories and procedures of basic business functions.

Through this major, students have the opportunity to tailor their course work to meet individual career goals. For example, a student with an entrepreneurial interest might choose courses in small business management, marketing and personnel. A student interested in working in the oil industry might choose professional land management courses. Students interested in focusing on international business might take the courses offered in international business, international marketing, international business law, international accounting and international economics.

A student majoring in General Business can combine this major with any minor(s). The General Business major cannot be combined with a second business major unless the student takes 30 additional upper-level hours. At least 50% of the upper-level business hours must be taken from the University of Houston-Downtown.
Program Outcomes

1. General Business majors will produce effective written communication.
2. General Business majors will demonstrate effective oral communication.
3. General Business majors will employ analytical thinking.
4. General Business majors will demonstrate knowledge of the BBA Common Core.
5. General Business majors will recognize and resolve an ethical dilemma.
6. General Business majors will effectively utilize technology.
7. General Business majors will demonstrate expertise in various business fields

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

General Business Major Requirements (27 hours)
BA 3302 Commercial Law
24 hours of business courses beyond the Business Core from at least three of the following areas:
- Accounting
- Business Administration
- Economics
- Energy Management
- Finance
- Insurance & Risk Management
- Management
- Management Information Systems
- Marketing
- Professional Land Management
- Supply Chain Management

No more than 12 of these 24 hours may be taken in any one area. At least 21 of these 24 hours must be upper-level courses that are not being counted toward a second business major.

Electives (3 hours)
An upper-level non-Business course.

Major in Insurance & Risk Management (120 hours)

Wendall Braniff, JD, Director, Insurance and Risk Management Center
B488, 713-226-5552

Insurance & Risk Management faculty: Braniff, Hurley

Students are taught risk management processes for handling business and personal risk exposures including property and liability risks, financial planning, employee benefits and international loss exposures. Courses include content developed by and in collaboration with The Institutes, The American College and the National Alliance for Insurance Education and Research for industry professional designations. These designations are recognized throughout the world and sought by industry professionals and hiring managers, giving UHD graduates a differentiator from other business graduates. Students that earn this degree will have opportunities to interact with industry professionals to evaluate different career paths, apply for internships and secure career positions in this dynamic profession.
Insurance and risk management is one of the fastest-growing international business opportunities with a rapidly expanding number of new and replacement positions opening in the next two decades. Within the first five years in the industry, insurance and risk management careers rank third highest in earnings for college graduates. Students can choose from careers with mega-large international companies to entrepreneurial operations and find a lifetime of new and interesting educational and skill development experiences in a diverse and upwardly mobile profession.

Program Outcomes
1. Insurance and Risk Management majors will produce effective written communication
2. Insurance and Risk Management majors will demonstrate effective oral communication
3. Insurance and Risk Management majors will employ analytical thinking
4. Insurance and Risk Management majors will demonstrate knowledge of the BBA common Core
5. Insurance and Risk Management majors will recognize and resolve an ethical dilemma
6. Insurance and Risk Management majors will effectively utilize technology
7. Insurance and Risk Management majors will demonstrate expertise in the Insurance and Risk Management field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

IRM Major Requirements (15 hours)

IRM 3300 Introduction to Risk and Insurance
IRM 3301 Life and Health Insurance
IRM 3304 Insurance Operations
IRM 3305 Risk Management Theory and Practice
IRM 3306 Legal and Political Aspects of IRM

IRM Electives (15 hours of upper division business courses, of which 6 hours must come from the courses listed below):
IRM 3303 Value Analysis in IRM
IRM 3310 Insurance in Estate Planning
IRM 3312 Group Benefits
IRM 3399 Directed Study in IRM
IRM 4303 Advanced Property Insurance and Applications
IRM 4304 Advanced Casualty Insurance and Applications
IRM 4305 Special Projects in IRM
IRM 4308 Advanced Risk Management Theory and Practice
IRM 4380 Field Experience in IRM
IRM 4390 Special Topics in IRM

Major in International Business (120 hours)
Given the significant role of the United States in world affairs and the importance of globalization of business to American business enterprise, this major offers a combination of basic business knowledge with an interdisciplinary study of international practices and policies. The curriculum of this major is designed to prepare students for positions in government, business or international agencies in the fields of international trade, international finance, international marketing, international management, and international accounting.
Program Outcomes

1. International Business majors will produce effective written communication
2. International Business majors will demonstrate effective oral communication
3. International Business majors will employ analytical thinking
4. International Business majors will demonstrate knowledge of the BBA common Core
5. International Business majors will recognize and resolve an ethical dilemma
6. International Business majors will effectively utilize technology
7. International Business majors will demonstrate expertise in the International Business field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

IB Major - Foreign Language Requirement: (6 hours):
Six hours of college level credit in a foreign language (other than English).

Required International Core Courses (15 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3323</td>
<td>International Accounting</td>
</tr>
<tr>
<td>BA 3304</td>
<td>International Business and Law</td>
</tr>
<tr>
<td>ECO 4303</td>
<td>International Economics</td>
</tr>
<tr>
<td>FIN 4303</td>
<td>International Finance</td>
</tr>
<tr>
<td>SCM 3320</td>
<td>Domestic and International Logistics</td>
</tr>
</tbody>
</table>

Electives Requirement: 6 hours (select 2 courses) from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 3303</td>
<td>Global Environmental Issues in Business</td>
</tr>
<tr>
<td>COMM 2307</td>
<td>Intercultural Communications</td>
</tr>
<tr>
<td>ECO 3303</td>
<td>Economics of Industrial Organizations</td>
</tr>
<tr>
<td>ECO 4309</td>
<td>Economic Development</td>
</tr>
<tr>
<td>MGT 4301</td>
<td>International Management</td>
</tr>
<tr>
<td>MKT 3304</td>
<td>International Marketing</td>
</tr>
<tr>
<td>MKT 4320</td>
<td>International Business Development</td>
</tr>
</tbody>
</table>

*If course taken to fulfill Functional Skills Requirement may not be double counted or retaken to fulfill the Electives Requirement.

International Experience Requirement: 3 hours from the following with prior approval of the Department Chair:

1. Study abroad program – actual study outside of U.S. may be approved for more than 3 semester hours.
2. Participating in COB international field trip*. (see below)
3. International Internship (inside or outside the United States) with pre-approval from college and organization.

*The COB International Field Trip requirements mentioned may be completed by taking one of the following two course options:

- INT 3350: Foreign Country/Regional Study Tour
- INT 3360: Foreign Country/Region Study Project (this option is only available by department and college approval as a substitute for INT 3350)
Major in Management (120 hours)

Management faculty: Canedo Soto, Coy, Gupta, Hale, Latheef, Morgan, Monroe, Nayebpour, Neale, Pore, Shipley, Tannous, TeDuits, Walker, Wang

The management major introduces the student to the processes and activities required for effective functioning of organizations in a global environment. The management program offered at UHD provides flexibility in course selection. Organizational and group behavior, human resource management, small business/entrepreneurship, international management, quality management, project management, diversity management, and quantitative methods are among the subjects offered in this program. Emphasis is placed on the team building and critical thinking skills necessary for effective managerial decision making. Career opportunities in management exist in both production-oriented and service-oriented organizations in the public and private sectors. Graduates may be employed in management positions within any functional area of a company including human resources and operations planning and control. This program is recommended for students who are interested in the management of organizations as well as those interested in managing their own businesses.

Program Outcomes

1. Management majors will produce effective written communication
2. Management majors will demonstrate effective oral communication
3. Management majors will employ analytical thinking
4. Management majors will demonstrate knowledge of the BBA common Core
5. Management majors will recognize and resolve an ethical dilemma
6. Management majors will effectively utilize technology
7. Management majors will demonstrate expertise in the Management field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Management Major Required Courses (18 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 3302</td>
<td>Foundations of Human Resource Management</td>
</tr>
<tr>
<td>MGT/SCM 3303</td>
<td>Negotiations with a Global Perspective</td>
</tr>
<tr>
<td>MGT 4308</td>
<td>Leading People and Teams</td>
</tr>
<tr>
<td>MGT 4330</td>
<td>Project Management</td>
</tr>
<tr>
<td>MGT 4335</td>
<td>Integrated Process Management</td>
</tr>
<tr>
<td>BA 3308</td>
<td>Business Ethics</td>
</tr>
</tbody>
</table>

Management Major Electives (12 hours)

Select 4 of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 3304</td>
<td>Labor Management Relations</td>
</tr>
<tr>
<td>MGT 3306</td>
<td>Compensation Management</td>
</tr>
<tr>
<td>MGT 3307</td>
<td>Diversity Management</td>
</tr>
<tr>
<td>MGT 3310</td>
<td>Service Operations Management</td>
</tr>
<tr>
<td>MGT 3314</td>
<td>Six Sigma for Managing Process Improvement Projects</td>
</tr>
<tr>
<td>MGT 3320</td>
<td>Project Change Management</td>
</tr>
<tr>
<td>MGT 3325</td>
<td>Retail Management</td>
</tr>
<tr>
<td>MGT 3399</td>
<td>Directed Study in Management</td>
</tr>
<tr>
<td>MGT 4301</td>
<td>International Management</td>
</tr>
<tr>
<td>MGT 4303</td>
<td>Small Business Management</td>
</tr>
<tr>
<td>MGT 4310</td>
<td>Staffing, Recruitment and Selection</td>
</tr>
<tr>
<td>MGT 4314</td>
<td>Quality Management</td>
</tr>
<tr>
<td>MGT 4332</td>
<td>Spreadsheet Modeling for Decision Analysis</td>
</tr>
</tbody>
</table>
Major in Management Information Systems (120 hours)

Management Information Systems faculty: Ali, Bose, DeVries, Hashemi, Jaferi, McMahon, Robbins, Wetherbe, Wright, Zhou

The Management Information Systems (MIS) curriculum is designed to prepare students to enter the workforce equipped with knowledge and skills in information systems development processes, web technologies, domain fundamentals, and the use of large-scale Enterprise Resource Planning (ERP) systems and information technology control and infrastructure frameworks. The MIS curriculum plan is structured to instill business skills; foundations of information systems; knowledge of data and information management; enterprise architecture; information systems project management; information technology infrastructure; systems analysis and design; information systems strategy; management and acquisition; and a choice of electives for the student. The choice of electives includes programming languages, enterprise systems, web technology, information security, microcomputer applications, and E-commerce. An environment is offered to students that allow them to prepare for a lifetime of learning and growth in various information technology careers such as programmer, systems analyst, database administrator, knowledge systems developer, network systems administrator, electronic commerce systems developer, or information systems consultant.

The program is frequently updated with the help of an industry advisory board comprised of information technology professionals from major corporations and public institutions, in order to keep abreast of new information technologies and business methods. The program is based on a national model curriculum developed by educators and computer professionals, endorsed by the Association for Information Technology Professionals, the Association for Computing Machinery, the Association for Information Systems, and adopted by leading universities across the nation.

Program Outcomes
1. Management Information Systems majors will produce effective communication.
2. Management Information Systems majors will demonstrate effective oral communication.
3. Management Information Systems majors will employ analytical thinking.
4. Management Information Systems majors will demonstrate knowledge of the BBA Common Core.
5. Management Information Systems will recognize and resolve an ethical dilemma.
6. Management Information Systems majors will effectively utilize technology.
7. Management Information Systems majors will demonstrate expertise in the Management Information Systems field.

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Management Information Systems Major Requirements (24 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 3301</td>
<td>Systems Analysis and Design</td>
</tr>
<tr>
<td>MIS 3306</td>
<td>Database Systems</td>
</tr>
<tr>
<td>MIS 3315</td>
<td>Enterprise Architecture</td>
</tr>
<tr>
<td>MIS 3317</td>
<td>Information Systems Infrastructure</td>
</tr>
<tr>
<td>MIS 3330</td>
<td>Programming and Application Development</td>
</tr>
<tr>
<td>MIS 4310</td>
<td>Information Systems Project Management</td>
</tr>
<tr>
<td>MIS 4312</td>
<td>Application Analysis, Design, and Implementation</td>
</tr>
<tr>
<td>MIS 4340</td>
<td>Information Systems Strategy, Management &amp; Acquisition</td>
</tr>
</tbody>
</table>
Two of the following Upper Level Electives (6 hours)
MIS 3304   Business Productivity Software Tools
MIS 3305   Business Analysis and Processes
MIS 3307   Data Lifecycle and Management
MIS 3313   Designing and Developing Business Web Applications
MIS 3316   Supply Chain Information and Control Systems (crosslisted with SCM 3316)
MIS 3318   Enterprise Systems using SAP
MIS 3399   Directed Study in MIS
MIS 4309   Computer Control and Audit (crosslisted with ACC 4309)
MIS 4316   Information Security Management
MIS 4320   Business Intelligence
MIS 4380   Field Experience in MIS
MIS 4390   Special Topics in MIS

Any one upper-level Business elective can be selected to fulfill one of the options

Major in Marketing (120 hours)

Marketing faculty: Dillard, Fields, Holmes, Johnson, LeBon, Pointer, Smith, Strain, Wicmandy

Marketing is universally needed in both domestic and international businesses. Careers in marketing offer a large variety of activities utilizing different skills and talents. Those who want to emphasize their creativity may enjoy the promotional aspects of marketing including personal selling, advertising and marketing strategy. Others whose abilities are more quantitative may prefer pricing, distribution and marketing research. The marketing program at UHD is designed to allow students the freedom to develop their individual skills and talents in marketing while providing the marketing fundamentals needed for a career in marketing.

Wherever students’ interests lie, there are areas of emphasis in marketing to match their employment objectives. Career opportunities in marketing are not limited to the private sector. Students interested in working in governmental agencies and nonprofit organizations will find that marketing majors are sought by these employers as well.

Program Outcomes
1. Marketing majors will produce effective written communication
2. Marketing majors will demonstrate effective oral communication
3. Marketing majors will employ analytical thinking
4. Marketing majors will demonstrate knowledge of the BBA common Core
5. Marketing majors will recognize and resolve an ethical dilemma
6. Marketing majors will effectively utilize technology
7. Marketing majors will demonstrate expertise in the marketing field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.

Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Marketing Major Requirements (30 hours)

Required courses (15 hours)
MKT 3305   Integrated Marketing Communications
MKT 3308   Digital Marketing
Every year more than $1,500 billion of materials are purchased by manufacturing firms alone. Federal, state and local governments purchase another $1,000 billion of goods and services per year. In Houston and across the nation, supply management, the acquisition and management of supplies and services, plays an important role in the economy. In the private sector, every dollar saved by purchasing and supply management professionals adds another dollar to profit. In the public sector, every dollar saved by a government purchasing office represents either a dollar available for another project or for tax reductions.

Career opportunities in the Supply Chain Management area are available for students with a sound understanding of purchasing and supply management strategies. Hospitals, city and county health departments, public utilities, and such diverse industries as engineering design and construction manufacturing, parts distribution, chemicals, oil, foods, trucking, pipelines, and retail organizations currently employ graduates of UHD’s program. A major in Supply Chain Management combined with a minor in engineering technology, marketing, or management provides a broad background, which can enhance students’ career opportunities.

The program is frequently updated in consultation with industry experts and the National Association of Purchasing Management-Houston and the local chapter of the National Institute of Governmental Purchasing.

Program Outcomes
1. Supply Chain Management majors will produce effective written communication
2. Supply Chain Management majors will demonstrate effective oral communication
3. Supply Chain Management majors will employ analytical thinking
4. Supply Chain Management majors will demonstrate knowledge of the BBA common Core
5. Supply Chain Management majors will recognize and resolve an ethical dilemma
6. Supply Chain Management majors will effectively utilize technology
7. Supply Chain Management majors will demonstrate expertise in the Supply Chain Management field

Degree Requirements

Preparatory Requirements (42 hours)
Students must complete all common core requirements listed under the heading of Common Core Requirements detailed in the Undergraduate Academic Programs section prior to enrolling in upper-level courses.
Business Core Requirements (48 hours)
See the list of Business Core requirements under the section titled Bachelor of Business Administration Programs.

Supply Chain Management Major Requirements (24 hours)
SCM 3303 Negotiations with a Global Perspective
SCM 3307 Strategic Procurement
SCM 3309 Materials & Inventory Management
SCM 3320 Domestic & International Logistics
SCM 4312 Supply Chain Contracts, Law & Ethics
SCM 4317 Decision Analytics for Supply Chain Management
SCM 4318 Supply Chain Systems & Processes
SCM 4350 Supply Chain Management Capstone

Electives (6 hours)
Upper-level Business elective (6 hours).
Students must complete an additional six hours of upper division courses offered by the College of Business.

Minor Programs

General Academic Requirements for Minors

- College of Business majors must have a minimum 2.5 GPA at UHD to declare a minor. Students majoring in a non-Business field must have a minimum 2.25 GPA at UHD to be approved for a COB minor.
- Student must have a minimum 2.0 GPA in minor courses for minor to be certified at graduation.
- Field experience courses ACC 4380, BA 4380, FIN 4380, MGT 4380, MIS 4380, MKT 4380, PLM 4380, or SCM 4380 may not be applied to a minor program.
- The minor field elected must be different from the major.
- A student must complete all course work required for the minor in addition to all course work required for the degree prior to certification for graduation.
- All minor programs in the College of Business require at least 9 hours upper-level course work in residence at UHD.

Students should note that in some instances courses listed as requirements or options for the minor program may have prerequisites that are not listed as part of the program. Prerequisites will not be waived.

The procedure to declare a minor is available from the College of Business Student Services Office, Room B101.

Minor in Accounting (21 hours)

Required courses (15 hours)
ACC 2301 Financial Accounting
ACC 2302 Managerial Accounting
ACC 3300 Intermediate Accounting I
ACC 3301 Intermediate Accounting II
ACC 4301 Individual Income Taxation

Elective courses (6 hours)
Choose two of the following:
ACC 3302 Intermediate Accounting III
ACC 3303 Cost Accounting
ACC 3304 Accounting Information Systems
ACC 3307 Oil and Gas Accounting
ACC 4302 Corporate Taxation
ACC 4303 Advanced Accounting
ACC 4304  Auditing
ACC 3323  International Accounting

Minor in Accounting and Finance for Non-Business Majors (18 hours)
Required courses (18 hours)
ACC 1301  Accounting for Non-Business Majors
ACC 3311  Taxation for Non-Business Majors
ECO 1301  Introduction to Economics
FIN 1301  Personal Finance
FIN 2301  Principles of Real Estate
MKT 3302  Personal Selling

Minor in Business Development / Sales (18 hours)
Required courses
MKT 3301  Principles of Marketing
MKT 3302  Personal Selling
MKT 3305  Integrated Marketing Communications
MKT 3340  Customer Relationship Management
MKT 4305  Buyer Behavior
MKT 4320  International Business Development

Minor in Digital Marketing (18 hours)
Required courses
MKT 3301  Principles of Marketing
MKT 3308  Digital Marketing
MKT 3320  Social Media Marketing
MKT 3350  Mobile, Web, and Email Marketing
MKT 4330  Understanding the Digital Consumer
MKT 4340  Marketing Analytics

Minor in Economics (18 hours)
Required courses (6 hours)
ECO 2301  Principles of Economics I
ECO 2302  Principles of Economics II

Elective courses (12 hours)
Any 4 upper-level economics courses. One of the following may be substituted for one of the economics courses:
FIN 3305  Money, Markets and Institutions
ACC 3300  Intermediate Accounting I

Minor in Energy Management (18 hours)
Required courses (15 hours)
EM 3301  Introduction to the Petroleum Industry
EM 4301  Energy Law
EM 4310  Energy Transactions and Practical Solutions
EM 4350  Hydrocarbon Marketing
MGT/SCM 3303  Negotiations with a Global Perspective

Elective course (3 hours)
Choose one of the following:
ACC 3307  Oil and Gas Accounting
EM 3399  Directed Study in Energy Management

87
Minor in Finance (18 hours)

Required courses (12 hours)
- FIN 3305   Money, Markets and Institutions
- FIN 4303   International Finance
- FIN 4305   Investments
- FIN 4309   Advanced Financial Management

Elective courses (6 hours)
Two additional upper-level finance courses

Minor in General Business (18 hours)

Only available to non-Business majors.

Required courses (6 hours)
- MGT 3301  Principles of Management and Organization Behavior
- MKT 3301  Principles of Marketing

Elective courses (12 hours)
Select 4 courses from Business Administration, Energy Management, Insurance & Risk Management, Management, Marketing, Professional Land Management, or Supply Chain Management. No more than 2 courses may be from any one field. At least 2 courses must be upper-level.

Minor in Human Resource Management (18 hours)

Required Courses (12 hours)
- MGT 3301  Principles of Management and Organization Behavior
- MGT 3302  Foundations of Human Resource Management
- MGT 3306  Compensation Management
- MGT 4310  Staffing, Recruitment, and Selection

Elective Courses (6 hours)
Choose two of the following:
- MGT 3303  Negotiations with a Global Perspective
- MGT 3304  Labor Management Relations
- MGT 3307  Diversity Management
- MGT 4308  Leading People and Teams

Minor in International Business (18 hours)

Required course (9 hours)
- BA 3320   International Business
- ECO 4303  International Economics
- FIN 4303  International Finance

Elective courses (9 hours)
Choose three of the following:
- ACC 4323  International Accounting
- BA 3304   International Business and Law
- ECO 4309  Economic Development
- MGT 4301  International Management
- MKT 3304  International Marketing
- MKT 4308  Exporting and Importing

Choose one of the following in place of one of the above electives:
- COMM 2307  Intercultural Communication
- PHIL 3322  World Religions

Minor in Insurance & Risk Management (18 hours)

Required Courses (12 hours)
IRM 3300  Introduction to Risk and Insurance
IRM 3301  Life and Health Insurance
IRM 3304  Insurance Operations
IRM 3305  Risk Management Theory and Practice

Elective courses (6 hours) from the following:
IRM 3303  Value Analysis in IRM
IRM 3306  Legal and Political Aspects of IRM
IRM 3310  Insurance in Estate Planning
IRM 3312  Group Benefits
IRM 3399  Directed Study in IRM
IRM 4303  Advanced Property Insurance and Applications
IRM 4304  Advanced Casualty Insurance and Applications
IRM 4305  Special Projects in IRM
IRM 4308  Advanced Risk Management Theory and Practice
IRM 4380  Field Experience in IRM
IRM 4390  Special Topics in IRM

Minor in Management (18 hours)

Required courses (6 hours)
MGT 3301  Principles of Management and Organization Behavior
MGT 4308  Leading People and Teams

Elective courses (12 hours)
Choose a minimum of two of the following:
MGT 3302  Foundations of Human Resource Management
MGT 3304  Labor Management Relations
MGT 3306  Compensation Management
MGT 3307  Diversity Management
MGT 3310  Service Operations Management
MGT 3332  Operations & Supply Chain Management
MGT 3399  Directed Study in Management
MGT 4301  International Management
MGT 4303  Small Business Management
MGT 4310  Staffing, Recruitment and Selection
MGT 4314  Quality Management
MGT 4332  Spreadsheet Modeling for Decision Analysis
MGT 4345  Leadership in Organizations
MGT 4390  Special Topics in Management
MGT 4330  Project Management

Choose a maximum of two of the following:
BA 3305  Entrepreneurship
BA 3306  Intrapreneurship
BA 3308  Business Ethics
MGT/SCM 3303  Negotiations with a Global Perspective
SCM 3308  Purchasing Management
SCM 3309  Materials Management

Minor in Management Information Systems (18 hours)

Required courses (12 hours)
MIS 3302  Management of Information Systems
MIS 3301  Systems Analysis and Design
MIS 3306  Database Systems
MIS 3317  Information Systems Infrastructure
Elective courses (6 hours)
Choose two additional courses:
- Any 3000-level MIS course
- Any 4000-level MIS course

Minor in Marketing (18 hours)
Required courses (9 hours)
- MKT 3301  Principles of Marketing
- MKT 4305  Buyer Behavior
- MKT 4309  Marketing Strategy

Elective courses (9 hours)
Choose three of the following:
- MKT 3302  Personal Selling
- MKT 3304  International Marketing
- MKT 3305  Integrated Marketing Communications
- MKT 3308  Digital Marketing
- MKT 3320  Social Media Marketing
- MKT 3330  Retail Management
- MKT 3340  Customer Relationship Management
- MKT 3350  Mobile, Web, and Email Marketing
- MKT 3360  Product Innovation Management
- MKT 3399  Directed Study in Marketing
- MKT 4306  Marketing Research
- MKT 4310  Seminar in Retail Strategy
- MKT 4320  International Business Development
- MKT 4330  Understanding the Digital Consumer
- MKT 4340  Marketing Analytics
- MKT 4380  Field Experience
- MKT 4390  Special Topics in Marketing

Minor in Metro-Entrepreneurship (18 hours)
Required courses (15 hours)
Choose five of the following:
- BA 3306  Intrapreneurship
- BA 3340  Entrepreneurial Revenue
- BA 3341  Entrepreneurial Costs and Budgeting
- BA 4304  Entrepreneurial Capitalization and Funding
- BA 4305  The Business Plan
- BA 4379  Implementing the Business Plan

Elective courses (3 hours)
Choose one of the following:
- BA 3305  Entrepreneurship
- MGT 4303  Small Business Management

Minor in Professional Land Management (18 hours)
Required courses (15 hours)
- EM 3301  Introduction to the Petroleum Industry
- EM 4301  Energy Law
- MGT/SCM 3303  Negotiations with a Global Perspective
- PLM 3305  Engineering, Geology and Geophysics for the Land Professional
- PLM 4303  Land Management Practice

Elective courses (3 hours)
Choose one of the following:
BA 3302   Commercial Law
BA 3309   Real Estate Law
PLM 3399   Directed Study in PLM

**Minor in Operations Management (18 hours)**

**Required courses**
MGT 3301   Principles of Management and Organization Behavior
MGT 3310   Service Operations Management
MGT 3314   Six Sigma for Managing Process Improvement Projects
MGT 3332   Operations & Supply Chain Management
MGT 4332   Spreadsheet Modeling for Decision Analysis
MGT 4335   Integrated Process Management

**Minor in Project Management (18 hours)**

**Required courses (18 hours)**
MGT 3301   Principles of Management and Organization Behavior
MGT 3314   Six Sigma for Managing Process Improvement Projects
MGT 3320   Project Change Management
MGT 4330   Project Management
MGT 4332   Spreadsheet Modeling for Decision Analysis
MGT 4335   Integrated Process Management

**Minor in Retail Management (18 hours)**

MKT 3301   Principles of Marketing
MGT 3301   Principles of Management and Organization Behavior
MGT 3310   Service Operations Management
MGT 4308   Leading People and Teams
MKT 3330   Retail Management
MKT 4310   Seminar in Retail Strategy

**Minor in Small Business Management (18 hours)**

**Required courses (15 hours)**
BA 3305   Entrepreneurship
ECO 3302   Managerial Economics
FIN 3301   Small Business Finance
MGT 4303   Small Business Management
MKT 4306   Marketing Research

**Elective course (3 hours)**
Choose one of the following:
SCM 3308   Purchasing Management
SCM 3309   Materials Management
MGT 4308   Leading People and Teams

**Minor in Supply Chain Management (18 hours)**

**Required courses (12 hours)**
MGT/SCM 3303   Negotiations with a Global Perspective
SCM 3307   Strategic Procurement
SCM 3309   Materials & Inventory Management
SCM 3320   Domestic and International Logistics

**Elective courses (6 hours)**
Choose two of the following:
BA 3302   Commercial Law  
MIS 3318  Enterprise Systems using SAP  
MGT 3314   Six Sigma for Managing Process Improvement Projects  
MGT 3325  Retail Management  
MGT 4314  Quality Management  
MGT 4330  Project Management  
MGT 4332  Spreadsheet Modeling for Decision Analysis  
SCM 4312  Supply Chain Contracts, Law, and Ethics  
SCM 4317  Decision Analytics for Supply Chain Management  
SCM 4318  Supply Chain Systems & Processes  
MGT 4330  Project Management  

Certificate in Entrepreneurship (6 hours)  
The following two courses must be completed. To receive the certificate, students must earn at least a C in both courses. Upon completion, the student should request the certificate from the MMBA Department, B-410.  
BA 3305  Entrepreneurship  
BA 3306  Intrapreneurship  

Continuing and Professional Education (CP Ed)  
The College of Business CP Ed Department provides professional development for individuals seeking career advancement. With the support of industry experts, it identifies workforce training needs and creates and implements courses that develop the knowledge and skills that industry requires.  

CP Ed certificates and courses meet industry standards and are recognized as continuing education credits by relevant professional associations: the American Association of Professional Landmen (AAPL), National Association of Lease and Title Analysts (NALTA), National Association of Division Order Analysts (NADOA), and International Right of Way Association (IRWA), among others. The department offers the following programs:  

Professional Land Management Certificate  
This program comprises six one-month courses that cover key facets of the land management profession: Petroleum Land Management Fundamentals, Property and Mineral Ownership, Negotiating Skills and Techniques, Petroleum Land Management Practices, Basic Contracts and Agreements, and Calculating Oil and Gas Interests. All courses are available both online and face-to-face.  

Advanced Petroleum Land Management Certificate  
This certificate program for seasoned landmen consists of six one-month online courses: Critical Legal Concepts in the Land Profession, Comprehensive Study of the Oil and Gas Lease, Curing Land Titles, Environmental and Ethical Issues in Petroleum Land Management, GIS Uses for the Land Professional, and Renewable Energy Sources.  

Right of Way Certificate  
This program focuses on the issues, tasks, challenges, strategies and hands-on knowledge required in the private sector of the ROW industry - pipeline, electric, renewables, water, and chemical, among others. It consists of six one-month online modules.  

Commercial Credit Certificate  
This sixteen-week program prepares participants with the understanding and ability to bring in qualified business to a financial institution by developing the knowledge, analytical skills, and decision-making techniques needed to make sound credit decisions.  

Retail Management Certificate  
This twelve-week program focuses on the skills necessary to run the day-to-day operations of a retail business. The program is offered online, and each lesson is facilitated by an industry expert.
SharePoint Business Analyst Certificate

After successfully completing this seventeen-week program, participants will master the knowledge required to understand business processes while developing the skills needed to design and implement cost-effective technology solutions using Microsoft SharePoint collaborative platform.
The College of Humanities and Social Sciences (CHSS) offers degrees in traditional liberal arts disciplines and interdisciplinary studies and in select applied programs that serve important needs in our employment and educational market. The college also supports and enriches the broader curriculum and enhances the life of the university community through co-curricular initiatives in the Departments of Arts and Humanities, English, and Social Sciences and in the work of the O’Kane Theatre, O’Kane Gallery, and Cultural Enrichment Center.

The College of Humanities and Social Sciences is committed to teaching, research/creative activities, and service. At the heart of CHSS is the value placed on the diversity of humanity and a belief in education as the foundation of an empowered, free, and engaged citizenry capable of individual creativity and social responsibility. Faculty members demonstrate and students develop this capacity through multiple disciplinary perspectives: historical and theoretical inquiry, quantitative and critical/qualitative analysis, and creative cultural production. CHSS students gain crucial communication skills (critical thinking, reading, writing, and speaking) and respect for the breadth of human experience essential for thriving in complex global communities.

Requirements for CHSS Majors

All BA and BS degrees require a minimum of 120 hours. For degree completion, at least 25 percent of the semester credit hours must be earned through coursework completed at UHD. Residency rules also require that 18 hours of the upper-level semester credit hours applied to the major must be successfully completed at UHD. Unless otherwise noted in the individual degree plans, an overall minimum grade point average of 2.0 at UHD is required for graduation and a minimum average of 2.0 must be maintained in the degree’s “Major Requirements” area, including concentration areas. All students seeking a bachelor’s degree at the University of Houston-Downtown must complete the general education requirements. See the General Education section of this catalog for more information about these requirements.

Caveats and Exceptions: developmental courses, such as ENG 1300, MATH 0300, MATH 1300, and READ 1300, may not be applied to any CHSS BA or BS graduation requirements. No more than 25 percent of semester credit hours from the business college may be applied to a CHSS BA or BS degree. The College reserves the right to limit the number of directed study, internship, service learning, experience learning, and credit-by-examination credit hours that can be applied to degree requirements.

Students are responsible for being aware of all degree requirements and for complying with them.

Programs of Study

The College of Humanities and Social Sciences offers the following undergraduate degree programs:

**Bachelor of Arts with majors in:**
Communication Studies
English
Fine Arts
History
Humanities
Philosophy
Social Sciences
Spanish

**Bachelor of Science with majors in:**
Health and Behavioral Science
Political Science
Professional Writing
Psychology
The College provides faculty and professional advisors to:

- advise majors on degree and graduation requirements
- assist with course selection
- inform majors of minor programs at UHD
- advise majors on career preparation and graduate studies
- advise student on college and university academic policies

Students are responsible for being aware of all degree requirements and for complying with them without duplicating courses. Students should always include their full name and UHD ID number in all correspondence and voicemail and they should endeavor to use GatorMail for all email correspondence.

Advising sessions can take place in one of three ways.

- By appointment: appointments can be set by phone (713-221-8460) in person (1001 S), or online at our CHSS advising website.
- By walk-in visit: please contact the CHSS webpage, which lists walk-in days.
- By email: the email address for the CHSS offices is CHSS_Advising@uhd.edu.

The CHSS advising schedule at https://www.uhd.edu/academics/humanities/current-students/advising/Pages/college-advising.aspx contains additional contact information.

Before consulting with a college advisor to register for coursework, students should review the requirements for their academic degree described in this catalog, select potential courses to fulfill degree requirements, and prepare a tentative course schedule. Courses, course status (open or closed), and class times for each academic semester are available online in MyUHD.

Although majors in good academic standing are given access to priority registration and may self-advice and register online via MyUHD, students are strongly encouraged to consult with an advisor before the semester begins.

Majors on academic probation who wish to register for next semester courses must meet with a college advisor and then see the Associate Dean or the Assistant Dean for course approval. CHSS majors on academic suspension who have not attended UHD for the preceding long semester must apply for readmission to the university and then must consult with the Assistant or Associate Dean at least one week prior to the first day of class. With the Associate or Assistant Dean’s authorization, the student will be placed on academic probation and permitted to take a limited number of approved classes.

**Admission and Declaration of Major**

Students continuing at UHD who meet the following criteria may be admitted to the College of Humanities and Social Sciences as a declared major:

- UHD GPA of 2.00 or higher
Students transferring to UHD who meet the following criteria may be admitted to the College of Humanities and Social Sciences as a declared major:

- Transfer GPA of 2.00 or higher

Students who meet Freshman Admissions criteria may be admitted to the College of Humanities and Social Sciences as a declared major upon admission to UHD.

Students who do not meet the criteria above do not qualify for admission into the College of Humanities and Social Science and will be classified as a pre-major based upon their respective major of interest.

Applying for Graduation

Students planning to graduate from UHD with a major that is housed in CHSS must file an online application for graduation located on MyUHD. It is encouraged that a major meet with a CHSS Advisor before applying and submitting their graduation request online to ensure that all requirements will be met. Students are responsible for completing all steps described within the online application system.

Deadlines for applications for graduation can be found on the academic calendar for a given term. The deadlines for students planning to graduate in a Winter or May term are the same as Fall or Spring term, respectively. Students who do not complete the requirements in the anticipated term must reapply for graduation and repay the graduation fee.

The CHSS Advising Center and Dean’s Office will communicate any information about students’ applications for graduation through GatorMail, so students who have submitted an application for graduation should begin checking their GatorMail a week after the posted deadline.

Requirements for Minors

Students seeking minors in CHSS must maintain a grade point average for all courses taken at UH-Downtown of at least 2.0, receive a grade of C or better in all courses applied toward the minor, and must meet all requirements of the chosen minor, including prerequisites for courses taken toward the minor. Students must complete all requirements for minors in addition to all course work required for the degree before graduation. All minor programs in CHSS, with the exception of a minor in art, require at least 9 hours upper-level coursework work in residence at UHD. The Art minor requires only 6 hours of upper-level coursework (see full description under the Arts and Humanities section).

To declare a minor, students with majors in CHSS must file a Minor Declaration Form with a CHSS advisor. Students with majors in other colleges who select a minor in CHSS should file the Minor Declaration Form with an advisor in their home college. In both cases, CHSS advisors fill out a form which lists the requirements for the minor, indicating which courses already taken apply toward the minor. This record is thereafter maintained by the home college advisors and the minor is certified by the Associate or Assistant Dean of the home college.

Retroactive Foreign-Language Credit by Exam and Coursework

UHD’s Spanish program administers a free placement exam to all incoming students with prior knowledge of Spanish if they are interested in studying the language at UHD. Currently the placement exam is offered daily in N950, the Foreign Language Lab (please check door for schedule). If a student is placed by the exam into a course beyond SPAN 1401 and s/he earns an A or B after taking it at UHD, the student will receive a maximum of eight (8) semester credit hours with a grade of ‘CA,’ depending on the number of courses bypassed. These retroactive credits may be used as electives or as part of a student’s major or minor degree requirements. The option for earning retroactive credits from UHD is only available to students who have never taken college-level Spanish anywhere before coming to UHD. UHD’s retroactive credit may not be combined with any other means of earning free college credits in Spanish, such as through AP Spanish programs in High School (see description of earning AP credits in Spanish at UHD). No more than 24 semester credit hours of non-course-based credit may be applied to a bachelor’s degree. French also allows bypass credit for FREN 1401, subject to same conditions that apply to Spanish credit-by-exam. See the French coordinator for details.

Note that previous credit awarded via a similar procedure, for any foreign language, by Houston Community College, Lone Star College, San Jacinto College, and the University of Houston is transferable to UHD.
Minor Programs

The College of Humanities and Social Sciences offers undergraduate minors in a number of fields and subfields of the college’s disciplines. Detailed requirements for each minor, including the total number of hours required and courses eligible for the minor, are listed under the Minor Programs in the catalog sections for the department offering the minor. Prerequisites for courses to support a minor cannot be waived.

Department of Arts and Humanities
Art
Arts Administration
Communication Studies
Drama
Spanish

Department of English
Creative Writing
Digital Media
English
Professional Writing

Department of Social Sciences
History
International Politics
Military Leadership
Philosophy
Political Science
Psychology
Public Policy and Administration
Quantitative Methods in Research
Sociology

Interdisciplinary Minors
Interdisciplinary Minors offer students the opportunity to explore a subject from multiple perspectives. Courses in these minors are principally taught by faculty from the Departments of Arts and Humanities, English, and Social Sciences, with select course offerings from faculty in other colleges. Students must meet the academic Requirements for Minors described above. Prerequisites for courses to support a minor cannot be waived, and internship/field experience courses cannot be applied to these minors.

Interdisciplinary Minors Offered
Critical Race Studies
Film Studies
Gender Studies
Religious Studies
Spanish-English Professional Translation

Minor in Critical Race Studies

CRS 2301 Introduction to Critical Race Studies
CRS 4301 Critical Race Studies: Theory and Praxis
CRS 4099 Portfolio for Critical Race Studies
12 SCHs in CRS: complete 12 semester credit hours from the following list of courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 3313</td>
<td>Race, Ethnicity, and Communication</td>
</tr>
<tr>
<td>DRA 3309</td>
<td>African American Theater: History and Perspective (crosslisted as HUM 3319)</td>
</tr>
<tr>
<td>ENG 3321</td>
<td>African American Literature</td>
</tr>
<tr>
<td>ENG 3322</td>
<td>Mexican American Literature</td>
</tr>
<tr>
<td>ENG 3341</td>
<td>Postcolonial Studies</td>
</tr>
<tr>
<td>ENG 3387</td>
<td>World Literature and Culture</td>
</tr>
<tr>
<td>ENG 4324</td>
<td>Seminar in Ethnic Studies</td>
</tr>
</tbody>
</table>
ENG 4341 Seminar in Postcolonial Studies
HIST 1314 Ethnic Minorities in American History
HIST 3317 Middle Eastern History
HIST 3318 Latin American History
HIST 3322 Mexican American History
HIST 3323 African American History
HIST 3333 Antislavery Movements
HIST 4303 U.S. Women’s History
HIST 4304 History of the Old South to 1865
HIST 4305 History of the New South from 1865
HIST 4320 Slavery in the Americas
HUM 3321 Hispanic Culture and Civilization
MUS 3302 Introduction to African American Music
PHIL 3317 Philosophy of Race
PHIL 3319 Philosophy of Gender
POLS 3303 Urban politics
POLS 3312 Hispanic Politics
POLS 3314 Participants in the United States Public Policy Process
POLS 3315 Introduction to Constitutional Law
POLS 4301 The American Legal System
POLS 4307 Participation and Democracy in American Politics
POLS 4315 Education Policy and Administration
PSY 3403 African American Issues in Psychology
POLS 3409 Psychology and the Law
PSY 3414 Psychology of Prejudice
PSY 3417 Multicultural Psychology
SOC 2302 Social Problems
SOC 3304 Minorities in America
SOC 3306 Social Inequality
SOC 3315 Sex and Gender
SOC 4301 Power and Society
SOC 4305 Urban Sociology
SOC 4306 Collective Behavior and Social Movements
SOCW 3311 Urban Practice
SOCW 4331 Urban Community Organizing
SOSE 3306 Culture of the Urban School
SOSE 3310 Critical Social Studies Education
SPAN 3324 Neighbors and Trading Partners in Latin America
SPAN 3342 Hispanic Literature in the U.S.

Minor Film Studies

Charles Jackson, PhD, Coordinator
S1069, 713-221-8615

Required coursework

ENG 3354: Introduction to Film Studies

15 Upper Level SCHs: complete 15 semester credit hours from the following list of film courses:

- COMM 2305 / ART 2305 Film Appreciation
- COMM 3317 / ART 3315 Film Analysis
- ENG 3356 Early Cinema
- ENG 3357 Film Theory
- ENG 4327 Advanced Film Studies
- HUM 3327 Myth and Film
- PHIL 3355 Philosophy and Film
- SOC 4302 Sociocultural Analysis of Film
- SPAN 3385 Introduction to Hispanic Film
- XXX 4390 Any CHSS Special Topics course that focuses on film

Note: Students may petition to apply toward the minor other courses taught with a significant film studies focus. Petitions should be initiated with a college advisor.
Minor in Gender Studies

Tammis Thomas, PhD, Coordinator
S1031, 713-223-8210

Complete 9 semester credit hours from the following list of gender courses. Additional courses may be applicable to the minor, with advisor approval. At least 9 semester credit hours applied to these minor requirements must be completed at UHD:

18 SCHs in Gender Studies: Complete 18 semester credit hours from the following list of courses in gender studies:

- BIOL 4350 Social Biology
- COMM 3308 Family Communication
- COMM 3310 Women, Men, and Communication
- COMM 3316 Sex, Love, and Romance in the Mass Media
- CJ 3318 Sex Crimes
- CJ 4314 Women and the Criminal Justice System
- ENG 3350 Gender Studies in Literature
- ENG 4350 Advanced Gender Studies
- HIST 4303 US Women’s History
- HIST 4321 The Rise of Modern Women
- MGT 3307 Diversity Management
- PHIL 3319 Philosophy of Gender
- POLS 4306 Women and Politics
- PSY 3310 Psychology of Women
- PSY 4313 Psychology of Prejudice
- SOC 2303 Family in a Changing Society
- SOC 3306 Social Inequality
- SOC 3315 Sex and Gender
- SOS 2308 Human Sexuality

NOTE: Students may petition to have additional courses that have a significant gender studies component applied to this minor. Petitions should be initiated with a college advisor.

Minor in Religious Studies

Edmund Cueva, PhD, Interim Coordinator
S1009-E, 713-226-5543

Complete 18 approved semester credit hours, with at least 12 semester credit hours at the upper-level, as specified below. A total of 9 semester credit hours within this minor must be completed at UHD. Additional courses may be applicable to the minor, with advisor approval. Prerequisites cannot be waived.

3 SCHs in Comp: complete 3 semester credit hours from the following list of courses in comparative religion:
- ENG 3352 Studies in World Mythology and Folklore
- HUM 4317 World Mythology
- PHIL 3322 World Religions

3 SCHs in Adv: complete 3 semester credit hours from the following list of courses in advanced religious studies:
- ENG 3385 Studies in Religious Texts
- HUM 4314 The Old Testament
- HUM 4315 The New Testament
- HUM 4316 The Early Christian Church

12 U/L SCHs: complete 12 semester credit hours from the following list of courses:
- ART 3306 Art and Religion – Origins
- ART 3307 Art and Religion – Development
- COMM 4335 Communication and Religion
- ENG 3352 Studies in World Mythology and Folklore
ENG 3385 Studies in Religious Texts
HIST 3340 History of Religion in the United States
HUM 4314 The Old Testament
HUM 4315 The New Testament
HUM 4316 The Early Christian Church
HUM 4317 World Mythology
MUS 3301 / HUM 3331 Music in American Christianity
PHIL 3322 World Religions
PHIL 3323 Philosophy of Religion
SOC 4317 Religion in a Changing Society
SOS 3304 Death and Dying

NOTE: Students may petition to have additional courses that have a significant religious studies component applied to this minor. Petitions should be initiated with a college advisor.

Minor in Spanish-English Professional Translation
Rey Romero, PhD. Coordinator
S 1087, 713-226-5549

Common Course Requirements
SPAN 3301 Spanish Grammar and Composition
SPAN 3322 Introduction to Spanish Translation

3 SCHs in field experience: complete SPAN 4380 Field Experience. With permission of the department internship coordinator, this requirement can be substituted with COMM 4380, ENG 4380, or CJ 4380, if the field experience includes translation, interpretation, or a bilingual environment in which both English and Spanish must be used.

Tracks (9 hours)
Select from one of three possible tracks:
- 9 SCHs in medical track: complete SPAN 4320, ENG 3325, and one of the following courses: COMM 2301, or COMM 3321.
- 9 SCHs in legal track: complete SPAN 4321, ENG 3308, and one of the following courses: CJ 1301 or CJ 3304.
- 9 SCHs in general track: complete ENG 3346; one of the following: SPAN 4320 or SPAN 4321; and one of the following: ENG 3318 or ENG 3319.

Center for Critical Race Studies
The Center for Critical Race Studies (CCRS) at the University of Houston-Downtown creates an opportunity to build knowledge by bringing together the multiple identities and cultures that form our student body. Strong and effective race studies centers are essential components of any comprehensive university, and that is especially true for UHD, a Hispanic-Serving and Minority-Serving Institution that reflects the diverse population of the city at large.
713-222-5369
https://www.uhd.edu/academics/humanities/news-community/center-critical-race-studies/Pages/ccrs-index.aspx

Center for Public Deliberation
This collaborative, non-partisan Center encourages citizens to actively participate in the deliberative democracy process through public discussions about issues that affect their lives. The CPD is an affiliate of the National Issues Forums (NIF) network and partner to the Texas Forums project at the Lyndon B. Johnson Library in Austin, Texas.
713-221-8132

Cultural Enrichment Center
The Cultural Enrichment Center serves the University of Houston - Downtown through the development of programs that enrich the academic life of our community while celebrating the cultural and ethnic diversity of our students, staff, faculty, and the Houston
community at large. The Center sponsors, organizes, and supports events such as lectures, readings, performances, concerts, and exhibitions by national and international artists, writers, and public intellectuals, often partnering with academic departments and with community arts organizations such as Fotofest, Houston Poetry Fest, Inprint, Inc., and Writers in the Schools. Through our programs, we acknowledge the importance of music, art, and the written and spoken word to our academic vitality.

https://www.uhd.edu/academics/humanities/news-community/cultural-enrichment-center/Pages/cultural-enrichment-center-index.aspx

Institute for Plain English Research and Study

Founded in 2013, the Center for Plain English Research and Study serves as a virtual and physical space for interested people to meet and discuss plain language guidelines, new regulations and laws, and their effects on workplace communication. The center also offers resources, engages in research on the topic, and provides training sessions for UHD students, faculty, staff, and local professionals.

713-221-8254

https://www.uhd.edu/academics/humanities/news-community/center-plain-english-research-study/Pages/cpers-index.aspx

Department of Arts and Humanities

Edmund P. Cueva, PhD, Chair
S1009, 713-221-8104

Faculty

Professors: Baker, Cueva, Fulton, Hagen, Newsum, Roubicek
Associate Professors: Cervenka, Chiquillo, Hoang, Lawrence, Mandell, Nowak, Padilla, Rejaie, Romero, Shelley
Assistant Professors: Archiopoli, Harris, Hatfield, Hernandez, Logan, Murray, Socolof, Vela
Lecturers: Chaney, Dickson, Fedell, L. Jackson, Koenig, Mitha, Mueller, Pogue, Schlag, Secor, Wawee, M. Wilson, R. Wilson

Academic Areas: Arabic, Art, Arts Administration, Chinese, Communication Studies, Dance, Drama, French, Humanities, Music, Religious Studies, Spanish

Academic Areas
Art
Art Administration
Communication Studies
Drama
Fine Arts
Humanities
Spanish

Programs of Study
Communication Studies
Fine Arts
Humanities
Spanish

Mission and Objectives
The multiple disciplines that comprise the University of Houston-Downtown Department of Arts and Humanities and the stimulating
ethnic and cultural diversity of our faculty and students both create and reflect our commitment to the truest sense of the liberal arts. Through the excellence of our faculty in the areas of teaching, scholarship, creativity and service, our mission is to educate students to think critically so that they will then be able to use appropriate communication skills to express effectively their ideas in a variety of media. The critical, historical, and global perspective we offer in the study of languages, rhetoric, and the visual and performing arts is enhanced by courses that offer hands-on applications, including those that incorporate new technologies. Such inclusion further broadens the scope of the liberal arts tradition by taking advantage of contemporary advances to build on past wisdom while anticipating future innovations. Students who wish to pursue a general liberal course of studies may enroll in the Bachelor of Arts with a major in Humanities. Students seeking to work in the communications profession pursue the Bachelor of Arts with a major in Communication Studies. A Bachelor of Arts in Fine Arts degree prepares students for careers in the visual and performing arts industry. The department also offers a Bachelor of Arts in Spanish designed to prepare students for bilingual professions.

**Honor Societies**
Lambda Pi Eta, Communication Honor Society
Sigma Delta Pi, Spanish Honor Society

**Bachelor of Arts**

**Major in Communication Studies**

**Toni Hoang, PhD, Degree Coordinator**
S1009, 713-222-5373

Students pursuing the Bachelor of Arts in Communication Studies gain a thorough grounding in the theories, skills, and aesthetics of communication. Students learn how to be effective communicators in a variety of contexts and are equipped to become inquisitive, probing, and reflective professionals and citizens. The degree offers students a broad foundation in theory and practice, with technological application in support of its courses. Besides the core curriculum and the major requirements, the degree includes coursework in adjacent academic disciplines, such as writing and the social sciences.

**Program Learning Outcomes**
Graduates who earn a BA in Communication Studies will be able to:

- Use theories, principles, and concepts to analyze communication interactions.
- Explain the elements common to all communication contexts.
- Discuss the impact of communication in the real-world context.
- Access, interpret, and conduct research in communication studies.
- Evaluate, prepare and deliver effective oral messages using technology.

**NOTE:** Students must select one of the following four concentrations in order to complete a BA in Communication Studies: corporate communications, health communications, interpersonal communications, and rhetorical/public communications.

**Degree Requirements for Corporate Communications Concentration**

To complete a BA in Communication Studies with a concentration in Corporate Communications, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. **NOTE:** COMM 3317, COMM 4302, and COMM 4390 may be repeated once for credit if course titles and descriptions are different and are relevant to the concentration.

**Common Core Requirements**
See listing under Common Core Requirements in this catalog.

**Preparatory Requirements**
(courses in this area can be reused from the common core)
COMM 1304       Introduction to Communication (or a lower-level COMM elective if 1304 is taken in the core)
COMM 1306       Beginning Public Speaking (or a lower-level COMM elective if 1306 is taken in the core)
Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)

3 SCHs in Fine Arts: complete 3 semester credit hours in Art, Dance, Music, or any other Fine Arts discipline, including crosslisted equivalents.

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

3 SCHs in social science: complete 3 semester credit hours in Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Social Science (SOS rubric).

Major Requirements
ENG 3302 Business and Technical Report Writing
COMM 3314 Research in Communication Studies
COMM 3320 Communication Theory
COMM 3306 Business and Professional Speech Communication
COMM 3309 Theory and Practice of Interviewing
COMM 3340 Communication and Leadership
COMM 4310 Communication in the Organization
COMM 4330 Communication Training and Development

15 upper-level SCHs: complete 15 semester credit hours, with at least 6 semester credit hours from:
COMM 3301
COMM 3303
COMM 3304
COMM 3305
COMM 3311
COMM 3312
COMM 3315
COMM 3318
COMM 3319
COMM 3399 (no more than 3 SCHs)
COMM 4301
COMM 4302
COMM 4380 (no more than 6 SCHs)
COMM 4390

and at most, 9 semester credit hours from:
DRA 3325
ENG 3330
ENG 3335
ENG 3336
PSY 3301
SOC 4308

COMM 4098 Capstone Portfolio

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the courses listed in the above areas, totals 120 semester credit hours.

Degree Requirements for Health Communications Concentration

To complete a BA in Communication Studies with a concentration in Health Communications, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note that COMM 3317, COMM 4302, and COMM 4390 may be repeated once for credit if course titles and descriptions are different and are relevant to the concentration.
Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area can be reused from the common core)
COMM 1304 Introduction to Communication (or a lower-level COMM elective if 1304 is taken in the core)
COMM 1306 Beginning Public Speaking (or a lower-level COMM elective if 1306 is taken in the core)
COMM 2301 Introduction to Health Communication

Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in Fine Arts: complete 3 semester credit hours in Art, Dance, Music, or any other Fine Arts discipline, including crosslisted equivalents.
6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.
3 SCHs in social science: complete 3 semester credit hours in Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Social Science (SOS rubric).

Major Requirements
ENG 3302 Business and Technical Report Writing
COMM 3314 Research in Communication Studies
COMM 3320 Communication Theory
30 upper-level SCHs: complete a total of 30 semester credit hours in which:
21 semester credit hours are from the following
COMM 3308
COMM 3310
COMM 3313
COMM 3315
COMM 3318
COMM 3321
COMM 3323
COMM 3328
COMM 3330
COMM 3340
COMM 3399 (no more than 3 semester credit hours)
COMM 4301
COMM 4302
COMM 4310
COMM 4325
COMM 4330
COMM 4380 (may be taken 2 times for 6 semester credit hours)
COMM 4390
and no more 9 semester credit hours from
ANTH 3313
HUM 3310/ENG 3340
ENG 3323
PHIL 3301
PSY 3310
PSY 3312
PSY 3319
PSY 4310
PSY 4316
SOC 3309
SOC 4318
SOCW 3361
SOCW 3362
SOS 3304
Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the courses listed in the above areas, totals 120 semester credit hours.

**Degree Requirements for Interpersonal Communications Concentration**

To complete a BA in Communication Studies with a concentration in Interpersonal Communications, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note that COMM 3317, COMM 4302, and COMM 4390 may be repeated once for credit if course titles and descriptions are different and are relevant to the concentration.

**Common Core Requirements**
See listing under Common Core Requirements in this catalog.

**Preparatory Requirements**
(courses in this area can be reused from the common core)
COMM 1304  Introduction to Communication (or a lower-level COMM elective if 1304 is taken in the core)
COMM 1306  Beginning Public Speaking (or a lower-level COMM elective if 1306 is taken in the core)
COMM 2309  Interpersonal Communication

**Additional Preparatory Requirements**
(courses in this area cannot be reused from the common core)

3 SCHs in Fine Arts: complete 3 semester credit hours in Art, Dance, Music, or any other Fine Arts discipline, including crosslisted equivalents.

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

3 SCHs in social science: complete 3 semester credit hours in Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Social Science (SOS subject code).

**Major Requirements**
COMM 3314  Research in Communication Studies.
COMM 3320  Communication Theory.

30 upper-level SCHs: complete a total of 30 semester credit hours in which:
15-24 semester credit hours are from
COMM 3308
COMM 3309
COMM 3310
COMM 3316
COMM 3319
COMM 3328
COMM 3330
COMM 4390,
and 6-15 semester credit hours are from
COMM 3313
COMM 3315
COMM 3317
COMM 3321
COMM 3399 (no more than 3 semester credit hours)
COMM 4380 (no more than 6 semester credit hours)
COMM 4390.

Students may also apply up to 9 semester credit hours of this requirement from the following courses
ENG 3340
PHIL 3317
PHIL 3319
PSY 3310
PSY 4315
SOC 3304
SOC 3315
SOCW 3361
SOCW 3362
SOS 3304
COMM 4098 Capstone Portfolio.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above required courses, totals 120 semester credit hours.

Degree Requirements for Rhetorical/Public Communication Concentration

To complete a BA in Communication Studies with a concentration in Rhetorical/Public Communications, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note that COMM 3317, COMM 4302, and COMM 4390 may be repeated once for credit if course titles and descriptions are different and are relevant to the concentration.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area can be reused from the common core)
COMM 1304 Introduction to Communication (or a lower-level COMM elective if 1304 is taken in the core)
COMM 1306 Beginning Public Speaking (or a lower-level COMM elective if 1306 is taken in the core)

3 lower-level SCHs in COMM: complete 3 semester credit hours in COMM at the 13XX or 23XX level.

Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in Fine Arts: complete 3 semester credit hours in Art, Dance, Music, or any other Fine Arts discipline, including crosslisted equivalents.
6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.
3 SCHs in social science: complete 3 semester credit hours in Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Social Science (SOS rubric).

Major Requirements
COMM 3314: Research in Communication Studies.
COMM 3320: Communication Theory.
COMM 4098: Capstone Portfolio

30 upper-level SCHs in COMM: complete a total of 30 semester credit hours in which 15 semester credit hours from:
COMM 3303
COMM 3304
COMM 3305
COMM 3307
COMM 3311
COMM 3312
COMM 3317
COMM 3318
COMM 3319
COMM 3325
COMM 4301
COMM 4302
COMM 4315
COMM 4324
COMM 4325
COMM 4335
COMM 4380 (no more than 6 semester credit hours)

And 15 hours of additional coursework, including any courses from the previous list plus at least 6 semester credit hours from:

COMM 3306
COMM 3308
COMM 3309
COMM 3310
COMM 3313
COMM 3315
COMM 3316
COMM 3321
COMM 3323
COMM 3328
COMM 3330
COMM 3340
COMM 3399 (no more than 3 semester credit hours)
COMM 4310
COMM 4330
COMM 4380 (no more than 6 semester credit hours)
COMM 4390

And no more than 9 hours from the following:

ENG 3316
ENG 3317
ENG 3354
ENG 3356
ENG 3357
PHIL 3355
PHIL 3360 (No longer offered at UHD)
POLS 3300
POLS 3301
POLS 3302
POLS 3307
POLS 3311
SOC 4301
SOC 4302
SOC 4310
SOC 4331
SPAN 3320
SPAN 3385
ENG 3340/HUM 3310

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so the student’s entire coursework, including the courses listed in the above areas, totals 120 semester credit hours.

Bachelor of Arts

Major in Fine Arts

Azar Rejaie, PhD, Coordinator
S1081, 713-222-5300

The courses that form the core of the Fine Arts degree develop students’ skills and cultural knowledge in ways appropriate to
success in any number of fine arts institutions, including fine arts non-profit organizations; fine arts administration positions; gallery, museum or fine arts foundation work; fine arts journals or publications; fine arts consulting; or graduate school in art history, music history, drama history or liberal studies. Students with the degree in Fine Arts will complement their fine arts study by fulfilling a concentration in one of the fields of the fine arts - art, music, or drama - that suits their professional goals. They will also complete a field experience in that concentration area to provide practical experience and to encourage networking that can lead to employment after graduation. Students will exit the program with a portfolio of their work that may be used when seeking employment.

Program Learning Outcomes
Graduates who earn a BA in Fine Arts will be able to:

- Describe the historical and stylistic development of one of the fine arts.
- Express ideas through one or more non-written media or performance.
- Use basic design and graphic software suitable for producing posters, brochures, ads and postcards.
- Effectively write about the significance of humanities and fine arts products and performances.

Degree Requirements

To complete a BA in Fine Arts, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note, for this major, two courses in preparatory or upper-level Fine Arts coursework must be performance or studio courses. Visual Art Studio courses include Design and Materials, Design Color and Structure, Drawing I, Drawing II, Figure Drawing, Intro to Digital Photography, Painting I, Painting II, Watercolor Painting I, Watercolor Painting II, and certain Special Topics courses. Drama Studio courses include Acting I, Acting II, Stage Design, Stagecraft, Advanced Stagecraft, Stage Directing, Theatre Skills and certain Special Topics courses. Music Studio courses include classes in Voice Performance, Choral Ensemble, Piano, and Guitar.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)

3 SCHs in ethics: complete 3 semester credit hours of Philosophy excluding PHIL 2384, PHIL 3384, and PHIL 4098.
ART 1307 Computer Graphic Design.
ACC 1301 Accounting for Non-Business Majors.
12 SCHs in Fine Arts: complete 3 semester credit hours of Art; 3 semester credit hours of Drama; 3 semester credit hours of Music; and 3 additional hours from Art, Drama, or Music.
9 SCHs in foreign language/culture: complete at least 6 semester credit hours in a single Foreign Language and 3 additional semester credit hours in the same language or a culture course from the following list: COMM 2307, ENG 3322; HIST 1314, HUM 3319, HUM 3320, HUM 3321.

Major Requirements

ART 3305 Advanced Computer Graphics.
HUM 3310 Cultural Criticism.
HUM 3325 Arts Administration (crosslisted with ART 3325, MUS 3325, & DRA 3325).
HUM 4380 Field Experience, related to the concentration area.
MGT 3301 Management of Organizations.
MKT 3301 Principles of Marketing.
3 SCHs in writing: complete 3 semester credit hours from the following:
ENG 3302 Business and Technical Report Writing
ENG 3326 Proposal Writing
ENG 3333 Writing for the Media
ENG 3334 Writing for Presentation
ENG 3336 Writing for the Web
ENG 3342 Organizational Publications
ENG 3371 Public Relations Writing
COMM 3311 Advanced Media Studies
COMM 3312 Advanced Presentation Concepts.
9 SCHs in Concentration: complete 9 semester credit hours at the 33XX or 43XX level in a single Fine Arts discipline (ART, DRA, or MUS).
9 SCHs in Fine Arts: complete 3 semester credit hours from each Fine Arts discipline (ART, DRA, and MUS) for a total of 9 semester credit hours.

HUM 4098 Portfolio.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.

Bachelor of Arts
Major in Humanities

Kirk Hagen, PhD, Coordinator
S1027, 713-221-8116

The study of the humanities is an investigation of human institutions and artistic achievement, the values embodied in those institutions and works, and the range of aesthetic and philosophic responses to the human condition. The Bachelor of Arts in Humanities program gives a student experience with literature, philosophic writings, the history of human culture, and the performing and visual arts, as well as a framework for critical consideration of cultural values and their expression in institutions, literature and the fine arts.

Program Learning Outcomes
Graduates who earn a BA in Humanities will:

• Identify and discuss the major intellectual trends in the humanities, including arts, music, literature, science, philosophy, theology, and politics.
• Identify and discuss the historical and cultural contexts in which great artistic and/or literary works
• Identify and discuss why important intellectual traditions are relevant in the 21st century.
• Write effectively to include appropriate use of English syntax and semantics, cogent reasoning and rebuttal skills, cohesiveness of expression and effective argument.

To complete a BA in Humanities, students must satisfy the "Requirements for CHSS Majors" and fulfill the coursework listed below. Students who pursue a Bachelor of Arts degree in Humanities will select one of four tracks as an area of concentration:

• Cultural Studies*: The investigation and appreciation of the major intellectual trends of humanity, including the literature, the fine arts, politics and philosophy, and science.
• Critical Race Studies: A program that facilitates an interdisciplinary, academic study of the way various forms of racism contribute to develop and maintain cultural, social, institutional, and legal power structures which marginalize members of various and often intersecting populations
• Latino Studies: The Latino Studies program explores the linguistic, cultural, sociopolitical, historical, artistic, and literary elements that constitute the Latino, Hispanic, and Latin American experiences.
• Religious Studies: The study of Western and World religions and theology as preparation for careers in ministry, pastoral counseling, non-profit work, or other faith-based professions.

*The Cultural Studies concentration is available as an online and a face-to-face degree.

The B.A. in Humanities requires 30 to 33 hours of electives, depending on the area of specialization. In selecting electives, students should make sure they choose courses that will fulfill the prerequisites for the preparatory courses and the courses in the area of concentration.
Requirements for Humanities Degree with a Concentration in Cultural Studies

To complete a BA in Humanities, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)

3 SCHs in cultural criticism: complete HUM 3310 or ENG 3340 (NB: prerequisites include a course in literature and a course in philosophy).

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

6 SCHs in world culture: complete 6 additional semester credit hours from foreign languages (such as SPAN or FREN) or choose from the following culture courses:

- ART 3311 Survey of Asian Art (crosslisted as HUM 3311)
- ART 3335 Ancient Near Eastern Art & Archaeology (crosslisted as HUM 3335)
- ART 3336 Greek Art & Archaeology. (crosslisted as HUM 3336)
- COMM 2307 Intercultural Communication
- ENG 3387 Studies in World Literature and Culture
- HIST 2315 Introduction to World History I
- HIST 2316 Introduction to World History II
- HIST 3308 History of Mexico
- HIST 3310 20th Century Russia
- HIST 3317 Middle Eastern History
- HIST 3318 Latin American History
- HUM 3320 Foreign Language Literature in Translation
- HUM 3321 Hispanic Culture and Civilization
- HUM 4317 World Mythology
- MUS 3305 World Musics
- MUS 3333 History of Hispanic Music (crosslisted as HUM 3333)
- POLS 4308 East and Southeast Asian Politics
- POLS 4316 Politics of the Middle East
- SPAN 3340 Introduction to Hispanic Literature
- SPAN 3385 Introduction to Hispanic Film

Major Requirements for Culture Concentration
(Check the catalog for prerequisites for upper-level courses. No more than 18 hours may be taken in any one discipline.)

15 single discipline upper-level SCHs: complete 15 SCHs in a single discipline from the following list:
- ART, COMM, DRA, ENG, HIST, HUM, MUS, PHIL, RELS, or SPAN.

15 upper-level SCHs: complete 15 SCHs from any of the following disciplines: ART, COMM, DRA, ENG, HIST, HUM, MUS, PHIL, RELS, or SPAN.

HUM 4089: Portfolio

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.
Requirements for Humanities Degree with a Concentration in Critical Race Studies

To complete a BA in Humanities, students must satisfy the "Requirements for CHSS Majors" and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)

3 SCHs in cultural criticism: complete HUM 3310 or ENG 3340 (NB: prerequisites includes 3 SCHs in literature and 3 SCHs in philosophy).

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

6 SCHs in world culture: complete 6 additional semester credit hours from foreign languages (such as SPAN or FREN) or choose from the following culture courses:

- ART 3311 Survey of Asian Art (crosslisted as HUM 3311)
- ART 3335 Ancient Near Eastern Art & Archaeology (crosslisted as HUM 3335)
- ART 3336 Greek Art & Archaeology. (crosslisted as HUM 3336)
- COMM 2307 Intercultural Communication
- ENG 3387 Studies in World Literature and Culture
- HIST 2315 Introduction to World History I
- HIST 2316 Introduction to World History II
- HIST 3308 History of Mexico
- HIST 3310 20th Century Russia
- HIST 3317 Middle Eastern History
- HIST 3318 Latin American History
- HUM 3320 Foreign Language Literature in Translation
- HUM 3321 Hispanic Culture and Civilization
- HUM 4317 World Mythology
- MUS 3305 World Musics.
- MUS 3333 History of Hispanic Music (crosslisted as HUM 3333)
- POLS 4308 East and Southeast Asian Politics
- POLS 4316 Politics of the Middle East
- SPAN 3340 Introduction to Hispanic Literature
- SPAN 3385 Introduction to Hispanic Film

Major Requirements
(Check the catalog for prerequisites for upper-level courses. No more than 18 hours may be taken in any one discipline.)

- CRS 2301 An Introduction to Critical Race Studies
- CRS 4301 Critical Race Studies Theory & Praxis

9 SCHs in Racial Construction: Complete at least 9 semester credit hours from the following list of racial construction courses:

- COMM 3313 Race, Ethnicity, and Communication
- DRA 3309/HUM 3319 African American Theater: History and Perspective
- ENG 3321 African American Literature
- ENG 3322 Mexican American Literature
- ENG 3341 Postcolonial Studies
- ENG 3387 World Literature and Culture
- ENG 4324 Seminar in Ethnic Studies
- ENG 4341 Seminar in Postcolonial Studies
- HIST 2309 Ethnic Minorities in American History
- HIST 3317 Middle Eastern History
- HIST 3318 Latin American History
HIST 3322  Mexican American History
HIST 3323  African American History
HIST 4320  Slavery in the Americas
HUM 3321  Hispanic Culture and Civilization
MUS 3302  Introduction to African American Music
PHIL 3317  Philosophy of Race
POLS 4308  East and Southeast Asian Politics
POLS 4318  Politics of the Middle East
PSY  4303  African American Issues in Psychology
PSY  4314  Psychology of Prejudice
PSY  4317  Multicultural Psychology
SOC  3304  Minorities in America
SPAN 3342  Hispanic Literature in the US

3 SCHs in Gender and Sexuality: complete at least 3 semester credit hours from the following list of gender and sexuality courses:

COM 3310  Men, Women and Communications
ENG 3350  Gender Studies in Literature
ENG 4350  Advanced Gender Studies
HIST 4303  US Women’s History
PHIL 3319  Philosophy of Gender
SOC 3315  Sex and Gender

6 SCHs in Structural Inequality: complete at least 6 semester credit hours from the following list of structural inequality courses:

POLS 3303  Urban Politics
POLS 3312  Hispanic Politics
POLS 3314  Participants in the United States Public Policy Process
POLS 4301  The American Legal System
POLS 4307  Participation and Democracy in American Politics
POLS 4315  Education Policy and Administration
SOC 2302  Social Problems
SOC 3306  Social Inequality
SOC 4305  Urban Sociology
SOC 4306  Collective Behavior and Social Movements
SOCW 3311  Urban Practice
SOCW 4331  Urban Community Organizing
SOSE 3306  Culture of the Urban School
SOSE 3310  Critical Social Studies Education
SPAN 3324  Neighbors and Trading Partners in Latin America

6 Upper-Level SCHs: complete 6 upper-level semester credit hours from any of the following clusters (non-repeatable from above)

Racial Construction Cluster:

COMM 3313  Race, Ethnicity, and Communication
DRA 3309/HUM 3319  African American Theater: History and Perspective
ENG 3321  African American Literature
ENG 3322  Mexican American Literature
ENG 3341  Postcolonial Studies
ENG 3387  World Literature and Culture
ENG 4324  Seminar in Ethnic Studies
ENG 4341  Seminar in Postcolonial Studies
HIST 2309  Ethnic Minorities in American History
HIST 3317  Middle Eastern History
HIST 3318  Latin American History
HIST 3322  Mexican American History
HIST 3323  African American History
HIST 4320  Slavery in the Americas
HUM 3321  Hispanic Culture and Civilization
MUS 3302  Introduction to African American Music
PHIL 3317  Philosophy of Race

112
POLS 4308  East and Southeast Asian Politics
POLS 4318  Politics of the Middle East
PSY 4303  African American Issues in Psychology
PSY 4314  Psychology of Prejudice
PSY 4317  Multicultural Psychology
SOC 3304  Minorities in America
SPAN 3342  Hispanic Literature in the US

Gender and Sexuality Cluster:
COM 3310  Men, Women and Communications
ENG 3350  Gender Studies in Literature
ENG 4350  Advanced Gender Studies
HIST 4303  US Women's History
PHIL 3319  Philosophy of Gender
SOC 3315  Sex and Gender

Structural Inequality
POLS 3303  Urban Politics
POLS 3312  Hispanic Politics
POLS 3314  Participants in the United States Public Policy Process
POLS 4301  The American Legal System
POLS 4307  Participation and Democracy in American Politics
POLS 4315  Education Policy and Administration
SOC 2302  Social Problems
SOC 3306  Social Inequality
SOC 4305  Urban Sociology
SOC 4306  Collective Behavior and Social Movements
SOCW 3311  Urban Practice
SOCW 4331  Urban Community Organizing
SOSE 3306  Culture of the Urban School
SOSE 3310  Critical Social Studies Education
SPAN 3324  Neighbors and Trading Partners in Latin America

Government and the Law Cluster
POLS 3315  Introduction to Constitutional Law
POLS 4301  The American Legal System
POLS 4307  Participation and Democracy in American Politics
PSY 4309  Psychology and the Law
SOC 4301  Power and Society
SOC 4305  Urban Sociology
SOC 4306  Collective Behavior and Social Movements

HUM 4089: Portfolio

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.

Requirements for Humanities Degree with a Concentration in Latino Studies

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in cultural criticism: complete HUM 3310 or ENG 3340 (NB: prerequisites includes 3 SCHs in literature and 3 SCHs in philosophy).

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

6 SCHs in world culture: complete 6 additional semester credit hours from foreign languages (such as SPAN or FREN) or choose from the following culture courses:

- ART 3311 Survey of Asian Art (crosslisted as HUM 3311)
- ART 3335 Ancient Near Eastern Art & Archaeology (crosslisted as HUM 3335)
- ART 3336 Greek Art & Archaeology (crosslisted as HUM 3336)
- COMM 2307 Intercultural Communication
- ENG 3387 Studies in World Literature and Culture
- HIST 2315 Introduction to World History I
- HIST 2316 Introduction to World History II
- HIST 3308 History of Mexico
- HIST 3310 20th Century Russia
- HIST 3317 Middle Eastern History
- HIST 3318 Latin American History
- HUM 3320 Foreign Language Literature in Translation
- HUM 3321 Hispanic Culture and Civilization
- HUM 4317 World Mythology
- MUS 3305 World Musics
- MUS 3333 History of Hispanic Music (crosslisted as HUM 3333)
- POLS 4308 East and Southeast Asian Politics
- POLS 4316 Politics of the Middle East
- SPAN 3340 Introduction to Hispanic Literature
- SPAN 3385 Introduction to Hispanic Film

Major Requirements

(Check the catalog for prerequisites for upper-level courses. No more than 18 hours may be taken in any one discipline.)

3 SCHs in Lit and Culture: complete at least 3 semester hours from the following list of literature and culture courses:

- ENG 3322 Mexican-American Literature
- ENG 3346 Introduction to Literary Translation
- ENG 3352 Studies in World Mythology and Folklore
- HUM 3321 Hispanic Culture and Civilization
- HUM 3333 History of Hispanic Music
- SPAN 3324 Neighbors and Trading Partners: People, Culture and Trade in Spanish America
- SPAN 3340 Introduction to Hispanic Literature
- SPAN 3342 Hispanic Literature in the U.S.
- SPAN 3380 Culture and Civilization of Spain
- SPAN 3385 Introduction to Hispanic Film
- SPAN 4320 Medical Spanish
- SPAN 4321 Legal Spanish
- SPAN 4340 Survey of Spanish Literature from the Middle Ages to 1700
- SPAN 4342 Survey of Spanish American Literature from Columbus to Independence
- SPAN 4343 Survey of Spanish American Literature from Modernismo to the Present

3 SCHs in Hist: complete at least 3 semester credit hours from the following list of history courses:

- HIST 3308 History of Mexico
- HIST 3318 Latin American History
- HIST 3322 Mexican-American History
- HIST 4320 Slavery in the Americas
3 SCHs in SOS: complete at least 3 semester credit hours from the following list of social science courses:

- COMM 3313  Race, Ethnicity and Communication
- POLS 3312  Hispanic Politics
- POLS 4322  Geopolitics of the Americas
- PSY 4317  Multicultural Psychology
- SOC 3304  Minorities in America

24 upper-level SCHs: complete 24 upper-level semester credit hours from any of the following clusters (non-repeatable from above):

**Literature and Culture Cluster**
- ENG 3322  Mexican-American Literature
- ENG 3346  Introduction to Literary Translation
- ENG 3352  Studies in World Mythology and Folklore
- HUM 3321  Hispanic Culture and Civilization
- HUM 3333  History of Hispanic Music
- SPAN 3324  Neighbors and Trading Partners: People, Culture and Trade in Spanish America
- SPAN 3340  Introduction to Hispanic Literature
- SPAN 3342  Hispanic Literature in the U.S.
- SPAN 3380  Culture and Civilization of Spain
- SPAN 3385  Introduction to Hispanic Film
- SPAN 4320  Medical Spanish
- SPAN 4321  Legal Spanish
- SPAN 4340  Survey of Spanish Literature from the Middle Ages to 1700
- SPAN 4342  Survey of Spanish American Literature from Columbus to Independence
- SPAN 4343  Survey of Spanish American Literature from Modernismo to the Present

**History Cluster**
- HIST 3308  History of Mexico
- HIST 3318  Latin American History
- HIST 3322  Mexican-American History
- HIST 4320  Slavery in the Americas

**Social Science Cluster**
- COMM 3313  Race, Ethnicity and Communication
- POLS 3312  Hispanic Politics
- POLS 4322  Geopolitics of the Americas
- PSY 4317  Multicultural Psychology
- SOC 3304  Minorities in America

HUM 4089: Portfolio

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.

**Requirements for Humanities Degree with a Concentration in Religious Studies**
To complete a BA in Humanities, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

**Common Core Requirements**
See listing under Common Core Requirements in this catalog.

**Preparatory Requirements**
(courses in this area cannot be reused from the common core)

**3 SCHs in cultural criticism:** complete HUM 3310 or ENG 3340 (NB: prerequisites includes 3 SCHs in literature and 3 SCHs in philosophy).

**6-8 SCHs of foreign language:** complete 6-8 semester credit hours in the same foreign language. Semester credit hours are
contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

6 SCHs in world culture: complete 6 additional semester credit hours from foreign languages (such as SPAN or FREN) or choose from the following culture courses:

- **ART 3311** Survey of Asian Art (crosslisted as HUM 3311)
- **ART 3335** Ancient Near Eastern Art & Archaeology (crosslisted as HUM 3335)
- **ART 3336** Greek Art & Archaeology. (crosslisted as HUM 3336).
- **COMM 2307** Intercultural Communication
- **ENG 3387** Studies in World Literature and Culture
- **HIST 2315** Introduction to World History I
- **HIST 2316** Introduction to World History II
- **HIST 3308** History of Mexico
- **HIST 3310** 20th Century Russia
- **HIST 3317** Middle Eastern History
- **HIST 3318** Latin American History
- **HUM 3320** Foreign Language Literature in Translation
- **HUM 3321** Hispanic Culture and Civilization
- **HUM 4317** World Mythology
- **MUS 3305** World Musics.
- **MUS 3333** History of Hispanic Music (crosslisted as HUM 3333)
- **POLS 4308** East and Southeast Asian Politics
- **POLS 4316** Politics of the Middle East
- **SPAN 3340** Introduction to Hispanic Literature
- **SPAN 3385** Introduction to Hispanic Film

**Major Requirements**

(Check the catalog for prerequisites for upper-level courses. No more than 18 hours may be taken in any one discipline.)

15 SCHs in RELS: complete at least 15 semester credit hours in religious studies:

- **RELS 3301** Music in American Christianity (cross listed as HUM 3331)
- **RELS 3306** Art and Religion - Origins (cross listed as HUM 3305, ART 3306)
- **RELS 3307** Art and Religion - Developments (cross listed as HUM 3307, ART 3307)
- **RELS 4355** Religious Communications (cross listed as COMM 4335)
- **RELS 4314** The Old Testament (cross listed as HUM 4315)
- **RELS 4315** The New Testament (cross listed as HUM 4318)
- **RELS 4316** The Early Christian Church (cross listed as HUM 4316)
- **RELS 4317** World Mythology (cross listed as HUM 4317)

15 upper-level SCHs: complete 15 semester credit hours from the following list of upper level courses (non-repeatable from above):

- **RELS 3301** Music in American Christianity (cross listed as HUM 3331)
- **RELS 3306** Art and Religion - Origins (cross listed as HUM 3305, ART 3306)
- **RELS 3307** Art and Religion - Developments (cross listed as HUM 3307, ART 3307)
- **RELS 4355** Religious Communications (cross listed as COMM 4335)
- **RELS 4314** The Old Testament (cross listed as HUM 4315)
- **RELS 4315** The New Testament (cross listed as HUM 4318)
- **RELS 4316** The Early Christian Church (cross listed as HUM 4316)
- **RELS 4317** World Mythology (cross listed as HUM 4317)
- **ENG 3352** Studies in World Mythology and Folklore
- **ENG 3385** Studies in Religious Texts
- **HIST 3340** History of Religion in the United States
- **PHIL 3222** World Religious
- **PHIL 3323** Philosophy of Religion
- **SOC 4317** Religion in a Changing Society
- **SOC 3304** Death and Dying

**HUM 4089:** Portfolio
Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.

Bachelor of Arts
Major in Spanish
William J. Nowak, PhD, Coordinator
S1009, 713-221-8673

The Bachelor of Arts degree in Spanish is designed especially for professionals and encourages the integration of Spanish language studies as an essential component of professional development. Students will complete a concentration in a field of academic study that suits their professional goals as well as an internship in which the use of Spanish is required. By combining the academic study of Spanish language and culture with the professional world, students will be well positioned for employment opportunities in which bilingualism is an asset.

Program Learning Outcomes
Graduates who earn a BA in Spanish will be able to:
• Write a business letter in Spanish.
• Analyze the historical and literary context of a key Hispanic author or film director, producing a brief written explanation of that author’s or director’s importance.
• Deliver clear and comprehensible oral presentations in academic Spanish, using PowerPoint.
• Engage in and understand professional-level conversations in Spanish.
• Recognize at least three regional variants of spoken Spanish.
• Write an eight-page (minimum) research paper, producing a coherent argument to analyze a complex situation or phenomenon. Proper MLA citation of sources, including at least three in Spanish, is required.

Degree Requirements
To complete a BA in Spanish, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Students bypassing foreign language classes because of placement must make up those hours in another foreign language or in Hispanic Culture courses. Courses that award semester credit hours in excess of 3 for any foreign language course may be applied toward a free elective. Graduating seniors must submit a portfolio of five of their best written assignments, chosen from work completed in several of their upper-level Spanish courses at UHD.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in writing: complete 3 semester credit hours from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3302</td>
<td>Business and Technical Report Writing</td>
</tr>
<tr>
<td>ENG 3304</td>
<td>Advanced Business and Technical Report Writing</td>
</tr>
<tr>
<td>ENG 3305</td>
<td>Essay Writing</td>
</tr>
<tr>
<td>ENG 3308</td>
<td>Legal Writing</td>
</tr>
<tr>
<td>ENG 3309</td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td>ENG 3325</td>
<td>Medical Writing</td>
</tr>
<tr>
<td>ENG 3326</td>
<td>Proposal Writing</td>
</tr>
<tr>
<td>ENG 3329</td>
<td>Environmental Writing</td>
</tr>
<tr>
<td>ENG 3333</td>
<td>Writing for the Media</td>
</tr>
<tr>
<td>ENG 3334</td>
<td>Writing for Presentation</td>
</tr>
</tbody>
</table>
ENG 3336  Writing for the Web
ENG 3371  Public Relations Writing
ENG 4306  Science Writing

3 SCHs in ethics: complete 3 semester credit hours of Philosophy (excluding PHIL 2384, PHIL 3384, and PHIL 4098), POLS 3300, BA 3308, or CJ 3311.

3 SCHs in nonverbal analysis: complete 3 semester credit hours from:

COMM 3314  Research in Communication Studies
ENG 3319  Introduction to the Study of Language
ENG 3331  Advanced Desktop Publishing
MUS 1303  Reading Music
MUS 1304  Music Theory
PHIL 3384  Symbolic Logic
PSY 4308  East and Southeast Asia Politics
SOS 3312  Statistics in the Social Sciences
SOSE 3320  Assessment and Evaluation of Children
STAT 2300  Introduction to Statistics

or any CS, MATH, BIOL, CHEM, GEOL, MBIO, NS, or PHYS course beyond the core.

3 SCHs in SPAN 1: complete SPAN 1401 or, if bypassed through placement, another Foreign Language or a Hispanic Culture course from:

COMM 2307  Intercultural Communication
ENG 3322  Mexican-American Literature
ENG 3340  Cultural Criticism
ENG 4325  Adv. Mexican-American Studies (no longer offered)
HIST 1314  Ethnic Minorities in American History
HIST 3308  History of Mexico
HUM 2301  Foundations of Western Culture I
HUM 2302  Foundations of Western Culture II
HUM 3304  American Ethnic Heritage (no longer offered)
HUM 3307  Art and Religion-Development
HUM 3310  Cultural Criticism
HUM 3320  Foreign Language Literature in Translation
HUM 3321  Hispanic Culture and Civilization
HUM 3330  Second Language Acquisition
POLS 3312  Hispanic Politics
READ 3317  Language Arts Instruction for the Bilingual/ESL Classroom
SOC 3304  Minorities in America

or any upper-level SPAN

3 SCHs in SPAN 2: complete SPAN 1402 or, if bypassed through placement, another Foreign Language or a Hispanic Culture course from:

COMM 2307  Intercultural Communication
ENG 3322  Mexican-American Literature
ENG 3340  Cultural Criticism
ENG 4325  Adv. Mexican-American Studies (no longer offered)
HIST 1314, 3308  Ethnic Minorities in American History; History of Mexico
HUM 2301  Foundations of Western Culture I
HUM 2302  Foundations of Western Culture II
HUM 3304  American Ethnic Heritage (no longer offered)
HUM 3307  Art and Religion-Development
HUM 3310  Cultural Criticism
HUM 3320  Foreign Languages Literature in Transition
HUM 3321  Hispanic Culture and Civilization
HUM 3330  Second Language Acquisition
POLS 3312  Hispanic Politics
READ 3317  Language Arts Instruction for the Bilingual/ESL Classroom
SOC 3304  Minorities in America

or any upper-level SPAN
6 SCHs in intermediate SPAN: complete 6 semester credit hours from SPAN 2301 and SPAN 2302; or SPAN 2311 and SPAN 2312; or 6 semester credit hours from any 33XX or 43XX level Spanish courses; or if intermediate Spanish is bypassed due to placement at a higher level, 6 semester credit hours from the following list of courses:

- another elementary-level Foreign Language,
- COMM 2307 Intercultural Communication
- ENG 3322 Mexican-American Literature
- ENG 3340 Cultural Criticism
- ENG 4325 Adv. Mexican-American Studies (no longer offered)
- HIST 1314 Ethnic Minorities in American History
- HIST 3308 History of Mexico
- HUM 2301 Foundations of Western Culture I
- HUM 2302 Foundations of Western Culture II
- HUM 3304 American Ethnic Heritage (no longer offered)
- HUM 3307 Art and Religion-Development
- HUM 3310 Cultural Criticism
- HUM 3320 Foreign Languages Literature in Transition
- HUM 3321 Hispanic Culture and Civilization
- HUM 3330 Second Language Acquisition
- POLS 3312 Hispanic Politics

Major Requirements

SPAN 3301 Advanced Spanish Grammar and Composition
SPAN 3302 Professional Writing
SPAN 3320 Professional Oral Communication

15 upper-level SCHs: complete 15 upper-level semester credit hours in Spanish

SPAN 4098 Spanish Portfolio.
SPAN 4380 Field Experience in Spanish

Supplemental Concentration

18 SCHs in Concentration: complete 18 semester credit hours, including at least 9 upper-level semester credit hours, in one single discipline or area of study.

Free Electives

Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the above required courses, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

Minor Programs

Students seeking minors in CHSS must maintain a grade point average for all courses taken at UH-Downtown of at least 2.0, receive a grade of C or better in all courses applied toward the minor, and must meet all requirements of the chosen minor, including prerequisites for courses taken toward the minor. For all minor programs in the Department of Arts and Humanities except Spanish, no more than 3 semester credit hours of internship/field experience coursework are permitted. SPAN 4380 may not apply toward the minor in Spanish.

Minor in Art

Students may focus on studio art or art history in their minor. See a CHSS advisor for sample plans.

18 SCHs in ART: complete eighteen semester credit hours in Art (or crosslisted HUM courses), including at least 6 semester credit hours at the 33XX or 43XX level.

HUM 4098: Portfolio

NOTE: 12 of the 18 required hours, including the required 6 upper-level semester credit hours, must be taken at UHD.

Minor in Arts Administration

ACC 2301 Financial Accounting
MGT 3301 Management of Organizations
MKT 3301 Principles of Marketing
HUM 3325 Arts Administration (crosslisted with ART 3325, MUS 3325, & DRA 3325)
HUM 4380 Field Experience/Internship

3 SCHs in Fine Arts: complete 3 semester credit hours in Art, Drama, or Music (may not be repeated from the common core area).
NOTE: 12 of the 18 required semester credit hours must be taken at UHD

Minor in Communication Studies
COMM 1306 Beginning Public Speaking
9 upper-level SCHs in COMM: complete 9 semester credit hours in Communications at the 33XX or 43XX level.
9 SCHs in COMM: complete 9 semester credit hours in Communications at any level.

Minor in Drama
9 SCHs in DRA: complete 9 semester credit hours in drama at any level.
9 upper-level SCHs: complete 9 semester credit hours in Drama (DRA) at UHD.

Minor in Spanish
SPAN 3301 Spanish Grammar and Composition
6 upper-level SCHs in SPAN: complete 6 semester credit hours at the 33XX or 43XX level in Spanish, excluding SPAN 4380.

Department of English
Michelle Moosally, PhD, Chair
S1045, 713-221-8013

Faculty

Professors: Birchak, Creighton, Dahlberg, Davidson, Sullivan, Thomas
Associate Professors: Agboka, Chiaviello, Choudhuri, Cunningham, Duncan, Ellwanger, Farris, Fortunato, Jackson, Jager, Kintzele, Lund, Matveeva, Moosally, Murray, Pavletich, Robertson, Sample, Schmertz, Waters
Assistant Professors: Bjork, Dimmick, Hill, Pena, Scharold
Lecturers: Aucrter, Bradford, Feliciano, Howard, Garza, Lourence, Sanders, Seratt, Smith, Stevens, Wedes, Williams
Emeriti: Bartholomew, Dressman, Gilbert, Harned, Jennings, Levy

Academic Areas:
American Studies
Composition
Creative Writing
English
Film Studies
Professional Writing

Programs of Study
The Department of English offers a wide variety of courses designed to improve students’ communication skills and enhance their
appreciation of the literature, thought, and culture of the English-speaking world. To accomplish these goals, the department offers focused degrees and wide-ranging service courses.

- Bachelor of Arts with a major in English
- Bachelor of Science with a major in Professional Writing

**Honor Society**
Sigma Tau Delta, International English Honor Society

**Degrees**
The Bachelor of Arts with a major in English gives students grounding in the language and literature of English. This grounding makes students aware of how cultural forces shape English language and literature and how critical approaches illuminate them. The BA in English offers students a range of educational and career options on graduation, including entrance to graduate and professional schools in preparation for careers in academia and such fields as public policy, social work, and law.

The Bachelor of Science with a major in Professional Writing combines the strengths of a solid liberal arts education with practical training and technical expertise. All Professional Writing majors share a core of required upper-level courses and, beyond that core, choose from clusters of courses, and take internships. The combination of flexibility and focus in the degree enables students to prepare to enter such fields as corporate communications, web design, social media, medical writing, or computer documentation, or to continue their education in graduate or professional schools.

**Service Courses**
The English Department’s courses in writing, language, and literature support all degrees offered at the University of Houston-Downtown. In addition, courses taught by department faculty form a major component of the programs of the Bachelor of Arts in Humanities and the Bachelor of Science with a major in Interdisciplinary Studies. In all the courses it offers, the department seeks to promote cultural and technological literacy and to improve students’ critical thinking skills through analysis, interpretation, and evaluation.

**Bachelor of Arts**
**Major in English**

*Sandra L. Dahlberg*, PhD, Literature and Education Concentrations  
S1028, 713-221-8949  
*Robin Davidson*, PhD, Creative Writing Concentration  
S1075, 713-221-2716  
*Chuck Jackson*, Ph.D., Film Studies Concentration  
Room 1045-S, 713-221-8615

**Program Learning Outcomes**
Graduates who earn a BA in English will be able to:

- Read literary, cultural, and scholarly texts critically by:
  - analyzing, through close reading, the rhetorical and aesthetic qualities of texts;
  - demonstrating understanding of the characteristics, conventions, and techniques associated with various literary genres;
  - situating texts within their historical and cultural contexts;
  - demonstrating understanding of the literary traditions in U.S., British, and their national literatures; and
  - express that information orally.

- Produce mature college-level writing that:
  - advances rhetorically astute arguments about texts;
  - analyzes texts within their historical and cultural contexts;
  - applies a guiding critical methodology;
  - employs appropriate scholarly diction and tone; and
  - express orally with proficiency the above substance.
Use and document sources appropriately to:
   a) advance/enrich an argument;
   b) demonstrate engagement in critical debate; and
   c) orally communicate the process of using and citing sources including a and b above.

NOTE: The primary BA in English degree concentration centers on literary/cultural studies. Students can alternatively select one of three concentrations: the creative writing concentration; the English education concentration; and the film studies concentration.

Degree Requirements

To complete a BA in English, students must satisfy the "Requirements for CHSS Majors" and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)

6 SCHs in Literature: complete 6 semester credit hours from a single Literature survey sequence: ENG 2301/ENG 2302 (World), or ENG 2311/ENG 2312 (American), or ENG 2313/ENG 2314 (British).

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Any foreign language credit in excess of three semester credit hours may be applied to the elective area.

Major Requirements

ENG 3311 Studies in Poetry.
ENG 3312 Studies in Fiction.
ENG 3313 Studies in Dramatic Literature.

3 SCH in Pre-1800 Lit: complete ENG 3307, ENG 3322, ENG 3337, ENG 3347, ENG 3352, ENG 3358, ENG 3362, or ENG 3385.

9 SCHs in Literature/Critical Theory: complete 9 semester credit hours from the following:

ENG 3306 Introduction to Literary Theory
ENG 3307 Shakespeare
ENG 3310 Studies in Nonfiction Writing
ENG 3314 Studies in Autobiography
ENG 3315 Studies in Science Fiction
ENG 3321 African-American Literature
ENG 3322 Mexican-American Literature
ENG 3323 Technology and Literature
ENG 3337 Studies in Medieval English Literature and Culture
ENG 3340 Cultural Criticism
ENG 3341 Postcolonial Studies
ENG 3346 Introduction to Literary Translation
ENG 3347 Studies in Early Modern British Literature and Culture
ENG 3350 Gender Studies in Literature
ENG 3351 Children’s Literature
ENG 3352 Studies in World Mythology and Folklore
ENG 3353 Social Class and Literature
ENG 3354 Introduction to Film Studies
ENG 3355 Young Adult Literature
ENG 3356 Early Cinema
ENG 3357 Film Theory
ENG 3358 Studies in 18th Century British Literature and Culture
ENG 3362 Studies in the Literature and Culture of the Americas before 1800
ENG 3363 Studies in 19th Century US Literature and Culture
ENG 3364 Studies in US Literature and Culture after 1900
ENG 3367 Studies in 19th Century British Literature and Culture
ENG 3370 Theories in Collaborative Learning
ENG 3377 Studies in British Literature and Culture: 20th Century and Beyond
ENG 3385 Studies in Religious Texts
ENG 3387 Studies in World Literature and Culture
ENG 4311  Contemporary Literature
ENG 4312  Literature of the South and Southwest
ENG 4313  Psychology through Literature
ENG 4314  Major Authors
ENG 4324  Seminar in Ethnic Studies
ENG 4327  Advanced Film Studies
ENG 4330  Senior Seminar in the Humanities
ENG 4341  Seminar in Postcolonial Studies
ENG 4350  Advanced Gender Studies
ENG 4390  Topics in Language and Literature
HUM 4350  Senior Seminar in the Humanities

3 SCHs in adv. literature/theory: complete 3 semester credit hours from:
- ENG 4311  Contemporary Literature
- ENG 4312  Literature of the South and Southwest
- ENG 4313  Psychology through Literature
- ENG 4314  Major Authors
- ENG 4324  Seminar in Ethnic Studies
- ENG 4327  Advanced Film Studies
- ENG 4330  Senior Seminar in the Humanities
- ENG 4341  Seminar in Postcolonial Studies
- ENG 4350  Advanced Gender Studies
- ENG 4390  Topics in Language and Literature
- HUM 4350  Senior Seminar in the Humanities

6 SCHs in writing: complete 6 semester credit hours from:
- ENG 3302  Business and Technical Report Writing
- ENG 3304  Advanced Business and Technical Report Writing
- ENG 3305  Essay Writing
- ENG 3308  Legal Writing
- ENG 3309  Introduction to Creative Writing
- ENG 3316  History of Rhetoric
- ENG 3317  Studies in the Theory of Rhetoric
- ENG 3318  Studies in English Grammar
- ENG 3319  Introduction to the Stu
- ENG 3320  History of the English Language
- ENG 3325  Medical Writing
- ENG 3326  Proposal Writing
- ENG 3328  Documentation and Manuals
- ENG 3329  Environmental Writing
- ENG 3332  Literary Magazine Production: The Bayou Review
- ENG 3333  Writing for the Media
- ENG 3334  Writing for Presentation
- ENG 3336  Writing for the Web
- ENG 3343  Workshop in Fiction
- ENG 3344  Workshop in Poetry
- ENG 3345  Workshop in Creative Nonfiction
- ENG 3371  Public Relations Writing
- ENG 3373  Introduction to Advertising
- ENG 4306  Science Writing
- ENG 4309  Advanced Creative Writing
- ENG 4318  Advanced Studies in English Grammar and Style
- ENG 4322  Editing, Rewriting and Copyreading
- ENG 4323  Feature Writing for Business and Industry

6 upper-level SCHs: complete an additional 6 semester credit hours from the list of courses enumerated under “literature/theory” and “writing,” above and;

ENG 4098: English Portfolio.

Free Electives
Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the
above required courses, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

**Degree Requirements for Creative Writing Concentration**

To complete a BA in English with a concentration in Creative Writing, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

**Common Core Requirements**

See listing under Common Core Requirements in this catalog.

**Preparatory Lower-level Requirements**

(courses in this area cannot be reused from the common core)

**6-8 SCHs of foreign language:** complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

**3 SCHs in pre-1800 lit.:** complete 3 semester credit hours from the following choices: ENG 2301 (World), ENG 2311 (American), ENG 2313 (British).

**3 SCHs in post 1800 lit.:** complete 3 semester credit hours from the following choices: ENG 2302 (World); ENG 2312 (American), or ENG 2314 (British).

**Major Requirements**

**15 SCHs in creative writing:** complete ENG 3309 and ENG 4309; complete 6 semester credit hours from ENG 3343, ENG 3344, or ENG 3345; and complete 3 semester credit hours from ENG 3319, , ENG 3346, ENG 3399 (Directed Study in Creative Writing), DRA 3308/HUM 3326 or SPAN 3322.

**6 SCHs in genre:** complete 6 semester credit hours from ENG 3311, ENG 3312, or ENG 3313.

**12 SCHs in lit./theory:** complete 12 semester credit hours from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3306</td>
<td>Introduction to Literary Theory</td>
</tr>
<tr>
<td>ENG 3307</td>
<td>Shakespeare</td>
</tr>
<tr>
<td>ENG 3311</td>
<td>Studies in Poetry</td>
</tr>
<tr>
<td>ENG 3312</td>
<td>Studies in Fiction</td>
</tr>
<tr>
<td>ENG 3313</td>
<td>Studies in Dramatic Literature</td>
</tr>
<tr>
<td>ENG 3314</td>
<td>Studies in Autobiography</td>
</tr>
<tr>
<td>ENG 3315</td>
<td>Studies in Science Fiction</td>
</tr>
<tr>
<td>ENG 3321</td>
<td>African-American Literature</td>
</tr>
<tr>
<td>ENG 3322</td>
<td>Mexican-American Literature</td>
</tr>
<tr>
<td>ENG 3323</td>
<td>Technology and Literature</td>
</tr>
<tr>
<td>ENG 3337</td>
<td>Studies in Medieval English Literature and Culture</td>
</tr>
<tr>
<td>ENG 3339</td>
<td>Digital Media Theory</td>
</tr>
<tr>
<td>ENG 3340</td>
<td>Cultural Criticism</td>
</tr>
<tr>
<td>ENG 3341</td>
<td>Postcolonial Studies</td>
</tr>
<tr>
<td>ENG 3347</td>
<td>Studies in Early Modern British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3350</td>
<td>Gender Studies in Literature</td>
</tr>
<tr>
<td>ENG 3352</td>
<td>Studies in World Mythology and Folklore</td>
</tr>
<tr>
<td>ENG 3353</td>
<td>Social Class and Literature</td>
</tr>
<tr>
<td>ENG 3354</td>
<td>Introduction to Film Studies</td>
</tr>
<tr>
<td>ENG 3356</td>
<td>Early Cinema</td>
</tr>
<tr>
<td>ENG 3357</td>
<td>Film Theory</td>
</tr>
<tr>
<td>ENG 3358</td>
<td>Studies in 18th Century British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3362</td>
<td>Studies in the Literature and Culture of the Americas before 1800</td>
</tr>
<tr>
<td>ENG 3363</td>
<td>Studies in 19th Century US Literature and Culture</td>
</tr>
<tr>
<td>ENG 3364</td>
<td>Studies in US Literature and Culture after 1900</td>
</tr>
<tr>
<td>ENG 3367</td>
<td>Studies in 19th Century British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3377</td>
<td>Studies in British Literature and Culture: 20th Century and Beyond</td>
</tr>
</tbody>
</table>
ENG 3387  Studies in World Literature and Culture
ENG 4311  Contemporary Literature
ENG 4312  Literature of the South and Southwest
ENG 4313  Psychology through Literature
ENG 4314  Major Authors
ENG 4324  Seminar in Ethnic Studies
ENG 4327  Advanced Film Studies
ENG 4341  Seminar in Postcolonial Studies
ENG 4350  Advanced Gender Studies

3 SCHs in publishing: complete 3 semester credit hours from:
ENG 3330  Desktop Publishing
ENG 3331  Advanced Desktop Publishing
ENG 3332  Literary Magazine Production: The Bayou Review
ENG 3335  Publishing for the Web
ENG 4360  Publications Workshop

English 4098: English Portfolio

Free Electives
Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the above required courses, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

Degree Requirements for English Education Concentration

To complete a BA in English with a concentration in English Education, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note that Student Teaching courses, SED 4301 and SED 4302, require 15-week full-time supervised work in grades 8 – 12 (may be one or more grades). Courses identified as belonging to the same Professional Development (PD) series must be taken concurrently. At least one semester prior to taking PED 3305 students should take all three sections of THEA and submit the “Form to request admission to the 8-12 teacher certification program to the Department of Urban Education. In addition to ENG 3307, 3 hours of upper-level literature must be taken in pre-19th Century literature.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in lit. survey: complete ENG 2301, 2302, 2311, 2312, 2313, or 2314.
6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

Major Requirements
ENG 3305  Essay Writing
ENG 3307  Shakespeare
ENG 3309  Introduction to Creative Writing
3 SCHs in British: complete ENG 3337, ENG 3347, ENG 3358, ENG 3367 or ENG 3377
3 SCHs in American: complete ENG 3362, ENG 3363, ENG 3364, or ENG 4312
3 SCHs in world: complete ENG 3341, ENG 3387, ENG 4341, or ENG 4311 (with approval)
3 SCHs in area studies: complete ENG 3355, ENG 3352, ENG 3340, ENG 3370
6 SCHs in multicultural: complete 6 semester credit hours from ENG 3321, ENG 3322, ENG 3350, ENG 3353, ENG 4324, or ENG 4350
3 SCHs in writing: complete 3 semester credit hours from ENG 3318, ENG 3319, or ENG 3320
6 SCHs in genre: complete 6 semester credit hours from ENG 3311, ENG 3312, or ENG 3313
Secondary Education
PED 3301  Introduction to Special Populations
READ 3309  Teaching Reading in the Content Areas (prerequisite of READ 3305 does not apply to 8-12 certification)

Professional Development Courses
PED 3305  Understanding the Early Childhood through Twelfth Grade Learner
(Note: *At least one semester prior to taking PED 3305, students should take all three sections of the THEA and submit the “Form to request admission to the 8-12 teacher certification program” to the Department of Urban Education).
SED 3312  Organizing the Classroom
PED 4380  Field Experience in Urban Public Classrooms
SED 3302  Instructional Design
SED 3307  Secondary Teacher Roles in Assessment and Profession
PED 4381  Field Experience in Urban Public School Classrooms

Student Teaching
SED 4301  Student Teaching in Secondary Schools
SED 4302  Student Teaching in Secondary Schools
READ 4321  Literacy across the Curriculum.

Teacher Certification Checklist
• Undergraduate degree plan completed?
• TexES Content test passed?
• TexES PPR test passed?
• A cumulative GPA of 2.5 (undergraduate degree)?

Degree Requirements for Film Studies Concentration

To complete a BA in English with a concentration in Film, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Lower-Level Requirements
(courses in this area cannot be reused from the common core)
ENG 2309  Survey of Film
3 lower-level SCHs in lit.: complete ENG 2301, ENG 2302, ENG 2305, ENG 2311, ENG 2312, ENG 2313, or ENG 2314.
6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

Major Requirements (At least one 43XX course is required)
6 SCHs in genre: complete 6 semester credit hours from ENG 3311, ENG 3312, or ENG 3313.
15 SCHs ENG film: complete 15 semester credit hours from ENG 3354, ENG 3356, ENG 3357, ENG 4327. With approval, students may substitute any upper-level ENG course with significant Film Studies content.
3 SCHs in CHSS film: complete 3 semester credit hours from COMM 3317, HUM 3327, PHIL 3355, SOC 4302, SPAN 3385.
9 SCHs in lit./theory: complete 9 semester credit hours from the following:
   ENG 3306  Introduction to Literary Theory
   ENG 3307  Shakespeare
   ENG 3310  Studies in Nonfiction Writing
   ENG 3314  Studies in Autobiography
   ENG 3315  Studies in Science Fiction
   ENG 3321  African-American Literature
   ENG 3322  Mexican-American Literature
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3323</td>
<td>Technology and Literature</td>
</tr>
<tr>
<td>ENG 3337</td>
<td>Studies in Medieval English Literature</td>
</tr>
<tr>
<td>ENG 3340</td>
<td>Cultural Criticism</td>
</tr>
<tr>
<td>ENG 3341</td>
<td>Postcolonial Studies</td>
</tr>
<tr>
<td>ENG 3346</td>
<td>Introduction to Literary Translation</td>
</tr>
<tr>
<td>ENG 3347</td>
<td>Studies in Early Modern British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3350</td>
<td>Gender Studies in Literature</td>
</tr>
<tr>
<td>ENG 3351</td>
<td>Children’s Literature</td>
</tr>
<tr>
<td>ENG 3352</td>
<td>Studies in World Mythology and Folklore</td>
</tr>
<tr>
<td>ENG 3353</td>
<td>Social Class and Literature</td>
</tr>
<tr>
<td>ENG 3354</td>
<td>Introduction to Film Studies</td>
</tr>
<tr>
<td>ENG 3355</td>
<td>Young Adult Literature</td>
</tr>
<tr>
<td>ENG 3356</td>
<td>Early Cinema</td>
</tr>
<tr>
<td>ENG 3357</td>
<td>Film Theory</td>
</tr>
<tr>
<td>ENG 3358</td>
<td>Studies in 18th Century British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3362</td>
<td>Studies in the Literature and Culture if the Americas before 1800</td>
</tr>
<tr>
<td>ENG 3363</td>
<td>Studies in 19th Century US Literature and Culture</td>
</tr>
<tr>
<td>ENG 3364</td>
<td>Studies in US Literature and Culture after 1900</td>
</tr>
<tr>
<td>ENG 3367</td>
<td>Studies in 19th Century British Literature and Culture</td>
</tr>
<tr>
<td>ENG 3370</td>
<td>Theories in Collaborative Learning</td>
</tr>
<tr>
<td>ENG 3377</td>
<td>Studies in British Literature and Culture: 20th Century and Beyond</td>
</tr>
<tr>
<td>ENG 3385</td>
<td>Studies in Religious Texts</td>
</tr>
<tr>
<td>ENG 3387</td>
<td>Studies in World Literature and Culture</td>
</tr>
<tr>
<td>ENG 4311</td>
<td>Contemporary Literature</td>
</tr>
<tr>
<td>ENG 4312</td>
<td>Literature of the South and Southwest</td>
</tr>
<tr>
<td>ENG 4313</td>
<td>Psychology through Literature</td>
</tr>
<tr>
<td>ENG 4314</td>
<td>Major Authors</td>
</tr>
<tr>
<td>ENG 4324</td>
<td>Seminar in Ethnic Studies</td>
</tr>
<tr>
<td>ENG 4327</td>
<td>Advanced Film Studies</td>
</tr>
<tr>
<td>ENG 4330</td>
<td>Senior Seminar in the Humanities</td>
</tr>
<tr>
<td>ENG 4341</td>
<td>Seminar in Postcolonial Studies</td>
</tr>
<tr>
<td>ENG 4350</td>
<td>Advanced Gender Studies</td>
</tr>
<tr>
<td>ENG 4390</td>
<td>Topics in Language and Literature</td>
</tr>
<tr>
<td>HUM 4350</td>
<td>Senior Seminar in the Humanities</td>
</tr>
</tbody>
</table>

3 SCHs writing/digital media: complete ENG 3305, ENG 3309, ENG 3327, ENG 3339, ENG 3349, or ENG 4340
ENG 4098: Portfolio

Free Electives
Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the above required courses, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

Bachelor of Science

Major in Professional Writing

Joe Sample, PhD, Coordinator
S1051, 713-226-5574

Program Learning Outcomes
Graduates who earn a BS in Professional Writing will be able to:

- Design information for print and electronic formats, using multiple modalities.
- Produce materials that address contexts outside the classroom (real or simulated).
• Produce documents that meet the needs of diverse audience (same topic for more than one audience such as old/young, lay/technical, multicultural).
• Conduct and use research effectively.
• Use ethical standards in citation, visual design, and language.
• Write clearly and effectively.

Degree Requirements

To complete a BS in Professional Writing, students must satisfy the "Requirements for CHSS Majors" and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 lower-level SCHs in lit: complete ENG 2301, ENG 2302, ENG 2305, ENG 2311, ENG 2312, ENG 2313, or ENG 2314.
3 SCHs in ethics: complete 3 semester credit hours of Philosophy (excluding PHIL 2384, PHIL 3384, and PHIL 4098), POLS 3300, BA 3308, or CJ 3311.

Major Requirements
ENG 3318 Studies in English Grammar.
3 SCHs in theory: complete ENG 3317, ENG 3327, ENG 3339, or ENG 3349.
3 SCHs in research: complete ENG 3304, ENG 3325, ENG 3338, ENG 4306, or ENG 4323.
3 SCHs in software: complete ENG 3328, ENG 3330, ENG 3331, ENG 3335, or ENG 4340.
12 SCHs in specialty: complete 12 semester credit hours from the following:
   ENG 3304 Advanced Business and Technical Report Writing
   ENG 3305 Essay Writing
   ENG 3308 Legal Writing
   ENG 3309 Introduction to Creative Writing
   ENG 3316 History of Rhetoric
   ENG 3317 Studies in the Theory of Rhetoric
   ENG 3320 History of the English Language
   ENG 3325 Medical Writing
   ENG 3326 Proposal Writing
   ENG 3327 Visual Rhetoric and Literacy
   ENG 3328 Documentation and Manuals
   ENG 3329 Environmental Writing
   ENG 3330 Desktop Publishing
   ENG 3331 Advanced Desktop Publishing
   ENG 3333 Writing for the Media
   ENG 3334 Writing for Presentation
   ENG 3335 Publishing for the Web
   ENG 3336 Writing for the Web
   ENG 3338 Introduction to Usability
   ENG 3339 Digital Media Theory
   ENG 3342 Organizational Publications
   ENG 3345 Workshop in Creative Nonfiction
   ENG 3349 Rhetoric of Technology
   ENG 3371 Public Relations Writing
   ENG 3373 Introduction to Advertising
   ENG 3390* Topics in Technology Studies & Strategies
   ENG 4306 Science Writing
   ENG 4308 Plain Language in Government, Medical, and Business Writing
   ENG 4318 Advanced Studies in English Grammar and Style
ENG 4322  Editing, Rewriting and Copyreading
ENG 4323  Feature Writing for Business and Industry
ENG 4339  Video Game Story Writing
ENG 4340  Social Media Writing
ENG 4680^  Field Experience

ENG 4380^  Field Experience.
ENG 4099  Professional Writing Portfolio.
^Course maybe repeated when topic varies.
^Student may not take both ENG 4380 and ENG 4680.

Supplemental Content Requirements
12 SCHs in Supplemental Content: complete 12 semester credit hours in any single discipline or area of study outside of Professional Writing or 12 hours of writing-intensive courses. At least 9 of these semester credit hours must be at the 33XX or 43XX level.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the course listed in the above areas, totals 120 semester credit hours.

Minor Programs
Students seeking minors in CHSS must maintain a grade point average for all courses taken at UH-Downtown of at least 2.0, receive a grade of C or better in all courses applied toward the minor, and must meet all requirements of the chosen minor, including prerequisites for courses taken toward the minor.

Minor in Creative Writing
Robin Davidson, PhD, Coordinator
S1075, 713-221-2716

Required Courses
ENG 3309  Introduction to Creative Writing
ENG 4309  Advanced Creative Writing
3 workshop SCHs: complete ENG 3343, ENG 3344 or ENG 3345.

Upper-Level Electives
9 SCHs: complete 9 semester credit hours from the following options: no more than one additional writing workshop (ENG 3343, 3344, 3345); no more than one literature course (ENG 3311, 3312, 3313, 3314, or 3315); and/or any combination of the following: ENG 3346, ENG 3332, DRA 3308/HUM 3326, ENG 3330, ENG 4360, SPAN 3322, no more than 4 semester credit hours of foreign language (may be lower-level).

Minor in Digital Media
Jillian Hill, PhD, Coordinator
S1038, 713-226-5575

Required Coursework
3 SCHs in theory: complete 3 semester credit hours from the following: ENG 3317; ENG 3327; ENG 3339; ENG 3349.
6 SCHs in application: complete 6 semester credit hours from the following: ENG 3335, ENG 3336, ENG 3338, ENG 3390, ENG 4339, ENG 4340.

Upper-Level Electives
9 elective SCHs: (9 hours) Select from the following:
ENG 3317
ENG 3318
Minor in English
Sandra L. Dahlberg, PhD, Coordinator
S1028, 713-221-8949

Required Courses
6 survey SCHs: complete both halves of sophomore survey of Western World, American, or British Literature.
3 genre SCHs: complete ENG 3311, ENG 3312, or ENG 3313.

Upper-Level Electives
9 elective SCHs: select in consultation with an advisor 9 semester credit hours from courses in Literature/Theory and/or Writing/English language.

Minor in Professional Writing
Joe Sample, PhD, Coordinator
S1051, 713-226-5574

Required Courses
ENG 3302 Business and Technical Report Writing
ENG 3318 Studies in English Grammar

Electives
12 elective SCHs: complete 12 semester credit hours from the following list:
   ENG 3304
   ENG 3308
   ENG 3316
   ENG 3317
   ENG 3325
   ENG 3326
   ENG 3327
   ENG 3328
   ENG 3329
   ENG 3330
   ENG 3331
   ENG 3333
   ENG 3334
   ENG 3335
   ENG 3336
   ENG 3338
   ENG 3339
   ENG 3342
   ENG 3349
   ENG 3371
   ENG 3373
ENG 3390 (may be taken more than once when topic changes)
ENG 4306
ENG 4308
ENG 4318
ENG 4322
ENG 4323
ENG 4339
ENG 4340
ENG 4380
ENG 4380/4680

Department of Social Sciences

Jeffrey Jackson, PhD, Chair
N1009, 713-221-8014

Faculty
Professors: Alvarez, Anderson, Getz, Henney, Thacker-Kumar, Ryden.
Associate Professors: Allen, Babb, Bachman, Branham, Caro, Case, Crone Chadha, DeFreitas, Eliassen, Elkholy, Li, Gillette, Jackson, Johnson, Kaftan, Kane, Linantud, Mobasher, Pavelich, Preuss, Rubinson, Spiller, Stewart, Westfall, Williams.

Assistant Professors: Bielakowski, Cho, Coleman, Raymundo, Rufino, Salinas, Turner.

Lecturers: Capuozzo, Colón, Chism, Hughes, Lopez, Wilson

Emeriti: Christian, Fairbanks, McCaffrey

Academic Areas
anthropology
health and behavioral science
history
philosophy
political science
psychology
sociology
nonprofit management

Mission and Objectives

The Department of Social Sciences is an interdisciplinary department. The faculty teach courses and conduct research in seven academic areas: anthropology, geography, history, philosophy, political science, psychology, and sociology. In addition to classes in these disciplines, we offer interdisciplinary classes in the social sciences. Currently, seven undergraduate degrees may be taken in our department: History (BA), Philosophy (BA), Political Science (BS), Psychology (BS), Sociology (BS), Social Sciences (BA or BS). We also offer a Master of Arts in Non-Profit Management. Please come visit us, or call, and talk with us about your interests and plans.

The department’s educational philosophy is holistic, emphasizing the importance of educational and professional growth both inside and outside of the classroom. Our degree programs prepare students in a number of ways: students are provided with job skills
relevant to their career aspirations, a readiness for graduate or professional school, and a strong, broad-based background in the liberal arts which is important in the ever-changing social and economic environment.

The essential components of the department’s mission are community-based research and public service, and these also constitute integral parts of the department’s educational program. All of the department’s degree programs are designed to develop skills in research and analysis. Students are also encouraged to engage in internships, volunteer service activities, and other degree-related work experiences.

The study and practice of the social sciences provide the means for students to unify their learning, since the social sciences, in attempting to understand human individuals and institutions, employ both the methodologies of the linguistically-oriented humanistic disciplines and the empirically-based natural sciences. Thus our unique contribution to the intellectual life of the university is to provide the arena in which all viewpoints can meet and exchanged.

Honor Societies

Phi Sigma Tau, Philosophy Honor Society
Pi Gamma Mu, International Social Sciences Honorary Society
Phi Alpha Theta, History Honor Society
Psi Chi, National Honor Society in Psychology
Pi Sigma Alpha, National Political Science Honor Society

Programs of Study

Bachelor of Arts (BA) with majors in:
History
Philosophy
Social Sciences
Bachelor of Science (BS) with majors in:
Health and Behavioral Science
Political Science
Psychology
Social Sciences
Sociology

Bachelor of Science

Major in Health and Behavioral Science

Cindy Stewart, PhD, Coordinator
N-1063
713 221 8173

The Health and Behavioral Science Program combines a liberal arts education with professional health-related experiences that prepares graduates for degree-required, entry-level positions from which they can build careers in healthcare and/or gerontology.

Program Learning Outcomes

Graduates earning their Bachelors of Science in Health and Behavioral Science will be able to:

- Examine the biological, psychosocial, and political factors that influence health and/or gerontology.
- Communicate effectively within the healthcare and/or gerontological context.
- Utilize basic research methods and statistics to assess and interpret health and/or gerontological research.
- Function professionally in healthcare and/or gerontological settings.
- Identify and analyze ethical dilemmas within the healthcare and/or gerontology fields to determine an appropriate course of action.
Degree Requirements for Aging Concentration

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area may be reused from the common core area)
3 SCHs in Soc Sci: complete SOC 1303 Introduction to Sociology or PSY 1303 Introduction to Psychology
8 SCHs in Biology: complete BIOL 1303/1103 Anatomy and Physiology I and BIOL 1304/1104 Anatomy and Physiology II

Major Requirements
COMM 2301 Health Communication
3 SCHs in Ethics: complete HEA 4303 Ethics for Healthcare Professionals or PHIL 3330 Biomedical Ethics
HEA 2301 Introduction to Health Systems
HEA 2302 Introduction to Epidemiology and Biostatistics
HEA 4302 Health Policy and Politics
HEA 4380 Field Experience in Health and Behavioral Science
6 SCHs in Aging: complete 6 semester credit hours from the following list of courses:
HEA 3302 Wellness and Aging
HEA 3303 Biological Theories of Aging
SOC 4318 Aging in a Changing Society
PSY 4318 Psychology of the Elderly
18 SCHs in H Elect: complete 18 semester credit hours from the following list of prescribed electives (non-reusable from above requirements):
COMM 3321 Patient-Provider Communication
HEA 3301 Medical Case Management
HEA 3302 Wellness and Aging
HEA 3303 Biological Theories of Aging
HEA 3304 Payment Systems
HEA 3305 Health and Culture
HEA 4301 Special Projects in Health and Behavioral Science
SOC 3309 Health, Illness, and Society
SOC 4318 Aging in a Changing Society
PSY 3309 Adult Psychology
PSY 4310 Health Psychology
PSY 4318 Psychology of the Elderly
SOS 3304 Death and Dying
SOS 3313 Disparities in Health in America

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student's entire coursework, including the above requirements, totals 120 semester credit hours.

Degree Requirements for Healthcare Navigation Concentration

Common Core Requirements
See listing under Common Core Requirements in this catalog.
Preparatory Requirements
(courses in this area may be reused from the common core area)

3 SCHs in Soc Sci: complete SOC 1303 Introduction to Sociology or PSY 1303 Introduction to Psychology

8 SCHs in Biology: complete BIOL 1303/1103 Anatomy and Physiology I and BIOL 1304/1104 Anatomy and Physiology II

Major Requirements

COMM 2301  Health Communication

3 SCHs in Ethics: complete HEA 4303 Ethics for Healthcare Professionals or PHIL 3330 Biomedical Ethics

HEA 2301  Introduction to Health Systems
HEA 2302  Introduction to Epidemiology and Biostatistics
HEA 4302  Health Policy and Politics
HEA 4380  Field Experience in Health and Behavioral Science

6 SCHs in Nav: complete 6 semester credit hours from the following list of healthcare navigation courses:

HEA 2303  Medical Terminology
HEA 3301  Medical Case Management
COMM 3321  Patient-Provider Communication
COMM 3323  Communication in Healthcare Organizations

18 SCHs in Nav Elect: complete 18 semester credit hours from the following list of prescribed electives (non-reusable from above requirements):

COMM 3321  Patient-Provider Communication
COMM 3323  Communication in Healthcare Organizations
ENG 3325  Medical Writing
ENG 4306  Science Writing
HEA 2303  Medical Terminology
HEA 3301  Medical Case Management
HEA 3302  Wellness and Aging
HEA 3304  Payment Systems
HEA 3305  Culture and Health
HEA 4301  Special Projects in Health and Behavioral Science
PSY 4310  Health Psychology
SOC 3309  Health, Illness, & Society
SOS 3313  Disparities in Health in America
SPAN 4320  Medical Spanish

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

Bachelor of Arts

Major in History

Theresa Case, PhD, Coordinator
N-1009
713 221 5217

A Bachelor of Arts in History provides students with the intellectual discipline as well as the research, analytical, and communication skills that will prepare them for careers in teaching, government, non-profit organizations, and the private sector. Students interested in pursuing a professional degree in law, history, library studies, public history, or other disciplines in the social sciences and humanities will find the skills offered by the History Degree to be particularly useful to them in their future studies.

Program Learning Outcomes
Graduates who earn a BA in History will be able to demonstrate:
The mastery of academic conventions appropriate to historical writing
Historical awareness of global change.
The intellectual discipline necessary for historical study.
The research skills necessary for historical study.
The mastery of academic conventions appropriate to spoken discourse.
Historical awareness of the United States’ development.

NOTE: Students must select either the standard concentration or the education concentration in order to complete a BA in History.

Degree Requirements for Standard Concentration

To complete a BA in History, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area may be reused from the common core)
6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

Major Requirements
(courses in this area are used to calculate the major GPA)
HIST 2315 Introduction to World History I.
HIST 2316 Introduction to World History II.
HIST 3390: Historical Methods (Students should take this course early in the sequence.
9 upper-level SCHs in non-U.S. HIST: complete 9 semester credit hours from the following:
HIST 3301 20th Century Europe
HIST 3308 History of Mexico
HIST 3310 20th Century Russia
HIST 3317 Middle Eastern History
HIST 3318 Latin American History
HIST 3324 Nineteenth Century Europe
HIST 3333 Antislavery Movements
HIST 3334 Britain and Its Empire, 1688-ca.1870
HIST 3335 Rome: Republic to Empire
HIST 3336 Ancient Greece
HIST 4310 Nazi Germany
HIST 4320 Slavery in the Americas
HIST 4321 The Rise of Modern Women
HIST 4322 History of Twentieth Century Diplomacy
HIST 4340 World War I
HIST 4350 The History of WWII

NOTE: HIST 4390 Special Topics; HIST 3399 Directed Studies courses; and HIST 3342 History of Film may be applied to this area if the course content focuses upon non-U.S. topics.

9 upper-level SCHs in U.S. HIST: complete 9 semester credit hours from the following:
HIST 3304 The Vietnam War
HIST 3305 The United States, 1900-1945
HIST 3306 US Diplomatic History
HIST 3311 US Military History
HIST 3312 Readings in Texas History
HIST 3313 Houston: Past and Present
HIST 3314 The Civil War and Reconstruction
HIST 3322  Mexican-American History  
HIST 3323  African-American History  
HIST 3330  British Colonial America 1607-1763  
HIST 3331  American History through Literature  
HIST 3332  American Constitutional History  
HIST 3340:  History of Religion in the United States  
HIST 3360:  History of the American West  
HIST 4301  The United States since 1945  
HIST 4303  US Women’s History  
HIST 4304  History of the Old South to 1865  
HIST 4305  History of the New South from 1865  
HIST 4306  The Age of Jefferson, 1763-1815  
HIST 4307  Jacksonian America, 1815-1848  
HIST 4320  Slavery in the Americas  
HIST 4321  The Rise of Modern Women  
HIST 4322  History of Twentieth Century Diplomacy  
HIST 4350  The History of WWII  
HIST 4370  History of Education in the United States  

NOTE: HIST 4390 Special Topics; HIST 3399 Directed Studies courses; and HIST 3342 History of Film may be applied to this area if the course content focuses U.S. topics.

3 upper level SCHs in HIST: complete 3 semester credit hours in history at the 3000 or 4000 level.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

Degree Requirements for Secondary Education Concentration

To complete a BA in History with a Secondary Education Concentration, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below. Note that Student Teaching courses, SED 4301 and SED 4302, require 15-week full-time supervised work in grades 8 – 12 (may be one or more grades). Courses identified as belonging to the same Professional Development (PD) series must be taken concurrently.

Common Core Requirements
See listing under Common Core Requirements in this catalog. Students with a concentration in education must take HIST 1305 and HIST 1306 to fulfill the history core requirement.

Preparatory Requirements
(courses in this area may be reused from the common core)

6-8 SCHs of foreign language: complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.

Major Requirements

HIST 1312  Texas History (may not be reused from the core)  
HIST 2315  Introduction to World History I  
HIST 2316  Introduction to World History II  
HIST 3390  Historical Methods (Students should take this course early in the sequence)  

9 upper-level SCHs in non-U.S. HIST: complete 9 semester credit hours from:

HIST 3301  20th Century Europe  
HIST 3308  History of Mexico
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3310</td>
<td>20th Century Russia</td>
</tr>
<tr>
<td>HIST 3317</td>
<td>Middle Eastern History</td>
</tr>
<tr>
<td>HIST 3318</td>
<td>Latin American History</td>
</tr>
<tr>
<td>HIST 3324</td>
<td>Nineteenth Century Europe</td>
</tr>
<tr>
<td>HIST 3333</td>
<td>Antislavery Movements</td>
</tr>
<tr>
<td>HIST 3334</td>
<td>Britain and Its Empire, 1688-ca.1870</td>
</tr>
<tr>
<td>HIST 3335</td>
<td>Rome: Republic to Empire</td>
</tr>
<tr>
<td>HIST 3336</td>
<td>Ancient Greece</td>
</tr>
<tr>
<td>HIST 4310</td>
<td>Nazi Germany</td>
</tr>
<tr>
<td>HIST 4320</td>
<td>Slavery in the Americas</td>
</tr>
<tr>
<td>HIST 4321</td>
<td>The Rise of Modern Women</td>
</tr>
<tr>
<td>HIST 4322</td>
<td>History of Twentieth Century Diplomacy</td>
</tr>
<tr>
<td>HIST 4340</td>
<td>World War I</td>
</tr>
<tr>
<td>HIST 4350</td>
<td>The History of WWII</td>
</tr>
</tbody>
</table>

**NOTE:** HIST 4390 Special Topics; HIST 3399 Directed Studies courses; and HIST 3342 History of Film may be applied to this area if the course content focuses non-U.S. topics.

**9 upper-level SCHs in U.S. HIST:** complete 9 semester credit hours from:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3304</td>
<td>The Vietnam War</td>
</tr>
<tr>
<td>HIST 3305</td>
<td>The United States, 1900-1945</td>
</tr>
<tr>
<td>HIST 3306</td>
<td>US Diplomatic History</td>
</tr>
<tr>
<td>HIST 3311</td>
<td>US Military History</td>
</tr>
<tr>
<td>HIST 3312</td>
<td>Readings in Texas History</td>
</tr>
<tr>
<td>HIST 3313</td>
<td>Houston: Past and Present</td>
</tr>
<tr>
<td>HIST 3314</td>
<td>The Civil War and Reconstruction</td>
</tr>
<tr>
<td>HIST 3322</td>
<td>Mexican-American History</td>
</tr>
<tr>
<td>HIST 3323</td>
<td>African-American History</td>
</tr>
<tr>
<td>HIST 3330</td>
<td>British Colonial America 1607-1763.</td>
</tr>
<tr>
<td>HIST 3340</td>
<td>History of Religion in the United States</td>
</tr>
<tr>
<td>HIST 3360</td>
<td>History of the American West</td>
</tr>
<tr>
<td>HIST 3331</td>
<td>American History through Literature</td>
</tr>
<tr>
<td>HIST 3332</td>
<td>American Constitutional History</td>
</tr>
<tr>
<td>HIST 4301</td>
<td>The United States since 1945</td>
</tr>
<tr>
<td>HIST 4303</td>
<td>US Women’s History</td>
</tr>
<tr>
<td>HIST 4304</td>
<td>History of the Old South to 1865</td>
</tr>
<tr>
<td>HIST 4305</td>
<td>History of the New South from 1865</td>
</tr>
<tr>
<td>HIST 4306</td>
<td>The Age of Jefferson, 1763-1815</td>
</tr>
<tr>
<td>HIST 4307</td>
<td>Jacksonian America, 1815-1848</td>
</tr>
<tr>
<td>HIST 4320</td>
<td>Slavery in the Americas</td>
</tr>
<tr>
<td>HIST 4321</td>
<td>The Rise of Modern Women</td>
</tr>
<tr>
<td>HIST 4322</td>
<td>History of Twentieth Century Diplomacy</td>
</tr>
<tr>
<td>HIST 4370</td>
<td>History of Education in the United States</td>
</tr>
<tr>
<td>HIST 4350</td>
<td>The History of WWII</td>
</tr>
</tbody>
</table>

**NOTE:** HIST 4390 Special Topics; HIST 3399 Directed Studies courses; and HIST 3342 History of Film may be applied to this area if the course content focuses U.S. topics.

**Secondary Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PED 3301</td>
<td>Introduction to Special Populations</td>
</tr>
<tr>
<td>READ 3309</td>
<td>Teaching Reading in the Content Areas (prerequisite of READ 3305 does not apply to 8-12 certification).</td>
</tr>
</tbody>
</table>

**Professional Development Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PED 3305</td>
<td>Understanding the Early Childhood through Twelfth Grade Learner</td>
</tr>
<tr>
<td>SED 3312</td>
<td>Organizing the Classroom</td>
</tr>
<tr>
<td>PED 4380</td>
<td>Field Experience in Urban Public Classrooms</td>
</tr>
<tr>
<td>SED 3302</td>
<td>Instructional Design</td>
</tr>
<tr>
<td>SED 3307</td>
<td>Secondary Teacher Roles in Assessment and Profession</td>
</tr>
<tr>
<td>PED 4381</td>
<td>Field Experience in Urban Public School Classrooms</td>
</tr>
</tbody>
</table>
**Student Teaching**  
SED 4301 ** Student Teaching in Secondary Schools  
SED 4302 ** Student Teaching in Secondary Schools  
READ 4321 Literacy across the Curriculum  

**Student Teaching courses require 15-week full-time supervised work in grades 8 – 12 (may be one or more grades).**  

**Free Electives**  

Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the above requirements, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

**Teacher Certification Checklist**  
- Undergraduate degree plan completed  
- TexES Content test passed  
- TexES PPR test passed  
- A cumulative GPA of 2.5 (undergraduate degree)

---

**Bachelor of Arts**

**Major in Philosophy**

**Andrew Pavelich, PhD, Coordinator**  
N1047, 713-221-8094

The Philosophy program at UHD emphasizes both the study of major figures and movements in the history of philosophy as well as the application of philosophical ideas to social and political problems, including questions about the meaning of life. Philosophy not only broadens a student’s horizon of knowledge, but above all develops the capacity for critical thinking, analysis, the art of persuasive writing and reading skills. UHD Philosophy majors are prepared to go on to graduate school in philosophy, as well as to engage in advanced study of law, medicine, and a variety of other disciplines.

**Program Learning Outcomes**

Graduates who earn a BA in Philosophy will be able to:

- Read and understand a philosophical text  
- Construct and analyze a philosophical text  
- Do basic secondary research in philosophy  
- Write a well-reasoned essay  
- Demonstrate mastery of a general knowledge of the history of philosophy  
- Think through perspectives other than their own.  
- Communicate and exchange ideas verbally.

**Degree Requirements**

To complete a BA in Philosophy, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

**Common Core Requirements**

See listing under Common Core Requirements in this catalog.

**Preparatory Requirements**

(courses in this area cannot be reused from the common core)  

**6-8 SCHs of foreign language:** complete 6-8 semester credit hours in the same foreign language. Semester credit hours are contingent upon placement exams, courses taken, or transfer credit. Semester credit hours bypassed by placement must be made up in elective credits. Hours earned in excess of three semester credit hours for any foreign language course may be applied to the elective area.
9 SChs in CHSS electives: complete 9 semester credit hours from any of the following discipline rubrics: ANTH, ART, COMM, DRA, ENG, FREN, GEOG, HIST, HUM, LANG, MUS, PHIL, POLS, PSY, SOC, SOCW, SOS, SPAN.

9 upper-level SChs in CHSS electives: complete 9 semester credit hours at the 33XX level and above from the following rubrics: ANTH, ART, COMM, DRA, ENG, FREN, GEOG, HIST, HUM, LANG, MUS, PHIL, POLS, PSY, SOC, SOCW, SOS, SPAN.

Major Requirements
(courses in this area are used to calculate the major GPA)

6 SChs in history of PHIL: complete PHIL 2301 Ancient Philosophy and PHIL 2302 Modern Philosophy.

3 SChs in logic: PHIL 2384 Logic or PHIL 3384 Symbolic Logic.

3 SChs in moral philosophy: complete PHIL 3301, 3310, 3313, 3320, or 3330.

6 SChs in PHIL: complete 6 semester credit hours of PHIL, any level.

9 upper-level SChs in PHIL: complete 9 semester credit hours of above PHIL 33XX level.

Capstone writing course: PHIL 4312 Major Figures in Philosophy OR PHIL 4399 Directed Studies in Philosophy.

PHIL 4099: Graduation Portfolio.

Free Electives
Majors are required to complete a sufficient number of elective semester credit hours so that their entire coursework, including the above requirements, totals 120 semester credit hours. Upper or lower-level courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

Bachelor of Science
Major in Political Science

John Linantud, PhD, Coordinator
N1018, 713-221-2774

The Political Science Program contains one of the most balanced degree plans at the University of Houston Downtown. Majors take at least one upper-level course from each of three subfields in which UHD faculty teach and publish: International Politics, Political Theory/Pre-Law, and U.S. politics. Majors also complete an internship or special project, and conclude their studies with a capstone seminar.

Program Learning Outcomes
Graduates who earn a BS in Political Science will be able to:

- Adhere to the UHD Academic Honesty Policy in doing political science research.
- Demonstrate an ability to orally present their political science research in a comprehensive, clear, and organized manner.
- Present political arguments logically and assess opposing political arguments critically.
- Be proficient in understanding quantitative and qualitative political science research.
- Do written research in political science.
- Be proficient in the use of current technology to complete political science assignments.

Degree Requirements

To complete a BS in Political Science, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area cannot be reused from the common core)

SOS 2304 Research Methods in the Social Sciences.
SOS 3312 Statistics in the Social Sciences.
3 SCHs in ethics: complete BA 3308, CJ 3311, POLS 3300 or any UHD PHIL (excluding PHIL 1302, PHIL 1304, OR PHIL 3384).

Major Requirements

21 upper-level SCHs in POLS: complete 21 upper-level semester credit hours in POLS. Students must take at least one course from each of the following three subfields:

**international politics:**
- POLS 3308 Introduction to World Politics
- POLS 4305 War in the Modern World
- POLS 4308 East and Southeast Asian Politics
- POLS 4309 Dictatorship and Democracy in the Developing World
- POLS 4310 International Terrorism
- POLS 4312 Dictatorship and Democracy in Europe, Russia and the United States
- POLS 4316 Politics of the Middle East
- POLS 4318 International Political Economy
- POLS 4321 Environmental Politics and Policy
- POLS 4322 Geopolitics of the Americas

**political theory/pre-law:**
- POLS 3300 Ethics and Public Life
- POLS 3306 Civil Liberties in the United States
- POLS 3313 Introduction to Political Theory
- POLS 3315 Introduction to Constitutional Law
- POLS 4301 The American Legal System
- POLS 4320 Political Theory: Ancient-Medieval

**U.S. politics:**
- POLS 3301 Introduction to Public Administration
- POLS 3302 Public Policy Analysis
- POLS 3303 Urban Politics
- POLS 3307 The American Presidency
- POLS 3309 Texas Politics
- POLS 3310 American Legislatures
- POLS 3311 Campaign Politics
- POLS 3312 Hispanic Politics
- POLS 3314 Participants in the United States Public Policy Process
- POLS 4306 Women and Politics
- POLS 4307 Participation and Democracy in American Politics
- POLS 4311 Public Opinion in the United States
- POLS 4315 Education Policy and Administration
- POLS 4317 State and Local Government
- POLS 4319 Non-Profit Organizations in American Society

9 upper-level SCHs in concentration: complete additional 9 semester credit hours in POLS or in any single CHSS discipline.
POLS 4399 Political Science Capstone.
3 SCHs in field experience: SOS 4301 or SOS 4380.

Free Electives

Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

Bachelor of Science

Major in Psychology

Stephanie Babb, PhD, Coordinator
The program in psychology leading to a Bachelor of Science degree may prepare a student for graduate school in psychology and other disciplines. It also serves as preparation for entry-level positions in the field of mental health and other types of employment, including social service agencies and business. The study of psychology also provides a foundation of knowledge for healthy coping with life circumstances and human relationships.

Program Learning Outcomes
Graduates who earn a BS in Psychology will be able to:

- Use the scientific approach to develop a research question, and use critical thinking to evaluate and synthesize empirical findings.
- Exhibit the ability to act ethically, recognize diversity, and engage in social duties.
- Evaluate and apply basic research methods in psychology including research design, data analysis, and interpretation of results.
- Demonstrate familiarity with the major concepts, theoretical perspectives, empirical findings, and historical trends in psychology.
- Apply psychological principles to personal and social issues.
- Use information and technology when doing work in psychology.
- Demonstrate effective writing and collaboration skills.

Degree Requirements
To complete a BS in Psychology, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area can be reused from the common core)
PSY 1303 Introduction to Psychology
SOC 1303 Introduction to Sociology
3 SCHs in anthropology: ANTH 2301 Physical Anthropology OR ANTH 2302 Cultural Anthropology.

Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)
3 SCHs in ethics: complete 3 semester credit hours from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL 1301</td>
<td>Introduction to Philosophy</td>
</tr>
<tr>
<td>PHIL 2301</td>
<td>Ancient Philosophy</td>
</tr>
<tr>
<td>PHIL 2302</td>
<td>Modern Philosophy</td>
</tr>
<tr>
<td>PHIL 2305</td>
<td>Introduction to Ethics</td>
</tr>
<tr>
<td>PHIL 3301</td>
<td>Moral Philosophy I</td>
</tr>
<tr>
<td>PHIL 3302</td>
<td>Philosophy of Science</td>
</tr>
<tr>
<td>PHIL 3305</td>
<td>Contemporary Philosophy</td>
</tr>
</tbody>
</table>

Major Requirements
(courses in this area are used to calculate the major GPA)
PSY 3320 Research Methods in Psychology.
PSY 3321 Behavioral Statistics or SOS 3312 Statistics in the Social Sciences.
3 SCHs from social/personality cluster: complete PSY 2302 Social Psychology or PSY 4306 Theories of Personality.
3 SCHs from clinical cluster: complete PSY 3306 Introduction to Clinical Psychology or PSY 3322 Abnormal Psychology.
3 SCHs from cognitive/neuroscience cluster: complete PSY 3311 Biological Psychology or PSY 3319 Cognitive Psychology.
3 SCHs from developmental cluster: complete PSY 2310, PSY 3303, PSY 3305, or PSY 3309.
3 SCHs from diversity cluster: PSY 3310, PSY 4303, PSY 4313, PSY 4317, or PSY 4320.
3 SCHs from career cluster: PSY 4380 Field Experiences in Psychology or PSY 4395 Special Projects in Psychology.
3 SCHs in advanced writing: complete one of the following:
   ENG 3302
   ENG 3305
   ENG 3308
   ENG 3325
   ENG 3326
   ENG 4306
   PSY 3301
   PSY 4306
   PSY 4309
   PSY 4313
   PSY 4315
   PSY 4318
   PSY 4320
   or PSY 4321.
12 upper-level SCHs in psychology: complete 12 semester credit hours in any psychology course at the 33XX or 43XX level.
6 SCHs in Social/Behavioral Science Elective: complete an additional 6 semester credit hours from the following list of upper-level (33XX or 43XX) subjects/courses: Any upper-level psychology (PSY), Sociology (SOC), or Social Work (SOSW) course (exclusive of practicums and internships), BIOL 3307, BIOL 4340, BIOL 4344, BIOL 4350; CJ 3301, CJ 3306, CJ 3311, CJ 3316, CJ 3317, CJ 4305; COMM 3308, COMM 3309, COMM 3310, COMM 3313, COMM 3315, COMM 3319, COMM 3328; ENG 4313/HUM4313; MGT 3301, 3303; MKT 3301; PHIL 3315, PHIL 3317, PHIL 3319; SOS 3301 SOS 3304, SOS 4302; SOSE 3306, SOSE 3320.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

Bachelor of Arts

Major in Social Sciences

Joanna Kaftan, PhD, Coordinator
N1060, 713-221-8299

Program Learning Outcomes
Graduates who earn a BA/BS in Social Sciences will be able to:

- Apply specific social science theory to real world situations and recommend a best course of action.
- Demonstrate proficiency in empirical social science research.
- Effectively write generalizations, and weigh conflicting evidence in their writing.

Degree Requirements

To complete a BA in Social Science, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.

Preparatory Requirements
(courses in this area can be reused from the common core)
3 SCH in ANTH: complete ANTH 2301 Physical Anthropology or ANTH 2302 Cultural Anthropology.
Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)
SOS 2304 Research Methods in the Social Sciences
SOS 3312 Statistics in the Social Sciences

3 SCHs in literature: complete 3 semester credit hours in upper or lower-level literature
3 SCHs in introductory social science: PSY 1303 Introduction to Sociology or PSY 1303 Introduction to Psychology.

Foreign Language and Culture
9-14 SCHs in Foreign Language and Culture: (a single foreign language through 2301 or 2311 up to 11 semester credit hours - plus 3 semester credit hours of either 2302 or 2312 or an alternative 3 semester credit hour course focusing on a specific culture). For students placing out of any foreign language courses, other courses in English, humanities or social sciences may be substituted to obtain a minimum of 120 hours. Hours in excess of 3 SCHs for any foreign language course may be applied toward a free elective.

Major Requirements
3 upper-level SCHs in ethics: 3 semester credit hours of PHIL at the 33XX or 43XX level, excluding PHIL 2384, PHIL 3384, and PHIL 4098.
3 SCHs writing course: complete ENG 3302, ENG 3304, ENG 3305, ENG 3308, ENG 3309, ENG 3325, ENG 3326, ENG 3329, ENG 3333, ENG 3334, ENG 3336, ENG 3371, or ENG 4306.
9 upper-level SCHs in Concentration 1: complete 9 SCHs in a single discipline from the following options in History, Political Science, Psychology, or Sociology.
9 upper-level SCHs in Concentration 2: complete 9 SCHs in a single discipline (other than “Concentration 1”) from the following options: History, Political Science, Psychology, or Sociology.
9 SCHs in social science electives: complete 9 upper-level semester credit hours from any combination of Anthropology, History, Political Science, Sociology, Social Work, or Social Science coursework.
3 SCHs capstone: SOS 4301 Special Projects in the Social Sciences or SOS 4380 Field Experience in the Social Sciences (recommended).

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors” section.

Bachelor of Science
Major in Social Sciences
Joanna Kaftan, PhD, Coordinator
N1060, 713-221-8299

Program Learning Outcomes
Graduates who earn a BA/BS in Social Sciences will be able to:

- Apply specific social science theory to real world situations and recommend a best course of action.
- Demonstrate proficiency in empirical social science research.
- Effectively write generalizations, and weigh conflicting evidence in their writing.

Degree Requirements
To complete a BS in Social Science, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

Common Core Requirements
See listing under Common Core Requirements in this catalog.
Preparatory Requirements
(courses in this area can be reused from the common core)
3 SCHs in ANTH: complete ANTH 2301 Physical Anthropology or ANTH 2302 Cultural Anthropology.

Additional Preparatory Requirements
(courses in this area cannot be reused from the common core)
SOS 2304 Research Methods in the Social Sciences.
SOS 3312 Statistics in the Social Sciences.
3 SCHs in lit.: complete 3 semester credit hours in upper or lower-level literature.
3 SCHs in nonverbal analysis: complete 3 semester credit hours in Math or Natural Science.
3 SCHs in social science: complete SOC 1303 Introduction to Sociology or PSY 1303 Introduction to Psychology.

Major Requirements
3 upper-level SCHs in ethics: 3 semester credit hours of PHIL at the 33XX or 43XX level, excluding PHIL 2384, PHIL 3384, and PHIL 4098.
3 SCHs writing intensive: complete ENG 3302, 3304, 3305, 3308, 3309, 3325, 3326, 3329, 3333, 3334, 3336, 3371, or 4306.
9 upper-level SCHs in concentration 1: complete 9 SCHs in a single discipline from the following options: History, Political Science, Psychology, or Sociology
9 upper-level SCHs in Concentration 2: complete 9 SCHs in a single discipline (other than "Concentration 1") from the following options: History, Political Science, Psychology, or Sociology.
9 SCHs in social science: complete 9 upper-level semester credit hours from any combination of Anthropology, History, Political Science, Sociology, Social Work, or Social Science coursework.
3 SCHs in capstone: complete SOS 4380 Field Experience in the Social Sciences (recommended) or SOS 4301 Special Projects in the Social Sciences.

Free Electives
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

Bachelor of Science
Major in Sociology
Joanna Kaftan, PhD, Coordinator
N1060, 713-221-8299

The program in sociology leading to a Bachelor of Science degree may prepare a student for graduate school in sociology or in other disciplines of behavioral or social sciences. It also serves as preparation for entry-level positions in public sector social service agencies or in business. The study of sociology provides a unique perspective for studying complex social problems including poverty, deviant behaviors such as crime, violence, and drug use. Further, courses in sociology address the functional importance of social institutions such as the family, religion, government, education, mass media, and health care delivery.

Program Learning Outcomes
Graduates who earn a BS in Sociology will be able to demonstrate:

- Understanding of the scientific method in critical analysis and problem solving as applied to sociological issues.
- Understanding of theoretical perspectives (explanatory paradigms) of sociology.
- Understanding of key sociological concepts in describing social behavior, social forces and actions of individuals.
- Knowledge of substantive findings in subfields of Sociology (such as: social inequality, minority groups, deviance, family, health & illness, migration, globalization).

Degree Requirements
To complete a BS in Sociology, students must satisfy the “Requirements for CHSS Majors” and fulfill the coursework listed below.

**Common Core Requirements**
See listing under Common Core Requirements in this catalog.

**Preparatory Requirements**
(courses in this area can be reused from the common core)
SOC 1303  Introduction to Sociology

**Additional Preparatory Requirements**
(courses in this area cannot be reused from the common core)
6 SCHs in SOC: complete 6 semester credit hours of Sociology (SOC), any level.
SOS 2304:  Research Methods in the Social Sciences.
SOS 3312:  Statistics in the Social Sciences.
**3 SCHs in nonverbal analysis:** complete 3 semester credit hours in Math, Natural Science, or Computer Science.

**Major Requirements**
SOC 4315  Sociological Theory
**21 upper-level SCHs in SOC:** complete 21 semester credit hours in Sociology (SOC), Social Sciences (SOS), or Anthropology (ANTH) at the 33XX or 43XX level.
**3 capstone SCHs:** complete 3 semester credit hours in either SOS 4301 Special Projects in the Social Sciences or SOS 4380 Field Experience in the Social Sciences.

**Free Electives**
Upper or lower division courses may be applied to this area, with the exceptions described under the “Requirements for CHSS Majors,” so that the student’s entire coursework, including the above requirements, totals 120 semester credit hours.

**Minor Programs**
Students seeking minors in CHSS must maintain a grade point average for all courses taken at UH-Downtown of at least 2.0, receive a grade of C or better in all courses applied toward the minor, and must meet all requirements of the chosen minor, including prerequisites for courses taken toward the minor. All minor programs in the Department of Social Sciences require at least 9 hours upper-level coursework in residence at UHD. Internship/field experience courses may not apply toward any minors in the Department of Social Sciences.

**Minor in History Requirements**
6 lower-level SCHs in HIST: complete 6 semester credit hours from HIST 1305, HIST 1306, HIST 1312, and HIST 1314.
12 upper-level SCHs in HIST: complete 12 semester credit hours of history at the 33XX or 43XX level.

**Minor in International Politics Requirements**
POLS 2303  United States Government I
POLS 2304  United States Government II
POLS 3308  Introduction to World Politics
**6 upper-level SCHs:** (9 hours) Select from the following:
POLS 4305  War in the Modern World
POLS 4308  East and Southeast Asian Politics
POLS 4309  Dictatorship and Democracy in the Developing World
POLS 4310  International Terrorism
POLS 4312  Dictatorship and Democracy in Europe, Russia and the United States
POLS 4314  US Foreign Policy since World War II
POLS 4316  Politics of the Middle East
POLS 4318  International Political Economy
POLS 4322  Geopolitics of the Americas

**Minor in Military Leadership**
To qualify for a minor in military leadership, students must complete a minimum of 18 semester credit hours of coursework in Military
Science, of which:
- 15 semester credit hours must be advanced.
- Nine semester credit hours must be completed in residence, of which six semester credit hours must be advanced.
- Students must also attend advanced camp.

Students must attain a 2.00 grade point average or higher in all military science courses attempted.
Students may receive credit for 1000- and 2000-level courses based on prior military training, completion of ROTC Basic Camp, completion of JROTC training, or completion of one year at a service academy.
The following may be used as substitutes for MSCI 4398 (and therefore as one of the required UL courses):
HIST 3304  The Vietnam War
HIST 3311  U.S. Military History
HIST 4307  Jacksonian American

Minor in Philosophy
6 lower-level SCHs: complete 6 semester credit hours from any combination of Philosophy (PHIL) courses at the 13XX or 23XX level.
9 upper-level SCHs: complete 9 hours from any combination of 33XX or 43XX Philosophy (PHIL), HUM 2301 or HUM 2302.
NOTE: At least six of the 15 hours must be taken at UHD.

Minor in Political Science
POLS 2305  Federal Government
POLS 2306  Texas Government
12 upper-level SCHs: complete 12 semester credit hours in Political Science (POLS) at the 33XX or 43XX level.

Minor in Psychology
PSY 1303;  Introduction to Psychology
9 SCHs in Soc. Sci.: complete 9 semester credit hours from the following options: Any PSY at the 33XX or 43XX level, SOS 2308, SOS 3301, SOS 3304, SOSE 3320.
6 SCHs in PSY: complete 9 semester credit hours from Psychology (PSY).

Minor in Public Policy and Administration
POLS 2303  United States Government I
POLS 2304  United States Government II
POLS 3301  Introduction to Public Administration
9 SCHs in pub. pol.:) Select 9 semester credit hours from the following:
- POLS 3300  Ethics and Public Life
- POLS 3302  Public Policy Analysis
- POLS 3303  Urban Politics
- POLS 4307  Participation and Democracy in American Politics
- POLS 4315  Education Policy and Administration
- POLS 4317  State and Local Government
- POLS 4319  Non-Profit Organizations in American Society
- POLS 4399  Political Science Capstone Seminar

Minor in Quantitative Methods in Research
SOS 2304  Research Methods in the Social Sciences
MATH 1305  Finite Mathematics with Applications
STAT 3310  Statistical Analyses and Applications II
6 SCHs in upper-level research: complete 6 semester credit hours from the following courses: STAT 4306, STAT 4307, STAT 4309, STAT 4310, or PSY 4308.
3 SCHs in Phil: complete 3 semester credit hours from the following courses: PHIL 3302, PHIL 2384, or PHIL 3384.
NOTE: MATH 1301 serves as a prerequisite for most of the courses in this minor.

Minor in Sociology
SOC 1303  Introduction to Sociology
6 SCHs: complete 6 semester credit hours from any Sociology course (SOC) and/or SOS 2308.
9 upper-level SCHs: complete 9 semester credit hours from the following list of 33XX or 43XX level Sociology course and/or SOC 3301.

Pre-Law Studies
Nancy Lopez, PhD, Advisor
N1019, 713-221-8424

Students interested in pre-law studies, regardless of their major, may contact Dr. Lopez.

Air Force ROTC
( Cooperative Program with University of Houston)
To register for courses, inquire in the Department of Social Sciences, 713-221-8014. For all other purposes, contact the Air Force Science program at UH, 713-743-4932.
Col. Phil Bossert, Commander

The Air Force Reserve Officer Training (ROTC) program prepares men and women of character, commitment, and courage to assume leadership positions as commissioned officers in the active duty United States Air Force. Upon completion of the curriculum, students will have a thorough understanding of the core values, leadership, teamwork, and other requirements to be an effective officer in the US Air Force.

All courses and physical training sessions take place at the University of Houston. Flight orientation occurs at airports in the Houston metro area.

Course Credit
ROTC classes may be taken for elective credit toward any degree plan at the University of Houston-Downtown. Freshman and sophomore level classes are open to all students. No military obligation is incurred as a result of enrollment in these courses. Junior and senior level courses are more restrictive and do require a military obligation. ROTC scholarship students also incur a military obligation.

Four-Year Program
The General Military Course (GMC) is the first half of the four-year ROTC program and is taken during the freshman and sophomore years. This program allows the student to experience Air Force ROTC without obligation (unless the student is on an Air Force ROTC scholarship).

Each semester of the GMC consists of one classroom hour of instruction as well as Leadership Laboratory each week. During the first two years, the student will learn about the Air Force and the historical development of aerospace power. During the summer preceding the junior year, the student will compete for the opportunity to attend a four-week Field Training Unit. Successful completion of field training is mandatory for entrance into the Professional Officer Course (POC), the junior and senior years of the four-year program.

As a junior, the student will study the core values, leadership, teamwork, and management tools required to become an effective Air Force officer.

During the senior year students study the national security policy process, regional and cultural studies, and complete final requirements for commissioning as second lieutenants. Enrollment in the POC is open to graduate students if they have four semesters of school remaining. Each semester of the POC consists of three classroom hours of instruction as well as Leadership Laboratory each week.

Leadership Laboratory
As an Air Force ROTC cadet, each student is required to attend an additional two-hour class known as Leadership Laboratory. Although not part of the academic class requirement, it is an essential element of officer training. Leadership Laboratory is an intensive, military training program in which students gain invaluable leadership and managerial experience while learning about the Air Force way of life. Students have numerous opportunities to hear guest speakers and panel discussions, participate in field trips, and experience practical leadership exercises.

AFROTC Scholarship Opportunities
Air Force ROTC offers various scholarship opportunities for students at the University of Houston-Downtown:
• In-College Scholarship Program (ICSP)—is a highly competitive scholarship program aimed primarily at college freshmen and sophomores in any major (students with a bachelor's degree can compete to earn a master's degree). The ICSP awards cover tuition capped at either $15,000 per year plus $750 per year for books or $9,000 per year plus $750 per year for books.

• The Express Scholarship Program—is operated on a fully qualified basis: those who meet the qualifications are awarded the scholarship. Though the list of eligible college majors differs from year to year, the express scholarship pays up to $15,000 tuition per year and $750 for books. Recent majors which qualified for express scholarships included electrical engineering, computer science, and strategic foreign languages. The processing of the scholarship award is completed at the local detachment.

• Stipend: All AFROTC scholarship recipients and POC cadets receive a nontaxable monthly stipend. The annual stipend amount ranges from $2,000 per year to $4,000 per year depending on the recipient's enrollment year.

For additional information on AFROTC scholarship opportunities, please visit the AFROTC website at www.afrotc.com or call 1-800-4AFROTC.

Field Training (FT)
Cadets completing the General Military Course attend four weeks of field training (FT) during the summer at a selected Air Force base. Those who have not completed the GMC attend an extended FT Unit. This rigorous program of leadership training, physical conditioning and academics assesses the cadet's potential to be an Air Force officer. Cadets also receive survival and firearms training and career information. Cadets receive travel pay and daily pay for FT.

Flight Orientation Program
All cadets can volunteer to participate in a joint Air Force ROTC/Civil Air Patrol flight orientation program. This consists of eight flights, four in the front seat of a small passenger aircraft and four additional flights in the back seat as an observer. In addition, an abbreviated flying ground school course is taught in the ROTC classrooms using FAA textbooks. The flight orientation and ground school course are both free for all cadets.

Physical Fitness Training
Cadets meet three times per week at 0600 at the University of Houston Alumni Center to perform physical fitness training. The training is mandatory and emphasizes push-ups, sit-ups, and running in order to pass the USAF physical fitness test.

Professional Development Training (PDT)
Cadets are eligible to compete to attend PDT during the summer months. PDT consists of several programs, including:

• Tours of nearby active duty Air Force bases
• Soaring and free-fall parachuting at the United States Air Force Academy (USAF Academy)
• Cultural and Foreign Language Immersion
• Hands-on research at Air Force laboratories
• Shadowing an Air Force officer in Operation Air Force
• Internships at NASA and other government organizations
• Cadets receive travel pay and daily pay for the majority of these programs.

Army ROTC
(Chapman Program with University of Houston)
To register for courses, inquire in the Department of Social Sciences, 713-221-8014. For all other purposes, contact the Military Science program at UH, 713-743-3875.

Lt. Col. Anthony Landry, Chair

The goal of the US Army ROTC program is to develop technically competent, physically fit and highly motivated men and women for positions of responsibility as commissioned officers in the active Army, the Army Reserve and National Guard. Upon completion of the curriculum, students will have an understanding of the fundamental concepts and principles of the military as an art and as a science. The leadership and managerial experience gained through ROTC provides great benefit for students in both their civilian endeavors and their military careers.
Statutory Authority
General statutory authority for establishment and operation of the ROTC program, including the scholarship program, is contained in Title 10, United States Code, Chapter 103 (Sec. 21022111). Specific rules and procedures are found in US Army Regulation 145-1.

Course Credit
ROTC classes may be taken for elective credit toward any degree plan at the University of Houston-Downtown. Freshman and sophomore level classes are open to all students, regardless of age or physical condition. No military obligation is incurred as a result of enrollment in these courses. Junior and senior level courses are more restrictive and do require a military obligation. ROTC scholarship students also incur a military obligation.

Four-Year Program
The four-year program is divided into two courses: the basic course, which is normally attended by students during their freshman and sophomore years, and the advanced course, attended during the junior and senior years. Advanced course students attend a six-week advanced camp at Fort Lewis, Washington, normally between their junior and senior years.

Basic Course
The basic course consists of four semesters of military science, which includes: MSCI 1210, 1220, 2210 and 2220. These freshman and sophomore level classes are open to all students without obligation.

Advanced Course
Students entering the advanced course must enter into a contract to pursue and accept a commission in the active Army, the Army Reserve or the National Guard. To be considered for contracting into the advanced course, the student must be a full-time student in a course of instruction that leads to a degree in a recognized academic field, have a minimum of two years of academic work remaining in a curriculum leading to a baccalaureate or advanced degree, be under age 30 when commissioned, and pass a physical examination.

Two-Year Program
The two-year program is designed for students who did not take the basic course but are otherwise eligible to enroll in the advanced course. This program allows students completing their sophomore year to attend a five-week “basic camp” during June and July at Fort Knox, Kentucky, in lieu of taking the first two years of ROTC. There is no military obligation for attending Basic Camp. The Army provides transportation, room, and board. Students are paid approximately $700 for the five-week period.

Laboratory Requirements
A military science laboratory is required for students enrolling in MSCI 1210, 1220, 2210, 2220, 3310, 3320, 4310 and 4320. This laboratory provides opportunities for marksmanship training, rappelling, drill and ceremonies, communications training, and other activities.

Veterans
Veterans who have served on active duty or in the Army Reserve or National Guard are also eligible for the ROTC program. Although veterans are not required to take the Basic Course, they are encouraged to do so. All students, including veterans, must have a minimum of 60 credit hours prior to enrolling in the Advanced Course.

National Guard and Army Reserve Members
Students enrolled in ROTC may also be a member of the Army Reserve or National Guard. Through the Simultaneous Membership Program (SMP), those students enrolled in the Advanced Course will be assigned in a leadership position as a cadet and receive pay and entitlements from the Guard or Reserve in the pay grade of Sergeant (E-5).

Scholarships
The United States Army offers, on a competitive nationwide basis, four-, three-, and two-year scholarships. The scholarships will cover up to $16,000 of tuition. Recipients will also receive benefits for educational fees (to include lab fees), a book allowance and a subsistence allowance of $200 per month. Applicants must be US citizens and must be under age 27 on the anticipated graduation date. Applications are available from the military science department. Veteran applicants can extend the age limit up to a maximum of three years, based on prior active duty service.

Other Financial Aid
All students enrolled in the Advanced Course will receive a subsistence allowance of $200 per month. For more information contact the Military Science Department at the University of Houston (713-743-3875). GI Bill recipients still retain benefits.

**Tuition**
Members of the Army or the National Guard, Texas State Guard, or other reserve forces may be exempted from the nonresident tuition fee and other fees and charges.

**Special Training**
Basic and advanced course students may volunteer for and attend the US Army Airborne and Air Assault courses during June, July and August. Cadet Troop Leadership training positions are also available to Advanced Course cadets during the summer months.

**Miscellaneous**
Cadets in the Advanced Course are paid an allowance of $200 per month during the school year. Military textbooks and uniforms are furnished to all cadets. The Corps of Cadets sponsors an annual military ball in addition to other social events throughout the school year. The Department of Military Science at the University of Houston sponsors extracurricular activities such as the University of Houston Color Guard and the Ranger Challenge Team.
College of Public Service
Leigh Van Horn, EdD, Interim Dean
C430, 713-221-8991

Myrna Cohen, EdD, Associate Dean
C400, 713-221-8907

The College of Public Service is a community-based center for higher learning dedicated to preparing students to enter and/or advance in professional careers in criminal justice, education, and social work. It believes that an educated society creates thoughtful policy and humanistic practices for the betterment of its diverse constituents. The College seeks to instill analytical thinking skills that nurture in students an appreciation of the use of scientific inquiry to solve the problems of our time and encourages creativity and the development of new ideas. It embraces the professional and personal growth of its faculty, staff and students by promoting intellectual collaboration within the school, university, and community at large. The College of Public Service strives to engage in dynamic research that will improve the quality of our area schools, social service organizations and justice institutions, and will instill scholarship, integrity, and responsibility in tomorrow’s leaders.

Center for Public Service and Family Strengths
The Center for Public Service and Family Strengths (CPSFS) and the Institute for Community Research (ICR) are located in rooms C-220 and C-222 within the College of Public Service. The mission of the CPSFS and the ICR is to initiate and develop collaborative partnerships with the community through which we demonstrate our servant leadership, participate in active engagement and mutually beneficial problem solving, and advocate and effect positive change. The CPSFS will incubate, facilitate, and promulgate systemic change through collaboration and community based research with our external stakeholders. Programs in Criminal Justice, Urban Education, Social Work, and the Criminal Justice Training Center are served by the CPSFS, and the Journal of Family Strengths is housed within the Center. Our faculty, students, and staff are currently engaged in a wide variety of public service projects based upon specific needs identified by our partners. Some are focused on education and service, while others include community partners in research.

Programs of Study
Degree Programs:
Bachelor of Arts with major in Interdisciplinary Studies (Elementary and Middle School Education)
Bachelor of Science with major in Criminal Justice
Bachelor of Applied Arts and Sciences Degree Major in Criminal Justice
Bachelor of Social Work
Post-baccalaureate Teacher Certification

Admission and Declaration for Urban Education Degree Program
The University of Houston-Downtown’s teacher education program offers certification in elementary, secondary, and bilingual education. Students wishing to obtain EC-6 Core Subjects with ESL Supplemental, EC-6 Core Subjects with Bilingual Supplemental, and 4-8 Core Subjects with ESL Supplemental certification will need to take courses in a variety of academic areas.

Students wishing to obtain secondary certification may choose from the following subject areas: Mathematics, English-Language Arts and Reading, History, Social Studies with Composite Social Studies Certification, Life Science, Physical Science, and Composite Science.

Declaration as an Urban Education Pre-Major
Students who are continuing at UHD will be declared as a Pre-Urban Education major with the following requirements:
• Cumulative GPA of 2.3 or higher
Students who are transferring to UHD will be declared as a Pre-Urban Education major with the following requirements:
• Cumulative GPA of 2.3 or higher
Freshman who are admitted to UHD will be declared as a Pre-Urban Education major with the following requirements:
• High School GPA of 2.5 or higher
• Freshman admission requirements met

**Formal Declaration as an Urban Education Major**

Students who meet the following formal admission criteria to Teacher Education will be declared as Urban Education majors:

- Submission of application to the program
- A minimum 2.5 overall grade point average
- Completion of 30 semester credit hours (SCH) of course work
- TSI Requirement met
- Be in good academic standing with the university
- Completion of all developmental courses, if required
- Earned credit in ENG 1301 and 1302 with a grade of “C” or higher
- Earned credit in MATH 1301 with a grade of “C” or higher
- Earned credit in American History component with a grade of “C” or higher
- Earned credit in Life and Physical Sciences component with a grade of “C” or higher

Teacher education students must be approved for the professional development sequence. The courses in the professional development sequence are closed to non-teacher education students. Students interested in the teacher education program should contact the College Advising Center at 713-221-8906 or visit C-420 (Commerce Street Building).

Students who do not meet the Pre-Urban Education Major or Formal Urban Education Major criteria above do not qualify for admission to the Urban Education Program and will be classified as an Undeclared Major with Urban Education Interest.

**Admission and Declaration for Social Work Degree Program**

**Declaration as a pre-major in Social Work**

Students who are continuing at UHD will be declared as a Pre-Social Work Major with the following requirements:

- Cumulative GPA of 2.3 or higher

Students who are transferring to UHD will be declared as a Pre-Social Work Major with the following requirements:

- Cumulative GPA of 2.3 or higher

Freshman who are admitted to UHD will be declared as a Pre-Social Work Major with the following requirements:

- High School GPA of 2.5 or higher
- Freshman admission requirements met

**Formal Declaration as Social Work Major**

Students who meet the following formal admission criteria to Social Work will be declared as Social Work majors:

- Completion of all required developmental courses;
- Completion of a minimum of 30 college credit hours
- Be in good academic standing.
- Submission of a completed Social Work Program admission application packet;
- Have a GPA of 2.5 or greater for the most recent 30 hours of college credit hours that have been taken in the past five years. (Although UH-Downtown accepts earned credits older than 5 years, the Social Work Program does not include grades for courses more than five years old in its admissions GPA calculation.)

Students considering applying to the program are encouraged to take SOCW 2361 and SOCW 2363 as soon as possible; these two required courses are open to non-majors and serve as prerequisites for upper-level Social Work courses.

Admission to the Social Work Program is a competitive process. All students who wish to major in Social Work must complete a separate, admissions application for the Social Work major which is available on-line. Applications are accepted and reviewed on a rolling basis throughout the year.

As part of the social work admissions process, a student must:

- Submit a Social Work Program admissions application form
- Submit to the Social Work Program a copy of transcripts from all colleges/universities attended.
• Have a GPA of 2.5 or greater for the most recent 30 hours of college credit hours that have been taken in the past five years. (Although UH-Downtown accepts earned credits older than 5 years, the Social Work Program does not include grades for courses more than five years old in its admissions GPA calculation.)
• Submit two references in support of their application; and
• Submit an admissions essay

**NOTE:** Forms available at: [https://www.uhd.edu/academics/public-service/social-work/Pages/bsw-admissions-application.aspx](https://www.uhd.edu/academics/public-service/social-work/Pages/bsw-admissions-application.aspx)

Students who do not meet the Pre-Social Work Major or Formal Social Work Major criteria above do not qualify for admission to the Social Work Program and will be classified as an Undeclared Major with Social Work Interest.

**Admission and Declaration for Criminal Justice Degree Program**

All undergraduate students at UH-Downtown are assigned for academic advising to University College until they are accepted into one of the degree programs.

Declaration as a major in Bachelor of Science in Criminal Justice and Bachelor of Applied Arts and Sciences in Criminal Justice require the following:

- Continuing students at UHD must have a UHD GPA of 2.0 or higher.
- Students transferring to UHD must have a transfer GPA OF 2.0 or higher
- Freshmen who meet the Freshman Admissions criteria will be declared upon admission to the university.

Students who do not meet the criteria above do not qualify for admission into the Criminal Justice degree programs and based upon their respective interest will be classified as one of the following pre-majors: Pre-Criminal Justice (B.S.) or Pre-Criminal Justice (B.A.A.S.).

**Department of Criminal Justice and Social Work**

**Barbara Belbot**, J.D., Ph.D., Chair
C340, 713-221- 8983

**Ashley Blackburn**, Ph.D., Assistant Chair
C340, 713-222-5326

**Criminal Justice**

**Faculty**
Professors: Belbot, Snell, Wang, Wernet
Associate Professors: Ahmad, Blackburn, Buckler, Fowler, Pelz,
Assistant Professors: Brusman-Lovins, Gehring, Harris,
Cavanaugh, Karson, Pfeffer, Valcore
Lecturers: Hill, Karas

**Social Work**

**Faculty**
Professors: Wernet
Associate Professors: McCarty
Assistant Professors: Goltz
Lecturers: Smith, Goins

**Programs of Study**
Bachelor of Applied Arts and Sciences in Criminal Justice
Bachelor of Science in Criminal Justice
Bachelor of Social Work
Mission and Objectives
The mission of the Department is to prepare students for public service careers in the fields of criminal justice and social work. In furtherance of this mission, the faculty recognize the connection between excellence in education, research, scholarship, and service with applied, theoretical, and policy relevance. Thus the Department strives to provide students with knowledge, skills and values that are sufficient to serve in social service and criminal justice systems, prepare them for professional and managerial careers as well as research and advanced study.

Honor Society
Alpha Phi Sigma - National Criminal Justice Honor Society
Phi Alpha-Tau Delta Chapter - Honor Society for Social Work

Student Organizations
Social Work Student and Community Advocacy Network (SWSCAN)
Professional Society of Criminal Justice Students

Bachelor of Applied Arts and Sciences (BAAS)
Barbara Belbot, J.D., Ph.D. Chair
C340, 713-221-8983

Ashley Blackburn, Ph.D., Assistant Chair
C340, 713-222-5326

CPS Academic Advising
C420, 713-221-8906

Major in Criminal Justice
The BAAS in Criminal Justice provides a seamless transfer from community colleges for AAS graduates, however, students do not have to complete an AAS degree in order to be admitted into the BAAS in Criminal Justice program.

Program Outcomes
Graduates who earn a BAAS in Criminal Justice will be able to:

- Critically analyze crime and justice issues.
- Apply criminological and justice system theories to the study of crime and justice.
- Communicate effectively about criminal justice topics.
- Analyze criminal justice ethical dilemmas and develop sound courses of action.

BAAS Degree Requirements (120 hours)
The BAAS Degree requires a minimum of 120 hours. At least 25% of the semester credit hours must be earned through instruction offered by UH-Downtown. At least 18 hours must reflect approved upper-level courses. 30 semester credit hours must be taken at UH-Downtown. The degree requires a minimum of 24 upper-level criminal justice hours earned at UH-Downtown. An overall minimum grade point average of 2.0 at UH-Downtown is required for graduation, and a minimum average of 2.0 must be maintained in the upper-level hours in the major.

Common Core Requirements (42 hours)
Must meet Common Core Requirements listed in this Catalog.

Completed AAS Degree or 20 hours of credit for completion of a Texas Basic Peace Officer Certificate from a TCOLE approved peace officer academy. BAAS Criminal Justice Major Requirements (12 Hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 3301</td>
<td>Criminology</td>
</tr>
<tr>
<td>CJ 3303</td>
<td>Criminal Justice Cornerstone</td>
</tr>
<tr>
<td>CJ 3311</td>
<td>Criminal Justice Ethics</td>
</tr>
</tbody>
</table>
Prescribed Elective Courses (Select any 6 courses listed below) (18 hours)
CJ 3300  Research Methods in Criminal Justice
CJ 3302  Criminal Investigation
CJ 3304  Criminal Law
CJ 3305  Criminal Evidence and Procedure
CJ 3306  Crime and Delinquency
CJ 3307  Community Oriented Policing
CJ 3309  Security and the Law
CJ 3308  Juvenile Justice System
CJ 3312  Prisons in America
CJ 3313  Community-Based Corrections
CJ 3316  Victimology
CJ 3317  Race and Crime
CJ 3318  Sex Crimes
CJ 3319  Legal Research
CJ 3320  Statistics in Criminal Justice
CJ 4301  Criminal Justice Administration
CJ 4302  Organized Crime
CJ 4303  Vice, Drugs, and the Law
CJ 4304  White Collar Crime
CJ 4305  Evidence-Based Corrections
CJ 4306  Domestic Terrorism
CJ 4307  Rights of the Convicted
CJ 4309  Media and Crime
CJ 4311  Security Management
CJ 4313  International Criminal Justice
CJ 4314  Women and the Criminal Justice System
CJ 4390  Special Topics in Criminal Justice

Free Upper Division Electives (12 hours)
Select 4 upper level courses. They may be from any area. Prerequisites may apply. Electives are an important part of the degree program and should be selected in consultation with an academic advisor.

BSCJ Degree Requirements (120 hours)

Barbara Belbot, J.D., Ph.D. Chair
C340, 713-221-8983

Ashley Blackburn, Ph.D., Assistant Chair
C340, 713-222-5326

CPS Academic Advising
C420, 713-221-8906

Major in Criminal Justice
Course work leading to a bachelor’s degree equips students with a foundation in criminological theories and criminal justice processes, including analytical and critical thinking skills. The Criminal Justice faculty strive to prepare students to be effective leaders in criminal justice and related fields, as well as research and advanced studies.

Program Outcomes
Graduates who earn a BS in Criminal Justice will be able to:
• Critically analyze crime and justice issues.
• Apply criminological and justice system theories to the study of crime and justice.
• Communicate effectively about criminal justice topics.
• Analyze criminal justice ethical dilemmas and develop sound courses of action.
• Apply research methods and statistical analyses to criminal justice problems.

**Degree Requirements**

The Criminal Justice Major requires a minimum of 120 hours. At least 25% of the semester credit hours must be earned through instruction offered by UH-Downtown. 24 hours of Criminal Justice coursework must be at the upper level, and 24 hours must be completed as course work at UH-Downtown. 30 of the total hours and 18 of the upper-level hours toward the degree must be successfully completed in residence at UH-Downtown. The degree requires a minimum of 36 upper-level hours. An overall minimum grade point average of 2.0 at UH-Downtown is required for graduation, and a minimum average of 2.0 must be maintained in the upper-level hours in the major.

**Preparatory Requirements**

**Common Core Requirements (42 hours)**

See listing under Common Core Requirements in this Catalog

**Degree Requirements**

ENG 3302: Business and Technical Report Writing OR ENG 3308: Legal Writing

**Criminal Justice Core (21 hours)**

CJ 1301  Introduction to Criminal Justice
CJ 2301  The Police System
CJ 2302  The Criminal Court System
CJ 2303  The Correctional System
CJ 3300  Research Methods in Criminal Justice
CJ 3301  Criminology
CJ 3311  Criminal Justice Ethics
CJ 3320  Statistics in Criminal Justice
CJ 4370  Senior Seminar in CJ

**Criminal Justice Electives (21 hours)**

Choose 21 hours (7 courses) from the list below:

CJ 3302  Criminal Investigation
CJ 3303  Criminal Justice Cornerstone
CJ 3304  Criminal Law
CJ 3305  Criminal Evidence and Procedure
CJ 3306  Crime and Delinquency
CJ 3307  Community Oriented Policing
CJ 3308  Juvenile Justice System
CJ 3309  Security and the Law
CJ 3312  Prisons in America
CJ 3313  Community-Based Corrections
CJ 3316  Victimology
CJ 3317  Race and Crime
CJ 3318  Sex Crimes
CJ 3319  Legal Research
CJ 4301  Criminal Justice Administration
CJ 4302  Organized Crime
CJ 4303  Vice, Drugs, and the Law
CJ 4304  White Collar Crime
CJ 4305  Evidence-Based Corrections  
CJ 4306  Domestic Terrorism  
CJ 4307  Legal Rights of the Convicted  
CJ 4309  Media and Crime  
CJ 4311  Security Management  
CJ 4312  Research Topics  
CJ 4313  International Criminal Justice  
CJ 4314  Women and the Criminal Justice System  
CJ 4380  Field Experience in Criminal Justice  
CJ 4390  Special Topics in Criminal Justice  

Criminal Justice Writing Intensive Courses (6 hours)  
Students must take two upper-division Criminal Justice courses that include substantial written assignments. These courses, designated as "W courses", assure students of opportunities to use and further refine their writing skills within the context of the major field of study. The following upper-division criminal justice courses have been designated as writing intensive:  
CJ 3301  Criminology  
CJ 3311  Criminal Justice Ethics  
CJ 4370  Senior Seminar in Criminal Justice  

Supplemental Concentration (12 hours)  
Students must select 12 hours of non-criminal justice course work of which nine hours must be 3000-4000 level courses. The courses must be approved by the criminal justice advisor in the College of Public Service.  

Electives (9-15 hours)  
To be selected from any department at any level, with the following restrictions: Developmental courses (ENG 1300, MATH 0300, MATH 1300 and RDG 1300), or their equivalent, which may not apply to graduation requirements. No more than 25% of the hours presented for graduation may be credits in business. Electives are an important part of the degree program and should be selected in consultation with an academic advisor. (If the world community requirement is fulfilled by any course that meets another degree requirement, the total of elective hours is 9-15.)  

Minor  

General Academic Requirements for Minors  

- Student must have a 2.0 cumulative GPA or better at UHD to be approved to pursue a minor.  
- Student must have a 2.0 GPA or better in courses in the minor to be certified at graduation.  
- No field experience course may be applied to a minor program.  
- The minor field elected must be different from the major.  
- A student must complete all course work required for the minor in addition to all course work required for the degree prior to graduation certification.  

Students should note that in some instances courses listed as requirements or options for the minor program may have prerequisites that are not listed as part of the program. The procedures for declaring a minor are available from the College of Public Service Advising Office, Suite C420.  

Minor in Criminal Justice (18 hours minimum)  
CJ 1301  Introduction to Criminal Justice  
CJ 2301  The Police System  
CJ 2302  The Criminal Court System  
CJ 2303  The Correctional System  
CJ 3301  Criminology  
3 hours of upper-level Criminal Justice courses  

Minor in Security Management (18 hours minimum)  
Required Core Courses (9 hours)  
BA 3300  Business Cornerstone  

CJ 3309  Security and the Law
CJ 4311  Security Management

Choose from following electives (9 hours)
BA 3308  Business Ethics
CJ 4304  White Collar Crime
CJ 4306  Domestic Terrorism
ECO 3310  Current Issues in Economics
POLS 4310  International Terrorism
PSY 3301  Industrial/Organizational Psychology

Bachelor of Social Work

Dawn McCarty, PhD, LMSW, Program Director
Room C345, 713-221-2729

SOCW Academic Advising
713-222-5333

Faculty
Professor: Wernet
Associate Professor: McCarty
Assistant Professor: Goltz
Lecturer: Smith, Goins

Mission and Objectives
The Mission of UHD's Bachelor of Social Work Program is to prepare entry-level social workers for evidence-based, justice-oriented, generalist practice in an urban environment.

The Vision of the Program is to prepare Social Workers to address 21st century issues in the global environment.

The BSW program at UHD focuses on preparing a generalist social worker so that upon graduation the student is prepared to work with clients in a variety of settings. Social workers operate in school, hospital, mental health, juvenile justice settings, and more performing tasks such as case management, client advocacy, and counseling.

The program goals are:

1. To provide access to social work education to students from diverse backgrounds, cultures, and socio-economic statuses, and prepare students for future professional development and graduate study.

2. To educate entry-level practitioners to the social work profession with an emphasis on its unique history, values, and ethical base

3. To prepare baccalaureate-level social workers for culturally-sensitive, generalist practice in an interconnected world

4. To promote understanding of urban and global social problems while preparing professional workers to empower, advocate, and otherwise meet the needs of marginalized populations and work for organizational and social change
Accreditation
The Social Work Program is accredited by the Council on Social Work Education (CSWE).

Program Competencies
Graduates who earn a BSW will be able to:

- Demonstrate Ethical and Professional Behavior
- Engage Diversity and Difference in Practice
- Advance Human Rights and Social, Economic, and Environmental Justice
- Engage in Practice-informed Research and Research-informed Practice
- Engage in Policy Practice
- Engage with Individuals, Families, Groups, Organizations, and Communities
- Assess Individuals, Families, Groups, Organizations, and Communities
- Intervene with Individuals, Families, Groups, and Communities
- Evaluate Practice with Individuals, Families, Groups, Organizations, and Communities

Degree Requirements
The Bachelor of Social Work requires a minimum of 120 hours. For degree completion, at least 30 hours in the degree must be completed in residence at UH-Downtown. A minimum grade point average of 2.5 both at UH-Downtown and in the Social Major, and a grade of C or better in all Social Work courses are required for graduation. Students accepted into the program must meet with the Social Work advisor during the first semester, and at least once each semester thereafter, to develop and review her/his official Degree Plan. Students should note that many Social Work courses must be taken in sequence and may not be available every semester.

General Education Requirements

**Common Core Requirements (42 hours)**
See listing under Common Core Requirements in this Catalog. It is recommended that for the Common Core, Behavioral Science requirement, a student take one of the following courses: ANTH 2302, PSY 1303, SOC 1303, SOCW 2361, or SOCW 2363 as each meets program requirements. If one of these courses is taken as part of the common core requirement, the student will have one additional free elective.

**Major Requirements (45 hours)**
- SOCW 2361 Introduction to Social Work and Social Welfare*
- SOCW 2363 Introduction to Social Welfare Policy*
- SOCW 3311 Urban Practice I
- SOCW 3312 Urban Practice II
- SOCW 3313 Case Management
- SOCW 3350 Research Methods in Social Work
- SOCW 3351 Statistical and Qualitative Data Analysis for Social Work
- SOCW 3361 Human Behavior in the Social Environment I*
- SOCW 3362 Human Behavior in the Social Environment II*
- SOCW 3363 Urban Issues in a Global Environment*
- SOCW 3364 Social Justice & Professional Ethics*
- SOCW 4301 Field Practicum I
- SOCW 4302 Issues in Field Practicum I
- SOCW 4303 Field Practicum II
- SOCW 4304 Issues in Field Practicum II

*indicates course is open to non-majors, prerequisites will apply as indicated in catalog

**Required Supporting Coursework (9 hours)**
- Any Anthropology or Sociology course.
- Any Psychology course.
- Upper-level writing course from the following list: ENG 3305, 3308, 3325, 3326, 3329, 4306
Required Major Electives (6 hours)
Select any two of the following:
SOCW 3331 Practice with Aging Populations
SOCW 3332 Practice with Children & Adolescents
SOCW 4331 Urban Community Organizing
SOCW 4332 Crisis Intervention
SOCW 4390 Special Topics in Social Work (These topics change and may be used as Social Work Elective with the advanced approval of the Social Work Faculty)

Free Electives (18 hours)
Electives are an important part of the degree program and should be selected in consultation with the Social Work advisor. Free electives may be taken from any department at any level, with the following restrictions: Developmental courses (ENG 1300, MATH 0300, MATH 1300 and READ 1300) do not apply to graduation requirements; If a student takes one of the following courses as part of their Common Core, Behavioral Science requirement, (s)he will have 21 hours of free electives: ANTH 2302, PSY 1303, SOC 1303, SOCW 2361, or SOCW 2363.

Bachelor of Social Work - Spanish Track Option

General Education Requirements

Common Core Requirements (42 hours)
See listing under Common Core Requirements in this Catalog. It is recommended that for the Common Core, Behavioral Science requirement, a student take one of the following courses: ANTH 2302, PSY 1303 or SOC 1303 as each meets program requirements. If one of these courses is taken as part of the common core requirement, the student will have one additional free elective. In addition, students are required to take as an additional upper level writing course SPAN 3301: Spanish Grammar and Composition.

Major Requirements (45 hours)
SOCW 2361 Introduction to Social Work and Social Welfare*
SOCW 2363 Introduction to Social Welfare Policy*
SOCW 3311 Urban Practice I
SOCW 3312 Urban Practice II
SOCW 3350 Research Methods in Social Work
SOCW 3351 Statistical and Qualitative Data Analysis for Social Work
SOCW 3361 Human Behavior in the Social Environment I*
SOCW 3362 Human Behavior in the Social Environment II*
SOCW 3363 Urban Issues in a Global Environment*
SOCW 3364 Social Justice & Professional Ethics*
SOCW 3313 Case Management
SOCW 4301 Field Practicum I
SOCW 4302 Issues in Field Practicum I
SOCW 4303 Field Practicum II
SOCW 4304 Issues in Field Practicum II

*indicates course is open to non-majors, prerequisites will apply as indicated in catalog

Required Supporting Coursework (6 hours)
Any Anthropology or Sociology course.
Any Psychology course.

Required Major Electives (6 hours)
Select any two of the following:
SPAN 3320 Professional Oral Communication
SPAN 3000/4000 Any additional upper level SPAN course
Free Electives (18 hours)
If not taken in the Core, the two following courses must be taken as Free Electives:
SPAN 2301  Intermediate Spanish I;  OR  SPAN 2311  Spanish I for Native Speakers
SPAN 2302  Intermediate Spanish II;  OR  SPAN 2312  Spanish II for Native Speakers

Transfer Credit
All social work courses taken at another CSWE-accredited Social Work program will be evaluated for transfer credit eligibility. Depending upon the courses’ learning objectives and content, a maximum of 15 hours of social work courses from other CSWE-accredited programs may be accepted for transfer as social work credit toward the University of Houston-Downtown Social Work degree. These courses will transfer for social work credit only if the student earned a C or better in them. Practice courses and field courses will not transfer for social work credit but may transfer as free electives.

Criminal Justice Training Center
Rex White, Director, 713-221-8690
James Healy MS, Associate Director 713-221-8690

The mission of the Training Center is to provide the best possible training to qualified applicants for the Texas Peace Officer License Exam and to provide advanced law enforcement training to current Texas peace officers in compliance with TCOLE regulations. The Training Center Academy is licensed by the Texas Commission on Law Enforcement (TCOLE) and the academy trains not only the Basic Peace Officer Course but also advanced law enforcement topics that are needed by Licensed Peace Officers for ‘Continuing Education Points’ to maintain their license. The citizens of Texas deserve the best trained peace officers with the highest standards of ethics and professionalism to protect their communities. Each academy class at the Training Center must complete a Community Service project prior to graduation. Service to others is at the heart of our program. Cadets and Staff of the Training Center donate thousands of hours annually to activities that improve our community and the criminal justice profession.

Law Enforcement Training Program
Entry-level training for prospective police officers is provided by the Center’s Police Academy. The academy is certified by the Texas Commission on Law Enforcement. (TCOLE) and is approved for veterans’ benefits through the Texas Education Agency. Approximately 40-50 specialized and advanced courses are offered annually for police officers and other public sector practitioners. Basic and advanced management training courses range from one to 14 weeks in length.

Specialized Certification Courses and Seminars
Specialized training and certification opportunities are provided through unique seminars and courses. Certification courses are available in such diverse areas as emergency medical care and technician training, and management.

UH-Downtown Criminal Justice Training Center Credit
Students who complete the UHD Texas Commission on Law Enforcement. (TCOLE) Basic Peace Officer’s Academy and pass the licensing exam can apply for advanced placement for CJ 2301 (Police Systems) and CJ 2302 (Criminal Courts) by paying an administrative fee of $15. Students must be enrolled at UHD in order to receive credit and may not receive credit for classes in which they are currently enrolled or for which they have already received credit. No other Criminal Justice classes may be substituted. No grade is awarded for credit obtained in this manner. No other academy credit will be accepted.
Department of Urban Education

Ronald S. Beebe, Ph.D. Chair
C440, 713-221-8689

Faculty
Professors: Chen, Cohen, Connell, Van Horn
Beebe, Bhattacharjee, Burnett, Hewitt,
Associate Professors: Mitchell, Pedrana, Sack
Assistant Professors: Belle, Dalton, Kelly, Miller, Pohl,
Lecturers: Bundoc, Nelson, White

Programs of Study
Undergraduate/Post-baccalaureate
Bachelor of Arts with major in:
Interdisciplinary Studies
Alternative Route to Teacher Certification

Certification Areas
Early Childhood–Sixth Grade Core Subjects with ESL Supplemental
Early Childhood–Sixth Grade Core Subjects with Bilingual Supplemental
Fourth–Eighth Grade Core Subjects with ESL Supplemental
Secondary (grades 7-12) (undergraduate degrees to be obtained in science, English, mathematics, or history content-areas) with certifications in the following:

- Bachelor of Science in Biological and Physical Sciences with Concentration in Secondary Teacher Education
- Bachelor of Arts Degree with Major in English with Concentration in Secondary Teacher Education
- Bachelor of Arts Degree Mathematics Major with Concentration in Secondary Teacher Education
- Bachelor of Arts Degree with Major in History with Concentration in Secondary Teacher Education

Mission and Objectives
The Urban Education Department offers preparation for both undergraduate and post-baccalaureate students seeking EC-6 Core Subjects with ESL Supplemental, EC-6 Core Subjects with Bilingual Supplemental (students seeking this option must be proficient in Spanish), 4-8 Core Subjects with ESL Supplemental or secondary certification. The professional development sequence of classes includes field-based courses that are in selected public schools in several Houston metropolitan districts.

Graduates who earn a BA in Interdisciplinary Studies will able to demonstrate:

- Teaching competency in multicultural settings.
- Competency in the factors related to the development of effective teaching environments in urban classrooms.
- Competency in the academic areas of language arts, social studies, mathematics and the natural sciences.
- Competency in the area of computer/technology.
- Competency on the state TExES exams and will be eligible for certification to teach in Texas.

Building upon an understanding of cultural, economic, and linguistic diversity developed through the program’s general education requirements and its Urban Education Core, the three professional development semesters provide opportunities for future teachers to:

- observe and interact with master teachers and divergent learners within the school setting
- interact with children of diverse backgrounds and experiences to create an understanding of themselves, their own culture, and the cultures of others
- develop a community of learners which acknowledges the similarities of diverse members and appreciates differences
- plan and implement effective strategies which ensure academic success for all learners, and
- use technology in effective ways to enhance student achievement.
To promote and ensure student success, the design of the curriculum is based on (a) state certification standards, (b) the Texas Essential Knowledge and Skills, and (c) the state teacher education proficiencies. It is expected that at the end of the teacher education program, the new teacher will have internalized the state identified proficiencies for teacher education and will successfully pass the state examinations required for teacher certification.

**Alternative Route to Certification Program (ACP)**

Post-baccalaureate students seeking certification must pass the appropriate Pre-Admission Content Test, meet the requirements for admission to Teacher Education, and have a minimum 2.5 cumulative grade point average. Students interested in secondary certification must also have a 2.5 GPA in their area of specialization. Students seeking secondary Mathematics or science certifications must also have 24 hours in the content area with 12 hours at the upper division level.

Teacher certification is available in EC-6 Core Subjects with ESL Supplemental, EC-6 Core Subjects with Bilingual Supplemental, 4-8 Core Subjects with ESL Supplemental), and secondary education.

Completers of the Alternative Route to Certification Program will be able to demonstrate:

- Competency in the area of computer technology
- Competency in the area of effective teaching practices and effective teaching environments that enhance student learning
- Teaching competency with diverse students
- Competency on the state TExES exams and will be eligible for certification to teach in Texas

The Alternative Route to Certification Program (ACP) starts in the spring and fall semesters of each academic year. The application deadline for the Alternative Route to Certification Program is: Fall Start – July 15 and Spring Start – November 15. The successful completion of all components of the Alternative Route to Certification program is required before students are recommended for full certification. Please see the Urban Education website for more information.

**Please note:**

As state guidelines change, program revisions may occur. Teacher education programs are developed in response to the Texas Higher Education Coordinating Board and Texas Education Agency (TEA) regulations and guidelines. Thus, course requirements and sequencing are subject to change. All students pursuing teacher certification plans must understand that the advising staff will make every effort to communicate program changes as they occur, but it is the responsibility of each student to stay apprised of any changes that may affect degree plans. Thus, **constant monitoring of plans is necessary, and students are urged to visit regularly with an academic advisor and to check the TEA website for teacher certification changes** (http://www.tea.state.tx.us/).

**Honor Society**

Kappa Delta Pi

**Student Organizations**

Urban Educators’ Literacy Society
Bilingual Education Student Organization
Be A Teacher Club

**Requirements for All Undergraduate Degrees**

The degree programs in Urban Education require a minimum of 123 semester credit hours (SCH). For degree completion, the last 33 SCH, representing the professional development and field-based courses, must be earned through instruction offered by the University of Houston-Downtown.

Graduation requires successful completion of all course work including three professional development semesters with field work. In addition, certification requires passing scores on state-mandated certification examinations.
Bachelor of Arts

Major in Interdisciplinary Studies

Students seeking a Bachelor of Arts with a major in Interdisciplinary Studies will select from among three certification programs:

- Early Childhood–Sixth Grade Core Subjects with ESL Supplemental
- Early Childhood–Sixth Grade Core Subjects with Bilingual Supplemental
- Fourth-Eighth Grade Core Subjects with ESL Supplemental

Early Childhood–Sixth Grade Core Subjects with ESL Supplemental (123 SCH)

Common Core Requirements (42 hours)

See listing under Common Core Requirements in this Catalog.

Preparatory Requirements (15 hours)

These courses are requirements for the degree and are in addition to the core curriculum. These courses fulfill the Preparatory Requirements for students in the Early Childhood–Sixth Grade Core Subjects with ESL Supplemental certification program.

ECH 2311 Early Childhood Classroom
ECH 2313 Early Childhood Learning Environment
BED 3311 Foundations of Bilingual and ESL Education
PED 3301 Introduction to Special Populations
SOSE 3310 Critical Social Studies Education

Academic Major Courses Component (33 hours)

These courses are preliminary requirements for the degree and are in addition to the core curriculum. These courses fulfill the Academic Major requirements in the Early Childhood-Sixth Grade Core Subjects with ESL Supplemental certification program.

ETC 3301 Educational Technology
SOSE 3306 Culture of Urban Schools
READ 3305 Foundations of Literacy
ESL 3303 Instruction and Assessment of English Language Learners (EC-8)
PED 3304 Aesthetic and Physical Development
READ 3306 Language and Literacy Development
MATH 3321 Math Concepts I (prerequisites: MATH 1301 with a grade of C or better)
MATH 3322 Math Concepts II (prerequisites: MATH 1301 with a grade of C or better)
NS 3310 Physical Science Studies
NS 3312 Life Sciences Studies
READ 3307 Language Arts Instruction EC-12

Professional Development Sequence (33 hours)

The Professional Development courses require concurrent enrollment in specific courses. Professional Development I and II both require a minimum of 60 hours of classroom field experience. Professional Development III represents a full semester, full-day student teaching experience. In order to successfully complete each professional development semester, students must demonstrate mastery of the content. Thus it is highly recommended that preparatory and academic courses be taken before beginning the Professional Development Semesters. Admission to the professional development semesters is approved by the advisor/coordinator of the Urban Education Department.

Professional Development I

Prerequisites: Admission to Teacher Education Program and Core Complete, ECH 2311, ECH 2313, ESL3303, READ 3305, READ 3306;
Pre- or Corequisites: ETC 3301, MATH 3321, MATH 3322, READ 3307, SOSE 3306, Concurrent enrollment: PED 3305, EED 3312, READ 3303 and PED 4380
PED 3305 Understanding the Early Childhood through Twelfth Grade Learner
EED 3312 Effective Teaching Strategies in Mathematics Education
READ 3303 Literacy Curriculum, Methods, and Assessment EC-2
PED 4380 Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field experience)

Professional Development II
Prerequisites: Successful completion of Professional Development I
Pre- or Corequisites: NS 3310 and NS 3312
Concurrent enrollment: EED 3311, EED 3315, READ 4303 and PED 4381
EED 3311 Teaching Social Studies in the Elementary Classroom
EED 3315 Effective Teaching Strategies in Science Education
READ 4303 Literacy Curriculum, Methods, and Assessment 3-6
PED 4381 Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field experience)

Professional Development III
These courses represent a full semester, full-day student teaching experience.
Prerequisites: Successful completion of Professional Development I and II and completion of all other courses on the degree plan.
EED 4301 Student Teaching in the Elementary Classroom
EED 4304 Student Teaching in the Early Childhood Classroom
SOSE 4303 Current Issues in Urban Teaching

Please note:
As state guidelines change, continual program revisions may occur. Teacher education programs are developed in response to the Texas Higher Education Coordinating Board and Texas Education Agency (TEA) regulations and guidelines. Thus, course requirements and sequencing are subject to change. All students pursuing teacher certification plans must understand that the advising staff will make every effort to communicate program changes as they occur, but it is the responsibility of each student to stay apprised of any changes that may affect degree plans. Thus constant monitoring of plans is necessary, and students are urged to visit regularly with an academic advisor and to check the TEA website for teacher certification changes (http://www.tea.state.tx.us/).

Early Childhood–Sixth Grade Core Subjects with Bilingual Supplemental (123 SCH)

Common Core Requirements
See listing under Common Core Requirements in this Catalog. (42 hours)

Preparatory Requirements (9 hours)
These courses are preliminary requirements for the degree and are in addition to the core curriculum. These courses fulfill the Preparatory Requirements for students in the Early Childhood–Sixth Grade Core Subjects with Bilingual Supplemental certification program.

ECH 2311 Early Childhood Classroom
ECH 2313 Early Childhood Learning Environment
PED 3301 Introduction to Special Populations (prerequisite: SOSE 3306)

Academic Major Courses (39 hours)
These courses are preliminary requirements for the degree and are in addition to the core curriculum. These courses fulfill the Academic Major requirements for students in the Early Childhood–Sixth Grade Core Subjects with Bilingual Supplemental certification program.
ETC 3301  Educational Technology
PED 3304  Aesthetic and Physical Development
READ 3305  Foundations of Literacy
READ 3306  Language and Literacy
SOSE 3306  Culture of Urban Schools

READ 3317  Language Arts Instruction for Bilingual/ESL
BED 3311  Foundations of Bilingual and ESL Education
BED 3307  Academic Proficiencies for the Bilingual Classroom Teacher
MATH 3321  Math Concepts I (prerequisite: MATH 1301 or 1310 with a grade of C or better)
MATH 3322  Math Concepts II (prerequisite: MATH 1301 with a grade of C or better)
NS 3310  Physical Science Studies
NS 3312  Life Sciences Studies
PED 3314  Children's Literature in Spanish

Professional Development Sequence (33 hours)
The Professional Development courses require concurrent enrollment in specific courses. Professional Development I and II both require a minimum of 60 hours of classroom field experience. Professional Development III represents a full semester, full-day student teaching experience. In order to successfully complete each professional development semester, students must demonstrate mastery of the content. Thus it is highly recommended that preparatory and academic courses be taken before beginning the Professional Development Semesters. Admission to the professional development semesters is approved by the advisor/coordinator of the Urban Education Department.

Professional Development I
Prerequisites: Admission to the Teacher Education Program and Core Complete, ECH 2313, READ 3305, PED 3314, BED 3311, READ 3317
Pre- or Corequisites: BED 3307, ETC 3301, MATH 3321, MATH 3322, SOSE 3306,
Concurrent enrollment: PED 3305, EED 3312 READ 4306, and PED 4380
PED 3305  Understanding the Early Childhood through Twelfth Grade Learner
EED 3312  Effective Teaching Strategies in Mathematics Education
READ 4306  Literacy Curriculum, Methods, and Assessment in Bilingual/ESL
PED 4380  Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field experience)

Professional Development II
Prerequisites: Successful completion of Professional Development I, MATH 3321, MATH 3322
Pre- or Corequisite: NS 3310, NS 3312
Concurrent enrollment: BED 4301, EED 3311, EED 3315, and PED 4381
BED 4301  Teaching Language Arts and Reading in Spanish
EED 3311  Teaching Social Studies in the Elementary Classroom
EED 3315  Effective Teaching Strategies in Science Education
PED 4381  Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field experience)

Professional Development III
These courses represent a full semester, full-day student teaching experience.
Prerequisites: Successful completion of Professional Development I and II and completion of all other courses on degree plan.
EED 4303  Student Teaching in the Bilingual/ESL Classroom
EED 4304  Student Teaching in the Early Childhood Classroom
SOSE 4303  Current Issues in Urban Teaching

Please note:
As state guidelines change, continual program revisions may occur. Teacher education programs are developed in response to the Texas Higher Education Coordinating Board and Texas Education Agency (TEA) regulations and guidelines. Thus, course requirements and sequencing are subject to change. All students pursuing teacher certification plans must understand that the
advising staff will make every effort to communicate program changes as they occur, but it is the responsibility of each student to stay apprised of any changes that may affect degree plans. Thus constant monitoring of plans is necessary, and students are urged to visit regularly with an academic advisor and to check the TEA website for teacher certification changes (http://www.tea.state.tx.us/).

Fourth–Eighth Grade Core Subjects with ESL Supplemental (123 SCH)

Common Core Requirements (42 hours)
See listing under Common Core Requirements in this Catalog. (42 hours)

Preparatory Requirements (12 hours)
These courses are requirements for the degree and are in addition to the core curriculum. These courses fulfill the Preparatory Requirements for students in the 4-8 Core Subjects with ESL Supplemental certification program.

BED 3311 Foundations of Bilingual and ESL Education
HIST 2316 Introduction to World History II
ENG Select one course from the following: (Prerequisite: 3 hours of literature unless noted otherwise)
   ENG 3305 Essay Writing
   ENG 3318 Studies in English Grammar
   ENG 3319 Introduction to the Study of Languages
SOSE 3310 Critical Social Studies Education

Academic Major Courses (36 hours)
These courses are preliminary requirements for the degree and are in addition to the core curriculum. These courses fulfill the Academic Major requirements for students in the 4-8 Core Subjects with ESL Supplemental certification program.

ETC 3301 Educational Technology
PED 3301 Introduction to Special Populations
READ 3305 Foundations of Literacy
READ 3309 Reading in the Content Areas 4-12
SOSE 3306 Culture of Urban Schools
ESL 3303 Instruction and Assessment of English Language Learners (CE-8)
MATH 3321 Math Concepts I (Prerequisites: MATH 1301 with a C or better.)
MATH 3322 Math Concepts II (Prerequisites: MATH 1301 with a C or better)
NS 3310/3312 Physical Science Studies/Life Science Studies (either course)
NS 3311 Earth and Environmental Science Studies
PED 3302 Teaching Middle School Mathematics (prerequisite: MATH 33321, MATH 3322)
READ 3307 Language Arts Instruction

Professional Development Sequence
The Professional Development courses require concurrent enrollment in specific courses. Professional Development I and II both require a minimum of 60 hours of classroom field experience. Professional Development III represents a full semester, full-day student teaching experience. In order to successfully complete each professional development semester, students must demonstrate mastery of the content. Thus it is highly recommended that preparatory and academic courses be taken before beginning the Professional Development Semesters. Admission to the professional development semesters is approved by the advisor/coordinator of the Urban Education Department.

Professional Development I
Prerequisites: Admission to Professional Development Sequence and Core Complete, PED 3302, READ 3305, MATH 3321, MATH 3322
Pre- or Corequisites: ETC 3301, PED 3303, READ 3307, SOSE 3306, ESL 3303
Concurrent enrollment: PED 3305, EED 3312, ESL 3303, and PED 4380
PED 3305  Understanding the Early Childhood through Twelfth Grade Learner
EED 3312  Effective Teaching Strategies in Mathematics Education
PED 3303  Effective Teaching Strategies in Environmental Science Education (prerequisites: six hours from
            BIOL 1310, GEOL 1307, NS 3310, NS 3311, NS 3312,)
PED 4380  Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field
            experience)

Professional Development II
Prerequisites: Successful completion of Professional Development I, READ 3309
Pre- or Corequisites: NS 3310/NS 3312, NS 3311
Concurrent enrollment: EED 3311, EED 3315, READ 3313, and PED 4381
EED 3311  Teaching Social Studies in the Elem Classroom
EED 3315  Effective Teaching Strategies in Science Education
READ 3313  Reading Curriculum, Methods, Assessment, & Diagnosis 4-8
PED 4381  Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field
            experience)

Professional Development III
These courses represent a full semester, full-day teaching experience.
Prerequisites: Successful completion of Professional Development I and II and must have completed all other courses on
            degree plan.
EED 4301  Student Teaching Elementary
EED 4302  Student Teaching Middle School Classroom
SOSE 4303  Issues in Urban Teaching

Please note:
As state guidelines change, continual program revisions may occur. Teacher education programs are developed in response to the
Texas Higher Education Coordinating Board and Texas Education Agency (TEA) regulations and guidelines. Thus, course
requirements and sequencing are subject to change. All students pursuing teacher certification plans must understand that the
advising staff will make every effort to communicate program changes as they occur, but it is the responsibility of each student to
stay apprised of any changes that may affect degree plans. Thus constant monitoring of plans is necessary, and students are urged
to visit regularly with an academic advisor and to check the TEA website for teacher certification changes
(http://www.tea.state.tx.us/).

Secondary Education (33 hours)
Undergraduates seeking secondary certification must meet the requirements of their degree granting college, in addition to those of
Urban Education. Students must meet Urban Education admission requirements and have a 2.5 overall grade point average in their
area of specialization in order to be accepted into the secondary education program. Students will major in their content area and
take the Urban Education certification courses within the degree plan of their major.

Students seeking secondary certification (grades 7-12) will select from the following:

• Bachelor of Science in Biological and Physical Sciences with Concentration in Secondary Teacher Education
• Bachelor of Arts Degree with Major in English with Concentration in Secondary Teacher Education
• Bachelor of Arts Degree Mathematics Major with Concentration in Secondary Teacher Education
• Bachelor of Arts Degree with Major in History with Concentration in Secondary Teacher Education
• Bachelor of Science in Applied Statistics with Concentration in Secondary Teacher certification

Please note:
In order to successfully complete each professional development semester, students must demonstrate mastery of content, this it is
highly recommended that preparatory and academic courses be taken before beginning the professional development semesters.
Admission to the professional development semesters is approved by the advisor/coordinator of the Urban Education Department.
As state guidelines change, continual program revisions may occur. Teacher education programs are developed in response to the
Texas Higher Education Coordinating Board and Texas Education Agency (TEA) regulations and guidelines. Thus, course
requirements and sequencing are subject to change. All students pursuing teacher certification plans must understand that the
advising staff will make every effort to communicate program changes as they occur, but it is the responsibility of each student to stay apprised of any changes that may affect degree plans. Thus constant monitoring of plans is necessary, and students are urged to visit regularly with an academic advisor and to check the TEA website for teacher certification changes (http://www.tea.state.tx.us/).

**Degree Requirements for Secondary Education (33 hours)**

**Support Courses: (6 hours):**
- PED 3301 Introduction to Special Populations
- READ 3309 Teaching Reading in the Content Areas

**Professional Development Sequence (27 hours)**
The Professional Development courses require concurrent enrollment in specific courses. Professional Development I and II both require a minimum of 60 hours of classroom field experience. Professional Development III represents a full semester, full-day student teaching experience. In order to successfully complete each professional development semester, students must demonstrate mastery of the content. Thus it is highly recommended that preparatory and academic courses be taken before beginning the Professional Development Semesters. Admission to the professional development semesters is approved by the advisor/coordinator of the Urban Education Department.

**Professional Development I**
- Prerequisites: admission to the Teacher Education program
- Concurrent enrollment in PED 3305, SED 3312 and PED 4380
- PED 3305 Understanding the Early Childhood through Twelfth Grade Learner
- SED 3312 Organizing and Managing the Classroom Environment in the Secondary School
- PED 4380 Field Experience in Urban Public School Classrooms (A minimum of 60 clock-hours of classroom field experience)

**Professional Development II**
- Prerequisites: Successful completion of Professional Development I
- Concurrent enrollment in SED 3302, SED 3307, and PED 4381
- SED 3302 Enhancing Student Achievement in the Secondary School
- SED 3307 Secondary Teacher Roles in Assessment and Profession
- PED 4381* Field Experience in Urban Public School Classrooms* (A minimum of 60 clock-hours of classroom field experience)
  
  *Students seeking secondary MATH certification take PED 4382

**Professional Development III**
- Prerequisites: Successful completion of Professional Development I and II and completion of all other courses on degree plan.
- READ 4321 Literacy Across the Curriculum 8-12
- SED 4301 Student Teaching in the Secondary School
- SED 4302 Student Teaching in the Secondary School
College of Sciences and Technology

J. Akif Uzman, PhD, Dean
Ermelinda DeLaVina, PhD, Associate Dean
RaShonda Flint, PhD, Assistant Dean
N723, 713-221-8019

The College of Sciences and Technology provides intellectual discipline and academic experiences essential to a sound education. It offers degrees to prepare students to enter professional schools, technical and scientific careers, graduate study and research. The college offers undergraduate courses and programs in computer science, engineering technology, mathematics, natural sciences and statistics. The degree programs offer opportunities for specialization as well as breadth.

The College of Sciences and Technology places the highest emphasis on quality instruction throughout its programs. Bringing the leading edge of science and technology into the classroom is a major goal that the faculty accomplishes by remaining current and active in their fields of specialization. The College of Sciences and Technology faculty offers students frequent opportunities for undergraduate-level research. The UHD Scholars Academy encourages and supports students to pursue and complete undergraduate degrees through intensive faculty mentoring and engagement in extracurricular activities that promote career success.

UHD Scholars Academy
Mary Jo Parker, EdD, Executive Director
N725, 713 221-8471

The Scholars Academy is a competitive scholarship and mentoring program designed for students who want to major in Computer Science, Mathematics, Engineering/Engineering Technology, and all areas of Natural Science, including pre-health programs (i.e. medical, dental, nursing, optometry, PA, pharmacy, veterinary). This competitive program is funded through various sources, such as The Brown Foundation, Inc., National Institutes of Health, National Science Foundation, Nuclear Regulatory Commission, and UHD. Each Academy member receives a scholarship during the academic year; opportunities for summer scholarships and stipends for research participation may also be available. Students applying for admission to the Academy must have a minimum cumulative GPA of 3.0; have a minimum SAT Math and Critical Reading scores of 500 each (for high school applicants); and be enrolled full-time and majoring in one of the degree programs within the UHD College of Sciences and Technology.

Programs of Study
Bachelor of Applied Arts and Sciences with major in:
  Safety Management

Bachelor of Arts with majors in:
  Mathematics
  Mathematics with Secondary Mathematics Teacher Certification

Bachelor of Science with majors in:
  Mathematics
  Applied Statistics
  Applied Statistics with Secondary Mathematics Teacher Certification
  Biological and Physical Sciences
  Biological and Physical Sciences with Concentration in Teacher Certification
  Biology
  Biotechnology
  Chemistry
  Computer Science
  Geosciences

Bachelor of Science in Engineering Technology with majors in:
  Control and Instrumentation Engineering Technology*
  Structural Analysis/Design Option in Engineering Technology*

The CST Student Advising Center provides services that promote students’ self-responsibility in defining and achieving their educational goals.

The College provides professional advisors to:
- Advise majors on degrees and graduation requirements
- Assist with course selection
- Identify any necessary course substitutions to be approved by the appropriate department chair
- Provide majors with available minor options at UHD
- Inform students of college and university academic policies and procedures
- Advise majors on career preparation and graduate studies

It is important for students to include their full name and UHD ID number in all correspondence and ensure they are checking GatorMail for all email correspondence from the college.

Registering for Courses
To register for coursework, students should begin by reviewing the requirements for their academic degree described in their attached catalog and through the Degree Audit (CAPP) system. After selecting potential courses to fulfill degree requirements and preparing a tentative course schedule, students should meet with a CST academic advisor to review the selected courses, which facilitates the registration process. Courses and their status (open or closed) as well as class times for the academic semester are available online in MyUHD. Students are responsible for being aware and compliant with all degree requirements.

Majors on academic probation who wish to register for courses in a subsequent term must speak with a CST advisor to plan appropriate courses, and then schedule a meeting with the Assistant Dean for course approval. CST majors on academic suspension who have not attended UHD for the preceding long semester must apply for readmission to the university and then consult with the Assistant Dean at least one week prior to the first day of class. With the Assistant Dean’s authorization, the student will be placed on academic probation and permitted to take a limited number of approved courses.

Applying for Graduation
Students planning to graduate from UHD with a major that is housed in CST must file an application for graduation online through their MyUHD account. It is strongly recommended that students meet with a CST Advisor before applying and submitting their graduation request online to ensure that all requirements will be met. Students are responsible for completing all steps described within the online application system.

Deadlines for applications for graduation can be found on the academic calendar (http://www.uhd.edu/academic/calendar.htm) for a given term. Students who do not complete the requirements in the anticipated term must reapply for graduation and repay the graduation fee.

The CST Student Advising Center and Dean’s Office will communicate any information about a student’s application for graduation through GatorMail, so students who have submitted an application for graduation should begin checking their GatorMail routinely for further information and updates upon submission.

Admission and Declaration of Major
Students may be admitted to and declare a major in the College of Sciences and Technology if they meet the following criteria:

- Continuing students at UHD must have
  - a UHD GPA of 2.0 or higher,
  - earned at least 24 college-level semester credit hours,
  - have a C or better in Math 1301 or (Math 1302, 1404, 1505, 2401, 2402 or 2403), and
  - have credit or enrollment in ENG 1302
- Students transferring to UHD must have
  - a GPA of 2.0 or higher,
Freshmen who meet the Freshman Admissions criteria to UHD and the following criteria will be declared upon admission

- a GPA of 2.0 or higher,
- earned at least 24 college-level semester credit hours,
- have a C or better in Math 1301 or (Math 1302, 1404, 1505, 2401, 2402 or 2403), and
- have credit or enrollment in ENG 1302

General Degree Requirements

General Education Requirements
All students seeking a bachelor's degree at the University of Houston-Downtown must complete the general education requirements including the common core courses, the application courses, and enhancement courses. Fulfillment of general education requirements may vary depending on the degree.

Prerequisites
All prerequisites must be satisfied before taking any course offered by the College of Sciences and Technology. Students may be dropped from any class for which they lack a prerequisite or a corequisite. A course that is a prerequisite or corequisite for another course may not be dropped unless the student drops both courses.

Transfer Credits
Students may petition through college advising reevaluation of any transfer credits that were not applied to their degree by the university transfer course articulation process.
Department of Mathematics and Statistics

Ryan Pepper, PhD, Chair
S705, 713-221-8012

Youn-Sha Chan, PhD, Assistant Chair
S705, 713-221-8414

Timothy Redl PhD, Assistant Chair
S705, 713-226-5224

Faculty

Professors:  Becerra, DeLaViña, London, Simeonov, Waller, Xie, Yoon
Associate Professors:  Chan, Hodgess, Hrynkiv, Jegdic, Leveille, Oberhoff, Pepper, Redl, Tecarro, Zafiris
Assistant Professors:  Koshkin, Mhoon, Quander,
Lecturers:  AbuShammala, Beane, Blumberg, Gad, John, Nakamura, Nguyen, Pati, Savitsky, Simmons,
           Solomon, Zanwar
Emeriti:  Freeman, DeKorvin

Programs of Study

Bachelor of Arts with major in:
  Mathematics
  Mathematics with Secondary Mathematics Teacher Certification

Bachelor of Science with majors in:
  Mathematics
  Applied Statistics
  Applied Statistics with Biostatistics Concentration
  Applied Statistics with Secondary Mathematics Teacher Certification

Minors in:
  Applied Statistics
  Mathematics

The Mathematics and Statistics degree programs are structured to develop written and oral communication skills, to provide broad-based studies in the mathematical sciences, and to provide a selection of advanced course work in mathematics and/or applied statistics.

The degree programs in the Department of Mathematics and Statistics provide students with an education responsive to the expanding uses of mathematical and statistical techniques in business, government and industry. In addition, they provide the foundation for those students interested in pursuing graduate degrees, as well as those students interested in pursuing careers in education. Thus, they are designed to permit students to select courses suited to a variety of interests and career goals. In achieving these objectives, advising plays an important role and consequently each student is assigned an advisor to assist with the student’s schedule and career planning. The departmental Academic Screening Committee periodically evaluates academic progress by departmental majors and students are advised appropriately.

Undergraduate training in the mathematical sciences has undergone substantial change during the past decade. This change has been driven by advances and developments in the information technology and its applications in business, government and industry. Growing demands exist for professional mathematical scientists. These individuals should have a solid background in basic mathematics, an understanding of advanced mathematics and statistics software, and a mastery of important techniques in mathematics and statistics such as operations research and data analytics. Virtually all industrial, health science, business and governmental environments need individuals with these qualifications.

Those whose interests lie in the administrative or managerial sciences are especially valuable in market forecasting, accounting systems, industrial control, management training programs and long-range planning decisions. Those with an interest in statistics are valuable to firms that deal with large amounts of data, such as banking and insurance companies, which need personnel to
develop and maintain the associated software.

General Requirements for Graduation

All degree candidates must have a 2.0 GPA average and a grade of “C” or better in all mathematics and statistics course work.

Students are responsible for meeting the requirements for graduation. Therefore, students should become familiar with the requirements listed in this Catalog and their degree plan and should refer to them each time they plan their semester program of study.

25% (30 hours) of the semester credit hours of course work toward the degree must be taken at the University of Houston-Downtown. A minimum of 18 semester hours of upper-level credit in mathematics or statistics course work must be completed at UHD. Students who wish to take courses at another college or university, including any other campus of the University of Houston System, and apply the credits earned toward their degree must request approval through the department that administers their program before taking the course. Courses taken without such approval may not be counted toward the fulfillment of the degree requirements.

Bachelor of Arts

Majors in:
- Mathematics,
- or
- Mathematics with Secondary Teacher Certification

Mathematics Major (120 hours)

The Bachelor of Arts degree in Mathematics is designed to provide students with the foundation of a liberal arts education and a broad overview of modern mathematics and its applications, while also emphasizing the power, depth, and beauty inherent in the subject. The mathematical component of this plan is designed to prepare students to develop and use analytical and problem-solving skills, to master mathematical techniques required in related fields of application, and to enter the employment market with relevant and proficient mathematical tools. This degree offers many features to enhance a student’s educational experience: the choice of an approved university minor or concentration; sustained development of writing and speaking proficiency; and extended general education requirements that permit more study of the liberal arts. The BA degree is especially appropriate for students who wish to combine an extensive study of mathematics with a second concentration in such fields as arts, humanities, education, business, or the social sciences. It will help prepare students for various graduate or professional programs including mathematics, medicine and law. A student of this program, after completing the courses listed in the Mathematics Core, may then choose mathematics electives that seem most suitable to their interests. Several suggested tracks are given with recommended electives. Students are encouraged to consult their advisors for further suggestions about which electives are most suitable, based on their goals and preferences. The degree requires a minimum of 120 semester credit hours as indicated below. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree. The format of the degree is given in six sections

Program Outcomes

Graduates who earn a BA in Mathematics will be able to:

- Demonstrate analytic reasoning and problem solving skills, and understanding of and ability to write proofs.
- Demonstrate basic knowledge of continuous mathematics.
- Communicate mathematical knowledge orally and in writing.

Degree Requirements

Common Core Requirements (42 hours)

See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2409 satisfies both the mathematics requirement of the Common Core and the BA in mathematics degree plan.
Major Requirements

Mathematical Sciences Requirements (36 hours)
MATH 2401  MATH 2402
MATH 2403  MATH 2409 (3 hours of this count in the common core)
MATH 2407  MATH 3301
MATH 3302  MATH 3306
MATH 3307   MATH 4395
MATH 3408

NOTE: A mathematics faculty advisor and topic must be decided upon and approved by the department chair at least one full semester before registering for MATH 4395 Senior Project.

Electives in the Major (15 hours)
Electives must include at least one of the following:
MATH 3309
MATH 3312

Electives must include at least 12 more hours of 2000-4000 math electives including at least 6 at the 4000 level subject to the following:

- MATH 4294, MATH 3321 or MATH 3322 do not count towards any mathematics degree requirements.
- At most three hours of MATH 4190-4490, Special Topics, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3399-4399, Directed Study, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3394-4394, Undergraduate Research, may be applied toward degree unless approved by the department chair.

Minor (18 approved hours minimum)
Any university approved Teaching Certification or Minor from the College of Business, the College of Humanities and Social Sciences, or the College of Public Service. Students seeking Secondary (7-12) Certification in Mathematics must be advised by the Urban Education Department.

Free Electives (sufficient hours to complete a minimum of 120 hours total)

Mathematics Major with Mathematics Secondary Teacher Certification (122 hours)

The Bachelor of Arts degree in Mathematics is designed to provide students with the foundation of a liberal arts education and a broad overview of modern mathematics and its applications, while also emphasizing the power, depth, and beauty inherent in the subject. This degree plan is specifically designed for students who intend to teach high school mathematics. Therefore, the Urban Education Concentration is required.

The mathematical component of this plan is designed to prepare students to develop and use analytical and problem-solving skills, to master mathematical techniques required in related fields of application, and to enter the employment market with relevant and proficient mathematical tools. This degree offers many features to enhance a student’s educational experience: an approved university concentration; sustained development of writing and speaking proficiency. It will help prepare students for various graduate or professional programs including mathematics and mathematics education. A student of this program, after completing the courses listed in the Mathematics Core, may then choose mathematics electives that seem most suitable to their interests. Several suggested tracks are given with recommended electives. Students are encouraged to consult their advisors for further suggestions about which electives are most suitable, based on their goals and preferences.

The degree requires a minimum of 120 semester credit hours as indicated below. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree.
Program Outcomes
Graduates who earn a BA in Mathematics will be able to:

- Demonstrate analytic reasoning and problem solving skills, and understanding of and ability to write proofs.
- Demonstrate basic knowledge of continuous mathematics.
- Communicate mathematical knowledge orally and in writing.

Degree Requirements

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2409 satisfies both the mathematics requirement of the Common Core and the BA in mathematics degree plan.

Major Requirements

Mathematical Sciences Requirements (45 hours)

Mathematics Core (33 hours)
MATH 2401  MATH 2402
MATH 2403  MATH 2409 (3 hours of this count in the common core)
MATH 2407  MATH 3301
MATH 3302  MATH 3306
MATH 3307  MATH 3408
PED 4382 (3 hours are counted in UE Concentration)

NOTE: A mathematics education faculty advisor and topic must be decided upon and approved by the department chair at least one full semester before registering for PED 4382 Senior Project.

Mathematics Education Emphasis (6 hours)
MATH 3303
MATH 3313

Electives in the Major (6 hours)
Electives must include at least 6 more hours of 2000-4000 math electives including at 3 hours at the 4000 level subject to the following:

- MATH 4294, MATH 3321 or MATH 3322 do not count towards any mathematics degree requirements.
- At most three hours of MATH 4190-4490, Special Topics, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3399-4399, Directed Study, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3394-4394, Undergraduate Research, may be applied toward degree unless approved by the department chair.

NOTE: students of this degree are strongly encouraged to take Math 4312. Other suggested electives include Math 3309, Math 3312, Math 4306, Math 4307, or Math 4308.

Urban Education Concentration
Students seeking Secondary (7–12) Certification in mathematics through the Urban Education Department must meet with a CST advisor as well as complete a formal application in the Urban Education Department. The current Urban Education Department requirements for this Concentration must be completed. The student teaching portion of the field experience must include fulfilling all Senior Project requirements in Mathematics. At least one semester prior to taking PED 3305, students should speak with an Urban Education advisor to make certain that all concentration requirements are met.

Free Electives (sufficient hours to complete a minimum of 120 hours total)
Bachelor of Science

Majors in:
- Mathematics
- Applied Statistics
- Applied Statistics with Biostatistics Concentration
- Applied Statistics with Secondary Mathematics Teacher Certification

Mathematics Major (120 hours)

The Bachelor of Science degree in Mathematics offers students a broad overview of modern mathematics and its applications, while also emphasizing the power, depth, and beauty inherent in the subject. The mathematical component of this plan is designed to prepare students to develop and use analytical and problem-solving skills, to master mathematical techniques required in related fields of application, and to enter the employment market with relevant and proficient mathematical tools. This degree offers many features to enhance a student’s educational experience: the choice of an approved university minor or concentration; sustained development of writing and speaking proficiency; and extended general education requirements that permit more study of the natural sciences. The BS degree is especially appropriate for students who wish to combine an extensive study of mathematics with a second concentration in one of the natural sciences, computer science, statistics, or engineering. It will help prepare students for various graduate or professional programs including mathematics, engineering, and finance. A student of this program, after completing the courses listed in the Mathematics Core, may then choose mathematics electives that seem most suitable to their interests. Several suggested tracks are given with recommended electives. Students are encouraged to consult their advisors for further suggestions about which electives are most suitable, based on their goals and preferences.

The degree requires a minimum of 120 semester credit hours with at least twelve hours of Math at the 4000-level. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree.

Program Outcomes

Graduates who earn a BS in Mathematics will be able to:

- Demonstrate analytic reasoning and problem solving skills, and understanding of and ability to write proofs.
- Demonstrate basic knowledge of continuous mathematics.
- Communicate mathematical knowledge orally and in writing.

Degree Requirements

Common Core Requirements (42 hours)

See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2409 satisfies both the mathematics requirement of the Common Core and the BS in mathematics degree plan.

Major Requirements

Mathematical Sciences Requirements (36 hours)

MATH 2401 MATH 2402
MATH 2403 MATH 2409 (3 hours of this count in the common core)
MATH 2407 MATH 3301
MATH 3302 MATH 3306
MATH 3307 MATH 3408
MATH 4395

NOTE: A mathematics faculty advisor and topic must be decided upon and approved by the department chair at least one full semester before registering for MATH 4395 Senior Project.
Electives in the Major (15 hours)
Electives must include at least one of the following:
MATH 3309 or MATH 3312

Electives must include at least 12 more hours of 2000-4000 math electives including at least 6 at the 4000 level subject to the following:
- MATH 4294, MATH 3321 or MATH 3322 do not count towards any mathematics degree requirements.
- At most three hours of MATH 4190-4490, Special Topics, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3399-4399, Directed Study, may be applied toward degree unless approved by the department chair.
- At most three hours of MATH 3394-4394, Undergraduate Research, may be applied toward degree unless approved by the department chair.

Minor (18 approved hours minimum)
Any university approved Concentration in Teacher Certification or Minor from the College of Sciences and Technology. Students seeking Secondary (7 – 12) Certification in Mathematics must be advised by the Urban Education Department.

Free Electives (sufficient hours to complete a minimum of 120 hours total)

Applied Statistics Major (120 hours)
The curriculum in Applied Statistics is structured to allow students to be employed in areas requiring the tools of discrete mathematics and statistics. The advent of high-speed computers and technological advances being made in this area has encouraged the development of, and has resulted in, important advances that constitute significant statistical tools for such areas as the life sciences, administrative/managerial sciences and the social/behavioral sciences.

Program Outcomes
Graduates who earn a BS in Applied Statistics will be able to:
- Demonstrate analytic, critical reasoning, and problem solving skills.
- Collect and analyze data and summarize results precisely.
- Demonstrate basic knowledge of statistics.
- Apply statistical modeling to real-world problems.
- Communicate statistical knowledge orally and in writing.
- Demonstrate basic knowledge of computational procedures and use of statistical packages.

The degree requires a minimum of 120 semester credit hours. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree.

Degree Requirements

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2405 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the applied statistics degree plan.
Major Requirements

Computer Science Requirement (4 hours)
CS 1408 or CS 1410

Technical Writing Requirement (3 hours)
ENG 3302

Mathematical Sciences Requirements (41-43 hours)
MATH 2401  MATH 2402
MATH 3302   STAT 3311

NOTE: For a business track the sequence MATH 1305 and MATH 1306 may be substituted for MATH 2401 and MATH 2402, and the sequence STAT 3309 and STAT 3310 may be substituted for MATH 3302 and STAT 3311.

MATH 2405  MATH 2407
STAT 4318   STAT 4397
STAT 4395 (or a department approved W-course)

NOTE: Students with a GPA of at least 3.0 are required to take STAT 4395. Other students are required to take either STAT 4395 or a department approved W-course.

Statistic Electives (12 hours). Four additional courses are to be chosen from the following:
STAT 4300  STAT 4303
STAT 4306   STAT 4307
STAT 4309   STAT 4310
STAT 4311

Minor (18 hours minimum)
Any university-approved minor will satisfy this requirement.

Free Electives (sufficient hours to complete a minimum of 120 hours)

Applied Statistics Major with Biostatistics Concentration (120 hours)

The Bachelor of Science degree in Applied Statistics with concentration in Biostatistics is designed to provide students with a broad overview of statistics and its applications in biological sciences. This degree plan is specifically designed for students who intend to be employed in life and health sciences requiring statistical tools.

The mathematical component of this plan is designed to prepare students to develop and use analytical and problem-solving skills, to master mathematical techniques and to enter the employment market with relevant and proficient statistical tools. This degree plan offers many features to enhance a student’s educational experience: the required natural sciences component provides students with knowledge and understanding in biology; the application of statistics in biological sciences; and sustained development of writing and speaking proficiency. It will help prepare students for various graduate or professional programs in statistics and biostatistics. A student of this program, after completing the courses listed in the Biostatistics Core, may then choose electives that seem most suitable to their interests. Pre-med students having completed this concentration can fulfill TMDSAS undergraduate course requirements for Texas medical and dental school admission if they choose the courses with * among their electives. Students are encouraged to consult their advisors for further suggestions about which electives are most suitable, based on their goals and preferences.

Program Outcomes
The program outcomes for a degree in Applied Statistics are:

- Demonstrate basic knowledge of statistics;
- Demonstrate basic knowledge of computational procedures and use of statistical packages;
• Demonstrate analytic and critical thinking, problem-solving skills;
• Communicate statistical knowledge;
• Apply statistical procedures to real-world problems;
• Analyze data and summarize results.

The degree requires a minimum of 120 semester credit hours as indicated below. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree.

**Degree Requirements**

**Common Core Requirements (42 hours)**
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2405 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the applied statistics degree plan with Biostatistics Concentration. BIOL 1301/1101 and BIOL 1302/1102 satisfy both the science requirement of the Common Core and a natural science requirement for the applied statistics degree plan with Biostatistics Concentration.

**Major Requirements**

**Computer Science Requirement (4 hours)**
CS 1408 or CS 1410

**Technical Writing Requirement (3 hours)**
ENG 3302

**Mathematical Sciences Requirements (38-40 hours). Complete one of the following three sequences:**

**Sequence 1:** MATH 2401 and MATH 2402 – Calculus I and II
**Sequence 2:** MATH 2411 and MATH 2412 – Calculus I and II for Natural Sciences
**Sequence 3:** MATH 1305 – Finite Mathematics and MATH 1306 – Fundamentals of Calculus

MATH 2405
MATH 2407
STAT 3311
STAT 4318
STAT 4395 (or a department approved W-course)
STAT 4397

**NOTE:** Students with a GPA of at least 3.0 are required to take STAT 4395. Other students are required to take either STAT 4395 or a department approved W-course. Either STAT 4318 or STAT 4397 must be taken before either STAT 4395 or a W-course.

**Electives in the Major (12 hours)**
Select four additional courses from the following:
STAT 4300*
STAT 4303*
STAT 4306
STAT 4307*
STAT 4309*
STAT 4310*
STAT 4311

*courses are candidates for W-courses with department approval.

**Minor in Natural Sciences and Additional Natural Science Requirements (27 hours)**
Approval from Natural Science Department for a minor in sciences (bioinformatics, biology, chemistry, environmental sciences, or
microbiology is recommended) and for additional science courses to complete a minimum of 27 hours.

BIOL 1301/1101 and BIOL 1302/1102
CHEM 1307/1107 and CHEM 1308/1108
MBIO 2305/2105
BIOL 3303/3103

and 12 additional hours of upper level Biology or Chemistry electives chosen from the following:

- BIOL 4303
- BIOL 3306
- BIOL 3302/3102
- BIOL 3320/3120
- BIOL 4260 and BIOL 4360
- BIOL 4220
- BIOL 3300
- CHEM* 3301/3201 and CHEM* 3302/3202

or any upper level BIOL, CHEM and MBIO courses approved by the Natural Sciences Department.

* Pre-med students having completed this concentration may be able to fulfill TMDSAS course requirement depending on their chosen minor.

Free Electives (sufficient hours to complete a minimum of 120 hours)
Pre-med students should take PHYS* 1307/1107 and PHYS* 1308/1108 as electives.

Applied Statistics Major with Secondary Mathematics Teacher Certification (120 hours)

The Bachelor of Science degree in Applied Statistics is designed to allow students to be employed in areas requiring tools of statistics and applied mathematics related to data-based decision making processes. The advent of high speed computers and technological advances being made in this area have encouraged the development of, and have resulted in, important advances that constitute significant statistical tools for such areas as the life sciences, administrative/managerial sciences, and the social/behavioral sciences. This degree plan is specifically designed for students who intend to teach high school mathematics. Therefore, the Urban Education Concentration is required.

Program Outcomes
The program outcomes for a degree in Applied Statistics are:

- Demonstrate basic knowledge of statistics;
- Demonstrate basic knowledge of computational procedures and use of statistical packages;
- Demonstrate analytic and critical thinking, problem-solving skills;
- Communicate statistical knowledge;
- Apply statistical procedures to real-world problems;
- Analyze data and summarize results.

The degree requires a minimum of 120 semester credit hours. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree.

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2405 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the applied statistics degree plan with secondary teacher certification.
Major Requirements

Programming Requirement (3 hours). Choose one course from the following:
STAT 4318
STAT 4397

Mathematics and Statistics Requirements (40 hours)

Mathematics and Statistics Core (22 hours)
MATH 2401 MATH 2402
MATH 2407 MATH 2405 (3 hours of this count in the common core)
MATH 3302
STAT 3310 or STAT 3311
PED 4382 (3 hours are counted in UE Concentration)
NOTE: A mathematics education faculty advisor and topic must be decided upon and approved by the department chair at least one full semester before registering for PED 4382 Senior Project.

Mathematics Education Emphasis (6 hours)
MATH 3303
MATH 3313

Electives in the Major (12 hours). Four additional courses are to be chosen from the following:
MATH 4312 STAT 4300
STAT 4303 STAT 4306
STAT 4307 STAT 4309
STAT 4310 STAT 4311

Urban Education Concentration (33 hours)
Students seeking Secondary (7–12) Certification in mathematics through the Urban Education Department must meet with a CST advisor as well as complete a formal application in the Urban Education Department. The current Urban Education Department requirements for this Concentration must be completed. The student teaching portion of the field experience must include fulfilling all Senior Project requirements in Mathematics. At least one semester prior to taking PED 3305, students should speak with an Urban Education advisor to make certain that all concentration requirements are met.

Free Electives (sufficient hours to complete a minimum of 120 hours total)

Minor Programs

For minors in mathematics and statistics:
- All hours counted toward the minor must be passed with “C” or better.
- At least 6 hours of upper-level course work in the minor must be completed at the University of Houston-Downtown.

Minor in Mathematics (18 hours minimum)
Math 2401-2402 or Math 2411-2412, plus least 10 hours of mathematics courses (2000-level and above), at least 6 hours of which must be upper level mathematics courses (3000-level and above), excluding MATH 3321 and 3322.

Three example sequences of courses that students of this program might take are:

<table>
<thead>
<tr>
<th>Engineering</th>
<th>Computer Science</th>
<th>Biology or Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 2401</td>
<td>Math 2401</td>
<td>Math 2411</td>
</tr>
<tr>
<td>Math 2402</td>
<td>Math 2402</td>
<td>Math 2412</td>
</tr>
<tr>
<td>Math 3301</td>
<td>Math 2405</td>
<td>Math 2407</td>
</tr>
<tr>
<td>Math 2407</td>
<td>Math 3309</td>
<td>Math 3301</td>
</tr>
<tr>
<td>Math 3308</td>
<td>Math 4308</td>
<td>Math 3302</td>
</tr>
</tbody>
</table>
Minor in Statistics (18 hours minimum)
One of the following two sequences:
   MATH 1305, MATH 1306, STAT 3309
   or
   MATH 2401, MATH 2402, MATH 3302
STAT 3310 or STAT 3311
At least 6 hours of 4000-level statistics courses.

Honors Program in Mathematics or Statistics

To enhance the educational opportunities and experiences of the academically talented students at UH-Downtown, the Department of Mathematics and Statistics offers an Honors Program. The program is designed to challenge and motivate students to do more than the minimum required for a particular degree. Students who successfully complete this program will be designated as graduates of an Honors Program in the Mathematics and Statistics Department on their diploma and university transcript.

In addition to being in the UHD Honors program students can apply to the NS Honors Program. Students not in the UHD honors program may also apply to the department's honors program.

Admission Requirements:
- Application to the department’s Honors Program Admission and Review Committee
- Completion of at least 60 semester credit hours of recognized university-level work
- An overall GPA of at least 3.0 with a GPA of 3.25 or better in Mathematics and Statistics courses
- Completion of at least 16 semester credit hours in Mathematics and Statistics courses, eight of which must have been taken at UH-Downtown.

Program Requirements:
- Satisfy the requirements for one of the department’s Bachelor of Science degree programs
- Complete at least two honors designated courses in addition to three hours of credit in Senior Honor Thesis. The Senior Thesis will be done under the supervision of an approved member of UHD faculty and will be presented in both oral and written form to the Mathematics and Statistics faculty.
- Maintain a minimum GPA of 3.25 in all Mathematics and Statistics courses including the required honors courses.
- Maintain a GPA of 3.0 or better in all courses outside the Mathematics and Statistics Department taken at UH-Downtown.

The department Honors Program Admissions and Review Committee must approve all honors designated courses and all projects proposed by students for their honors theses. Upper-level courses designated as Honors require at least 25 percent more in-depth study than that required of students taking the course without honors credit. The additional course requirements will vary depending on the course instructor.

Pi Mu Epsilon

The Mathematics and Statistics Department is privileged to have a chapter of the prestigious honorary mathematics society Pi Mu Epsilon. The name of our chapter is Texas Nu. The mission of the society is to encourage and promote mathematics. Each year the Pi Mu Epsilon coordinators invite students who have shown exceptional abilities in the mathematical sciences to join the chapter. In addition, the Mathematics and Statistics Department is also privileged to have student chapters of the prestigious organization: The Mathematical Association of America.
Department of Computer Science and Engineering Technology

Kenneth Oberhoff, PhD, Chair
N704, 713-221-8089

Hong Lin, PhD, Assistant Chair
N704, 713-221-2781

Vassilios Tzouanas, PhD, Assistant Chair
N713, 713-226-5272

Faculty
Professors

Associate Professors

Assistant Professor

Lecturers

Lin
Feng, Sheinberg, Tzouanas, Yuan
Avrithi, Chang, Rahmatian, Shastri, Soibam,
Harris, Singh

Programs of Study

Bachelor of Applied Arts and Sciences with major in:
Safety Management

Bachelor of Science with major in:
Computer Science

Bachelor of Science in Engineering Technology with majors in:
Control and Instrumentation Engineering Technology (CIET)*
Structural Analysis /Design Option in Engineering Technology (SAD)*

Minors

Bioinformatics
Computer Science
Engineering Technology

Mission and Objectives

The Department of Computer Science and Engineering Technology (CSET) offers degree programs that meet the demands of the greater Houston area. The Department provides an innovative teaching and learning environment. Classroom lecturing is typically combined with laboratory experiments and computer simulations. The degree programs aim to empower students with lifelong learning and continuous improvement capabilities. Members of the faculty are committed to providing extended support to students' learning activities both inside and outside the classroom. Students and faculty also have the opportunity to participate in undergraduate research sponsored by the Scholars Academy.

The Computer Science program offers students a strong foundation in the fundamental concepts of computer science combined with sound practical training relevant to the common applications of computing in business and industry. The Bachelor of Science degree provides preparation for all career paths in computer science and information technology, including database systems, scientific computing and simulation, graphics, artificial intelligence, software engineering, and networking and telecommunications. By emphasizing broad-based studies including mathematics and science requirements and sustained development of writing and speaking proficiency, the degree furnishes students with the problem solving and communication skills that are in high demand in today's job market and graduate schools. Possessing many areas of expertise, the computer science faculty shares UHD's commitment to quality teaching in a challenging yet personal and supportive learning environment. This commitment helps our majors compete successfully for positions involving the use and support of current computer applications, as well as for positions designing and building the computer applications of tomorrow.
The Engineering Technology program strives to provide high quality engineering technology degree programs and unique curricula for students from diverse social, educational, and ethnic backgrounds. The program is committed to maintaining an educational environment in which students can significantly enhance their academic standing as well as their skills in computing, problem-solving, communication, and teamwork. With a strong sense of professionalism, students are trained to become successful individuals who are socially responsible and professionally competitive. The faculty’s open-door policy and flexible class scheduling accommodate the needs of working students. The Engineering Technology curricula reflect the demands and requirements of industries and businesses in the greater Houston area. The close partnerships forged between the department and local industries ensure that our academic programs are dynamic and up-to-date. Such partnerships also benefit graduates when they seek employment.

The existence of student chapters of professional organizations promotes networking, career awareness and planning opportunities. Special scholarships are available to promote excellence in academics, service, and leadership.

**Student Professional Organization Chapters**

Association of Computing Machinery (ACM)
American Concrete Institute (ACI)
International Society of Automation (ISA)

**Facilities**

The modern laboratory facilities in the Computer Science and Engineering Technology Department provide students with ample opportunities for hands-on practice. The focus of these laboratories include computer science, electronics, and control and instrumentation. These labs are equipped with materials, equipment, instruments, computers, and various industrial standard design and application software tools.

**Semester Projects**

In order to fulfill the accreditation requirements of ETAC of ABET, all courses in the Engineering Technology program include semester projects. The purpose of the project is to train students to work on real-industry problems in a team environment that they will encounter working in industry after graduation. In Computer Science the senior project allows the students to apply their course materials and learning experiences to semester long real world projects.

**Requirements for Graduation**

The requirements for graduation with a Computer Science major or an Engineering Technology major comply with the UHD policy on graduation requirements. In addition, the students should complete all the requirements listed for the specific degree program. It is the students’ responsibility to become familiar with the requirements listed in this Catalog and in their degree plan, and the students should refer to them each time they plan their semester program of study. All degrees in the department require a grade of “C” or better in all computer science (CS) and engineering technology (ENGR, ET, and EET) courses. 25% (30 hours) of the semester credit hours of course work toward the degree must be taken at the University of Houston-Downtown. A minimum of 18 semester hours of upper-level credit in computer science or engineering technology course work must be completed at UHD.
Bachelor of Applied Arts and Sciences

Safety Management (120 hours)

Edward R. Sheinberg, MME, Coordinator
N706, 713-221-8441

Students enrolled in the Safety Management program will be exposed to the human and equipment aspects of safety. They will also be trained in the ability to absorb new technologies generated from industry. The Engineering Technology program will develop personnel able to apply the most modern technologies to assure the safety operation of current enterprises. As such, the program produces graduates who:

- have a sound foundation in safety management, management of organizations, human factors, domestic terrorism, and industrial safety, hygiene and loss prevention
- are all-around individuals with strong social skill, able to work in team environments, competent in communication and information presentation, and with a strong sense of professionalism
- are committed to continuous improvement and lifelong learning.

The BAAS degree is intended for recipients of the AAS degree awarded by community or junior colleges. These programs extend for 4 or more semesters and include 60 semester credit hours, although some programs include additional semester hours. The degree requires a grade of "C" or better in all engineering technology (ENGR, ET, and EET) courses.

Degree Requirements

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Major Requirements

Lower Division
18 hours of Approved Electives

Upper Division (48 hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3302</td>
<td>Technical Writing</td>
</tr>
<tr>
<td>ENGR 3346</td>
<td>Offshore Fire and Safety Inspection</td>
</tr>
<tr>
<td>ENGR 3350</td>
<td>Construction Safety</td>
</tr>
<tr>
<td>ENGR 3351</td>
<td>Accident Investigation and Root Cause Analysis</td>
</tr>
<tr>
<td>ENGR 3352</td>
<td>Emergency Management and Contingency Planning</td>
</tr>
<tr>
<td>ENGR 3365</td>
<td>Fire Protection for Power Plants</td>
</tr>
<tr>
<td>ENGR 3375</td>
<td>Radiation Safety</td>
</tr>
<tr>
<td>ENGR 3380</td>
<td>Occupational Safety Techniques</td>
</tr>
<tr>
<td>ENGR 4310</td>
<td>Industrial Hygiene Instrumentation</td>
</tr>
<tr>
<td>ENGR 4330</td>
<td>Systems Safety Management</td>
</tr>
<tr>
<td>ENGR 4350</td>
<td>Industrial Loss Prevention</td>
</tr>
<tr>
<td>ENGR 4355</td>
<td>Industrial Safety</td>
</tr>
<tr>
<td>ENGR 4370</td>
<td>Human Factors in Fire and Safety</td>
</tr>
<tr>
<td>ENGR 4381</td>
<td>Safety and Violence</td>
</tr>
<tr>
<td>ENGR 4385</td>
<td>Scheme Management in Industrial Safety</td>
</tr>
<tr>
<td>ENGR 4323</td>
<td>Technology Seminar</td>
</tr>
</tbody>
</table>

Upper Division Electives in the Major (12 approved hours)
Approved Safety Management Electives

**Lower Division Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1304</td>
<td>Introduction to Speech Communication (either core or elective)</td>
</tr>
<tr>
<td>2307</td>
<td>Intercultural Communication</td>
</tr>
<tr>
<td>2309</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>2311</td>
<td>Principles of Public Relations</td>
</tr>
<tr>
<td>SOC 2302</td>
<td>Social Problems</td>
</tr>
<tr>
<td>2303</td>
<td>Family in a Changing Society</td>
</tr>
<tr>
<td>PSY 1303</td>
<td>Introduction to Psychology (either core or elective)</td>
</tr>
<tr>
<td>2310</td>
<td>Human Growth and Development</td>
</tr>
</tbody>
</table>

**Upper Division Electives** (can be used to satisfy lower level electives)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 3320</td>
<td>Principles of Fire Protection Chemistry and Physics</td>
</tr>
<tr>
<td>3370</td>
<td>Fire Protection Law</td>
</tr>
<tr>
<td>BA 3300</td>
<td>Business Cornerstone</td>
</tr>
<tr>
<td>3308</td>
<td>Business Ethics</td>
</tr>
<tr>
<td>COMM 3301</td>
<td>Advanced Public Relations</td>
</tr>
<tr>
<td>3310</td>
<td>Women, Men, and Communication</td>
</tr>
<tr>
<td>3313</td>
<td>Race, Ethnicity and Communication</td>
</tr>
<tr>
<td>IRM 3305</td>
<td>Risk Management Theory and Practice</td>
</tr>
<tr>
<td>MGT 3301</td>
<td>Principles of Management and Organization Behavior</td>
</tr>
<tr>
<td>3302</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>3303</td>
<td>Negotiating Skills and Techniques</td>
</tr>
<tr>
<td>3304</td>
<td>Labor Management Relations</td>
</tr>
<tr>
<td>3307</td>
<td>Diversity Management</td>
</tr>
<tr>
<td>4308</td>
<td>Managing People and Teams</td>
</tr>
<tr>
<td>SOC 3307</td>
<td>Deviance and Social Control</td>
</tr>
<tr>
<td>3312</td>
<td>Aggression and Violence in Society</td>
</tr>
<tr>
<td>3313</td>
<td>Drug Use and Society</td>
</tr>
<tr>
<td>4308</td>
<td>Conflict and Conflict Resolution</td>
</tr>
<tr>
<td>PSY 3301</td>
<td>Industrial/Organizational Psychology</td>
</tr>
<tr>
<td>3309</td>
<td>Adult Psychology</td>
</tr>
<tr>
<td>3310</td>
<td>Psychology of Women</td>
</tr>
<tr>
<td>3311</td>
<td>Biological Psychology</td>
</tr>
<tr>
<td>3314</td>
<td>Learning and Behavior</td>
</tr>
<tr>
<td>3322</td>
<td>Abnormal Psychology</td>
</tr>
<tr>
<td>4310</td>
<td>Health Psychology</td>
</tr>
<tr>
<td>4313</td>
<td>Psychology of Prejudice</td>
</tr>
<tr>
<td>CJ 3317</td>
<td>Race and Crime</td>
</tr>
<tr>
<td>4306</td>
<td>Domestic Terrorism</td>
</tr>
</tbody>
</table>

**NOTE:** It is the student's responsibility to verify that any course prerequisites in the current Undergraduate Catalog are satisfied.

**Bachelor of Science**

**Computer Science Major (120 hours)**

Shengli Yuan, PhD, Coordinator  
S708, 713-221-8572

The Computer Science degree offers students a strong foundation in the fundamental concepts of computer science combined with
sound practical training. It is structured to develop written and oral communication skills, to provide broad-based studies and a selection of advanced course work in computer science and to provide students with an education responsive to the expanding uses of computer techniques in business, government and industry. In addition, it provides the foundation for those students interested in pursuing graduate degrees. Students are encouraged to consult their advisors for suggestions about which electives are most suitable, based on their goals and preferences. The degree requires a minimum of 120 semester credit hours as indicated below. Students must have a grade of C or better in any course in computer science, mathematics or statistics that is applied towards the degree

Degree Requirements

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2405 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the computer science degree and the 6 of the 8 hours of natural sciences required in the major will satisfy the life and physical sciences requirement of the Common Core.

Major Requirements

Writing Requirement (3 hours)
ENG 3302 Technical Writing

Natural Sciences Requirement (8 hours)
Eight hours of sequential lab sciences in the same science discipline (6 of these hours count in the common core)

Mathematics Requirements (19 hours)
MATH 2405 (3 of these hours count in the common core)
MATH 2401
MATH 2402
MATH 2407
STAT 3311 or MATH 3302

Computer Science Requirements (52 hours)
CS 1410 CS 2401
CS 2402 CS 2410
CS 3304 CS 3306
CS 3420 CS 4294
CS 4303 CS 4315
CS 4318 CS 4395 (or approved W course).

Electives in the Major
In addition, 12 hours of computer science electives must be completed, at least 9 of which must be 3000 or 4000-level; 3 hours may be 1000 or 2000-level above CS 1305.

Free Electives (sufficient hours to complete a minimum of 120 hours total)

Bachelor of Science in Engineering Technology
Control and Instrumentation Engineering Technology* (120 hours)

*The Bachelor of Science in Engineering Technology program in Control and Instrumentation Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org.
Weining Feng, PhD, Coordinator
N708, 713-221-8591

The main focus of the Control and Instrumentation Engineering Technology degree program is the application of computer technology and modern electronics to industrial process control and instrumentation systems. As such, the program produces graduates who:

- have a sound foundation in the analysis, design, testing, and implementation of instrumentation and control systems;
- are proficient in applying their knowledge (in mathematics, sciences, and engineering), and standard tools, especially computer software and hardware tools, to technical problem solving;
- are all-around individuals with strong social skills, able to work in team environments, competent in communication and information presentation, and with a strong sense of professionalism;
- are committed to continuous improvement and lifelong learning.

Control and instrumentation engineering technology has its basis in computer technology, electrical/electronic systems and communication systems. Control and instrumentation specialists are among the most sought-after personnel in the Houston area due to the growing demand from process industries (petrochemical and oil refining), power companies, and energy industries. The broad technical background of control and instrumentation graduates opens up bright employment prospects.

General Requirements for Graduation in Control and Instrumentation Engineering Technology (CIET)

In addition to UHD general requirements for graduation, the CIET program requires that all candidates pursuing a degree in CIET can have no more than two grades of “D” in Math, Physics, and Chemistry. All engineering technology (ENGR, ET, and EET) courses must be completed with a grade of “C” or better.

Program Outcomes

Graduates of the BSET Control and Instrumentation Engineering Technology Program will:

- Have appropriate mastery of the knowledge in electronics, computer technology, data communication, instrumentation and control systems.
- Be able to apply mathematics as a tool and the concepts of chemistry, physics, and electricity for problem formulation and solutions.
- Be competent in computer applications and be able to develop applications programs for modeling, simulation, instrumentation, and control of engineering systems.
- Be able to solve open-ended technical problems and be proficient in the analysis, design, test and implementation of instrumentation and control systems utilizing appropriate software and hardware tools and devices.
- Be able to effectively communicate technical information and details verbally and in writing.
- Conduct, analyze and interpret experimental results to improve process.
- Be able to conduct information searching and processing and identify strategies and the need for life-long learning.
- Be able to plan and execute project work to achieve the expected goals.
- Be able to function effectively in team settings.
- Be able to appreciate ethnic, cultural, and religious diversity.
- Be able articulate the value and role of professional organizations and the responsibility each engineering technology professional has to contribute to the profession through active membership in these organizations and through community service.
- Be able to identify and uphold professional, ethical and social responsibilities.
- Be engaged in continuous improvement and self-evaluation, produce quality work; and complete work in a timely manner.

Common Core Requirements (42 hours)

See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH 2401 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the Control and Instrumentation Engineering Technology degree. PHYS 1307/1107 and PHYS 1308/1108 satisfy both the science requirement of the Common Core and a natural science requirement for the Control and Instrumentation Engineering
Technology degree.

Major Requirements

Lower Division (30 hours)
ENGR 1400
MATH 2401  (3 hours of this course count in the common core)
MATH 2402 or ENGR 2411
CHEM 1307/1107
PHYS 1307/1107  (3 hours of this course count in the common core)
PHYS 1308/1108  (3 hours of this course count in the common core)
ENGR 1302
EET 1411
EET 2421
EET 2431

Upper Division (48 hours)
ENG 3302   Business and Technical Report Writing
EET 3435   Fundamentals of Automation and Control with Lab
EET 3451   Instruments and Transducers with Lab
EET 3334   Electrical Power Systems
ENGR 3302   Engineering Economics
ENGR 3307  Applied Thermodynamics
ENGR 3308   Fluid Mechanics
ENGR 3410   Process Modeling and Simulation
ENGR 4323   Technology Seminar
EET 4335   Computer Networking
ENGR 4402   Process Design and Operation
ENGR 4406   Process Control Systems
ENGR 4328   Senior Project in Control and Instrumentation
ENGR 4438   Safety Instrumented Systems

Bachelor of Science in Engineering Technology

Structural Analysis/Design Option in Engineering Technology* (120 hours)

*The Bachelor of Science in Engineering Technology program in Structural Analysis/Design Option in Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, [http://www.abet.org](http://www.abet.org).

Arish Rahmatian, PhD, Coordinator
N709, 713--223-7407

The main focus of the Structural Analysis/Design Option in Engineering Technology program is the application of computer technology, modern materials and construction techniques to the overall design of structures, including project planning, costs estimates and management of the project. As such, the program will prepare graduates who have:

- A sound background in the analysis, design, testing and construction of civil structures;
- Are proficient in applying their knowledge (in mathematics, science and engineering) and standard tools, specially finite element and graphical software, to technical problem solving.
- Are all-around individuals with strong social skill, able to work in team environments, competent in communication and information presentation, and with strong sense of professionalism and ethics.
- Are productive from the first day in the work place and are committed to continuous improvement and lifelong learning.

Structural analysis specialists are among the most sought-after personnel in the Houston area due to the growing demand from construction industries, power companies, transportation systems and energy industries. Structural analysis and design technology
has its basis in computer technology, construction systems, and materials science. The broad technical background of structural
analysis graduates opens up bright employment prospects, from construction industries to telecommunications and transportation
systems.

Program Outcomes
Graduates of the BEST Structural Analysis/Design Option in Engineering Technology program will be able to:

• Perform standard analysis and design of structural systems following codes and modern practices.
• Determine deformations and stresses in structural systems under the action forces: gravity, wind, fire, earth pressure and
  flood.
• Apply basic technical concepts to identify, analyze and solve technical problems involving structural, geotechnical, and
  material behavior under forces and fire.
• Select appropriate engineering materials and practices.
• Employ productivity software to solve technical problems.
• Utilize modern surveying methods for land measurement and/or construction layout.
• Utilize graphic techniques to produce engineering documents.
• Conduct standardized field and laboratory testing on civil engineering materials.
• Estimate material quantities for technical projects.
• Plan and prepare design and construction documents, such as specifications, contracts, change orders, engineering
drawings, and construction schedules.
• Perform economic analyses and cost estimates related to design, construction, operations and maintenance of systems in
  the civil technical specialties.
• Work effectively on teams.
• Communicate effectively.
• Engage in lifelong learning.
• Understand professional, ethical and social responsibilities.
• Respect diversity and possess a knowledge of contemporary professional, societal and global issues; and
• Will be committed to quality, timeliness, and continuous improvement.

Degree Requirements

General Requirements for Graduation in Structural Analysis/Design Option in Engineering Technology (SAD)

In addition to UHD general requirements for graduation, the SAD program requires that all candidates pursuing a degree in SAD can
have no more than two grades of “D” in Math, Physics, and Chemistry. All engineering technology (ENGR, ET, and EET) courses
must be completed with a grade of “C” or better.

Common Core Requirements (42 hours)
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Observe that MATH
2401 satisfies both the mathematics requirement of the Common Core and a mathematics requirement for the SAD
degree. PHYS 1307 and CHEM 1307 satisfy both the science requirement of the Common Core and a natural science
requirement for the SAD degree.

Major Requirements

Lower Division (28 hours)
MATH 2401 Calculus I (3 hrs will count in core)
CHEM 1307/1107 General Chemistry with Lab (3 hrs will count in core)
PHYS 1307/1107 General Physics I with lab (3 hrs will count in core)
ENGR 1302 Engineering and Technology Fundamentals
ENGR 1400 PC Applications in Engineering
ENGR 2304  Computer-Aided Drafting & Design
ENGR 2407  Surveying with GIS-GPS
ENGR 2308  Statics
ENGR 2409  Mechanics of Materials with Lab
ENGR 2411  Modern Methods of Engineering Analysis

Upper Division (47 hours)

ENG 3302  Business and Technical Report Writing
ENGR 3302  Engineering Economics
ENGR 3308  Fluid Mechanics
ENGR 3311  Structural Analysis I
ENGR 3312  Reinforced Concrete Design
ENGR 3321  Soil Mechanics with Lab
ENGR 3322  Structural Analysis II
ENGR 3329  Concrete Technology w/ Lab
ENGR 4321  Structural Steel Design
ENGR 4322  Foundation Design
ENGR 4323  Technology Seminar
ENGR 4326  Dynamics of Structures
ENGR 4428  Construction Management
ENGR 4435  Senior Capstone Project
ET 4320  Pre-stressed Concrete

and 1 approved upper level course

Computer Science and Engineering Technology Minors

Minor in Bioinformatics
BIOL 1301/1101, BIOL 3303/3103, CHEM 1307/1107, CHEM 1308/1108, CS 1410, CS 2410, CS 3304, CS 4318, and two courses from: CS 4328, CS 4319, or any approved upper-level CS course. All hours counted toward the minor must be passed with "C" or better. At least 6 hours of upper-level course work in the minor must be completed at the University of Houston-Downtown. Students majoring in an area of the natural sciences, computer science or mathematics should choose courses in consultation with their academic advisor.

Minor in Computer Science (20 hours minimum)
CS 1410
CS 2410
Six hours beyond CS 1305
Six hours of upper-level Computer Science. The six upper level hours must be completed at UHD.
All hours counted toward the minor must be "C" or better.

Minor in Engineering Technology (20 hours)
The Engineering Technology minor is offered to provide specific engineering knowledge and skills to students pursuing degrees in other fields such as business, humanities, or the sciences, and also to enhance the employment prospects of students enrolled in non-technical majors. Laboratories associated with our courses give students hands-on skills in the use of up-to-date equipment, laboratory devices, and instruments. The minor can be customized to meet the needs of the student and to complement the student’s academic background. Course requirements shall include 20 semester credit hours in Engineering Technology courses with a limit of 12 credit hours transferred from other institutions. Course grades in the Engineering Technology minor must be “C” or better. Credit for Field Experience cannot apply.

Sample Requirements for ET minor
Sample for students pursuing the BBA, major in Purchasing & Materials Management or Bachelor of Science, major in Computer Science:

192
ENGR 1302, ENGR 1400, ENGR 2407, ENGR 3302, and six hours of upper level engineering technology courses chosen in consultation with a CST advisor.

For all minors:
All hours counted toward the minor must be passed with “C” or better.
At least 6 hours of upper-level course work in the minor must be completed at the University of Houston-Downtown.

Department of Natural Sciences

Phil Lyons, PhD, Chair
N813, 713-221-8015

Tyra Hessel, PhD, Assistant Chair
N817, 713-221-8485

Faculty
Professors: Morano, Morris-Smith, Uzman
Associate Professors: Aoki, Benavides, Flosi, Grebowicz, Gulati, Hessel, Hoge, Jiang, J. Johnson, K. Johnson, Jose, Lyons, Sadana
Assistant Professors: Baird, Bowden, Kang, Martz, Tobin, Trufan
Lecturers: Brown, Ghoshal, Idowu, Lang, Musselwhite, Parker, Pinelis, Qavi, Saha, Singh, Sterna, Villegas, Visbal
Emeriti: Abramowitz, Avenoso, Fefer, Hoffmann-Pinther, Merrill, Price, Sherman, Umland

Academic Areas: biology, chemistry, geology, microbiology, physics

Pre-Professional Areas: clinical laboratory science, dental hygiene, dentistry, medicine, nutrition and dietetics, nursing, occupational therapy, optometry, pharmacy, physical therapy, physician’s assistant, and veterinary medicine

Specialized Areas: environmental science and science education (see list of certification areas below)

Programs of Study
Bachelor of Science with majors in:
Biology
Biological and Physical Sciences
Biotechnology
Chemistry
Geosciences

The Department of Natural Sciences offers lower and upper-level courses in the academic and specialized areas listed above. In addition, it provides courses that serve a number of pre-professional areas. Students interested in biology may pursue the Bachelor of Science in Biology or Biotechnology. In addition to the standard Biology degree, students may choose to concentrate in Microbiology, Environmental Biosciences or Molecular and Cellular Biosciences. Students interested in chemistry may pursue the Bachelor of Science program in Chemistry or may choose to with concentrations in Biochemistry, Environmental Chemistry, Forensic Science and Industrial Chemistry. Students may also seek the Bachelor of Science degree in the Biological and Physical Sciences which may be used for a variety of interests and can be easily combined with Teacher Certification. Students may also enroll in a BS in Geosciences with concentrations in Geochemistry, Petroleum Geotechnology or Environmental Geology.

Drop Policy for Science Courses with Prerequisites/Corequisites

Students must follow stated prerequisite/corequisite listings for natural science courses. Students may be dropped from any class for which they lack a prerequisite or a corequisite. The student will receive a W for the dropped course after the official day of record.
Requirements for Graduation for Degrees in the Department of Natural Sciences

In order to satisfy the requirements of a degree, credit for science courses will only be granted when the student has satisfactorily completed any listed corequisite. The Department of Natural Sciences also has the following general requirements for all science degrees: (1) Students must have a minimum GPA of 2.0 in all science courses that apply toward the degree; (2) a grade of C or higher is required in all upper-level science courses to be applied towards graduation; (3) Students must have at least 18 credit hours of upper-level science from UHD with a minimum GPA of 2.0 to apply toward the degree; (4) Students must satisfy the required number of upper-level hours in a degree; (5) Students must complete an exit survey in the Natural Sciences Department Office, N813.

Requirements for Minors in Science

Minors require a minimum GPA of 2.0 in all applied coursework. Upper level courses applied to a minor must have a grade of C or better. Minors must be distinct from any declared degree and degree concentration. Students may bring 3-4 hours of upper-level credit from another institution, but the balance of upper-level credits (depending upon minor) must be taken at UHD. Credit for directed studies, field experiences, honors thesis and undergraduate research cannot apply.

**Bioinformatics:** BIOL 1301/1101, BIOL 3303/3103, CHEM 1307/1107, CHEM 1308/1108, CS 1410, CS 2410, CS 3304, CS 4318, and two courses from: CS 4328, CS 4319, or any approved upper-level CS course. All hours counted toward the minor must be passed with “C” or better. At least 6 hours of upper-level course work in the minor must be completed at the University of Houston-Downtown. Students majoring in an area of the natural sciences, computer science or mathematics should choose courses in consultation with their academic advisor.

**Biology:** 22 hours of biology with only eight hours at the lower level: must include a minimum of four three-contact hour laboratory courses.

**Chemistry:** 21 hours of chemistry: must include CHEM 1307/1107, 1308/1108, 3301/3201 and eight hours of upper-level chemistry.

**Environmental Sciences:** 22 hours: must include:
- BIOL 3302/3102,
- BIOL 4260 (crosslisted as CHEM 4260 and GEOL 4260),
- Environmental (pick two): BIOL 4360, CHEM 3320, GEOL 3303 or Mbio 3340.
- Species Identification (pick one): BIOL 3310/3110, BIOL 3340/3140 or BIOL 4390/4190 (Special Topics – Vertebrate Natural History).
- Chemical/Geochemical Analysis (pick one): CHEM 3310/3110 or GEOL 3340.
- Environmental Non-Science Course (pick one): BA 3303, ENG 3329 or PHIL 3320.

**Geology:** 20 hours: must include GEOL 1305/1105 and GEOL 1306/1106 and 12 hours of upper-level courses in geology.

**Microbiology:** 20 hours: must include BIOL 1301/1101, 1302/1102, MBIO 2305/2105 and eight hours of upper-level microbiology.

**Applied Physics:** 20 hours: must include PHYS 2401/2101, 2402/2102 and three upper-level courses in physics.

Science Education Certification Programs

**Jon Aoki,** EdD, Coordinator  
N725G, 713-221-8687

The Department of Natural Sciences, in cooperation with the Department of Urban Education, offers science teacher certification programs for secondary-level education. This program satisfies the requirements established by the State Board for Educator Certification and Texas Education Agency. A curriculum guide is available in N813.

Honors Program in the Natural Sciences

**Robin Jose,** PhD, Coordinator  
N810, 713-221-8115

In order to enhance the educational opportunities and experiences of academically talented students at UHD, the Department of
Natural Sciences offers an Honors Program in the Natural Sciences. The program is designed to challenge and motivate students to do more than the minimum required for a particular degree in science. Students who successfully complete this program will be designated as graduates of an Honors Program in the Department of Natural Sciences on their university transcript.

Admission Requirements:
- Application to the department's Honors Program Admissions and Review Committee
- Earned at least 60 semester credit hours of recognized university-level work
- An overall GPA of at least 3.0 with a GPA of 3.25 or better in science courses
- Earned at least 16 semester credit hours in science, eight of which must have been taken at UHD

Program Requirements:
- Satisfy the requirements for one of the department's Bachelor of Science degree programs
- Complete one honors-designated course in addition to six hours credit in BIOL, CHEM, GEOL, MBIO, or PHYS 4399 Senior Honors Thesis. The senior thesis will be completed under the supervision of an approved member of the UHD faculty with input from the Honors Program Committee
- Maintain a minimum GPA of 3.25 in all science courses including the required honors courses
- Maintain a GPA of 3.0 or better in all non-science courses taken at UHD

The departmental Honors Program Admissions and Review Committee must approve all honors designated courses and all projects proposed by students for their honors theses. Upper-level courses designated as Honors require at least 25 percent more in-depth study than that required of students taking the course without honors credit. The additional course requirements will vary depending on the course and instructor.

Bachelor of Science

Major in Biological and Physical Sciences (120 hours)

The Bachelor of Science in Biological and Physical Sciences provides both a broad-based curriculum in the liberal arts and a specific set of courses in the natural sciences designed to meet the personal and career goals and interests of the student. This degree is especially appropriate for students interested in multidisciplinary areas such as environmental science, earth/geological science, forensic science, life science, medical technology, public health, science education, and any health-related program that requires a bachelor’s degree for entry into a particular graduate program. Students interested in careers in teaching can pursue the B.S. in Biological and Physical Sciences with Concentration in Teacher Certification (see below).

Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Lower-Level Science Requirements
(Some of the following courses may be taken to fulfill common core requirements)
MATH 1404
CS 1408 or 1410
Seven of the following lecture/laboratory courses:
  BIOL 1301/1101, 1302/1102
  CHEM 1307/1107, 1308/1108
  GEOL 1305/1105, 1306/1106
  PHYS 1307/1107 or 2401/2101
  PHYS 1308/1108 or 2402/2102

**Upper-Level Requirements**
Forty-four hours, of which at least 22 hours must be in the natural sciences, (biology, chemistry, geology, microbiology, and physics) with a minimum grade point average in natural sciences courses of 2.0 or better. At least 18 of these hours must be taken at UHD. At least 7-8 hours must be in 4000-level natural sciences lecture courses with at least one laboratory course. Field experience or thesis credit cannot be used to satisfy this 4000-level requirement.

**NOTE:** Excluding the hours listed under "Lower-level Science Requirements," no more than 28 hours of natural sciences courses (biology, chemistry, geology microbiology and physics) may be in a single discipline, and no more than 18 hours of the required upper-level science may be in a single discipline. This rule does not apply to BPS degree with concentrations.

**Free Electives**
Electives must be taken to complete the minimum 120 hours required for the degree. Up to 6 hours of research may be counted toward the degree.

**Major in Biological and Physical Sciences with Concentration in Teacher Certification (121 hours)**
Students in the BS in Biological and Physical Sciences with Concentration in Teacher Certification will be advised to take 16 hours of upper level science in one area (24 hours total in one area) so they can meet course requirements for teaching specialization in that area.

**General Education Requirements**
Same as the BS in Biological and Physical Sciences described above.

**Major Requirements**

**Lower-Level Science Requirements**
(Some of the following courses may be taken to fulfill common core requirements)

MATH 1404

Seven of the following lecture/laboratory courses:
  CS 1408 or 1410
  BIOL 1301/1101, 1302/1102
  CHEM 1307/1107, 1308/1108
  GEOL 1305/1105, 1306/1106
  PHYS 1307/1107 or 2401/2101
  PHYS 1308/1108 or 2402/2102

**Upper-Level Requirements**
Forty-four hours, of which at least 22 hours must be in the natural sciences, (biology, chemistry, geology, microbiology, and physics) with a minimum grade point average in natural sciences courses of 2.0 or better. At least 18 of these hours must be taken at UHD. At least 7-8 hours must be in 4000-level natural sciences lecture courses with at least one laboratory course. Field experience or thesis credit cannot be used to satisfy this 4000-level requirement. Students seeking Secondary (7–12) Certification through the Urban Education Department must meet with a CST advisor as well as complete a formal application in the Urban Education Department.
Bachelor of Science
Major in Biology (120 hours)

Jeff Flossi, PhD, Coordinator
N820, 713-221-8171

The Bachelor of Science program provides both a broad-based curriculum in the Liberal Arts and in the Natural Sciences and a set of courses specifically in Biology. It is designed to meet the personal and career goals and interests of the student. The program allows the student a certain amount of flexibility in tailoring a degree program to his/her unique needs, yet does so within the confines of a traditional major in biology. This degree is particularly appropriate for students interested in the following areas: dentistry, medicine and related fields that require post-graduate study, public health, graduate work in biological or biomedical sciences, and science education. The Natural Sciences Department also offers a B.S. in Biology with Concentration in Environmental Biosciences, Concentration in Microbiology, or Concentration in Molecular and Cellular Biosciences.

Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Technical writing course. Choose one of the following:
ENG 3302, 3325, 3326, 3329 or 4306

Mathematics and Science
(Some of the following courses may be taken to fulfill common core requirements)
BIOL 1301/1101
BIOL 1302/1102
CHEM 1307/1107
CHEM 1308/1108
MATH 2411 or MATH 2401
MATH 2412 or CS 1408 or CS 1410
STAT 3311
MBIO 2305/2105
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102

Biology Courses
BIOL 3303/3103
CHEM 3301/3201
CHEM 4340/4140
BIOL 3306 or BIOL/GEOL 4301
BIOL 4210 or MBIO 4210
One of the following:
BIOL 3300, 4230, 4232, 4260, 4399*
(* enrollment in Honors Program required)
Biology Upper Level Options (20 hours)
Select at least one in each of the following areas:

**Cell/Molecular Area:** BIOL 4320, 4330, 4230 or 4232 (if not used above), MBIO 4320/4120, 3390/4390 (if approved)

**Plant/Fungal Area:** BIOL 3330/3130, 3310/3110, 3340/3140, 3390/4390 (if approved)

**Environmental Area:** BIOL 3302/3102, 4260 (if not used above), 4360, 4340, 4350, MBIO 3340, 3390/4390 (if approved)

**Organismal Area:** BIOL 3304/3104, 3305/3105, 3320/3120, 4303, 4313/4113, 4344, 4305, 3390/4390 (if approved), MBIO 3320 or 4344/4140

Approved Upper Level Electives
Upper level electives must be taken to complete the minimum 120 hours required for the degree. Up to 6 hours of undergraduate research may be counted toward the degree.

Major in Biology with Concentration in Environmental Biosciences (120 hours)

General Education Requirements
Same as the BS in Biology described above.

Major Requirements

**Technical Writing, Mathematics and Science, and Biology Core Courses**
Same as the BS in Biology described above.

**Courses for the Concentration (20 hours), *designated courses are required***
BIOL 3302/3102*
BIOL 4360*
BIOL 3330/3130 or 3310/3110 (one of these)*
MBIO 3340
CHEM 3320
GEOL 3303
BIOL 3340/3140
BIOL 3304/3104
BIOL 2390-4390 (if approved)

Approved Upper Level Electives
Upper level electives must be taken to complete the minimum 120 hours required for the degree. Up to six hours of undergraduate research may be counted toward the degree.

Major in Biology with Concentration in Microbiology (120 hours)

General Education Requirements
Same as the BS in Biology described above.

Major Requirements

**Technical Writing, Mathematics and Science, and Biology Core Courses**
Same as the BS in Biology described above.

**Courses for the Concentration (21 hours), (*designated courses are required)**
MBIO 3320*
MBIO 4320/4120*
MBIO 4340/4140*
BIOL 4220
MBIO 3340
CHEM 4342
BIOL 4310/4110
MBIO 4310
MBIO 3350/3150
BIOL 2390-4390 (if approved)

Approved Upper Level Electives
Upper level electives must be taken to complete the minimum 120 hours required for the degree. Up to six hours of undergraduate research may be counted toward the degree.

Major in Biology with Concentration in Molecular and Cellular Biosciences (120 hours)

General Education Requirements
Same as the BS in Biology described above.

Major Requirements

Technical Writing, Mathematics and Science, and Biology Core Courses
Same as the BS in Biology described above.

Courses for the Concentration (20 hours), *designated courses are required
BIOL 4330*
BIOL 4320*
BIOL 2390-4390 (as approved)
BIOL 3330/3130
BIOL 3308
BIOL 4220
BIOL 4230 or 4232 (if not used in biology core courses)
BIOL 4303
BIOL 4310/4110
BIOL/CHEM 4344
CHEM 4342
MBIO 4320/4120
MBIO 3320
MBIO 4310

Approved Upper Level Electives
Upper level electives must be taken to complete the minimum 120 hours required for the degree. Up to six hours of undergraduate research may be counted toward the degree.

Bachelor of Science

Major in Biotechnology (120 hours)

This Bachelor of Science program provides a rigorous, broad-based curriculum in the Liberal Arts and in the Natural Sciences, and a set of courses specifically directed toward the field of Biotechnology. This interdisciplinary program provides both entry-level job skills in biotechnology and a strong academic background needed to pursue a master’s or doctorate degree in Biotechnology, Biochemistry, Microbiology or Molecular Biology. This program will also satisfy course requirements for all major pre-professional degree programs in medicine, dentistry, pharmacy, optometry, and veterinary medicine.
Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Technical writing course
Pick one of ENG 3302, 3325, 3326, 3329 or 4306.

Mathematics and Science
(Some of the following courses may be taken to fulfill common core requirements)
BIOL 1301/1101
BIOL 1302/1102
CHEM 1307/1107
CHEM 1308/1108
MATH 2411 or MATH 2401
MATH 2412 or CS 1408 or 1410
STAT 3311
MBIO 2305/2105
PHYS 1307/1107 or PHYS 2401/2101
PHYS 1308/1108 or PHYS 2402/2102

Upper-Level Science
BIOL 3303/3103
BIOL 3330/3130 or 3340/3140
BIOL/MBIO 4210
BIOL 4230 or BIOL 4232
BIOL 4220 or 4330
CHEM 3301/3201
CHEM 4340/4140

Choose two courses from each of the following 3 content categories:

Foundational Content
BIOL 4320
MBIO 4310
MBIO 4330
MBIO 4320/4120

Chemistry and Mathematics Content
CHEM 3302/3202
CHEM 4342
CHEM 3310/3110
CHEM 4360
CHEM 4364
CHEM 4410
CHEM 3190-4490 (must see advisor for department approval)
STAT 4307 or MATH 3301 or MATH 4304 or MATH 4315 or MATH 4399
Focus Content
BIOL 3307
BIOL 4303
BIOL 4313/4113
BIOL/CHEM 4344
BIOL/MBIO 4390 (must see advisor for department approval)
MATH 3308
MBIO 3320
MBIO 3340
MBIO 4340/4140
CS 3300, CS 4306, CS 4328, CS 4399

Bachelor of Science

Major in Chemistry (120 hours)

Maria Benavides, PhD, Coordinator
N811, 713-221-8170

Course Requirements for the Chemistry Major

The courses specified for this degree are approved by the American Chemical Society for a Bachelor of Science in Chemistry. This degree will provide students with the knowledge needed to pursue graduate studies in chemistry or related fields.

The program is divided into three principal areas. The first area contains a group of courses in the liberal arts that provide the student with a broad-based general education. The second area contains courses that provide a strong foundation in basic science, including courses in biology, chemistry, computer science, mathematics, and physics. The third area emphasizes the advanced methods, theories, and applications that are important to the world of chemistry. Some of the courses included in this area are organic chemistry, physical chemistry, quantitative analysis, and biochemistry. Students are required to participate in research during the junior or senior year. All general requirements for graduation in the Department of Natural Sciences apply to this degree.

Degree Requirements

General Education Requirements

**Common Core Requirements**
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

**Integrated Requirements in Communication and Ethics**
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

**Chemistry Major – Areas of Emphasis**
Students majoring in Chemistry may choose to emphasize their curriculum in four specific areas: biochemistry, environmental chemistry, industrial chemistry and forensic science.

**Technical writing course.** Choose from one of the following:
ENG 3302, 3325, 3326, 3329 or 4306

**Science and Mathematics**
BIOL 1301/1101
BIOL 1302/1102
CHEM 1307/1107
CHEM 1308/1108
MATH 2401
MATH 2402
MATH 2403
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102
CS 1408 or 1410 or STAT 3311

**Major Area of Emphasis**
CHEM 3300
CHEM 3301/3201
CHEM 3302/3202
CHEM 3310/3110
CHEM 3320
CHEM 3330/3130
CHEM 3332/3132
CHEM 4410
CHEM 4340/4140
CHEM 4362/4162
CHEM 4364

**Free Electives**
Electives must be taken to complete the minimum 120 hours required for the degree. Students are encouraged to use an appropriate field experience or undergraduate research course to satisfy part of this requirement.

**Major in Chemistry with Concentration in Biochemistry (120 hours)**

**General Education Requirements**

**Common Core Requirements**
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

**Integrated Requirements in Communication and Ethics**
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

**Major Requirements**

**Technical writing course.** Choose from one of the following:
ENG 3302, 3325, 3326, 3329 or 4306

**Science and Mathematics**
BIOL 1301/1101
BIOL 1302/1102
CHEM 1307/1107
CHEM 1308/1108
MATH 2411
MATH 2412
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102
STAT 3311
CS 1408 or CS 1410

**Major Area of Emphasis**
BIOL 3303/3103
BIOL 3320/3120
BIOL 4320 or BIOL 4330
CHEM 3301/3201
CHEM 3302/3202  
CHEM 3310/3110  
CHEM 3300  
CHEM 3330/3130  
CHEM 4340/4140  
CHEM 4342 or CHEM 4344  
CHEM 4362/4162

Free Electives
Electives must be taken to complete the minimum 120 hours required for the degree. Students are encouraged to use an appropriate field experience or undergraduate research course to satisfy part of this requirement.

Major in Chemistry with Concentration in Environmental Chemistry (120 hours)

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Technical writing course. Choose from one of the following:  
ENG 3302 or 4306

Science and Mathematics
BIOL 1301/1101  
BIOL 1302/1102  
CHEM 1307/1107  
CHEM 1308/1108  
GEOL 1305/1105* or MBIO 2305/2105 *  
MATH 2411 or MATH 2401  
MATH 2412 or MATH 2402  
PHYS 1307/1107 or 2401/2101  
PHYS 1308/1108 or 2402/2102

Major Area of Emphasis
CHEM 3301/3201  
CHEM 3302/3202  
CHEM 3310/3110  
CHEM 3300  
CHEM 3320  
CHEM 3330/3130  
CHEM 4340/4140  
CHEM 4410  
CHEM 4362/4161  
CHEM 4364 or CHEM 4344 or CHEM 4360  
BIOL 4360 or GEOL 3303 * or MBIO 3340 *

*NOTE: students planning to take GEOL 3303 should take GEOL 1305/1105 and students planning to take MBIO 3340 should take MBIO 2305/2105.
Major in Chemistry with Concentration in Forensic Science (121 hours)

General Education Requirements

**Common Core Requirements**
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs. Students are encouraged to take CJ 1301 for the Social/Behavioral Sciences common core requirement.

**Integrated Requirements in Communication and Ethics**
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

**Major Requirements**

- **Technical writing course.** Choose from one of the following:
  - ENG 3302 or 3308

- **Science and Mathematics**
  - BIOL 1301/1101
  - BIOL 1302/1102
  - CHEM 1307/1107
  - CHEM 1308/1108
  - CS 1408 or CS 1410
  - MATH 2411 or MATH 2401
  - MATH 2412
  - PHYS 1307/1107 or 2401/2101
  - PHYS 1308/1108 or 2402/2102

- **Major Area of Emphasis**
  - BIOL 3303/3103 or BIOL 3320/3120
  - CHEM 3301/3201
  - CHEM 3302/3202
  - CHEM 3310/3110
  - CHEM 4380
  - CHEM 3330/3130
  - CHEM 4340/4140
  - CHEM 4342 or CHEM 4344
  - CHEM 4362/4162
  - CHEM 4410
  - CJ 3302 or CJ 3305
  - CJ 3311

Major in Chemistry with Concentration in Industrial Chemistry (120 hours)

General Education Requirements

**Common Core Requirements**
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

**Integrated Requirements in Communication and Ethics**
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.
Major Requirements

Technical writing course. Choose from one of the following:
ENG 3302, 3325, 3326, 3329 or 4306

Mathematics and Science
BIOL 1301/1101
BIOL 1302/1102
CHEM 1307/1107
CHEM 1308/1108
CS 1408 or 1410
MATH 2411 or MATH 2401
MATH 2412
STAT 3311
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102

Major Area of Emphasis
CHEM 3300 or CHEM 4380
CHEM 3301/3201
CHEM 3302/3202
CHEM 3310/3110
CHEM 3330/3130
CHEM 4410
CHEM 4360
CHEM 4340/4140
CHEM 4362/4162
CHEM 4364

Free Electives
Electives must be taken to complete the minimum 120 hours required for the degree. Students are encouraged to use an appropriate field experience or undergraduate research course to satisfy part of this requirement.

Bachelor of Science

Major in Geosciences with Concentration in Environmental Geology (120 hours)

Ken Johnson, PhD, Coordinator
N822, 713-221-5375

The Bachelor of Science in Geoscience with Concentration in Environmental Geology provides both a broad-based curriculum in the liberal arts and the natural sciences. In addition to a broad foundation in the geosciences, this degree includes a set of courses with an environmental focus. This degree is designed to meet the needs of those interested in graduate studies in environmental geology or in the environmental industry.

Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.
Major Requirements

Mathematics and Science (36-38 hours)
- GEOL 1305/1105
- GEOL 1306/1106
- CHEM 1307/1107
- CHEM 1308/1108
- PHYS 1307/1107 or 2401/2101
- PHYS 1308/1108 or 2402/2102
- CS 1408 or 1410
- MATH 2401 or 2411
- MATH 2402 or 2412

Geology Core Courses (32 hours)
- GEOL 3310/3110
- GEOL 3411
- GEOL 3312/3112
- GEOL 3305/3105
- GEOL 3302/3102
- GEOL 4303
- GEOL 4304*
- GEOL 3300
- STAT 3311
* Field Geology may be coordinated with other universities by departmental approval

Area of Concentration (15 hours)

Environmental Geology (15 hours)
- GEOL 3303
- GEOL 3340
- PHIL 3320
- ENG 3329
- and 3 hours from the following:
  - GEOL 3300
  - GEOL 3430
  - CHEM 3301/3201
  - CHEM 3320
  - GEOL 3490 (Atmospheres of Planets)
  - GEOL 4401

Free Electives
Electives must be taken to complete the minimum 120 hours required for the degree.

Major in Geosciences with Concentration in Geochemistry (120 hours)

Ken Johnson, PhD, Coordinator
N822, 713-221-5375

The Bachelor of Science in Geoscience with Concentration in Geochemistry provides both a broad-based curriculum in the liberal arts and the natural sciences. In addition to a broad foundation in the geosciences, this degree includes a set of courses with a geochemistry focus. This degree is designed to meet the needs of those interested in graduate studies in geochemistry or in many earth science-related industries that require knowledge of geochemistry.
Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Mathematics and Science (36-38 hours)
GEOL 1305/1105
GEOL 1306/1106
CHEM 1307/1107
CHEM 1308/1108
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102
CS 1408 or 1410
MATH 2401 or 2411
MATH 2402 or 2412

Geology Core Courses (32 hours)
GEOL 3310/3110
GEOL 3411
GEOL 3312/3112
GEOL 3305/3105
GEOL 3302/3102
GEOL 4303
GEOL 4304*
GEOL 3300
STAT 3311
* Field Geology may be coordinated with other universities by departmental approval

Area of Concentration (15 hours)
GEOL 3340
GEOL 3490 (Atmospheres of Planets)
8 hours from the following five options below:
GEOL 3300
CHEM/PHYS 3402
CHEM 3301/3201
CHEM 3310/3110
CHEM 3330/3130
GEOL 4401

Free Electives
Electives must be taken to complete the minimum 120 hours required for the degree.

Major in Geosciences with Concentration in Petroleum Geotechnology (120 hours)

Ken Johnson, PhD, Coordinator
N822, 713-221-5375
The Bachelor of Science in Geoscience with Concentration in Petroleum Geotechnology provides both a broad-based curriculum in the liberal arts and the natural sciences. In addition to a broad foundation in the geosciences, this degree includes a set of courses with petroleum industry-related topics. This degree is designed to meet the needs of those interested in graduate studies in geology or careers in the oil and gas industry that require knowledge of petroleum related science.

Degree Requirements

General Education Requirements

Common Core Requirements
See the Common Core Requirements section of the catalog for Undergraduate Academic Programs.

Integrated Requirements in Communication and Ethics
Students pursuing degrees in the Natural Sciences must complete two courses in written communication and one course in ethics. Generally these required courses are integrated into each degree. A list of these required courses is found at the end of the Natural Sciences degree programs section.

Major Requirements

Mathematics and Science (36-38 hours)
GEOL 1305/1105
GEOL 1306/1106
CHEM 1307/1107
CHEM 1308/1108
PHYS 1307/1107 or 2401/2101
PHYS 1308/1108 or 2402/2102
CS 1408 or 1410
MATH 2401 or 2411
MATH 2402 or 2412

Geology Core Courses (32 hours)
GEOL 3310/3110
GEOL 3411
GEOL 3312/3112
GEOL 3305/3105
GEOL 3302/3102
GEOL 4303
GEOL 4304*
GEOL 3300
STAT 3311
* Field Geology may be coordinated with other universities by departmental approval

Area of Concentration (15 hours)
CHEM/PHYS 3402
GEOL 4302/4102
GEOL 4390/4190
and 3 hours from the following:
GEOL 3300
GEOL 3340
ENG 3302

Free Electives
Electives must be taken to complete the minimum 120 hours required for the degree.
Integrated Requirements for all Majors in Natural Sciences

Ethics Course Requirements

- ADM 3308 Business Ethics
- BIOL 3308 Cancer Biology
- BIOL 4210 Biology Seminar
- BIOL 4260 Environmental Laboratory and Field Studies (crosslisted CHEM & GEOL 4260)
- BIOL 4303 Human Genetics
- BIOL 4360 Environmental Biology
- BIOL 4344 Principles of Pharmacology and Toxicology (crosslisted CHEM 4344)
- CHEM 3320 Environmental Chemistry
- CJ 3311 Ethics of Social Control
- GEOL 3303 Environmental Geology
- GEOL 3310 Mineralogy
- HIST 3303 Modern American Social Protest
- MBIO 3340 Environmental Microbiology
- MBIO 4210 Microbiology Seminar
- MBIO 4310 Microbial Biotechnology
- PHIL 3301 Moral Issues, Personal & Professional
- PHIL 3302 Philosophy of Science
- PHIL 3322 World Religions
- POLS 3306 Social Inequality

Writing “W” Course Requirements

All upper-level ENG courses except 3318, 3319, 3320, 3330, 3331, 4318, 4322

- BIOL 3102 General Ecology Laboratory
- BIOL 4230 Advanced Laboratory in Cell and Molecular Biology
- BIOL 4232 Cell Biology Laboratory
- BIOL 4301 Evolution of the Earth and its Inhabitants (crosslisted GEOL 4301)
- BIOL 4310 Histology
- BIOL 4340 Animal Behavior
- CHEM 4140 Biochemistry Laboratory
- CHEM 4362 Advanced Inorganic Chemistry
- CHEM 4364 Polymer Chemistry
- GEOL 3305 Petrology
- GEOL 3340 Inorganic Geochemistry (crosslisted CHEM 3340)
- GEOL 4401 Biogeochemistry
- MBIO 3320 Virology
- MBIO 4120 Immunology Laboratory
- MBIO 4140 Medical Microbiology Laboratory
- PHYS 3402 Thermophysical Properties of Materials (crosslisted CHEM 3402)

Additional courses may count, but they must be petitioned through CST advising in N724 and approved by the Chair of the Natural Sciences Department.

Pre-Professional Areas

The Department of Natural Sciences offers lower and upper-level courses in the academic and specialized areas described above. In addition, it provides courses that serve a number of pre-professional areas. Students in pre-dentistry, pre-medicine and pre-veterinary medicine who plan to earn a bachelor’s degree prior to entering the respective professional school may choose to follow one of the degree programs offered by the department. The pre-clinical course requirements for students interested in clinical laboratory science, dental hygiene, nursing, nutrition and dietetics, occupational therapy, optometry, pharmacy, physical therapy, physician’s assistant and dentistry, medicine and veterinary medicine are described below. Since entrance requirements vary widely and are subject to frequent changes, close consultation with an assigned advisor is recommended, or examination of the website for the program at the institution(s) of interest.

Clinical Laboratory Science/Medical Technology

Students who plan to become registered medical technologists must complete one year of clinical training during the fourth or fifth year of study. Prior to entering the clinical program they should complete the following courses: BIOL 1301/1101, 1302/1102, 3420; CHEM 1307/1107, 1308/1108, 3301/3201, 3310/3110, and 4340/4140; ENG 1301, 1302, and six hours of sophomore English; 6
hours of POLS (see website of program); HIST 1305, 1306; six hours of mathematics; MBIO 2305/2105, 4320/4120; PHYS 1307/1107, 1308/1108; suggested electives include BIOL 3303/3103, 3305/3105. The BS program in Biological and Physical Sciences is recommended for students interested in Medical Technology or Clinical Laboratory Science. UHD is affiliated with the School Clinical Laboratory Science Program at the Methodist Hospital of Houston.

**Dental Hygiene**

Students applying to schools of dental hygiene to pursue the Bachelor of Science in Dental Hygiene are required to complete at least 62 semester hours prior to their admission. Courses generally required include: BIOL 1301/1101, 1302/1102; CHEM 1305/1105; ENG 1301/1302, and 6 hours of sophomore English; 6 hours of POLS (see website of program); 3 hours of mathematics; HIST 1305, 1306; PSY 1303; SOC 1303; COMM 1304.

**Medical Records Administration/Health Information Management Program**

To qualify for the Medical Record Administration designation, a bachelor's degree and completion of an accredited Medical Record Administration are required. There are two accredited HIM programs at the baccalaureate level in the State of Texas. The general requirements for the program in the State of Texas are: BIOL 1303/1103, 1304/1104; ENG 1301, 1302 and three hours of Sophomore English, 6 hours of POLS (see website of program); HIST 1305, 1305; MBIO 1305/1105; three hours each of business, mathematics, computer science and speech; and up to 21 hours, which must include biology and other courses depending on the institution. Check with your advisor for the specific requirements for a given institution.

**Nursing**

Students who intend to pursue a Bachelor of Science degree in nursing are required to complete at least 60 semester hours prior to entering a school of nursing. Courses generally required include: ANTH 2302; BIOL 1303/1103, 1304/1104; CHEM 1305/1105, ENG 1301, 1302; 6 hours of POLS (see website of program); HIST 1305, 1306; STAT 2300 or SOS 3312; MBIO 1305/1105; PHIL 1301; PSY 1303, 2310; SOC 1303.

**Nutrition and Dietetics**

Students applying to schools of nutrition and dietetics to pursue the Bachelor of Science degree during their junior and senior year are required to complete at least 60 semester hours prior to their admission. UH-Downtown and the University of Texas School of Allied Health Sciences have a cooperative program for a Bachelor of Science in Nutrition and Dietetics. Lower-level courses required include: BIOL 1303/1103, 1304/1104; CHEM 1307/1107, 1308/1108, 3301/3201; ECO 2301 or 2302; ENG 1301, 1302 and 3 hours of sophomore English; 6 hours of POLS (see website of program); PSY 1303; SOC 1303. Recommended electives include courses in physics, statistics, speech and additional courses in social sciences, biology and mathematics.

**Occupational Therapy**

Prior to admission to a clinical program in occupational therapy, students are required to complete a minimum of 60 semester hours. Courses generally required include: BIOL 1301/1101, 1302/1102, 1303/1103, or 3304/3104, 1304/1104 or 3305/3105; CHEM 1307/1107, ENG 1301, 1302, plus zero-six hours of literature; 6 hours of POLS (see website of program); HIST 1305, 1306; zero-six hours of mathematics; PHYS 1307/1107; six hours of psychology, three-six hours of sociology and zero-three hours of speech. TWU requires a baccalaureate degree for transfer students.

**Optometry**

Students applying to the UH College of Optometry to pursue the bachelor of science and doctor of optometry degrees are required to complete a baccalaureate degree prior to their admission. Students may apply for admission while completing their pre-optometry course work. Courses required to enter the University of Houston College of Optometry include: BIOL 1301/1101, 1302/1102, 3305/3105, 3320/3120; CHEM 1307/1107, 1308/1108, 3301/3201 and 4340; ENG 1301, 1302, and 6 hours of sophomore English; 6 hours of POLS (see website of program); HIST 1305, 1306; MATH 1404, 2401; MBIO 2305/2105; PHYS 1303; PSY 1303; STAT 3311; electives: six hours from art, drama, history, literature, music and philosophy.

**Pharmacy**

The schools of Pharmacy in the State of Texas are now instituting the Doctor of Pharmacy (PharmD) as the entry level degree for the field of pharmacy. For admission to the program at the University of Houston College of Pharmacy the courses listed below must be successfully completed or in progress. The courses listed also meet all but one or two of the minor requirements for admission to the colleges of pharmacy at the University of Texas at Austin, Texas Southern University, and Texas Tech University.

BIOL 1301/1101, 1302/1102; CHEM 1307/1107, 1308/1108, 3301/3201, 3302/3202; ENG 1301, 1302 and three hours of sophomore English; 6 hours of POLS (see website of program), HIST 1305, 1306; MATH 1306; MBIO 2305/2105; PHYS
1307/1107, PSY 1303, PSY 2302 or SOC 1303, STAT 2300; Six hours of Cultural Heritage electives which meet the requirements of the UH core curriculum. Suggested electives are BIOL 3305/3105 and CHEM 4340/4140, COMM 1304, 3304 or 3306.

Physical Therapy
Most physical therapy programs require a Bachelor of Science degree prior to admission. Courses required include: BIOL 1301/1101, 1302/1102, 3305/3105, 3320/3120; CHEM 1307/1107, 1308/1108; COMM 1304; ENG 1301, 1302; 6 hours of POLS (see website of program); HIST 1305, 1306; MATH 1301; PHYS 1307/1107, 1308/1108; PSY 1303, 2310; SOC 1303; STAT 2300. The BS program in Biological and Physical Sciences is recommended for students interested in Physical Therapy.

Physician’s Assistant
Prior to admission to a program leading to professional certification as a physician’s assistant, students must complete a minimum of 90 hours. Many students who enter these programs have a four-year degree. Some programs require a degree prior to admission. Students should consult with their advisor for the requirements of the program(s) they are interested in. Courses generally required are: BIOL 1301/1101, 1302/1102 and 1303/1103, 1304/1104; CHEM 1307/1107, 1308/1108, ENG 1301, 1302, three hours of literature; three hours of speech; 6 hours of POLS (see website of program); HIST 1305, 1306; MATH 1301; MBIO 2305/2105, STAT 2300; nine hours of behavioral and social sciences; eight hours of electives in health-related areas; and a computer literacy course.

Dentistry and Medicine*
A baccalaureate degree is strongly recommended for all pre-dental and pre-medical students since dental and medical colleges accept very few students without a degree. The courses required of most pre-dental and pre-medical students in Texas prior to admission include: BIOL 1301/1101, 1302/1102 and eight hours of advanced biology with lab, CHEM 1307/1107, 1308/1108, 3301/3201, 3302/3202, 4340; ENG 1301, 1302 and six hours of sophomore English (may include ENG 3302), MATH 2401 (except for dental students); PHYS 1307/1107, 1308/1108.

Veterinary Medicine*
A baccalaureate degree is recommended for all pre-veterinary medicine students. Students are urged to visit the website for the Texas A&M College of Veterinary Medicine for current prerequisites.

* After completion of 30 semester hours of university-level work, the pre-dental, pre-medical and pre-veterinary major is encouraged to contact the Health Professions Advisory Committee (HPAC) Chair, Dr. Tyra Hessel. Dr. Hessel will guide the student in finding a faculty mentor. Together HPAC and the mentor will advise the student in providing information about application procedures, professional entrance exams and providing letters of evaluation.
<table>
<thead>
<tr>
<th>TCCNS Course Number</th>
<th>UHD Course Number</th>
<th>TCCNS Course Number</th>
<th>UHD Course Number</th>
<th>TCCNS Course Number</th>
<th>UHD Course Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2301</td>
<td>ACC 2301</td>
<td>CRJ 1301</td>
<td>CJ 1301</td>
<td>MATH 1342</td>
<td>STAT 2300</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>ACC 2302</td>
<td>CRJ 1306</td>
<td>CJ 2302</td>
<td>MATH 2318</td>
<td>MATH 2407</td>
</tr>
<tr>
<td>ANTH 2301</td>
<td>ANTH 2301</td>
<td>CRJ 2313</td>
<td>CJ 2303</td>
<td>MATH 2405</td>
<td>MATH 2405</td>
</tr>
<tr>
<td>ANTH 2351</td>
<td>ANTH 2351</td>
<td>CRJ 2328</td>
<td>CJ 2301</td>
<td>MATH 2412</td>
<td>MATH 1404</td>
</tr>
<tr>
<td>ARTS 1301</td>
<td>ART 1310</td>
<td>DRAM 1310</td>
<td>DRA 1301</td>
<td>MATH 2413</td>
<td>MATH 2401</td>
</tr>
<tr>
<td>ARTS 1303</td>
<td>ART 1301</td>
<td>DRAM 1330</td>
<td>DRA 1305</td>
<td>MATH 2414</td>
<td>MATH 2402</td>
</tr>
<tr>
<td>ARTS 1304</td>
<td>ART 1302</td>
<td>DRAM 1351</td>
<td>DRA 1303</td>
<td>MATH 2415</td>
<td>MATH 2403</td>
</tr>
<tr>
<td>ARTS 1311</td>
<td>ART 1303</td>
<td>DRAM 1352</td>
<td>DRA 1304</td>
<td>MUSI 1311</td>
<td>MUS 1304</td>
</tr>
<tr>
<td>ARTS 1312</td>
<td>ART 1304</td>
<td>ECON 1301</td>
<td>ECO 1301</td>
<td>PHIL 1301</td>
<td>PHIL 1301</td>
</tr>
<tr>
<td>ARTS 1316</td>
<td>ART 1305</td>
<td>ECON 2301</td>
<td>ECO 2301</td>
<td>PHIL 2317</td>
<td>PHIL 2302</td>
</tr>
<tr>
<td>ARTS 1317</td>
<td>ART 1306</td>
<td>ECON 2302</td>
<td>ECO 2302</td>
<td>PHYS 1101</td>
<td>PHYS 1107</td>
</tr>
<tr>
<td>ARTS 2316</td>
<td>ART 2303</td>
<td>EDUC 1100</td>
<td>CSP 1101</td>
<td>PHYS 1102</td>
<td>PHYS 1108</td>
</tr>
<tr>
<td>ARTS 2317</td>
<td>ART 2304</td>
<td>EDUC 1300</td>
<td>CSP 1301</td>
<td>PHYS 1301</td>
<td>PHYS 1307</td>
</tr>
<tr>
<td>ARTS 2323</td>
<td>ART 2301</td>
<td>ENGL 1301</td>
<td>ENG 1301</td>
<td>PHYS 1302</td>
<td>PHYS 1308</td>
</tr>
<tr>
<td>ARTS 2366</td>
<td>ART 2306</td>
<td>ENGL 1302</td>
<td>ENG 1302</td>
<td>PHYS 2125</td>
<td>PHYS 2101</td>
</tr>
<tr>
<td>ARTS 2367</td>
<td>ART 2307</td>
<td>ENGL 2322</td>
<td>ENG 2313</td>
<td>PHYS 2126</td>
<td>PHYS 2102</td>
</tr>
<tr>
<td>BCIS 1301</td>
<td>CIS 1301</td>
<td>ENGL 2323</td>
<td>ENG 2314</td>
<td>PHYS 2425</td>
<td>PHYS 2401</td>
</tr>
<tr>
<td>BIOL 1106</td>
<td>BIOL 1101</td>
<td>ENGL 2327</td>
<td>ENG 2311</td>
<td>PHYS 2426</td>
<td>PHYS 2402</td>
</tr>
<tr>
<td>BIOL 1107</td>
<td>BIOL 1102</td>
<td>ENGL 2328</td>
<td>ENG 2312</td>
<td>PSYC 2301</td>
<td>PSY 1303</td>
</tr>
<tr>
<td>BIOL 1306</td>
<td>BIOL 1301</td>
<td>ENGL 2332</td>
<td>ENG 2301</td>
<td>PSYC 2306</td>
<td>SOS 2308</td>
</tr>
<tr>
<td>BIOL 1307</td>
<td>BIOL 1302</td>
<td>ENGL 2333</td>
<td>ENG 2302</td>
<td>PSYC 2314</td>
<td>PSY 2310</td>
</tr>
<tr>
<td>BIOL 1322</td>
<td>BIOL 2306</td>
<td>ENGR 1407</td>
<td>ENGR 2407</td>
<td>PSYC 2315</td>
<td>PSY 2306</td>
</tr>
<tr>
<td>BIOL 2101</td>
<td>BIOL 1103</td>
<td>FREN 1411</td>
<td>FREN 1401</td>
<td>PSYC 2319</td>
<td>PSY 2302</td>
</tr>
<tr>
<td>BIOL 2102</td>
<td>BIOL 1104</td>
<td>FREN 1412</td>
<td>FREN 1402</td>
<td>REAL 1301</td>
<td>FIN 2301</td>
</tr>
<tr>
<td>BIOL 2120</td>
<td>MBIO 1105</td>
<td>FREN 2311</td>
<td>FREN 2301</td>
<td>SOC 1301</td>
<td>SOC 1303</td>
</tr>
<tr>
<td>BIOL 2121</td>
<td>MBIO 2105</td>
<td>FREN 2312</td>
<td>FREN 2302</td>
<td>SOC 1306</td>
<td>SOC 2302</td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>BIOL 1303</td>
<td>GEOG 1303</td>
<td>GEOG 1302</td>
<td>SOC 2326</td>
<td>PSY 2302</td>
</tr>
<tr>
<td>BIOL 2302</td>
<td>BIOL 1304</td>
<td>GEOG 1403</td>
<td>GEOG 1305</td>
<td>SOCW 2361</td>
<td>SOC 2306</td>
</tr>
<tr>
<td>BIOL 2320</td>
<td>MBIO 1305</td>
<td>GEOG 1401</td>
<td>GEOG 1307</td>
<td>SPAN 1300</td>
<td>SPAN 1305</td>
</tr>
<tr>
<td>BIOL 2321</td>
<td>MBIO 2305</td>
<td>GEOG 1402</td>
<td>GEOG 1308</td>
<td>SPAN 1411</td>
<td>SPAN 1401</td>
</tr>
<tr>
<td>CHEM 1105</td>
<td>CHEM 1105</td>
<td>GEOG 1404</td>
<td>GEOG 1306</td>
<td>SPAN 1412</td>
<td>SPAN 1402</td>
</tr>
<tr>
<td>CHEM 1111</td>
<td>CHEM 1107</td>
<td>GOVT 2301</td>
<td>POLS 2303</td>
<td>SPAN 2311</td>
<td>SPAN 2301</td>
</tr>
<tr>
<td>CHEM 1112</td>
<td>CHEM 1108</td>
<td>GOVT 2302</td>
<td>POLS 2304</td>
<td>SPAN 2312</td>
<td>SPAN 2302</td>
</tr>
<tr>
<td>CHEM 1305</td>
<td>CHEM 1305</td>
<td>HIST 1301</td>
<td>HIST 1305</td>
<td>SPAN 2313</td>
<td>SPAN 2311</td>
</tr>
<tr>
<td>CHEM 1311</td>
<td>CHEM 1307</td>
<td>HIST 1302</td>
<td>HIST 1306</td>
<td>SPAN 2315</td>
<td>SPAN 2312</td>
</tr>
<tr>
<td>CHEM 1312</td>
<td>CHEM 1308</td>
<td>HIST 2301</td>
<td>HIST 2303</td>
<td>SPCH 1311</td>
<td>COMM 1304</td>
</tr>
<tr>
<td>COMM 1307</td>
<td>COMM 1302</td>
<td>HUMA 2319</td>
<td>HIST 2309</td>
<td>SPCH 1315</td>
<td>COMM 1306</td>
</tr>
<tr>
<td>COMM 2366</td>
<td>COMM 2305</td>
<td>MATH 1314</td>
<td>MATH 1301</td>
<td>SPCH 1318</td>
<td>COMM 2309</td>
</tr>
<tr>
<td>COSC 1301</td>
<td>CIS 1301</td>
<td>MATH 1316</td>
<td>MATH 1302</td>
<td>SPCH 1342</td>
<td>COMM 1301</td>
</tr>
<tr>
<td>COSC 1436</td>
<td>CS 1410</td>
<td>MATH 1324</td>
<td>MATH 1305</td>
<td>SPCH 2341</td>
<td>COMM 1305</td>
</tr>
<tr>
<td>COSC 1437</td>
<td>CS 2410</td>
<td>MATH 1325</td>
<td>MATH 1306</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COSC 2330</td>
<td>CS 2310</td>
<td>MATH 1332</td>
<td>MATH 1310</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COSC 2325 or 2425</td>
<td>CS 2410</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Course Descriptions

Course Credit and Numbering System

Progress toward the completion of academic work is measured in terms of semester credit hours. One semester credit hour is normally equivalent to one hour of class work, or from one to six hours of laboratory work per week for a semester.

All courses are identified by discipline and number. The first digit of a course number indicates the academic level. Courses in the 1000 series are generally for freshmen, 2000 for sophomores, 3000 for juniors and 4000 for seniors. The 5000 and 6000 series courses are graduate courses. Undergraduates are not allowed to enroll in graduate courses without permission of the academic department which offers the courses. The second digit indicates the number of semester credit hours that the course carries. The third and fourth digits specify a particular course within its discipline.

The three numbers in parentheses after each course title indicate the number of semester credit hours, the number of class hours per week, and the number of additional laboratory or activity hours per week.

Texas Common Course Numbering System

The University of Houston-Downtown is a participant in the Texas Common Course Numbering System (TCCNS). This system ensures that if a student takes a course bearing a common course number at another college or university, UH-Downtown will accept the course in transfer as equivalent to the corresponding UH-Downtown course. Common course numbers have a four-letter prefix followed by a four-digit number. The four-letter prefix identifies the subject area. For example, ENGL is the common prefix for English courses, and COSC is the common prefix for computer science courses. The four-digit number following the prefix identifies a specific course with the subject area.

Each digit in the four-digit sequence gives additional information about the course. The first digit identifies the course as either freshman level (1) or sophomore level (2). The second digit identifies the number of credit hours students earn upon completing the course. The final two digits indicate the sequence in which courses are generally taken. Thus, French I (FREN 1311) is taken before French II (FREN 1312).

In this Catalog, for courses corresponding to those in the TCCNS, the common course number is indicated in parentheses at the end of the course description. The preceding page lists all UH-Downtown courses for which a common course number exists.

More information about the Texas Common Course Numbering System is available from the Office of Admissions (Room 326-South; 713-221-8533).

AA (Applied Administration)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AA 3301</td>
<td>Professional Ethics (3-3-0)</td>
<td>Prerequisite: 60 completed hours and declared BAAS major.</td>
<td>This course will examine the role of ethics as a professional and in the administration of public and private sector organizations. An emphasis will be on the influence of legal, economic, regulatory, and cultural conditions in determining ethical behavior.</td>
</tr>
<tr>
<td>AA 3302</td>
<td>Administrative Communication (3-3-0)</td>
<td>Prerequisite: 60 completed hours and declared non-business major.</td>
<td>A study of the skills necessary to communicate effectively in the workplace.</td>
</tr>
<tr>
<td>AA 3303</td>
<td>Information Technology Administration (3-3-0)</td>
<td>Prerequisite: 60 completed hours and declared non-business major.</td>
<td>The use of information technology in commercial and industrial enterprises.</td>
</tr>
<tr>
<td>AA 3304</td>
<td>Budgeting for Administrators (3-3-0)</td>
<td>Prerequisite: 60 completed hours, declared non-business major, and MATH 1301/1310.</td>
<td>The use of accounting and budgeting information for non-financial administrators in public and private sector</td>
</tr>
</tbody>
</table>
organizations. Emphasis is placed on the interpretation, analysis, and reporting of accounting information rather than its preparation. This course will utilize the tools necessary to sustain and enhance the organization's performance and competence through the use of research, compliance, and application of financial information.

**AA 3305  Human Resource Administration (3-3-0)**  
*Prerequisite: 60 completed hours, declared non-business major, and completion of Common Core.*  
This course examines the major trends in human resources including problems and issues faced by organizations and individuals in the public and private sector. Responsibilities of the human resources department and the roles of administrators and clients of the human resources department are emphasized.

**AA 3306  Decision Making Skills for Administrators (3-3-0)**  
*Prerequisite: 60 completed hours, declared non-business major, and completion of Common Core.*  
This course emphasizes the study of important decision-making tools and their uses by administrators for planning and controlling purposes, both in public and private sector organizations.

**AA 3307  Administrative Leadership (3-3-0)**  
*Prerequisite: 60 completed hours, declared non-business major, and completion of Common Core.*  
This course examines the nature and scope of leadership as it relates to administration and direction of the workforce. The techniques for leadership, empowerment and team building are emphasized.

**AA 3308  Negotiation and Mediation (3-3-0)**  
*Prerequisite: 60 completed hours, declared non-business major, and completion of Common Core.*  
This course examines the nature of conflict and the methods to resolve conflict with an emphasis on collaborative problem solving and mediation. The theory and practice of negotiation are also studied, and students are given the opportunity to practice negotiation and mediation techniques through case study. Ethical decision making throughout these processes is addressed.

**AA 3310  Administering Organizational Change (3-3-0)**  
*Prerequisite: 60 completed hours, declared non-business major, and completion of Common Core.*  
Change is the only constant facing an administrator. The accepted ways of reorganizing change and modifying the organization's position and behavior to gain the most from change is the focus of this course.

**AA 4301  Administering Budgets and Cost Centers (3-3-0)**  
*Prerequisite: AA 3304.*  
This course focuses on aspects of constructing and monitoring budgets, including appropriate actions and their effectiveness. It also includes relevant cost concepts for various types of institutions.

**AA 4303  Economics for Administrators (3-3-0)**  
*Prerequisite: AA 3306.*  
A study of economics and its role in administrative decision-making. The course is focused on individuals and institutions in the global economic environment.

**AA 4305  Project Administration (3-3-0)**  
*Prerequisites: AA 3303, AA 3304, AA 3305, AA 3306. Corequisites: AA 3302 or ENG 3302, AA 3307.*  
The capstone course in applied administration emphasizing the study of risk assessment and administrative techniques, methods, and models used to minimize and control risks in a high technology organizational environment. Comprehensive cases provide the opportunity to study proper interrelationships among project administration, organizational strategy, leadership, decision making, program scheduling, human resources, and cost risks.

**AA 4306  Administration of Technological Resources (3-3-0)**  
*Prerequisite: AA 3303.*  
An examination of the tools and methods used to manage the technological resources of the enterprise.

**AA 4307  Network Security Administration (3-3-0)**  
*Prerequisite: AA 3303.*  
This course provides a strategic overview of network security administration, as it relates to the total organization.
AA 4308  Global Economic Environment (3-3-0)
Prerequisite: AA 3304 and AA 3306.
The study of economic issues and policies generated by globalization. The course is focused on economic theoretical concepts, the
effects of globalization on modern economic and financial issues, and the effects of globalization on industrial and public sector
policies in developed and developing economies.

AA 4380  Field Experience in Applied Administration (3-3-0)
Prerequisite: 60 completed hours, declared non-business major, completion of Common Core, and approval from program director.
For more information and qualification, see Field Experience in the Applied Administration section of this catalog and/or the BAAS-
AA director.

AA 4390  Selected Topics in Applied Administration (3-3-0)
Prerequisite: 60 completed hours, declared non-business major, completion of Common Core, and approval from program director.
Selected topics in applied administration. May be repeated once for credit with program director's approval when topic varies.

AA 4399  Directed Studies in Applied Administration (3-3-0)
Prerequisite: Senior standing; formal approval from program director and dean; cumulative GPA of 3.0 and GPA of 3.3 in applied
administration.
Selected topics in applied administration; intensive individual study under the guidance of a member of the applied administration
faculty.

ACC (Accounting)

ACC 1301  Accounting for Non-Business Majors (3-3-0)
Prerequisite: College-level math.
The course will provide a working knowledge of financial statements, the accounting process and budgeting for non-business majors
desirous of understanding how accounting is used in business operations, as well as to know how accounting and accounting
reports are used by investors and other business stakeholders in their decision making process.

ACC 2301  Financial Accounting (3-3-0)
Prerequisite: MATH 1301.
The purpose of the course is to (1) give students a grasp of accounting terminology, (2) help students learn the process of
gathering, classifying and reporting financial information on financial statements, and (3) provide analytical skills necessary to under-
stand the importance of financial statements in economic decision making. (ACCT 2301)

ACC 2302  Managerial Accounting (3-3-0)
Prerequisite: ACC 2301.
The managerial accounting course is fundamental to the business curriculum. The purpose of the course is to provide an
understanding of the role of accounting information in the business decision-making process. The course is taught from the
perspective of the users of accounting information. The major emphasis is on what the accounting information is, why it is important,
and how it is used by economic decision makers. (ACCT 2302)

ACC 3300  Intermediate Accounting I (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, a grade of C or better in ACC 2301 and ACC 2302, and
completion of or enrollment in BA 3300.
Development of a comprehensive analysis of financial accounting topics involved in preparing, interpreting and using financial
statements that comply with generally accepted accounting principles. Designed to help students understand and apply the
conceptual framework of financial reporting, asset measurement and revenue recognition.

ACC 3301  Intermediate Accounting II (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and a grade of C or better in ACC 3300.
Continuation of Intermediate Accounting I. This course furthers the development of analytical skills necessary for the measuring and
reporting of assets, liabilities and equity. Accounting principles underlying the preparation of financial statements are studied in
depth.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 3302</td>
<td>Intermediate Accounting III (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus 18 additional hours and a grade of C or better in ACC 3301. Continuation of Intermediate Accounting II. This course focuses on understanding and solving some of the more complex topics of financial accounting and their impacts on users. Topics include leases, pensions and corporate income taxes. Additional special topics will be included.</td>
</tr>
<tr>
<td>ACC 3303</td>
<td>Cost Accounting (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus the lower-level business core, a grade of C or better in ACC 2302 and ACC 3300, and junior standing. This course builds on the managerial accounting course. The purpose of the course is to provide a thorough treatment of traditional and contemporary approaches to cost accounting, cost management and cost control.</td>
</tr>
<tr>
<td>ACC 3304</td>
<td>Accounting Information Systems (3-3-0)</td>
<td>Prerequisite: ACC 3300. Study of accounting systems as information and control systems. Primary emphasis on financial information needs, control methods, and efficiency measures.</td>
</tr>
<tr>
<td>ACC 3305</td>
<td>Governmental and Not-for-Profit Accounting (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus 18 additional hours and ACC 2302. Focus on accounting procedures of governmental agencies. Primary emphasis is on fund accounting for governmental agencies. Fund accounting coverage of certain not-for-profit entities is also addressed.</td>
</tr>
<tr>
<td>ACC 3307</td>
<td>Oil and Gas Accounting (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus 18 additional hours and ACC 2302. Accounting systems and procedures generally applicable to the oil and gas industry. The Texas State Board of Public Accountancy does not accept this course as satisfying the accounting course requirements to sit for the Certified Public Accountant exam in Texas. However, the course is accepted as a business course elective and for meeting the 150 hour requirement.</td>
</tr>
<tr>
<td>ACC 3311</td>
<td>Taxation for Non-Business Majors (3-3-0)</td>
<td>Prerequisite: Junior standing and approval by the department chair. This course covers fundamentals of federal taxation including background information necessary to pass the free certification test provided by the US Internal Revenue Service (IRS). After taking this course, students will be able to prepare and file basic income tax returns (1040EZ, 1040A and 1040) for individuals and families with different tax filing statuses, e.g. single, head of household, married filing jointly, married filing separately, and qualifying widow/widower.</td>
</tr>
<tr>
<td>ACC 3323</td>
<td>International Accounting (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus 18 additional hours and ACC 2302. An overview of international financial accounting standards, current problems of international operations and multinational corporations. It also provides comparative analysis of accounting principles and practices outside the United States.</td>
</tr>
<tr>
<td>ACC 3399</td>
<td>Directed Study in Accounting</td>
<td>Prerequisite: Formal approval by department chair and dean. Selected topics in accounting; intensive individual study under the guidance of a member of the accounting faculty.</td>
</tr>
<tr>
<td>ACC 4301</td>
<td>Individual Income Taxation (3-3-0)</td>
<td>Prerequisite: Completion of the common core plus 18 additional hours and ACC 2302. Determination of income and statutory deductions to arrive at net taxable income. In addition, the determination of tax liability and various tax credits are discussed. The Internal Revenue Code, various income tax acts and problems of the preparation of individual income tax returns are studied as they relate to current laws.</td>
</tr>
<tr>
<td>ACC 4302</td>
<td>Corporation Taxation (3-3-0)</td>
<td>Prerequisite: ACC 4301. Study of income tax acts as they relate to corporations and partnerships.</td>
</tr>
</tbody>
</table>
ACC 4303  Advanced Accounting (3-3-0)
Prerequisite: A grade of C or better in ACC 3302.
Business combinations, home office and branches, and partnerships, with concentration on accounting and reporting for purchase acquisitions using the equity method.

ACC 4304  Auditing (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ACC 3301, STAT 3309 or equivalent.
Introduction to auditing as it relates to the accounting profession. Studies emphasize generally accepted auditing standards; the acquisition, evaluation and documentation of audit evidences; professional responsibilities; and auditors’ reports and opinions.

ACC 4306  Ethical Accounting Practices (3-3-0)
Prerequisite: ACC 3301; ACC 3304; & enrollment in, or completion of, BA 3300.
This course is designed to satisfy the ethics requirement of the Texas State Board of Public Accountancy for eligibility to take the CPA exam. Provides the foundation, rationale, methodology and practice in ethical reasoning as these are applied in the accounting profession. Covers core ethical values related to business and accounting practice including issues of integrity, objectivity and independence. Builds upon the six-week ethics component in BA 3300.

ACC 4307  Accounting Analysis for Decision Making (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ACC 3303, and STAT 3309 or equivalent.
The purpose of this course is to provide a contemporary conceptual framework for the study of analytical techniques for supporting tactical and strategic business decisions.

ACC 4309  Computer Control and Audit (3-3-0)
Crosslisted as MIS 4309. Credit may not be earned for both. Prerequisite: Completion of the common core plus 18 additional hours, ACC 2302 and MIS 3302, or departmental approval.
Introduction to the fundamentals of auditing computer-based information systems. Emphasis for this course is on the concepts and techniques used in automated information systems audits. Exposure to risk assessment, business impact analysis, and disaster recovery analysis is provided as these topics relate to the varying requirements of business entities and of the business community.

ACC 4310  Forensic Accounting (3-3-0)
Prerequisite: ACC 3300.
Introduction to the practice of forensic accounting and its relationship to information technology auditing. Emphasizes fraud examination as applied to accounting information systems as well as legal resolution to fraudulent acts.

ACC 4321  Financial Reporting Theory (3-3-0)
Prerequisite: Completion of the Intermediate Accounting course sequence with grades of C or higher.

ACC 4322  Estate, Gifts and Trust Taxation (3-3-0)
Prerequisite: ACC 4301.
Statutory and case law approach to federal taxation of estates, gifts and trusts. Emphasizes use of Internal Revenue Code and regulations and includes tax planning and research.

ACC 4325  Tax Research Methodology (3-3-0)
Prerequisite: ACC 4301.
This course focuses on fundamentals of federal tax research. The emphasis will be on methodology and sources of tax research, tax analysis and use of the computer in tax practice/research.

ACC 4380  Field Experience in Accounting
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

ACC 4390  Special Topics in Accounting (3-3-0)
Prerequisite: Junior standing.
Topics of special or current interest in the area of accounting taught by faculty or visiting lecturers who possess a special area of
AFSC (Air Force Science)

AFSC 1201  Foundations of the USAF I (2-1-1)
Overall roles and missions of the USAF; career fields available. Emphasis on military customs and courtesies, appearance standards, core values, written and personal communication. Introduction to American military history.

AFSC 1202  Foundations of the USAF II (2-1-1)
Overall roles and missions of the USAF; career fields available. Emphasis on military customs and courtesies, appearance standards, core values, written and personal communication. Introduction to American military history.

AFSC 2201  Evolution of Air Power I (2-1-1)
Key historical events and milestones in the development of air power as a primary instrument of United States national security. Core values and competencies of leaders in the United States Air Force. Tenets of leadership and ethics.

AFSC 2202  Evolution of Air Power II (2-1-1)
Key historical events and milestones in the development of air power as a primary instrument of United States national security. Core values and competencies of leaders in the United States Air Force. Tenets of leadership and ethics.

AFSC 3301  Air Force Leadership Studies I (3-3-1)
Leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, and leadership ethics. Case studies of Air Force leadership and management situations.

AFSC 3302  Air Force Leadership Studies II (3-3-1)
Leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, and leadership ethics. Case studies of Air Force leadership and management situations.

AFSC 3801  Field Training
Prerequisite: AFSC 2202 or consent of department chair.
No military obligation is associated with this course. Four week off-campus field training practicum. Introduces student to Air Force leadership. Places student in demanding and stressful leadership situations.

AFSC 4301  National Security Affairs I (3-3-1)
Evolution of the role of national security in a democratic society with emphasis on policy formation, competing values, and organizations. Civilian control of the military; roles of the services; functions of the Air Force Commands.

AFSC 4302  National Security Affairs II (3-3-1)
Evolution of the role of national security in a democratic society with emphasis on policy formation, competing values, and organizations. Civilian control of the military; roles of the services; functions of the Air Force Commands.

ANTH (Anthropology)

ANTH 2301  Physical Anthropology (3-3-0)
Prerequisite: Completed or enrolled in ENG 1301 or 010 core complete.
Humans as physical beings, through the study of evolution, ancestry, prehistory and genetics. (ANTH 2301)

ANTH 2302  Cultural Anthropology (3-3-0)
Prerequisite: Completed or enrolled in ENG 1301 or 010 core complete.
Drawing on scientific and humanistic methods, this course looks at humanity’s cultural heritage with a broad comparative global perspective. In this course students will learn about humans as cultural beings. They also explore other cultures and read about
ethnicity, marriage, kinship, religion, gender, economy, art, social stratification, and politics in simple non-western societies and compare them with those of complex advanced western societies. Throughout the course, students will be exposed to the nature of fieldwork and anthropological theory from its 19th century origins to the present.

**ANTH 3313 Health, Medicine, and Culture (3-3-0)**
*Prerequisite: ANTH 2301, ANTH 2302 or permission of the instructor.*
This course will examine the anthropology of health including the concepts of illness, medicine, aging, and the role of the healer from a cross-cultural perspective. Topics will primarily focus on the interaction of culture and biology in relation to causes of disease, treatment of disease, and the attitudes of the population.

**ANTH 4390 Special Topics in Anthropology (3-3-0)**
*Prerequisite: 3 hours in anthropology or permission of the instructor.*
Selected topics in anthropology. Topics may vary from semester to semester and may be repeated for credit.

---

**ARAB (Arabic)**

**ARAB 1401 Elementary Arabic I (4-3-1)**
*Laboratory fee required: $10.*
Instruction in understanding, speaking, reading, and writing Arabic. Should not be taken by native speakers of Arabic nor by students with two or more years of academic instruction in Arabic. Provides freshman foreign language credit.

**ARAB 1402 Elementary Arabic II (4-3-1)**
*Prerequisite: ARAB 1401 Laboratory fee required: $10.*
This course is a continuation of ARAB 1401 Elementary Arabic I.

---

**ART (Art)**

**ART 1301 History of Art: Paleolithic to the Middle Ages (3-3-0)**
*Laboratory fee required: $10.*
An introduction to monuments of art from prehistoric times to c. 1400 AD. The course analyzes the variety of contexts and circumstances under which works of art were created, and explores the similarities and differences between artistic periods. This course satisfies the Fine Arts component of the Texas Core Curriculum. (ARTS 1303)

**ART 1302 History of Art: Renaissance to Present (3-3-0)**
*Laboratory fee required: $10.*
An introduction to monuments of art from the Renaissance to contemporary times. The course analyzes the variety of contexts and circumstances under which works of art were created, and explores the similarities and differences between artistic periods. This course satisfies the Creative Arts component of the Texas Core Curriculum. (ARTS 1304)

**ART 1303 Design and Materials (3-3-3)**
*Laboratory fee required: $25.*
Analysis of fundamental principles and elements in two-and three-dimensional design. Work with various materials and colors in relation to space and movement. (ARTS 1311)

**ART 1304 Design Color and Structure (3-3-3)**
*Prerequisite: ART 1303 or equivalent.*
*Laboratory fee required: $25.*
A continuation of the study of fundamental principles and elements in two- and three-dimensional design. (ARTS 1312)

**ART 1305 Drawing I (3-3-3)**
*Laboratory fee required: $25.*
Representation drawing with consideration of perspective, light and shade; use of charcoal, pencil, conte, pen and wash. (ARTS 1316)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1306</td>
<td>Drawing II (3-3-3)</td>
<td></td>
<td>Prerequisite: ART 1305 or equivalent. Laboratory fee required: $25. A continuation of representation drawing, with a consideration of perspective, light and shade; practice using charcoal, pencil, conte, pen and wash. (ARTS 1317)</td>
</tr>
<tr>
<td>ART 1307</td>
<td>Computer Graphic Design (3-3-3)</td>
<td></td>
<td>Introduction to the basic operational skills of the computer and the development of creative techniques in two-dimensional design.</td>
</tr>
<tr>
<td>ART 1308</td>
<td>Art History: Introduction to World Art (3-3-0)</td>
<td></td>
<td>Introduction to World Art is a survey of selected historical Asian, African, Islamic, North, South and Mesoamerican monuments of art and architecture. This course provides a framework for understanding and analyzing the art and architecture created by cultures outside of traditional West European models, and examines objects and monuments within their cultural religious, social, economic, and/or political contexts.</td>
</tr>
<tr>
<td>ART 1310</td>
<td>Introduction to Visual Arts (3-3-0)</td>
<td></td>
<td>An introduction to the visual arts. The visual elements of artworks are defined and students are introduced to the vocabulary, principles and techniques of art in different periods and cultural settings. Includes individual art projects and tours. This course satisfies the Fine Arts component of the Texas Core Curriculum. (ARTS 1301)</td>
</tr>
<tr>
<td>ART 1311</td>
<td>Introduction to Digital Photography (3-3-3)</td>
<td></td>
<td>Introduction to Digital Photography trains students to use a digital camera and industry standard digital editing software equipment. Students of photography are introduced to the aesthetics of composition, ways of understanding content, and the history of photography. Students learn photographic techniques and camera fundamentals using digital cameras, uses of scanning and the internet in photography, and post-photograph production using digital imaging software.</td>
</tr>
<tr>
<td>ART 2301</td>
<td>Figure Drawing I (3-3-3)</td>
<td></td>
<td>Laboratory fee required: $25. Introduces students to figure drawing and develops skill in perceiving the human figure as form and volume in live models and mannequins. Various media and techniques are used.</td>
</tr>
<tr>
<td>ART 2303</td>
<td>Painting I (3-3-3)</td>
<td></td>
<td>Laboratory fee required: $25. Application of methods and techniques of still-life painting, correlation of media and approaches to mixed media. (ARTS 2316)</td>
</tr>
<tr>
<td>ART 2304</td>
<td>Painting II (3-3-3)</td>
<td></td>
<td>Prerequisite: ART 2303 or equivalent. Laboratory fee required: $25. Continuation of ART 2303. (ARTS 2317)</td>
</tr>
<tr>
<td>ART 2305</td>
<td>Film Appreciation (3-3-0)</td>
<td></td>
<td>Crosslisted as COMM 2305. Credit may not be earned for both. Prerequisite: ENG 1302. Laboratory fee required: $10. An overview of film as a communication and esthetic medium. Films are studied for their artistic and cultural significance, and for the communication strategies they use. Topics include film genres, sound and graphics, imagery, symbolism, cultural contexts for film, and film criticism.</td>
</tr>
<tr>
<td>ART 2306</td>
<td>Watercolor Painting I (3-0-6)</td>
<td></td>
<td>Laboratory fee required: $25. This course will explore the basic techniques and materials used in watercolor painting. Emphasis on transparent application, flat brush, graded wash, dry brush, wet on wet techniques and paper preparations.</td>
</tr>
<tr>
<td>ART 2307</td>
<td>Watercolor Painting II (3-0-6)</td>
<td></td>
<td>Prerequisite: ART 2306. Laboratory fee required: $25. This course will explore the advanced techniques and materials used in watercolor painting. Emphasis on transparent application, flat brush, graded wash, dry brush, wet on wet techniques and paper preparations.</td>
</tr>
</tbody>
</table>
ART 2308  Figure Drawing II (3-3-3-6)
Prerequisite: ART 2301  Laboratory fee required: $25.
Figure Drawing II is an extension of the basic concepts and techniques begun in ART 2301 Figure Drawing. Figure Drawing II expects the student to have a basic ability to render the figure proportionately and a basic understanding of drawing materials (charcoal and pencil) and their use in creating values that mimic three dimensional shapes. Figure Drawing II will further the student’s repertoire of materials to include ink and ink wash, drawing on toned paper with white and black pigments, and may include an introduction to color. The course is centered on direct observation of live models during class time.

ART 3301  Major Developments in the History of Art (3-3-0)
Crosslisted as HUM 3312.  Credit may not be earned for both.
A study of important historical events in the development of the theory and practice of the visual arts. May be repeated for credit when topic changes.

ART 3302  History of Modern Art (3-3-0)
Crosslisted as HUM 3324.  Credit may not be earned for both. Prerequisite: ENG 1301 and 3 hours of art history or art appreciation.
A survey of world art from the Revolutionary Period (late 18th century) to contemporary times, including such artistic movements as Neoclassicism, Romanticism, Impressionism, Cubism, Surrealism and Pop Art.

ART 3303  History of Renaissance Art (3-3-0)
Crosslisted as HUM 3308.  Credit may not be earned for both. Prerequisite: ART 1301 or ART 1302.
For students who have completed ART 1301 or ART 1302 and who wish to continue learning about the European Renaissance and how artistic invention shaped Renaissance society. Objects of study will emphasize the pictorial arts (painting, manuscript illumination, the graphic arts) with additional examples drawn from architecture, sculpture, and luxury items.

ART 3304  Contemporary Art (3-3-0)
Crosslisted as HUM 3328.  Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation
This course is a survey of artworks from around the world produced since 1945. Painting and sculpture and their variations will be the primary focus, but a full range of visual culture will also be considered.

ART 3305  Advanced Computer Graphics (3-3-3)
Prerequisite: ART 1303 or permission of instructor Laboratory fee required: $10.
Students learn about the extensive scope of computer graphics by applying basic principles in art and design. Students will develop skills in symmetry and pattern, as they solve fundamental design problems and create images with drawing software.

ART 3306  Art and Religion - Origins (3-3-0)
Crosslisted as HUM 3305, RELS 3306.  Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Survey of the religious arts and architecture of the ancient world and their underlying beliefs and practices. Examines the early art and architecture of the world religions. All works are presented in historical sequence, concluding with the period known in the West as the Renaissance.

ART 3307  Art and Religion - Developments (3-3-0)
Crosslisted as HUM 3307, RELS 3307.  Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Survey of the religious arts and architecture of the developing modern world from the 17th century to the present. The main focus is on religious art in Buddhism, Christianity and Islam, but the course also examines the impact of these religions on modern secular and religious movements.

ART 3309  Baroque Art (3-3-0)
Crosslisted as HUM 3329.  Credit may not be earned for both. Prerequisite: Credit in ENG 1301 and 3 hours of art history or art appreciation (ART 1301, 1302, or 1310).
This course surveys the art of Western Europe during the seventeenth century with emphasis on Italy, Spain and the Netherlands. The impact of political, religious and cultural changes on creative production is examined.

ART 3311  Survey of Asian Art (3-3-0)
Crosslisted as HUM 3311.  Credit may not be earned for both. Prerequisite: ART 1301, ART 1302, or ART 1310.
For students who have completed ART 1301 or ART 1302 and wish to continue learning about Asian art. Survey of arts produced by
Asian nations in relation to their beliefs and ideas that affected their production. Introduction to philosophical and religious beliefs upon which art objects were based and which are fundamental to their understanding.

ART 3315  Film Analysis (3-3-0)
Crosslisted as COMM 3317. Credit may not be earned for both. Prerequisite: ART 2305 or COMM 2305.
This course applies the history and terminology from ART/COMM 2305 (Art Appreciation) to the analysis and critique of films representative of various movements and genres.

ART 3322  History of North American Art (3-3-0)
Crosslisted as HUM 3322. Credit may not be earned for both. Prerequisite: ART 1301, 1302, or 1310.
This course surveys the art of North America from colonial times to the present day with an emphasis on the art of the United States. Traditional architecture, sculpture, and painting will be the focus of the class, but decorative art, folk art and other types of art objects will also be studied. Students will learn about the major monuments of North American art history as well as the names of notable North American artists, and will interpret art works within the context in which they were produced.

ART 3325  Arts Administration (3-3-0)
Crosslisted as DRA 3325, HUM 3325, MUS 3325. Credit may not be earned for more than once.
Prerequisite: Junior standing, completion of the creative arts band in the common core, or departmental approval.
An examination of the principles of arts administration stressing general concepts relating to marketing, fundraising, audience development, financial management, and the overall environment of arts management in profit and non-profit organizations such as theaters, art galleries, music organizations, dance companies, and museums.

ART 3327  Arts Marketing (3-3-0)
Crosslisted as DRA 3327, HUM 3332, MUS 3327.
Prerequisite: Junior standing and ENG 1302.
This course is an overview of fundamental marketing concepts and strategies relevant to promoting artists, such as painters, actors, dancers, designers, or musicians, as well as fine arts events, and creative products. Topics include market research, audience development, traditional advertising, digital campaigns, public relations, branding, strategic partnerships, and grassroots initiatives. Using real-world examples and current trends, students develop foundational knowledge of the theory and practice of fine arts marketing.

ART 3335  Ancient Near Eastern Art & Archaeology (3-3-0)
Crosslisted as HUM 3335. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Ancient Near Eastern Art & Archaeology is the study of the material culture of the Ancient Near East (primarily Mesopotamia, Egypt, and Persia), ranging from its art and architecture to its potsherds and stratified soils. The course will cover sculpture, architecture, vase-painting, sanctuaries, cities, and the countryside in combination with the debates that surround the interpretation of these remains.

ART 3336  Greek Art & Archaeology (3-3-0)
Crosslisted as HUM 3336. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
This course is the study of the material culture of ancient Greece, ranging from its art and architecture to its potsherds and stratified soils. The course will cover sculpture, architecture, vase-painting, sanctuaries, cities, and the countryside in combination with the debates that surround the interpretation of these remains.

ART 4390  Special Topics in Studio Art (3-0-6)
Prerequisite: An art course at the 2000-level and junior standing. Laboratory fee required: $25.
Explores a range of studio media from printmaking to advanced painting. Topics in relief printing include woodcut, linocut, monoprint and collograph. Topics in painting include traditional and nontraditional methods of medium and structural investigations. Emphasis on technique and creativity to expand students’ imagery and visual vocabulary. May be repeated for credit when the topic varies.

AS (American Studies)

AS 1301  The American Experience (3-3-0)
A broad introduction to the social and intellectual currents which define American culture of the 20th century. The course will foster the development of critical and analytical skills appropriate to the study of culture.
BA 3300  Business Cornerstone (3-3-0)
Prerequisite: Sophomore standing.
This course is an introductory course for all business majors. The topics include critical thinking, team development, diversity, business ethics and career development. The critical thinking component introduces the concepts and techniques of critical thinking. The team development component focuses on the importance and role of teams in business, and the role of diversity in business settings. The ethics component introduces the basic ethical concepts, principles, and techniques of moral reasoning needed in business. The career development component focuses on strategies and decision-making skills for moving oneself toward implementation of career goals.

BA 3301  Legal Environment of Business (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, and completion of, or enrollment in, BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
An introduction to business law, with special emphasis on the legal and ethical environment of business, both domestic and international. Topics include a description of the American legal system, crimes, torts, contracts, agency and legal liability, business organizations, and governmental regulations.

BA 3302  Commercial Law (3-3-0)
Prerequisite: BA 3301 and completion of, or enrollment in, BA 3300.
A continuation of BA 3301, including laws governing sales, credit transactions, bankruptcy, negotiable instruments, corporations, partnerships and property. The emphasis of this course is commercial law and business.

BA 3303  Global Environmental Issues in Business (3-3-0)
Prerequisite: BA 3301 or instructor approval and completion of, or enrollment in, BA 3300.
Contemporary domestic and international environmental issues with emphasis on the legal framework within which these issues are addressed to provide an understanding of the associated business risks relating to these issues. Applicable federal and state regulations, their enforcement and effects on business will be covered. Consequences of noncompliance such as civil and criminal prosecution and tort liability will also be studied.

BA 3304  International Business and Law (3-3-0)
Prerequisite: BA 3301 or instructor approval and completion of, or enrollment in, BA 3300.
An introduction to diverse legal influences which affect international business transactions. Topics include: international law and organizations, bilateral and multilateral trade agreements, governmental policies, competition, property rights, contracts relating to import/ export, and dispute resolution.

BA 3305  Entrepreneurship (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours.
This course teaches students what will be involved in launching and operating a new venture. Using a combination of experiential exercises and case studies, students develop a hands-on understanding of the difficulties associated with launching new ventures.

BA 3306  Intrapreneurship (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours. Both entrepreneurial and traditional business organizations seek employees with initiative and an innovative approach. Emphasis on understanding the perspective of the chief executive officer and supporting his/her objectives efficiently. This course is designed to add knowledge and promote one’s advancement within a business organization by being a more useful and productive employee.

BA 3308  Business Ethics (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and completion of, or enrollment in, BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
This course is an introduction to ethical decision making in business. Individual, organizational, and macro level issues in business ethics are examined. The course is designed to assist students in making more informed ethical decisions on a daily basis. Both descriptive and normative models of unethical and ethical decision making in business are analyzed. Core ethical values including integrity, objectivity, independence, due care as well as honesty and responsibility are discussed. Dilemmas and real-life situations
provide an opportunity for students to apply concepts when resolving ethical issues. Critical thinking and informed decision making are emphasized.

**BA 3309  Real Estate Law (3-3-0)**  
*Prerequisite: Completion of the common core plus 18 additional hours and completion of, or enrollment in, BA 3300.*  
A study of the application of the law in real estate interests, conveyance of title, contracts of sale, title searches, types of ownership, liens and mortgages, insurance, leases and taxation of property owners.

**BA 3315  Employment and Labor Law (3-3-0)**  
*Prerequisite: BA 3301 and completion of, or enrollment in, BA 3300.*  
This course examines the expanding body of state and federal law, as well as government regulations, affecting the modern employment relationship, with an emphasis on regulatory compliance. Examples of topics covered in this course include: equal employment opportunity, employee selection and testing, compensation, discipline, benefits, termination/wrongful discharge, and labor relations law. A primary focus of the course will be to prepare future managers to function effectively in increasingly complex areas of employment law by analyzing both cases and statutes.

**BA 3320  International Business (3-3-0)**  
*Prerequisite: Completion of the common core plus 18 additional hours or instructor approval and completion of, or enrollment in, BA 3300.*  
Broad approach to the basic principles of business globalization. Emphasis is placed on the business enterprise as it conducts its commercial activity in environments that are different in their economic, political, legal, social and cultural aspects from the firm’s corresponding domestic environment.

**BA 3340  Entrepreneurial Revenue (3-3-0)**  
*Prerequisite: BA 3305 or MGT 4303.*  
Teaches students about the dynamics of marketing entrepreneurial products and services. Students will learn the effects of pricing and marketing strategies on the growing enterprise.

**BA 3341  Entrepreneurial Costs and Budgeting (3-3-0)**  
*Prerequisite: BA 3305 or MGT 4303.*  
Teaches students how to manage the costs of bringing new products and services to market. Provides students with knowledge, tools, and insights to help understand and control the obvious costs associated with new ventures as well as the hidden costs that can eat away at a venture’s profits.

**BA 3342  Entrepreneurial Capitalization and Funding (3-3-0)**  
*Prerequisite: BA 3305 or MGT 4303.*  
Capital is the lifeblood of all new ventures. This course introduces students to the many sources of capital available to new ventures and provides them with insights on how to gain access to capital.

**BA 3350  Business Communication (3-3-0)**  
*Prerequisite: Completion or concurrent enrollment in BA 3300, completion of common core plus 18 additional hours, and a declared business major.*  
Development of interpersonal business communication skills including issues affecting the communication process as it relates to organizational environments. Topics include written communication (business reports and collaborative writing), oral communication (business presentations, meetings, and interviews), listening, group communication, electronic communication technology, and international communication (how cultural mores and traditions impact communication in the international environment).

**BA 3399  Directed Study in Business Administration (3-3-0)**  
*Prerequisite: Approval from department chair and dean.*  
Selected topics in business administration; intensive individual study under the guidance of a member of the business faculty.

**BA 4099  Business Core Preparation Modules (0-0-0)**  
*Prerequisite: Senior standing - Graduating during the current semester and co-enrolled in BA 4302.*  
A collection of business modules that provides a comprehensive review of the business core - Accounting, Finance, Management, Marketing, Economics and Business Law. It prepares students for Business Strategy (BA 4302) and the business exit examination.
BA 4302  Business Strategy (3-3-0)
Prerequisite: BA 3300 and must be a declared business major and have completed all required general education and business core courses.
The capstone course in business emphasizing planning and decision-making, formulating strategies and implementing plans for action. Comprehensive cases provide the opportunity to study proper interrelationships among production, operations, finance, accounting, marketing and the many other functions involved in managing a business enterprise.

BA 4305  Business Plan (3-3-0)
Prerequisite: BA 3305 or MGT 4303; BA 3340, BA 3341, BA 3342.
The business plan is the road map for new ventures. It outlines the goals and objectives of the enterprise and describes how they will be achieved. It helps keep the venture on the path of growth and profitability, and provides a mechanism for communicating the firm's achievements and goals with external parties, including potential investors.

BA 4307  Ethical Decision Making (3-3-0)
Prerequisite: Completion of the common core.
This course is for all majors and will address the complex environment of ethical decision making in organizations. This course will enhance the awareness and decision-making skills needed to contribute to responsible business conduct. This course will also address ethics and sustainability, the loopholes and gray areas.

BA 4379  Implementing the Business Plan (3-3-0)
Prerequisite: BA 3305 or MGT 4303; BA 3340, BA 3341, BA 3342.
This course teaches students what will be involved in launching and operating a new venture. Using a combination of experiential exercises and case studies, students will develop a "hands on" understanding of the difficulties associated with launching new ventures.

BA 4380  Field Experience in Business Administration
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

BA 4390  Special Topics in Business (3-3-0)
Prerequisite: Approval of instructor or department chair.
Intensive study of one or more major topics in business. May be repeated for credit with departmental approval when topics vary.

BED (Bilingual Education)

BED 3307  Academic Proficiencies for the Bilingual Classroom Teacher (3-3-0)
Prerequisite: SPAN 2312 or placement by examination.
Prepares the bilingual educator to derive essential information, interpret meaning, evaluate oral and written communication and to construct effective interpersonal and presentational oral and written discourse for the bilingual classroom.

BED 3311  Foundations of Bilingual and ESL Education (3-3-0)
Prerequisite: Declared urban education major and core complete.
This course examines the language concepts and language acquisition foundations of Bilingual and ESL education, including the theory, research, practice, advocacy, and policy issues related to teaching English language learners. Also, the course addresses sociocultural factors in the Bilingual and ESL classrooms related to cultural awareness and family and community involvement.

BED 4301  Teaching Language Arts and Reading in Spanish (3-3-0)
Prerequisite: Prerequisites: Successful completion of BED 3311, PED 3305, PED 4380, and READ 4306.
Field-based course that applies language arts and reading techniques in Spanish through interaction with urban students and teachers in a bilingual classroom.

BED 4302  Teaching Language Arts and Reading in Spanish (3-3-0)
Prerequisite: Completion of Interdisciplinary Block I, admission to Interdisciplinary Block II, and concurrent enrollment in Interdisciplinary Block II.
Applies language arts and reading techniques in Spanish through interaction with urban students and teachers in a bilingual classroom.
BED 4311 Integrating Curriculum in a Bilingual/ESL Classroom (3-3-0)
Prerequisite: Prerequisites: Successful completion of BED 3311, PED 3305, PED 4380, and READ 4306.
Pre- or Corequisites: NS 3310 and NS 3312. Concurrent enrollment in BED 4301, READ 3317, and PED 4381.
Field-based course that addresses bilingual/ESL methods and techniques for integration of various school subjects.

BED 4312 Integrating Curriculum in a Bilingual/ESL Classroom (3-3-0)
Prerequisite: Department approval.
Addresses bilingual/ESL methods and techniques for integration of various school subjects.

<table>
<thead>
<tr>
<th>BIOL (Biology)</th>
</tr>
</thead>
</table>
| **BIOL 1101** General Biology Laboratory I (1-0-3)  
Prerequisite: Credit or enrollment in BIOL 1301.  
Appropriate exercises and experiments requiring scientific observation and analysis that illustrate some of the basic techniques, concepts and facts presented in BIOL 1301. (BIOL 1106) |
| **BIOL 1102** General Biology Laboratory II (1-0-3)  
Prerequisite: BIOL 1101 and credit or enrollment in BIOL 1302.  
Appropriate exercises and experiments requiring scientific observation and analysis that illustrate some of the basic techniques, concepts and facts presented in BIOL 1302. (BIOL 1107) |
| **BIOL 1103** Human Anatomy and Physiology Laboratory I (1-0-3)  
Prerequisite: Credit or enrollment in BIOL 1303.  
Laboratory course emphasizing some of the techniques and principles presented in BIOL 1303. Animal dissection required. (BIOL 2101) |
| **BIOL 1104** Human Anatomy and Physiology Laboratory II (1-0-3)  
Prerequisite: BIOL 1103 and credit or enrollment in BIOL 1304.  
A continuation of BIOL 1103. (BIOL 2102) |
| **BIOL 1301** General Biology I (3-3-0)  
Prerequisite: Credit or enrollment in BIOL 1101, ENG 1301(or 010 core complete) and MATH 1301.  
A survey of current biological concepts for students majoring in the sciences. Emphasis will be placed on biological molecules, cellular metabolism, cell division, heredity and the regulation of genes. |
| **BIOL 1302** General Biology II (3-3-0)  
Prerequisite: BIOL 1101, BIOL 1301 and enrollment in BIOL 1102.  
A survey of current biological concepts for students majoring in the sciences. Emphasis will be placed on topics which include evolution, biological diversity, ecology, and comparative structure and function of organ systems. |
| **BIOL 1303** Human Anatomy and Physiology I (3-3-0)  
Prerequisite: Credit or enrollment in BIOL 1103.  
A survey of Human Anatomy and Physiology required for students going to nursing or similar professional programs. Emphasis will be placed on cells and tissues of the human body and its skeletal, muscular, integumentary, nervous and sensory systems. |
| **BIOL 1304** Human Anatomy and Physiology II (3-3-0)  
Prerequisite: Credit for BIOL 1303/1103 and enrollment in BIOL 1104.  
A continuation in the survey of Human Anatomy and Physiology required for students going to nursing or similar professional programs. Emphasis will be placed on endocrine, circulatory, respiratory, digestive, excretory and reproductive systems. |
| **BIOL 1310** Human Biology (3-2-2)  
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.  
An integrated lecture/laboratory course for non-science majors. This course will include the scientific method and the relationship between science and technology. Major themes will include cells, organization of the human body and functions of organ systems. |
Issues related to human biology (i.e. genetic engineering, human reproduction) will also be discussed. Laboratory activities will be investigative in nature and relate to lecture topics.

**BIOL 1312  Ecology and Environmental Biology (3-2-2)**
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
An integrated lecture/laboratory course for non-science majors. Major themes will include adaptation to the environmental conditions and change, evolution, the diversity of life forms, how humans interact with and affect other organisms, overpopulation and human alteration of the physical environment. Laboratory activities will be investigative in nature and relate to lecture topics.

**BIOL 2190-2490  Special Topics in Biology**
Prerequisite: Varies according to topic.
Selected topics in lower-level biology according to the needs and interests of the students.

**BIOL 2306  Fundamentals of Nutrition (3-2-2)**
Prerequisite: Concurrent enrollment or credit in BIOL 1303 or CHEM 1305.
Food, nutrients, and their digestion, absorption and metabolism in humans are studied. Regional and cultural diet patterns are discussed. Nutritional assessment procedures are performed. (BIOL 1322)

**BIOL 3102  General Ecology Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3302.
Explore theoretical concepts and practical applications in ecology. Population dynamics will be investigated using computer simulations. Field sampling of local plant and animal populations will expose students to practical techniques of data collection and analysis.

**BIOL 3103  General Genetics Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3303.
Laboratory topics designed to mimic classical genetic investigations. Experiments focus on the use of Drosophila melanogaster. Students conduct individual and group research projects.

**BIOL 3104  Vertebrate Embryology Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3304.
Appropriate exercises and experiments that illustrate some of the basic concepts, experimental techniques and facts presented in BIOL 3304.

**BIOL 3105  Human Anatomy Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3305.
Appropriate exercises and activities that illustrate the techniques, concepts, and facts presented in BIOL 3305.

**BIOL 3110  Plant Identification Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3310.
Emphasizes plant identification and naming of plants from selected families of plants. A collection of local native plants will be required with appropriate scientific naming including family, genus, and species.

**BIOL 3120  Human Physiology Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3320.
Appropriate exercises and experiments that illustrate techniques, facts, and concepts presented in BIOL 3320.

**BIOL 3130  Plant Biology Laboratory (1-0-3)**
Prerequisite: Credit or enrollment in BIOL 3330.
Laboratory investigations and experimental analysis regarding the biology of plants, including plant taxonomy, morphology, anatomy, reproductive biology, nutrient requirements, photobiology, hormonal regulation, ecology, plant tissue culture and applications.

**BIOL 3140  Biology of Fungi Laboratory (1-0-3)**
Crosslisted as MBIO 3150. Credit may not be earned for both. Prerequisite: Credit or enrollment in BIOL 3340.
A study of the principles and applications of techniques for isolation, culture, and identification of fungi; and a study of the characteristics of fungal growth, nutrition, metabolism and genetics.
BIOL 3150 Ornithology Laboratory (1-0-3)
Prerequisite: Credit or enrollment in BIOL 3350.
Field and museum laboratories will emphasize aspects of morphology, ecology and behavior, as well as taxonomy and identification of local bird species. Weekend field trips will be required.

BIOL 3190-3490 Special Topics in Biology
Prerequisite: Varies according to topic.
Selected topics in junior-level biology according to the needs and interests of the students.

BIOL 3300 Undergraduate Research (3-0-0)
Prerequisite: Approval by the Natural Sciences Department, minimum GPA of 2.0, and permission of instructor.
Independent investigation of a specific topic or problem in biology research under the direction of a selected faculty member.

BIOL 3302 General Ecology (3-3-0)
Prerequisite: BIOL 1302/1102, MATH 1404 or 1505 and enrollment or credit in BIOL 3102
Introduction to the major theories in ecology with particular emphasis on mathematical investigations of population dynamics, community ecology, and evolutionary ecology. Movement of energy and nutrients through ecosystems will also be covered

BIOL 3303 General Genetics (3-3-0)
Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and enrollment or credit in BIOL 3103.
Fundamental principles of genetics including Mendelian inheritance, linkage, the chemical basis of genetics, mutations and chromosomal aberrations.

BIOL 3304 Vertebrate Embryology (3-3-0)
Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and enrollment or credit in BIOL 3104.
A study of the development of the vertebrate body from fertilization to birth or hatching, with emphasis on the frog, chicken, pig and human.

BIOL 3305 Human Anatomy (3-3-0)
Prerequisite: 8 hours of biology, CHEM 1308/1108, and enrollment in BIOL 3105.
A study of the structure of the human body using a systems approach. System and structural interactions will be examined. Structural and functional relationships will also be assessed.

BIOL 3306 Biological Evolution (3-3-0)
Prerequisite: General Genetics, BIOL 3303
Evolution is the central organizing paradigm in biology; aspects of biology can be understood without recourse to evolutionary theory but a deep understanding of biology and the diversity of life is impossible without it. This course seeks to establish a basic, solid understanding in what biological evolution is and its causes allowing the student to speak intelligently about evolution to others. Evidence of evolution, mechanisms for evolutionary change, adaptations, speciation, and phylogenetics are emphasized.

BIOL 3307 Introduction to Neuroscience (3-3-0)
Prerequisite: BIOL 1302/1102; CHEM 1308/1108
Introduction to Neuroscience is a lecture-based course designed to give an overview of the nervous system; including molecules, cells, development, circuits, and behaviors. These topics will be presented with respect to relevant biomedical research techniques and human pathologies/behaviors.

BIOL 3308 Cancer Biology (3-3-0)
Prerequisite: BIOL 1302/1102; CHEM 1308/1108.BIOL 3303/3103 & BIOL 4320 strongly recommended.
A study of the molecular and cellular mechanisms of cancer including cell cycle regulation, genomic instability, cellular structural and metabolic changes, aberrant cell signaling and the cancer stem cell hypothesis. Drug development, drug resistance, and ethical considerations in cancer research and treatment will be discussed.

BIOL 3310 Plant Identification (3-3-0)
Prerequisite: BIOL 1302/1102 and credit or enrollment in BIOL 3110.
A study of the principles of naming, identification and classification of plants with an emphasis on the characteristics of select families of flowering plants.
BIOL 3320  Human Physiology (3-3-0)
Prerequisite: 8 hours of biology, CHEM 1308/1108 and credit or enrollment in BIOL 3120.
A study of the function of the human body using a systems approach. Course will focus on the interaction of body systems and the maintenance of homeostasis. Some study of major disease processes associated with each system will be included.

BIOL 3330  Plant Biology (3-3-0)
Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and credit or enrollment in BIOL 3130.
Comprehensive analysis regarding the biology of plants, including plant taxonomy, morphology, anatomy, physiology, reproduction, development, ecology, ethnobotany and biotechnology.

BIOL 3340  Biology of Fungi (3-3-0)
Crosslisted as MBIO 3350. Credit may not be earned for both. Prerequisite: BIOL 1302/1102, CHEM 1308/1108 or credit or enrollment in BIOL 3140.
A comprehensive study of fungi with emphasis on the Kingdom Fungi, but consideration of various other organisms with a fungal lifestyle. Topics include classification, phylogeny and diversity, asexual and sexual characteristics and life cycles, growth, sporulation, nutrition, physiology and metabolism, genetics, ecology, symbiotic and pathogenic relationships, medical mycology, and biotechnology.

BIOL 3350  Ornithology (3-3-0)
Prerequisite: BIOL 1302/1102 and credit or concurrent enrollment in BIOL 3150.
The biology of birds, including evolutionary history, functional morphology, physiology, ecology, and behavior. The course will explore the adaptations characteristic of the different orders of birds with particular emphasis on the local avian community.

BIOL 3430  Coastal Studies (4-3-3)
Crosslisted with GEOL 3430.
Prerequisite: CHEM 1308/1108 and BIOL 1302/1102 or GEOL 1306/1106.
The aim of this course is to provide students with a fluency in the areas of coastal biology, chemistry, and geology. Students will receive instruction in a variety of field and laboratory techniques in environmental biology, biogeochemistry and sedimentary geology, as well as experimental design and statistical analyses. Students will be required to engage in their own independent research projects and to present their findings to the class. This is a combined lecture/lab course which will integrate lecture topics with lab and field experiences.

BIOL 3399  Directed Study in Biology (3-3-0)
Prerequisite: Approval of the department chair and dean, junior standing, minimum GPA of 3.0.
Intensive in-depth study of various topics under the guidance of a member of the biology faculty.

BIOL 4110  Histology Laboratory (1-0-3)
Prerequisite: Credit or enrollment in BIOL 4310.
Appropriate exercises and experiments that illustrate some of the basic techniques, concepts and facts presented in BIOL 4310.

BIOL 4113  Parasitology Laboratory (1-0-3)
Crosslisted as MBIO 4113. Credit may not be earned for both.
Prerequisite: Credit or enrollment in BIOL 4313.
Appropriate exercises and experiments that illustrate some of the basic techniques, concepts and facts presented in BIOL 4313.

BIOL 4170  Natural History of Vertebrates Lab (1-0-3)
Prerequisite: 8 hours of upper-level biology; co-enrollment in Natural History of Vertebrates lecture course.
This course provides a hands-on examination of vertebrates discussed in Vertebrate Natural History lecture (BIOL 4370). Local species are emphasized. Field trips will be required.

BIOL 4190-4490  Special Topics in Biology
Prerequisite: Varies according to topic.
Selected topics in upper-level biology according to the needs and interests of the students.

BIOL 4210  Biology Seminar (2-2-0)
Prerequisite: Senior standing and majoring in an area of life science.
Presentations and discussions related to recent research accomplishments in biology and biotechnology including student research presentations.

**BIOL 4220 Introduction to Genomics and Bioinformatics (2-2-0)**

Prerequisite: MATH 1404, BIOL 3303/3103 or equivalent or permission of instructor.

Study of the principles of genomics and bioinformatics. Students will learn to evaluate the strengths and weaknesses of bioinformatics programs in genomics. Computer expertise is not required.

**BIOL 4230 Advanced Laboratory in Cell and Molecular Biology (2-0-6)**

Crosslisted as MBIO 4230. Credit may not be earned for both.

Prerequisite: One of the following: BIOL 4320, BIOL 4330, CHEM 4140, MBIO 4310.

Introduction to modern techniques in the manipulation of genes, and their introduction and regulation in eukaryotic cells. Techniques include polymerase chain reaction, in vitro mutagenesis, and fluorescence microscopy. Laboratory work emphasizes the design and carrying out of student-designed protocols.

**BIOL 4232 Cell Biology Laboratory (2-0-6)**

Prerequisite: One of the following: BIOL 4320, BIOL 4330, CHEM 4140, MBIO 4310.

This course will provide hands on experience in experimental techniques used to study the biology of the cell. Techniques include sub-cellular fractionation, western blot, PCR, electrophoresis, cell culture, transfection and fluorescence microscopy. Emphasis will be student driven experimental design.

**BIOL 4260 Environmental Laboratory and Field Studies (2-0-6)**

Crosslisted as CHEM 4260 and GEOL 4260. Credit may only be earned for one.

Prerequisite: BIOL 1302/1102, CHEM 1308/1108 and 4 hours of biology above the 1000-level.

The primary goal of this course is for students to gain experience in the design, execution, analysis and communication of environmental field and laboratory studies. The first half of the semester includes weekly field trips to a variety of local ecosystems while the second half of the course is dedicated to student-designed projects.

**BIOL 4301 Evolution of the Earth and its Inhabitants (3-3-0)**

Crosslisted as GEOL 4301. Credit may not be earned for both. Prerequisite: BIOL 1301/1101, 1302/1102, BIOL 3303, GEOL 1306/1106.

Analysis of the concepts and discoveries that led Darwin to propose his theory of natural selection to explain evolution and the subsequent lines of evidence in both geology and biology that substantiate his ideas and unify our understanding of the relationships of various organisms to each other. Specific groups of organisms will be discussed in relation to morphological changes through time as well as adaptations that may occur due to environmental changes and other variables.

**BIOL 4303 Human Genetics (3-3-0)**

Prerequisite: BIOL 3303/3103.

A study of inherited traits in humans with emphasis on the mapping of the human genome, molecular mechanisms of disease, karyotyping and chromosomal abnormalities, genetic testing, gene therapy, and ethical issues associated with human genetics.

**BIOL 4305 Physiological Ecology of Vertebrates (3-3-0)**

Prerequisite: BIOL 1302 and credit or enrollment in CHEM 3301.

Focus on mechanisms used by vertebrates to adapt to their natural habitats. Topics include the relationship between evolution and adaptation, nature and levels of adaptation, mechanisms of adaptation and the major adaptations of selected vertebrates. Emphasis on adaptation to extreme environments.

**BIOL 4310 Histology (3-3-0)**

Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and credit or enrollment in BIOL 4110.

A comprehensive overview of the microscopic and submicroscopic anatomy of the vertebrate body, with emphasis on humans. Special topics include histochemistry, tissue culture and pathophysiology.

**BIOL 4313 Parasitology (3-3-0)**

Crosslisted as MBIO 4313. Credit may not be earned for both. Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and credit or enrollment in BIOL 4113.

Introduction to parasitism as a biological concept and a survey of specific parasites of medical and veterinary importance. Additional
topics include the relationship of opportunistic parasites in the treatment of AIDS, immunodiagnosis and the status of vaccine development for parasitic diseases.

BIOL 4320 Cellular Biology (3-3-0)
Prerequisite: CHEM 4340 and junior-level standing
The composition, structure, functions and dynamics of cells. Topics include interrelations of organelles, molecular transport and membrane trafficking, cytoskeletal interactions, nucleocytoplasmic relationships, intra- and intercellular communications, mechanisms of cellular death and laboratory analysis.

BIOL 4325 Advanced Microscopy (3-1-6)
Crosslisted as GEOL 4325. Credit may not be earned for both. Prerequisite: 16 hours of laboratory-based science including 8 hours at the upper level, and approval of instructor.
Instrumentation principles and laboratory exercises associated with the applications of a variety of microscopes and associated techniques, including preparation of samples, light microscopy (bright-field, darkfield, phase-contrast, polarized and fluorescent), scanning electron microscopy, transmission electron microscopy, and X-ray microanalysis.

BIOL 4330 Molecular Biology (3-3-0)
Prerequisite: BIOL 3303/3103, MBIO 2305/2105, CHEM 3301/3201 and senior standing
Introduction to the molecular aspects of gene regulation in eukaryotic cells. Eukaryotic gene regulation is explored in the context of cell cycle regulation, cell differentiation, and cancer. The course emphasizes study of the primary research literature and the creation and testing of hypotheses using current technology.

BIOL 4340 Animal Behavior (3-3-0)
Prerequisite: BIOL 1302/1102 and ENG 1302.
Behavioral capacities of the animal kingdom, with emphasis on methods of study, instinctive behavior, the biological basis of behavior, learning and intelligence and social behavior.

BIOL 4344 Principles of Pharmacology and Toxicology (3-3-0)
Crosslisted as CHEM 4344. Credit may only be earned for one. Prerequisite: CHEM 4340.
Introduction to fundamental principles in pharmacology and toxicology. This course will highlight common molecular mechanisms of drug/toxin action, provide an ethical perspective on controlled research and experimental design, and provide students entering the chemical or medical industries an appreciation of modern drug design, industrial applications, clinical trials, and regulations imposed on the chemical industry to control public and private exposures.

BIOL 4350 Social Biology (3-3-0)
Prerequisite: 8 hours of biology, ENG 1302, PSY 1303 or SOC 1303, and junior standing.
This discussion-format course is intended to bring together ideas and students from the disciplines of biology, psychology, sociology and anthropology. Its focus is on the area of animal behavior that involves the interaction of conspecifics. Topics to be discussed include aggression, courtship, parental behavior, altruism, behavior genetics, dominance, competition and cooperation, and behavioral ecology.

BIOL 4360 Environmental Biology (3-3-0)
Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and 4 hours of biology above the 1000-level.
Ecological principles and current topics regarding the interrelationships among organisms and their environments, including analysis of human activities that impact natural ecosystems and cause environmental problems.

BIOL 4370 Natural History of Vertebrates (3-3-0)
Prerequisite: Prerequisite: 8 hours of upper-level biology; co-enrollment in Natural History of Vertebrates Lab.
This course will provide an in-depth view of vertebrate phylogeny, taxonomy, distributions, and life history adaptations.

BIOL 4380 Field Experience in Biology
Prerequisite: At least 85 hours and department approval
Field experience integrates theory learned in biology classes with practical laboratory or field experience. Students are placed in laboratories, clinical settings, or under the tutelage of a field researcher. May be repeated for additional credit; 6 hours may be applied toward a degree. A summary oral and written report must be presented to the Natural Sciences faculty.
BIOL 4399 Senior Honors Thesis
Prerequisite: Senior standing and enrollment in the Honors Program in the Natural Sciences.
A research project, supervised by a member of the natural sciences faculty or a scientist at an affiliated research institution or laboratory. The completed research project must be presented in both written and oral form to the science faculty. No more than six hours credit for this course may be applied toward a degree.

CHEM (Chemistry)

CHEM 1105 Introductory Chemistry Laboratory (1-0-3)
Prerequisite: Credit or enrollment in CHEM 1305.
Appropriate laboratory experiments for the student who will not be a professional physical scientist. The experiments support the principles of chemistry developed in the lecture portion of the course and illustrate some of the basic approaches to chemical problems. (CHEM 1105)

CHEM 1107 General Chemistry Laboratory I (1-0-3)
Prerequisite: Credit or enrollment in CHEM 1307.
Experiments which illustrate basic laboratory techniques and procedures, physical and chemical properties, stoichiometry, solutions, and thermochemistry. (CHEM 1111)

CHEM 1108 General Chemistry Laboratory II (1-0-3)
Prerequisite: CHEM 1107 and credit or enrollment in CHEM 1308.
Emphasis on reactions in aqueous solutions, gas laws, equilibrium, kinetics and qualitative analysis, with an introduction to instrumental analysis. (CHEM 1112)

CHEM 1304 Chemistry in Society (3-2-2)
This course presents the relevance of chemistry in everyday life, particularly in applications to environmental problems such as air pollution, ozone depletion, global warming, energy, water purity and acid rain. Fundamental concepts in chemistry introduced on a need-to-know basis include stoichiometry, atomic structure, chemical bonding, states of matter, electrolytic solutions and chemical reactions. This course meets the common core requirement in natural sciences.

CHEM 1305 Introductory Chemistry (3-3-0)
Prerequisite: Credit or enrollment in CHEM 1105 and credit or enrollment in MATH 1301 or MATH 1310
A survey of chemistry which focuses on the composition, properties and interaction of substances necessary to produce new materials. Topics include stoichiometry, atomic structure, chemical bonds, states of matter, electrolyte solutions and chemical reactions. This course is required for nursing or similar professional programs and may be taken prior to the general chemistry courses for science majors.

CHEM 1307 General Chemistry I (3-3-0)
Prerequisite: Credit or enrollment in MATH 1301 and CHEM 1107, ENG 1301 (or 010 core complete), and one year of high school chemistry or CHEM 1305/1105.
The first in a two course survey of the fundamentals of general chemistry for students majoring in the sciences. Descriptive material is correlated with the basic chemical principles and their applications. Modern concepts of atomic and molecular structure, chemical bonding, the gaseous state and the kinetic molecular theory of matter will be analyzed. There will be on stoichiometric calculations of mass and molar relationships, energy relations and intermolecular forces.

CHEM 1308 General Chemistry II (3-3-0)
Prerequisite: A grade of C or better in CHEM 1307 and credit or enrollment in CHEM 1108.
The second in a two course survey of the fundamentals of general chemistry for students majoring in the sciences. Topics include liquids and solids, intermolecular forces, chemical kinetics, thermodynamics, homogeneous, heterogeneous and ionic equilibrium, modern concepts of acids and bases, electrochemistry, coordination chemistry, nuclear chemistry and selected topics.

CHEM 2190-2490 Special Topics in Chemistry
Prerequisite: Varies according to topic.
Selected topics in lower-level chemistry according to the needs and interests of the students.
CHEM 3110  Quantitative Analysis Laboratory (1-0-3)
Prerequisite: Credit or enrollment in CHEM 3310.
Quantitative methods of analysis including gravimetric, volumetric and instrumental. Instrumental methods will include absorption and emission spectroscopy, gas and liquid chromatography and electrochemical analysis.

CHEM 3130  Physical Chemistry Laboratory I (1-0-3)
Prerequisite: Credit for or enrollment in CHEM 3330.
Advanced experiments in physical chemistry including studies in thermodynamics, colligative properties of solutions, surface tension of surfactant containing solutions, solution viscosities, electrochemistry and the physical chemistry of polymeric materials. In addition to providing support for CHEM 3330, this course is designed to acquaint the student with the experimental approaches and laboratory techniques used in industrial research and development activities.

CHEM 3132  Physical Chemistry Laboratory II (1-0-3)
Prerequisite: Credit for or enrollment in CHEM 3332.
A continuation of CHEM 3130.

CHEM 3190-3490  Special Topics in Chemistry
Prerequisite: Varies according to topic.
Selected topics in junior-level chemistry according to the needs and interests of the students.

CHEM 3201  Organic Chemistry Laboratory I (2-0-6)
Prerequisite: A grade of C or better in CHEM 1308/1108 and a grade of C or better or enrollment in CHEM 3301
Experiments illustrating basic techniques, synthesis, interpretation of spectra, use of molecular models and scientific literature.

CHEM 3202  Organic Chemistry Laboratory II (2-0-6)
Prerequisite: A grade of C or better in CHEM 3301/3201 and a grade of C or better or enrollment in CHEM 3302
Experiments illustrating multistep synthesis, semi micro techniques, instrumental analysis, investigation of reaction mechanisms and qualitative analysis.

CHEM 3300  Undergraduate Research (3-0-0)
Prerequisite: Approval by the Natural Sciences Department, minimum GPA of 2.0, and permission of instructor.
Independent investigation of a specific topic or problem in chemistry research under the direction of a selected faculty member.

CHEM 3301  Organic Chemistry I (3-3-0)
Prerequisite: A grade of C or better in CHEM 1308/1108 and a grade of C or better or enrollment in CHEM 3201
Fundamentals of organic chemistry. Topics include molecular orbital theory, stereochemistry, conformational analysis, reaction mechanisms, spectroscopy, nomenclature, physical properties, preparation and reactions of alkanes, alkyl halides, organometallics, alcohols and ethers.

CHEM 3302  Organic Chemistry II (3-3-0)
Prerequisite: A grade of C or better in CHEM 3301/3201 and a grade of C or better or enrollment in CHEM 3302
A continuation of CHEM 3301, with emphasis on alkenes, alkynes, aromatic compounds, aldehydes, ketones, acids and derivatives, amines, amino acids, proteins, and carbohydrates.

CHEM 3310  Quantitative Analysis (3-3-0)
Prerequisite: CHEM 1308 and CHEM 1108 and credit or enrollment in CHEM 3110.
A study of chemical equilibrium, reliability of measurements and the theory of applications of gravimetric, volumetric and instrumental methods of analysis.

CHEM 3320  Environmental Chemistry (3-3-0)
Prerequisite: BIOL 1302 and BIOL 1102; and CHEM 1308 and CHEM 1108.
Chemistry and analysis of clean and polluted air and water. Environmental standards of the American Public Health Association and the US Environmental Protection Agency.

CHEM 3330  Physical Chemistry I (3-3-0)
Prerequisite: CHEM 3301, MATH 2402, one year of general physics, and credit or concurrent enrollment in CHEM 3130.
Study and applications of the first and second laws of thermodynamics to gases, liquids, solutions and phase equilibrium;
applications of the third law of thermodynamics to systems in equilibrium; kinetic theory and statistical thermodynamics.

**CHEM 3332 Physical Chemistry II (3-3-0)**
*Prerequisite: CHEM 3330 and credit or concurrent enrollment in CHEM 3132.*
Study and applications of the fundamental principles and postulates of quantum mechanics, electronic structure of atoms and molecules, molecular symmetry, and spectroscopy.

**CHEM 3340 Inorganic Geochemistry (3-3-0)**
*Croslisted with GEOL 3340. Credit may not be earned for both. Prerequisite: GEOL 1305/1105 and CHEM 1308/1108.*
Examination of the Earth and earth processes through the application of chemical principles including fractionation and distribution of the elements, the chemical evolution of planetary interiors and interactions between Earth’s lithosphere, hydrosphere and atmosphere. Topics include evaluation of theories and analysis of data relevant to geologic problems facing society such as the search for and utilization of mineral resources and the environmental implications of waste disposal and remediation.

**CHEM 3402 Thermophysical Properties of Materials (4-3-3)**
*Prerequisite: PHYS 1308 or PHYS 2402. Crosslisted as PHYS 3402.*
Discussion of phase structure and transitions in materials occurring with changing temperature involving both lecture instruction as well as hands on laboratory experience. Materials studied are polymers, liquid crystals and geological materials.

**CHEM 4140 General Biochemistry Lab I (1-0-3)**
*Prerequisite: Credit or enrollment in CHEM 4340.*
Experiments in biochemistry to accompany CHEM 4340.

**CHEM 4162 Advanced Inorganic Laboratory (1-0-3)**
*Prerequisite: Credit or enrollment in CHEM 4362.*
This laboratory course is designed to supplement CHEM 4362. It will involve experiments that demonstrate the principles of inorganic chemistry and the techniques used by inorganic chemists for the synthesis and characterization of inorganic materials.

**CHEM 4190-4390 Special Topics in Chemistry**
*Prerequisite: Varies according to topic.*
Selected topics in upper-level chemistry according to the needs and interests of the students

**CHEM 4260 Environmental Lab and Field Studies (2-0-6)**
*Croslisted as BIOL 4260 and GEOL 4260. Credit may only be earned for one. Prerequisite: BIOL 1302/1102, CHEM 1308/1108, GEOL 1306, and credit or concurrent enrollment in BIOL 4360 or CHEM 3320 or GEOL 3303.*
Intensive laboratory and field investigations to illustrate principles and current concepts presented in BIOL 4360, CHEM 3320, and GEOL 3303 by sampling, measuring, and analyzing biological, chemical, and physical factors of select environments, with emphasis on the activities of humans and their effects on ecosystems.

**CHEM 4340 General Biochemistry I (3-3-0)**
*Prerequisite: BIOL 1102 and BIOL 1302 and CHEM 3201 and CHEM 3301.*
Overview of fundamental biochemical principles, topics, techniques and analytical methods that integrates concepts from previous biology and chemistry courses to the study of biological macromolecules. Emphasis is placed on the bioorganic chemistry and techniques needed to critically and objectively analyze biological molecules and the fundamental processes that support life. Specifically protein, lipid and membrane structure and function, enzymatic catalysis and kinetics are emphasized.

**CHEM 4342 General Biochemistry II (3-3-0)**
*Prerequisite: CHEM 4340/4140.*
Integration and application of first semester Biochemistry (CHEM 4340) to cellular metabolism. Emphasis is placed on the bioorganic chemistry of metabolic intermediates, metabolic pathways, the enzymes that catalyze metabolic reactions, and their coordinated regulation in cellular, tissue and organismal homeostasis. Application of the scientific method and exploration of the primary scientific literature is emphasized in the context of course material.

**CHEM 4344 Principles of Pharmacology and Toxicology (3-3-0)**
*Croslisted as BIOL 4344. Credit may only be earned for one. Prerequisite: CHEM 4340.*
Introduction to fundamental principles in pharmacology and toxicology. This course will highlight common molecular mechanisms of drug/toxin action, provide an ethical perspective on controlled research and experimental design, and provide students entering the chemical or medical industries an appreciation of modern drug design, industrial applications, clinical trials, and regulations imposed on the chemical industry to control public and private exposures.

CHEM 4360 Industrial Organic Chemistry (3-3-0)
Prerequisite: CHEM 3302/3202.
A survey of the chemistry and industrial processes used to obtain the seven major organic compounds that are used as starting materials in the chemical industry. Also included is the synthesis of related derivatives of these base chemicals, their properties and industrial applications.

CHEM 4362 Advanced Inorganic Chemistry (3-3-0)
Prerequisite: CHEM 3332/3132 and credit or concurrent enrollment in CHEM 4162.
An introduction to modern inorganic chemistry including theoretical and descriptive chemistry, along with discussion of important applications. The theoretical aspects include the quantum mechanical basis of atomic and molecular structure, the nature of chemical bonding, and the thermodynamics and kinetics of inorganic reactions. The descriptive component involves the application of the theoretical principles to the actual properties of the elements and their respective compounds. The course also includes a discussion of some of the most important scientific, technological, and industrial applications of inorganic chemistry.

CHEM 4364 Polymer Chemistry (3-3-0)
Prerequisite: CHEM 3302/3202 and CHEM 3330/3130.
A study of the chemistry and technology of polymeric materials including methods of polymerization, characterization and applications of polymers with an emphasis on structure-property relationships.

CHEM 4380 Field Experience in Chemistry
Prerequisite: At least 60 semester credit hours and approval of department chair.
Selected students are placed in jobs in their local community which are related to and reinforce their academic training. Positions are full time, salaried and last the duration of a semester. May be repeated once for additional credit. Recommended for students not already employed in their area of study.

CHEM 4399 Senior Honors Thesis
Prerequisite: Senior standing and enrollment in the Honors Program in the Natural Sciences.
A research project supervised by a member of the natural sciences faculty or a scientist at an affiliated research institution or laboratory. The completed research project must be presented in both written and oral form to the science faculty. No more than 6 hours credit for this course may be applied toward a degree.

CHEM 4410 Instrumental Methods of Analysis (4-3-3)
Prerequisite: CHEM 3310/3110 and 3332/3132.
Theory and operation of advanced measurement sciences, especially modern atomic/molecular spectroscopy, electrochemical analysis, and separation. Major instrumentation will be learned in experimental contexts, including signal processing, AA, ICP, fluorescence, UV-VIS, IR, NMR, voltammetry, ion-selective sensor, HPLC, and GC/MS.

CHI (Chinese)

CHI 1401 Elementary Chinese I (4-3-1)
Laboratory fee required: $10.
Instruction in understanding, speaking, reading, and writing Mandarin Chinese. Provides freshman foreign language credit.

CHI 1402 Elementary Chinese II (4-3-1)
Prerequisite: CHI 1401
Laboratory fee required: $10.
This course is a continuation of CHI 1401 Elementary Chinese I.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJ 1301</td>
<td>Introduction to Criminal Justice (3-3-0)</td>
<td>Completion or co-enrollment in ENG 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An overview and description of the criminal justice system is presented, including its goals, its relationship to other governmental bodies and its relationship to society. Also included is the study of the basic components of the criminal justice system.</td>
</tr>
<tr>
<td>CJ 2301</td>
<td>The Police System (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Historical analysis of the police function and how it has evolved into the contemporary professional police function. Overview of philosophical and ethical issues surrounding the role of the police in a democratic society and a survey of contemporary and traditional police policies and practices. (CRIJ 2328)</td>
</tr>
<tr>
<td>CJ 2302</td>
<td>The Criminal Court System (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The history, philosophy and basic concepts of the legal system are studied. The criminal justice legal process from inception to appeal is also presented. (CRIJ 1306)</td>
</tr>
<tr>
<td>CJ 2303</td>
<td>The Correctional System (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The historical and philosophical development of the correctional system is examined. The role of correctional agencies, their personnel and their relationship to the criminal justice system is emphasized. (CRIJ 2313)</td>
</tr>
<tr>
<td>CJ 3300</td>
<td>Research Methods in Criminal Justice (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Introduction to the design and implementation of research in the field of criminal justice. The principles of research methods and design for use in policy analysis, content analysis and analysis of secondary data will be presented. Considerable attention will be given to the application of design and implementation as it relates to criminal justice within a real world context.</td>
</tr>
<tr>
<td>CJ 3301</td>
<td>Criminology (3-3-0)</td>
<td>Prerequisite: CJ 1301, PSY 1303 or SOC 1303.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>An overview of criminal behavior, its impact on the criminal justice system and theories of criminal behavior are presented. This is a writing intensive course.</td>
</tr>
<tr>
<td>CJ 3302</td>
<td>Criminal Investigation (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The history and theory of criminal investigation, investigative procedures, conduct at the crime scene, collection and preservation of evidence and problems of successful prosecution are studied. The law and procedure affecting case preparation and presentation are emphasized.</td>
</tr>
<tr>
<td>CJ 3303</td>
<td>Criminal Justice Cornerstone (3-3-0)</td>
<td>Prerequisite: Junior standing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Provides a critical examination of historical and current issues and processes in policing, criminal courts, corrections, and the juvenile justice system.</td>
</tr>
<tr>
<td>CJ 3304</td>
<td>Criminal Law (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This course examines the elements of the various specific crimes against persons and property, along with associated legal concerns. General legal principles are studied and related to the Texas Penal Code.</td>
</tr>
<tr>
<td>CJ 3305</td>
<td>Criminal Evidence and Procedure (3-3-0)</td>
<td>Prerequisite: CJ 1301.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Laws of evidence and procedure are studied through examination of case law and the Texas Code of Criminal Procedure. Emphasis is given to the rules governing admissibility of various classes of evidence, as well as their exceptions.</td>
</tr>
</tbody>
</table>
CJ 3306  Crime and Delinquency (3-3-0)
Prerequisite: CJ 1301, PSY 1303, or SOC 1303.
Delinquent behavior and the role and responsibility of the criminal justice system in controlling delinquency are examined. Special emphasis is placed on social problems contributing to delinquency as well as current treatment methods.

CJ 3307  Community Oriented Policing (3-3-0)
Prerequisite: CJ 1301, PSY 1303, or SOC 1303.
The nature of the community and its impact on the police is explored. Those factors that contribute to conflict and inhibit police-community relations are studied in order to discover how the police and the community can achieve a more cooperative relationship.

CJ 3308  Juvenile Justice System (3-3-0)
Prerequisite: CJ 1301, PSY 1303, or SOC 1303.
The history, philosophy and role of the juvenile court with emphasis on jurisdiction, treatment, criminal proceedings and the family court is presented.

CJ 3309  Security and the Law (3-3-0)
Prerequisite: CJ 1301.
The functional aspects of security investigation and the legal restrictions placed on non-governmental related activities are presented. These include industrial, commercial, campus and private security entities.

CJ 3311  Ethics in Criminal Justice (3-3-0)
Prerequisite: Junior standing.
This course examines ethical decision-making within the criminal justice system. Topics include an overview of ethical systems and ethical dilemmas for professionals in the law, policing, and correctional systems. This is a writing intensive course.

CJ 3312  Prisons in America (3-3-0)
Prerequisite: CJ 1301, PSY 1303, or SOC 1303.
This course is a comprehensive examination of the history, philosophy and management of prisons. The effectiveness of jails and prisons for the purposes of retribution, incapacitation, deterrence and rehabilitation is evaluated.

CJ 3313  Community-Based Corrections (3-3-0)
Prerequisite: CJ 1301, PSY 1303, or SOC 1303.
The history, philosophy and legal authority of community correctional alternatives is presented. Community corrections include probation, parole, fines, diversion, restitution, community treatment centers, work/study release centers and halfway houses.

CJ 3316  Victimology (3-3-0)
Prerequisite: Junior standing.
Examines the role of the victim in the criminal process. Emphasis is given to victims’ rights and responsibilities.

CJ 3317  Race and Crime (3-3-0)
Prerequisite: Junior standing.
Examines impact of race on victimization, criminal behavior and type and seriousness of legal sanctions. Emphasis is given to disproportionate representation of minorities in the criminal justice system.

CJ 3318  Sex Crimes (3-3-0)
Prerequisite: Junior standing.
Examines historical development of laws and policies and current issues surrounding sex offenses and offenders in the U.S. Focus is on social and legal responses to sex offenders and ongoing policy debates. Topics include the etiology of sexual violence, recidivism, risk assessment, treatment and rehabilitation.

CJ 3319  Legal Research (3-3-0)
Prerequisite: Junior standing.
Study of the principles of legal problem solving using research materials available in a law library. Students will be introduced to various legal texts, Shepard’s citations, statutes [PE1], case reporters. Assignments involve practical research applications.
Statistics in Criminal Justice (3-3-0)
Prerequisite: CJ 3300 or permission of instructor and MATH 1301 or MATH 1310.
Introduction to data analysis in criminal justice. Emphasis will be placed on the application of quantitative measures to the study of the prevention, interdiction and suppression of criminal behavior. The course will examine both descriptive and inferential statistics. In addition, students will be introduced to data analysis through the use of statistical computer software.

Criminal Justice Administration (3-3-0)
Prerequisite: Junior standing.
This course examines historical and contemporary issues in administration of criminal justice agencies. Topics include the application of administrative methods and theories to police, courts, and correctional agencies.

Organized Crime (3-3-0)
Prerequisite: Junior standing.
A historical survey is made of organized crime including basic knowledge of the organizational function and structure of crime. Societal factors, preventive techniques and control systems are stressed.

Vice, Drugs and the Law (3-3-0)
Prerequisite: Junior standing.
The historical, philosophical and legal aspects of vice activities and drugs are examined. An analysis is made of the reactions of the police and society to victimless crime. The classification, description and extent of the drug problem are surveyed.

White Collar Crime (3-3-0)
Prerequisite: Junior standing.
A comprehensive examination of the nature, extent and consequences of white-collar crime. Emphasis on explanation from the criminological perspective and sanctioning from a multicultural perspective.

Evidence-Based Corrections (3-3-0)
Prerequisite: Junior standing.
This course introduces students to evidence based correctional practices. The course examines theories, methods, and techniques related to successful offender rehabilitation.

Domestic Terrorism (3-3-0)
Prerequisite: Junior standing.
This course will examine the development, organization and activities of the various groups that have been labeled as threats to state and national security. Special attention will be given to their disproportionate impact on the American Criminal Justice System.

Legal Rights of the Convicted (3-3-0)
Prerequisite: Junior standing.
A comprehensive analysis of the legal rights of prisoners, probationers and parolees derived from case law, statutes and constitutional principles on both state and federal levels.

Media and Crime (3-3-0)
Prerequisite: Junior standing.
This course examines the relationship of the media to criminal and criminal justice. The contribution of film to the social construction of crime and the justice system is the principal focus.

Security Management (3-3-0)
Prerequisite: Junior standing.
The organization, administration and management of the security function are examined from the perspective of efficiency and effectiveness. This course surveys organizations in business, industry and government. Particular emphasis is placed upon policy and decision-making, training, personnel development and budgeting.

Research Topics (3-3-0)
Prerequisite: Criminal justice major, senior standing and department approval.
This course provides a unique opportunity for the criminal justice major to conduct in-depth research into an area of the student's
field of interest. A major paper is required.

CJ 4313  International Criminal Justice (3-3-0)
Prerequisite: Junior standing.
Examines and analyzes the structure and operation of various criminal justice systems from an international perspective.

CJ 4314  Women and the Criminal Justice System (3-3-0)
Prerequisite: Junior standing.
Provides an in-depth look at women's participation in three areas of criminal justice-as offenders, as victims and as criminal justice professionals.

CJ 4370  Senior Seminar in Criminal Justice (3-3-0)
Prerequisite: Criminal Justice major and senior standing.
Students will address current issues in criminal justice. Analytical skills to frame the problem and suggest solutions will be stressed. The oral and written presentations in class will emphasize problem solving techniques and analysis. Ethical, political and social issues that impact criminal justice research will also be examined. This is a writing intensive course.

CJ 4380  Field Experience in Criminal Justice
Prerequisite: Criminal justice major, junior standing, 2.5 GPA and departmental approval. Students may receive a maximum of 6 hours of field experience credit.
Selected students are placed in criminal justice agencies for 120 hours, applying academic training to practical situations. Recommended for criminal justice majors who are not working in the criminal justice system. Practitioners, however, may apply for an internship in an area of criminal justice other than the one in which they normally function.

CJ 4390  Special Topics in Criminal Justice (3-3-0)
Prerequisite: Junior standing.
Selected topics or current issues in criminal justice, taught by faculty, visiting lecturers or others who possess a special area of expertise.

CJ 4680  Field Experience in Criminal Justice
Prerequisite: Criminal justice major, junior standing, 2.5 GPA and departmental approval. Students may receive a maximum of 6 hours of field experience credit.
Selected students are placed in criminal justice agencies for 240 hours, applying academic training to practical situations. Recommended for criminal justice majors who are not working in the criminal justice system. Practitioners, however, may apply for an internship in an area of criminal justice other than the one in which they normally function.

COMM (Communication)

COMM 1301  Voice and Diction (3-3-0)
Strongly recommended for students for whom English is a second language. Introduction to phonetics and methods of voice development. Acquiring good speech habits through individual analysis, tape recordings, guided practice, class drills, oral readings and vocabulary building.

COMM 1302  Mass Media (3-3-0)
Prerequisite: None.
An introduction to mass communications, including the functions in society of newspapers, magazines, radio and television. (COMM 1307)

COMM 1303  Storytelling (3-3-0)
Students will develop skills in storytelling by examining the communicative elements essential to the storytelling event: teller, audience, purpose. Enhancing critical and creative thinking, developing language skills, improving listening, and better understanding and appreciating culture are among the topics to be covered in this performance-based course. Also included is storytelling as a teaching tool.
COMM 1304 Introduction to Communication (3-3-0)
Prerequisite: None. Laboratory fee required: $10
An overview of skills important in developing effective communication. Students will gain experience in interpersonal, small group, and public communication. (SPCH 1311)

COMM 1305 Speech Performance (3-3-0)
Prerequisite: None.
Students will develop skills in Speech Performance by examining the communicative elements essential to the Speech Performance event: teller, audience, purpose. Enhancing critical and creative thinking, developing language skills, improving listening, and better understanding and appreciating culture are among the topics to be covered in this performance-based course. Also included is Speech Performance as a teaching tool.

COMM 1306 Beginning Public Speaking (3-3-0)
This course is designed to teach basic skills in organization and delivery of speeches in a variety of settings. Students will learn ways to collect and incorporate verbal support, use patterns of speech structure, and identify successful techniques for handling stage fright. Additional topics include audience analysis, outlining content, platform presence, and use of voice.

COMM 1309 Communication and Public Decision Making (3-3-0)
This course is designed to explore the theory of deliberative democracy and to practice the skills involved in such approach to citizen involvement in public problem solving. The course explores democratic deliberation through in-class deliberation exercises, online discussion with other students, and research and writing about public policy issues.

COMM 1385 Communication in the Classroom (3-3-0)
Prerequisite: None.
Communication behaviors for the classroom teacher and how those behaviors affect student learning. Discussion of theories and practice in self-concept, feedback, listening, disclosure and nonverbal communication.

COMM 2301 Introduction to Health Communication (3-3-0)
Prerequisite: 3 hours of COMM.
This course introduces students to the broad and evolving sub-field of health communication and its many contexts and applications. Students will be exposed to basic theories, concepts, vocabulary and research in interpersonal, organizational, and public healthcare settings, and will be able to examine the multiple communication opportunities within the medical and public health community.

COMM 2304 Argumentation (3-3-0)
Prerequisite: ENG 1302. Laboratory fee required: $10.
Theory and practice in argumentation, including inductive and deductive reasoning, attitude change, use of evidence and fallacies.

COMM 2305 Film Appreciation (3-3-0)
Crosslisted as ART 2305. Credit may not be earned for both.
Prerequisite: ENG 1302. Laboratory fee required: $10.
An overview of film as a communication and esthetic medium. Films are studied for their artistic and cultural significance, and for the communication strategies they use. Topics include film genres, sound and graphics, imagery, symbolism, cultural contexts for film, and film criticism.

COMM 2307 Intercultural Communication (3-3-0)
Prerequisite: ENG 1302.
A study of the impact of culture on communication behaviors and the implication for cross-cultural interactions, both interpersonal and organizational.

COMM 2309 Interpersonal Communication (3-3-0)
Prerequisite: ENG 1302.
A theoretical, practical, and experiential introduction to interpersonal communication. Areas in communication apprehension, family communication, listening and communication in multiple contexts are discussed.
COMM 2310 Social Media and Contemporary Communication (3-3-0)
Prerequisite: None.
Broken into three sections, this course will examine the recent integration of social media into society and communication. In the first section, we will explore the historical roots of new medias, spending time understanding the roles of each of the major social media platforms. In the second section, we will investigate a variety of ways that new media have influenced our interpersonal relationships, corporate communications and ethical implications. Lastly, students will gain an understanding of social media communication through hands-on activities.

COMM 2311 Principles of Public Relations (3-3-0)
Prerequisite: 3 hours of ENG writing or composition.
Introduction to the techniques and methods of public relations in promoting the image of organizations, corporations, and institutions, both public and private.

COMM 2390 Communication Skills (3-3-0)
Prerequisite: 3 hours of COMM.
A focused examination and development of various basic communication skills, including (but not limited to) such topics as Intrapersonal Communication, Communication Competence in Society, Introduction to Social Media, and Communication Apprehension. May be repeated for credit with approval when topic varies.

COMM 3301 Advanced Public Relations (3-3-0)
Prerequisite: COMM 2311 and junior standing.
A theoretical and practical approach to understanding the communication, methods, and techniques required of public relations in corporate, institutional, and organizational environments, as well as private and public sectors. This course applies principles learned in COMM 2311 Principles of Public Relations.

COMM 3302 Debate (3-3-0)
Prerequisite: COMM 2304. Laboratory fee required: $10
Practice in formal debate, including principles of effective argument with special attention to reasoning, evidence, motivation, organization, persuasion and public policy debate.

COMM 3303 Advertising as Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course examines the role of advertising in integrated marketing communication essential to virtually all organizations. Explores persuasive strategies used in the process of campaign planning and message creation for traditional and new media.

COMM 3304 Advanced Public Speaking (3-3-0)
Prerequisite: COMM 1306 and junior standing. Laboratory fee required: $10.
A comprehensive examination of the preparation and presentation of various types of speeches. Types include: informative, persuasive, impromptu and ceremonial. Videotaping and in-depth student assessment are integral to the course.

COMM 3305 Fundamentals of Communication Technology (3-3-0)
Prerequisite: 3 hours of COMM and junior standing. (online only)
Critical analysis of communication technology based on models of communication. Examines how communicators prepare, deliver and assess messages for effective distribution in technological contexts.

COMM 3306 Business and Professional Speech Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Laboratory fee required: $10.
Effective communication in a business and professional setting. Units include: interview, group decision-making, informing, and persuading.

COMM 3307 Political Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Examines role of communication in shaping political and social changes. Political rhetoric of individuals and groups, past and present; how discourse forms and calls upon one’s political self.
COMM 3308  
Family Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Course reflects the trends in theory and practice in developing an understanding of the frameworks of communication as it relates to the family unit. Communication issues include intimacy, roles, power, decision-making, rules, quality dialogue and conflict.

COMM 3309  
Theory and Practice of Interviewing (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
The application of communication theory to interview situations. This theory and practicum course is designed to aid the student in mastering specific skills appropriate to specialized settings such as selection interviews, appraisals, discipline interviews, exit interviews, computer-assisted interviews, journalistic interviews and investigative reporting, and survey and telephone interviews.

COMM 3310  
Women, Men, and Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Course explores the theory and practice of communication between the sexes in personal relationships and professional contexts. The social construction of gender is also discussed.

COMM 3311  
Advanced Media Studies (3-3-0)
Prerequisite: 3 hours of ENG writing or composition and COMM 1302.
This course will study broadcast and print media and techniques with an emphasis on communication writing skills for newspapers, magazines, television, and radio.

COMM 3312  
Advanced Presentation Concepts (3-3-0)
Prerequisite: ENG 3302.
This course deals with writing professionally for presentations in business, media, and industry, including speechwriting, video-scripting, communication, and slide and multimedia presentations.

COMM 3313  
Race, Ethnicity and Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course explores the inextricable and multidimensional relationship between race and communication. Students will understand how to transcend race using communication capital as a means of developing effective interactions. Specific attention to the construction of one’s own racial/ethnic identity as well as those of other groups. Part I of the course will cover various foundations of interracial communication including topics such as language, identity, history, cultural influences, and theories. Part II will draw from this foundation and discuss interracial communication in a number of contexts such as in relationships, organizations, and the mass media.

COMM 3314  
Research in Communication Studies (3-3-0)
Prerequisite: Credit or enrollment in COMM 3320 and junior standing.
This course will provide students with a research vocabulary and will teach them to evaluate research. Quantitative, qualitative, and critical paradigms will be examined. Students will conduct original research.

COMM 3315  
Small Group Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course will provide students with a comprehensive knowledge of small group communication theories and processes. Students will gain the ability to apply conceptual ideas about effective group practices to practical communication situations such as leadership, decision-making, conflict management, and teamwork. By bridging theoretical readings and discussions with application-based group projects, students will have the opportunity to practice and refine their own understanding of small group communication.

COMM 3316  
Sex, Love, and Romance in the Mass Media (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course will challenge unrealistic portrayals of sex, love, and romance presented by the mass media through an examination of myths, stereotypes, cognitive behavioral models, and mass media effects.

COMM 3317  
Film Analysis (3-3-0)
Prerequisite: ART 2305 or COMM 2305.
Crosslisted as ART 3315. Credit may not be earned for both. May be repeated twice for credit if course titles and descriptions differ and content is relevant to concentration.

This course applies the history and terminology from ART/COMM 2305 (Art Appreciation) to the analysis and critique of films representative of various movements and genres.

COMM 3318 Facilitating Public Deliberation (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course emphasizes theory and practice in moderating and recording public forums in a variety of civic settings. Deliberation is an approach to politics in which citizens, not just experts or politicians, are involved in public decision-making and community problem solving. Working with trained facilitators who utilize a wide variety of specific deliberative techniques, citizens come together and consider relevant facts from multiple points of view; converse with one another to think critically about the various options before them; enlarge their perspectives, opinions, and understandings; and ultimately seek to come to some conclusion for action in the form of a reasoned public judgment.

COMM 3319 Communication in Conflict (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Examines human conflict and resolution in interpersonal, organizational, and international contexts from a communications perspective. Students will explore theories of conflict, understand the communication skills involved in reducing conflict, and practice various strategies of conflict resolution.

COMM 3320 Communication Theory (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course focuses on theories of communication that help students to understand the issues affecting the field today. These theories help students understand people’s daily interactions in various contexts.

COMM 3321 Patient-Provider Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course explores the theories, issues, and practical applications of health communication in interpersonal healthcare contexts. Topics of study include shared decision-making, cultural competency in healthcare, health literacy, patient advocacy, risk communication and patient education.

COMM 3323 Communication in Healthcare Organizations (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course examines the role of communication in healthcare organizations. Students are exposed to the practical application of health communication in the management of healthcare organizations and systems, including decision-making, quality control, strategic planning, the utilization of technology, marketing, and the ethical and legal issues impacting healthcare system management.

COMM 3325 Rhetoric and Public Address (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Theory and practice of public address. Students will explore audience analysis, credibility, persuasion theory, and methods of rhetorical movements.

COMM 3328 Communication and Intimacy (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course reflects trends in theory and practice in developing an understanding of the framework of communication as it relates to intimate relationships including marriage and its alternatives. Communication issues covered include marriage and its alternatives, self-disclosure, intimacy, trust, commitment, roles, power distribution, decision making, sources of conflict and conflict management, and alternative lifestyles.

COMM 3330 Nonverbal Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Addresses how we communicate other than through the use of words. Topics will include body language (kinesics), use of space (proxemics), touch (haptics), and vocal variety.
COMM 3335  Rhetorical Theory (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course offers a historical approach to the study of public communication and rhetoric. Considering communication's roots in the rhetorical tradition, the class surveys classical, modern, and contemporary theories. Each individual approach is relevant for students seeking to improve their communication knowledge and competence. The class engages both the continuities and ever-changing nature of communication, constraints, and technologies. This class can be taught from multiple perspectives so students may take the course more than once. For example, students can take a course in classical theory, contemporary theory, feminist theory, or a general survey of rhetorical theory.

COMM 3340  Communication and Leadership (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Leadership is the process in which an individual influences a group of individuals to achieve a common goal through a number of strategies, including communication. This course bridges the gap between popular approaches and theoretical approaches to leadership in real world organizations. In addition to learning various leadership approaches and theories, students will also study communication behaviors of successful leaders, women and leadership, culture and leadership, and leadership ethics.

COMM 3345  Rhetorical Criticism (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
This course explores the models and methods available to the public communicator. Students will understand how situations and texts work rhetorically and how each method contributes to dynamic understandings of social phenomena, including, but not limited to, famous and lesser-known speeches, monuments and public art, and social and mass media. Through an introduction to a wide range of rhetorical methods, students will engage their own roles as creators and consumers of messages. This class can be taught from multiple perspectives so students may take the course more than once. For example, students can take a course in feminist rhetorical criticism, modern rhetorical criticism, public memory and rhetorical criticism, or a general survey of rhetorical criticism.

COMM 3399  Directed Study in Communication (3-3-0)
Prerequisite: Formal approval by department chair and dean.
Selected topics in the field; intensive individual study under the guidance of a member of the faculty.

COMM 4098  Capstone Portfolio
Prerequisite: Communication Studies major filing for graduation. Required for graduation.
This non-credit course certifies that a degree requirement (submission of samples of the student’s coursework) has been fulfilled by a student majoring in the BA in Communication Studies. The student enrolls in COMM 4098 in the senior year and continues to enroll until graduation. Upon declaring Communication Studies as a major, the student should begin a collection of projects. During the semester of anticipated graduation, the student will be guided through the process of selection for the e-portfolio, consisting of the student’s best written, oral, and media projects from a range of upper level courses. The e-portfolio is graded S for Satisfactory, U for Unsatisfactory or I for In Progress. Only a grade of S certified by the degree coordinator allows graduation.

COMM 4301  Persuasive Communication (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Study of the theories, techniques, forms, functions, applications, potential and limitations of persuasive communication for the individual and organizations. Utilizes classical rhetorical and contemporary communication theories.

COMM 4302  Communication Campaigns (3-3-0)
May be repeated once for credit if course titles and descriptions differ and content is relevant to concentration.
Prerequisite: 3 hours of COMM and junior standing.
Focuses on the theory and application of campaigning to the public. The course will alternately focus on the research, management, and implementation of campaigns in differing contexts including, but not limited to, public health and political interests, giving students a unique opportunity to select contexts most applicable to future careers and to engage in hands-on campaign production.

COMM 4310  Communication in the Organization (3-3-0)
Prerequisite: 3 hours of COMM and junior standing.
Emphasis on linking theories of organizational behavior and leadership to theories of human communication in dyadic, small group, presentational, and public contexts. Students have the opportunity to apply theories to real organizational settings by conducting
diagnostic projects focusing on communication dynamics within the organizational setting.

**COMM 4315 Elements in Speechwriting (3-3-0)**
Prerequisite: COMM 1306 and junior standing.
Speechwriting is the process by which one writes a listenable message to be delivered by a public speaker. This course will explore the decisions the speechwriter must make before deciding what to write, how to sequence thoughts and ideas, find paths to verbal economy, identify ways to better understand an audience, and craft a variety of speeches for the ear. Students will learn to write informative, persuasive and ceremonial speeches and to conduct the research needed to help make them effective. Other topics will include: style, coherence, rhythm, and creating “implied dialogue”.

**COMM 4320 Globalization, New Media & Society (3-3-0)**
Prerequisite: 3 hours of COMM and junior standing.
This course is designed to provide students with critical, contemporary understandings of global media movements in cultural and social contexts. This course investigates the implication of globalization and media convergence on media industries, local and regional cultures, collective action and social movements. Lectures, readings and discussions will facilitate an understanding of how communication systems affect culture, civil society, and international social development.

**COMM 4324 Advanced Public Deliberation (3-3-0)**
Prerequisite: COMM 3318 and junior standing.
A service learning course in which students gain experience in solving real world problems by applying their knowledge of communication and deliberation skill and theory. Students enrolled in this course will serve as Student Associates for the UHD Center for Public Deliberation.

**COMM 4325 Communication Law and Ethics (3-3-0)**
Prerequisite: 6 hours of COMM and junior standing.
This course will introduce students to the legal and ethical considerations that shape the communication process. It surveys the development of constitutional protections and regulations of communication in the United States, with an emphasis on the ethical challenges and responsibilities of exercising freedoms established by the First Amendment to the U.S. Constitution. The course emphasizes the evolution of the First Amendment, significant Supreme Court cases interpreting First Amendment law, and the rhetoric of freedom of communication.

**COMM 4330 Communication Training and Development (3-3-0)**
Prerequisite: COMM 3314 or COMM 3306 & ENG 3302 and junior standing.
Methods of training and development are explored as communication processes through which organizations help managers and employees improve performance and increase job satisfaction. Methods include discussion, simulation, programmed instruction, and multimedia presentation. Students learn skills required for designing a training program: assessing needs, interviewing, and writing the training proposal.

**COMM 4335 Religious Communication (3-3-0)**
Prerequisites: 6 hours of COMM and junior standing.
An analysis of the ways institutional religion applies communication theory to propagate values, gain adherents, and promote awareness of critical social issues. This course will provide an overview of communication theory that is specifically religious in content.

**COMM 4380 Field Experience in Communication**
Prerequisite: 60 hours toward degree and department approval.
Placement of students in jobs involving areas in Communication Studies within the private and public sectors. Work may be paid or unpaid. Written reports, conferences with the instructor and other academic work are required. May be repeated once for credit.

**COMM 4390 Special Topics in Communication (3-3-0)**
Prerequisite: 6 hours of COMM and junior standing.
The issues addressed in this course reflect current trends in speech communication. Possible topics to be offered in different semesters include: health communication, nonverbal communication, small group communication, training and development. With permission of department chair. May be repeated once for credit.
CRS (Critical Race Studies)

CRS 2301  An Introduction to Critical Race Studies (3-3-0)
*Prerequisite: ENG 1302 or sophomore standing.*
This course will focus on the foundations writings of Critical Race Theory. It will provide students with an analytical framework for a race-based epistemological, methodological, and pedagogical approaches to the study of everyday inequalities.

CRS 4301  Critical Race Studies Theory & Praxis (3-3-0)
*Prerequisite: CRS 2301 or junior standing.*
A capstone project course focused on Critical Race Theory in the pursuit of Social Justice. Students will complete a Social Justice project exemplifying their theoretical, analytical and innovative skills developed through their study and experiences in Critical Race Theory courses.

CS (Computer Science)

CS 1105  Technology for Education Lab (1-0-2)
*Prerequisite: Credit or enrollment in CS 1305, or CS 1410, or CS 1408.*
An introduction to authorware systems and presentation software for the development of interactive teaching materials and classroom presentations. Examples of computer-based instruction and tutoring systems will be discussed. The use of CS-ROM multimedia teaching materials will be introduced.

CS 1305  Introduction to Computer Technology (3-3-0)
*Prerequisite: MATH 1300 or placement by exam.*
Topics include the history and nature of computers, ethical and other societal issues, an overview of computer hardware and software (with an emphasis on computer applications and the use of standard software packages). The use of the Internet for communication and research is introduced.

CS 1312  Computer Programming in Visual Basic (3-3-0)
*Prerequisite: Completion of, or enrollment in, MATH 1404, MATH 1505, or MATH 1306.*
An introduction to programming using Visual Basic with an emphasis on event-driven programming. The Visual Basic environment includes objects, events, code, and properties. Topics also include statements, subprograms, data types, arrays, input-output, and user interface design.

CS 1408  Introduction to Computer Science with Visual Basic (4-4-0)
*Prerequisite: Credit or enrollment in MATH 1404 or MATH 1505 or MATH 1306; and placement in ENG 1301 or above.*
History, nature and uses of the computer; algorithms; number systems; information representation and organization with an overview of computer hardware and software, computing systems and major applications. An introduction to high-level languages and programming using Visual Basic with an emphasis on event-driven programming. Elements of the Visual Basic programming environment including objects, events, properties, user interface design and creating web-based applications are discussed. Practice with standard programming features such as control statements, subprograms, data types, arrays and input-output mechanisms.

CS 1410  CS I-Introduction to Computer Science with C++ (4-4-0)
*Prerequisite: Credit or enrollment in MATH 1404 or MATH 1505 or MATH 1306; and placement in ENG 1301 or above.*
History, nature and uses of the computer; algorithms; number systems; information representation; and organization, with an overview of computer hardware and software, computing systems and major applications. Ethical and societal issues are discussed. An introduction to high-level languages with an emphasis on programming in C++. Control statements, subprograms, data types, arrays, and strings. Closed (supervised) laboratories are conducted on: an introduction to Microsoft Windows, and a C++ programming environment; appropriate programming exercises emphasizing top-down design methodology and simple and structured data types; and key topics of the discipline and areas of application. Designed as a first course for majors in Computer Science and Mathematics (COSC 1436)
CS 1412  **Introduction to Computer Science with C# (4-4-0)**  
Prerequisite: Credit or enrollment in MATH 1404 or MATH 1505 or MATH 1306; and placement in ENG 1301 or above.  
An introduction to programming using C# for design and development Windows applications with an emphasis on event-driven programming. Topics include objects, events, code, and properties. Control statements, subprograms, data types, arrays, input-output, and user-interface designs.

CS 2401  **Introduction to Computer Organization and Assembly Language (4-4-0)**  
Prerequisite: Grade of C or better in CS 1410 or CS 1408.  
Organization of general-purpose computers; data representation and arithmetic; instruction sets architectures and addressing modes; memory hierarchies, input/output and storage, and alternative architecture. (COSC 2425)

CS 2402  **Digital Logic (4-4-0)**  
Prerequisite: Grade of C or better in CS 1410 and MATH 2405.  
Topics include: analysis and synthesis of combinational and sequential switching networks; optimization methods using random logic gates, multiplexers, decoders, registers, counters, and programmable logic devices. Laboratory exercises involve the design and implementation of digital circuits. Emphasis is on the use of CAD tools in the design, simulation, and testing of digital circuits.

CS 2410  **CS II-Introduction to Data Structures and Algorithms (4-4-0)**  
Prerequisite: Grade of C or better in CS 1410 and credit or enrollment in MATH 2401.  
Arrays, records (C++ structs), classes and data abstraction, object-oriented software development, pointers, dynamic data structures, linked structures, elementary and searching and sorting algorithms, recursion, an introduction to algorithm complexity analysis. (COSC 1437)

CS 3300  **Object-Oriented Programming and Concepts (3-3-0)**  
Prerequisite: Grade of C or better in CS 2410.  
Provides practical guidance on the construction of object-oriented systems. The Unified Modeling Language (UML) is used as a tool for analysis and design and the JAVA language is used for implementation. Key concepts of object-oriented programming methodology are discussed.

CS 3304  **Data and Information Structures (3-3-0)**  
Prerequisite: Grade of C or better in CS 2410 and MATH 2405.  
Development of methods for organizing and processing data sets. Types of data structures analyzed include linear lists, stacks, queues, trees, and graphs. Algorithm analysis methods are used throughout to analyze the various data structures and algorithm design alternatives.

CS 3306  **Introduction to Theory of Computation (3-3-0)**  
Prerequisite: Grade of C or better in CS 1410 and MATH 2405.  
An introduction to the modern theory of computing. Topics selected from abstract algebra, finite automata, regular expressions, regular languages, pushdown automata, context-free languages, and Turing machines. The capabilities and limitations of abstract computing devices are investigated from a theoretical perspective.

CS 3308  **Numerical Methods (3-3-0)**  
Crosslisted as MATH 3308. Credit may not be earned for both. Prerequisite: Grade of C or better in CS 1408 or CS 1410, MATH 2407, MATH 2402.  
Develop and implement algorithms used in solving a variety of problems from science and engineering, including numerical solutions of linear systems of equations and nonlinear equations, curve fitting, approximation, numerical differentiation and integration, and numerical solutions of ordinary differential equations. Computer techniques are used in obtaining and analyzing numerical solutions.

CS 3318  **Introduction to Computer Security (3-3-0)**  
Prerequisite: Grade of C or better in CS 2410 and MATH 2405.  
Introduction to encryption and decryption; security mechanisms in computer programs, operating systems, databases, and networks; administration of computer security; and legal/ethical issues in computer security. Provides the foundation for further study of security issues in computer systems and applications.
CS 3325  Introduction to Wireless Networks (3-3-0)
Prerequisite: Grade of C or better in CS 2410 and CS 2402.
An introduction to the fundamentals of wireless communications and networks, including basic communication theory, architectures, protocols, and standards. It describes concepts, technology and applications of wireless networking as used in current and next-generation communication networks.

CS 3326  Network Security (3-3-0)
Prerequisite: CS 2410.
This course is an introduction to the fundamentals of computer network security. Topics include the rationales and necessity for securing computer networks, common security threats, methodologies for the design of network security systems, establishing security protocols and the identification of best practices of secure communications systems. In particular, this will cover an introduction to encryption and decryption, authentication, secure communication, network security protocols, firewalls and web security. This course provides the foundational knowledge for advanced study of security issues in computer networks.

CS 3394  Undergraduate Research (3-3-0)
Prerequisite: Junior standing and departmental approval.
Independent investigation of a specific topic or problem in computer science under the guidance of a faculty member. The course is designed to give students research experience and independent study skills in an area of computer science. A written report and an oral presentation are required at the end of the course. Course may be repeated for credit with department approval. Course cannot be used to fulfill upper-level CS elective requirement for CS degree plan.

CS 3410  Game Programming (4-4-0)
Prerequisite: Credit in MATH 2405, CS 1412, and CS 3304.
An introduction to computer game development. Topics include 2D, 3D objects, loading, texturing, lighting, high level shader language, physics, AI algorithm, and 3D effects.

CS 3420  Introduction to Software Engineering (4-4-0)
Prerequisite: Grade of C or better in CS 3304.
Provides the students with a theoretical, and a practical, understanding of the development of large software systems. The theoretical component is supported with readings, lecture, and discussion. The practical component consists of preparation of software systems using software engineering principles.

CS 4294 Senior Seminar (2-2-0)
Crosslisted as MATH 4294, STAT 4294. Credit may not be earned for more than one. Prerequisite: COMM 1304, ENG 3302, senior standing and department approval.
A structured seminar. Students are exposed to the world community as it relates to their major (involving a written and oral report on cultural issues as well as discussion of these topics); ethics is discussed as it relates to the subject. In addition, students prepare a written proposal for a senior project.

CS 4300  Web Programming (3-3-0)
Prerequisite: Grade of C or better in CS 3304.
An introduction to Web programming using HTML, XML, JavaServer Pages, and Java Script, with an emphasis on developing and designing dynamic Web pages in the client-server model.

CS 4301  Advanced Numerical Methods for Science and Engineering (3-3-0)
Prerequisite: CS/MATH 3308, MATH 2403 and MATH 3301.
Advanced topics in numerical mathematics, including the numerical solution of ordinary and partial differential equations and advanced methods in numerical linear algebra. Programming projects are stressed that use the computer to solve physical and engineering problems. This course may be used to fulfill the writing application course requirement with additional prerequisites including CS 4294 and department approval.

CS 4303  Programming Language Concepts (3-3-0)
Prerequisite: Grade of C or better in CS 3304 and CS 3306.
This course provides students with a foundation in the concepts and implementation of modern programming languages. It also covers imperative, functional, logic, and object-oriented programming paradigms. Programming assignments and/or closed labs will be conducted for syntax and semantics analysis and different paradigms.
CS 4306 Mathematical Models and Computer Simulation (3-3-0)
Prerequisite: MATH 3302 or STAT 3310 and CS 1408 or CS 1410.
Quantitative modeling of industrial systems, computer simulation languages; discussion of problems encountered in constructing simulation programs. This course may be used to fulfill the writing application course requirement with additional prerequisites including CS 4294 and department approval.

CS 4310 Principles of Computer Graphics (3-3-0)
Prerequisite: Grade of C or better in CS 2410 and MATH 2407.
Analytical treatment of computer graphics; input, transformation and display of graphical data; graphical algorithms and languages; emphasis on current developments.

CS 4315 Operating Systems (3-3-0)
Prerequisite: Grade of C or better in CS 2401, CS 2402, and CS 3304.
Basic concepts of operating systems including concurrent process management, I/O device management, process scheduling, synchronization, deadlock, and memory management. UNIX used for standard examples.

CS 4318 Database Systems (3-3-0)
Prerequisite: Grade of C or better in CS 3304.
An introduction to the theory of database and file structures with an emphasis on general principles and algorithmic issues as well as a conceptual overview of the design, construction and maintenance of database and file processing systems. After the various models are considered, specific attention is given to advanced topics such as data integrity, optimization, and distributed environments.

CS 4319 Data Mining and Warehouses (3-3-0)
Prerequisite: Grade of C or better in CS 3304.
Concepts of design and implementation of database systems. Data models, query processing, database design theory; emphasis is on relational database systems and the use of SQL for data processing. This course may be used to fulfill the writing application course requirement with additional prerequisites including CS 4294 and department approval.

CS 4322 Theory of Algorithms (3-3-0)
Prerequisite: Grade of C or better in CS 3304 and CS 3306.
Detailed study of the main algorithmic techniques of computer science (e.g., sorting and searching) and analysis of the operating characteristics and complexity of selected algorithms.

CS 4325 Computer Network Architecture (3-3-0)
Prerequisite: Grade of C or better in CS 2410 and CS 2402.
Architectures and operating systems of distributed networks including data communication, local networks, public networks and design alternatives. This course may be used to fulfill the writing application course requirement with additional prerequisites including CS 4294 and department approval.

CS 4328 Parallel Computing (3-3-0)
Prerequisite: Grade of C or better in CS 2401 and CS 3304.
Introduces fundamental concepts of parallel computers and parallel/distributed computation. Projects involving parallel algorithm design, software implementation and results analysis to solve scientific and/or engineering application problems in parallel will be assigned. This course may be used to fulfill the writing application course requirement with additional prerequisites including CS 4294 and department approval.

CS 4333 Theory and Applications of Neural Nets (3-3-0)
Crosslisted as MATH 4333. Credit may not be earned for both. Prerequisite: Grade of C or better in MATH 2407, MATH 2403, and CS 2410.
Introduction to basic concepts of neural networks used in supervised and unsupervised learning. Several learning rules and algorithms will be presented along with applications.
CS 4334  Fuzzy Logic: Theory and Applications (3-3-0)
Crosslisted as MATH 4334. Credit may not be earned for both. Prerequisite: Grade of C or better in CS 2410 and MATH 2407.
This course will cover important ideas in the theory and applications of fuzzy logic such as operations on fuzzy sets, alpha cuts, possibility measure, ruled based computations, associative memories and other topics as time permits.

CS 4336  Neuro-Fuzzy Systems (3-3-0)
Crosslisted as MATH 4336. Credit may not be earned for both. Prerequisite: MATH 2403, MATH 2407, and CS 2410. CS/MATH 4333 or CS/MATH 4334 recommended.
Advanced topics selected from fuzzy logic, regression and optimization, adaptive networks, neural nets, and neuro-fuzzy systems.

CS 4340  Mobile Computing (3-3-0)
Prerequisite: Grade of C or better in CS 3420.
Introduction to software development for mobile devices such as smartphones and tablets. Topics include essential concepts of software development, Graphical User Interface design, hardware communication on mobile platforms, and development of practical apps for mobile devices. This course can be used to fulfill upper-level CS elective requirement for BS in CS degree plan. It may be used to fulfill the writing application course requirement (W-course) with the additional prerequisite of CS 4294.

CS 4380  Field Experience
Prerequisite: At least 60 semester hours, grade of B or better in CS 3304, 3306 and 2402 and approval of department chair.
Selected students are placed in jobs in the local community which are related to and reinforce their academic training. Positions are full time, salaried and last the duration of a semester. Recommended for students not already employed in their area of study.

CS 4390  Special Topics in Computer Science (3-3-0)
Prerequisite: Department approval.
Intensive study of one or more major topics in computer science, especially with respect to a new or emerging area. Course may be repeated for credit with department approval.

CS 4395  Senior Project in Computer Science
Prerequisite: COMM 1304, ENG 3302, grade of B or better in CS 4294, 3.0 GPA, senior standing and department approval.
Intensive study under the guidance of a member of the Computer Science faculty which culminates in an individually researched and formally written report and oral presentation dealing with the applications of computer science in the student's area of specialization and related to one type of business or industry in the Houston area.

CS 4396  Senior Thesis
Prerequisite: Approval of department chair and the student's advisor for CS 4395.
Intensive study under the guidance of a member of the Computer Science faculty which continues and expands the research carried out in CS 4395. A formal written report and oral presentation will be required.

CS 4399  Directed Study in Computer Science
Prerequisite: Approval of department chair and dean.
Intensive individual study under the guidance of a member of the Computer Science faculty.

CSP (College Success Program)

CSP 1101  College Success Program (1-1-0)
An introduction to college life. Topics include study skills, time management, university resources, library skills, and goal setting.
Recommended for all new and returning students.

CSP 1301  Effective Learning Models (3-3-0)
An overview of how humans acquire, process, and apply knowledge. Designed to provide entering and returning students the analytical and critical skills necessary for college success.
DANC (Dance)

DANC 1301  Dance in America (3-3-0)
An introduction to the basic forms, types and history of dance and dance styles in America, including, but not limited to: ballet; modern; jazz; social; and tap.

DANC 2301  West African Dance (3-3-0)
This course introduces traditional and neo-traditional West African Dance. No prior dance experience required. Participants explore traditional dances from the countries of Guinea, Mali, and Senegal and the significant relationship that dances and drums have in those societies. Students dance traditional dances that celebrate rites of passage, harvest, courtship, fertility, and healing. Dancers use verbal chants and their bodies to tell stories of African life and discover the common thread that runs throughout all cultures.

DRA (Drama)

DRA 1301  Introduction to the Theater (3-3-0)
Prerequisite: ENG 1300 or acceptable reading placement score.
Topics examine the five essential elements of theater: the audience, the actor, the script, the production and the physical theater. Attendance at plays required; no acting included.

DRA 1303  Acting Principles and Practice (3-3-0)
Basic concepts of acting (including improvisations, elements of characterization, role playing and scene production) through class presentations, attendance at plays, personal contact with professional actors and viewing films and videos.

DRA 1304  Acting II (3-3-0)
Prerequisite: DRA 1303 or permission of instructor.
Concentration on advanced concepts of acting, auditioning, improvisations, characterizations, pantomime, voice development and scene presentation. Performance in university productions encouraged.

DRA 1305  Stagecraft I (3-0-3)
Laboratory fee required: $25.
An introduction to the basic aspects of scenery and lighting, including elementary construction techniques, types and kinds of lighting instruments and equipment, various building materials and the operation and care of tools and machinery.

DRA 2301  Stage Design (3-3-0)
Prerequisite: ENG 1301.
Examines the history and development of stage scenery and lighting. Includes consideration of design principles and techniques in each area as well as materials and tools used. Also looks at notable scenic and lighting designers from the past and present.

DRA 2305  Costume Design (3-3-0)
Prerequisite: ENG 1301.
An examination of the role of the costume designer in various performance situations (i.e. theatre, opera, concerts, television, film). Includes consideration of design principles, costuming techniques, the history of the costume designer and notable costume designers from past and present.

DRA 2390  Theatre Skills (3-3-0)
A concentrated and focused examination and development of selected theatre skills and abilities, including, but not limited to: Stage Combat; Stage Movement; Voice for the Actor; Stage Make-up; Improvisation; Period Acting Styles; and Mime. May be repeated for credit with approval when topic varies.

DRA 3303  Theater: Greek to Elizabethan (3-3-0)
Crosslisted as HUM 3315. Credit may not be earned for both. Prerequisite: ENG 1301.
World theater from its beginnings to the 18th century, including theater architecture, staging and costuming practices, plays and
playwrights and social and political forces affecting the theater.

DRA 3304 Theater: Elizabethan to Modern (3-3-0)
*Crosslisted as HUM 3316. Credit may not be earned for both. Prerequisite: ENG 1301.*
World theater from the 18th century to the present.

DRA 3305 Advanced Stagecraft (3-0-3)
*Prerequisite: DRA 1305 or permission of instructor.*
In-depth study of a specific aspect of technical theater such as lighting, scenery, sound, costumes, or an original set, lighting, sound or costume design project that is conceived, created, and realized for a UHD theater production. Gives students an opportunity to participate in a particular aspect of technical theater from the initial conceptual stage through actual performance. Students will also learn organizational, supervisory, and crew leadership skills. A research paper on the scientific aspect of technical theater that the student has selected, or a written report covering the design project undertaken, is required.

DRA 3308 Playwriting (3-3-0)
*Crosslisted as HUM 3326. Credit may not be earned for both. Prerequisite: Junior standing or permission of the instructor.*
The process of playwriting. Topics include dramatic structure, character and dialogue development and conflict resolution. Culminates with an original script.

DRA 3309 African American Theater: History and Perspective (3-3-0)
*Crosslisted as HUM 3319. Credit may not be earned for both. Prerequisite: Three hours of DRA.*
A survey of the African American theater experience from the 1800s to the present with special emphasis on the intersection of race, theater, and performance.

DRA 3325 Arts Administration (3-3-0)
*Crosslisted as ART 3325, HUM 3325, MUS 3325. Credit may not be earned for more than one. Prerequisite: Junior standing, completion of the creative arts band in the common core, or departmental approval.*
An examination of the principles of arts administration stressing general concepts relating to marketing, fundraising, audience development, financial management, and the overall environment of arts management in profit and non-profit organizations such as theaters, art galleries, music organizations, dance companies, and museums.

DRA 3327 Arts Marketing
*Crosslisted as ART 3327, HUM 3332, MUS 3327. Prerequisite: Junior standing and ENG 1302.*
This course is an overview of fundamental marketing concepts and strategies relevant to promoting artists, such as painters, actors, dancers, designers, or musicians, as well as fine arts events, and creative products. Topics include market research, audience development, traditional advertising, digital campaigns, public relations, branding, strategic partnerships, and grassroots initiatives. Using real-world examples and current trends, students develop foundational knowledge of the theory and practice of fine arts marketing.

DRA 3332 Stage Directing (3-3-0)
*Prerequisite: DRA 1301 and DRA 1303 or DRA 1304 or permission of the instructor.*
An examination of the principles and practices of directing live theater. Concentration on such directorial responsibilities as play selection, casting, script analysis, rehearsal scheduling, character development and blocking techniques. Course culminates in the public presentation of a short dramatic performance. Course may be repeated once for credit.

DRA 3333 American Theatre History (3-3-0)
*Crosslisted as HUM 3309. Credit may not be earned for both. Prerequisite: 3 hours DRA.*
This course explores theatre in the U.S. from its colonial past to the 1960s. Special emphasis will be placed on the cultural, social and political background upon which the American Theatre has evolved. Plays will be examined as reflections of the historical times in which they were written and performed.

DRA 4390 Special Topics in Theater (3-3-0)
*Prerequisite: ENG 1302 and junior standing.*
An in-depth examination of selected aspects of theater including, but not limited to: playwriting; directing; dramatic criticism; the
contributions of a particular playwright, or group of playwrights; and historical trends and group contributions to the evolving theater scene. May be repeated for credit with approval when topic varies.

ECH (Early Childhood Education)

ECH 2311  Early Childhood Classroom (3-3-0)
Focuses on the identification, implementation and evaluation of developmentally appropriate curriculum, instruction and authentic assessment for preschool, kindergarten, and primary classrooms, based on the state standards. In addition, students will learn how to build effective communication skills with families.

ECH 2313  The Early Childhood Learning Environment (3-3-0)
Introduction to models and theories of the organization and management of the emotional and physical aspects of the early childhood learning environment, including guidance, centers design and authentic assessment. In addition, students will learn how to build reciprocal partnerships with families.

ECO (Economics)

ECO 1301  Introduction to Economics (3-3-0)
Prerequisite: ENG 1301.
Combines microeconomics and macroeconomics in one semester. A non-technical examination of economic theories, programs, and policies. The primary objective in this course is to develop an interest and appreciation for the relevance of economic analysis.

ECO 1305  Contemporary Economic Issues (3-3-0)
The course will synthesize qualitative and quantitative methodology to explore important economic and contemporary issues in Health Care, Poverty, Educational Reform, Unemployment, Inflation, Budget Deficits, Social Security, Environmental Protection, Crime and Drugs, and Market Concentration and Power. The course will consist of two phases. The first phase will introduce major fundamental concepts such as scarcity and choice; supply and demand as market forces; consumer choice; unemployment; inflation; and gross domestic product and its related matters. The second phase will concentrate on analyzing selected contemporary economic issues.

ECO 2301  Principles of Economics I (3-3-0)
Prerequisite: MATH 1301 or MATH 1310.
Principles of macro-economics. Topics include structure of the US economy, national income determination and the application of monetary and fiscal policies. Also includes analysis of international trade and finance. (ECON 2301)

ECO 2302  Principles of Economics II (3-3-0)
Prerequisite: MATH 1301 or MATH 1310.
Principles of micro-economics, with major emphasis on price and income distribution theory. Topics include demand theory, competition, oligopoly and monopoly, marginal productivity theory, international trade, and international finance. (ECON 2302)

ECO 3301  Natural Resources and Environmental Economics (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and ECO 2302.
The economics of non-renewable resource extraction, the economics of pollution control, the application of cost-benefit analysis to the environment and the economics of sustainable development.

ECO 3302  Managerial Economics (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and ECO 2302.
Application of micro-economic theory to important business decision-making. Analytical methods in production, cost, demand, marketing and pricing. Regression analysis applied to test and to estimate empirical models.

ECO 3303  Economics of Industrial Organization (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and ECO 2302. A survey of market structures and market performance as well as the role of government regulations and antitrust policy in different sections of the economy. Emphasis is placed on methods and techniques used in measuring market structures and performance. Public regulation is considered in both
theory and practice.

ECO 3305  Economics of Government Finance (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ECO 2301 and ECO 2302.
This course emphasizes the theories and techniques which enable students to evaluate the role of government in modern economy more objectively. The course reviews theories of public expenditures and taxation. It also critically evaluates major U.S. government expenditure programs and tax policies.

ECO 3306  Petroleum Economics (3-3-0)
Prerequisite: MATH 1301, ECO 2301, and ECO 2302.
Introduction to the methods and practices used by the oil and other industries to examine the economic viability of upstream oil and gas projects. Prepares students to perform economic evaluations and to critically review those done by others. Topics include cash flow analysis, economic indicators, risk and uncertainty, fiscal analysis, and techniques for valuing oil and gas properties and companies.

ECO 3307  Intermediate Macroeconomics (3-3-0)
Prerequisite: ECO 2301.
In depth and comprehensive analysis of macroeconomic theories and policies with real world applications. Alternative theories are evaluated using the IS/LM and the AD/AS models. The policy differences of these theories are critically examined. Topics include business cycles, unemployment, inflation, interest rates, deficits and debts, economic growth, and monetary and fiscal policies. Macroeconomic issues in the context of today's global economy are also explored.

ECO 3309  Intermediate Microeconomics (3-3-0)
Prerequisite: ECO 2302.
Comprehensive analysis of micro economic theories, policies, and applications will be undertaken. Topics include an analysis of the market system, marginal analysis and optimization behavior, consumer choice, production and cost, market structure models, resource markets, externalities, public choice, distribution theories and welfare economics.

ECO 3310  Current Economic Issues (3-2-0)
This course surveys current economic issues facing the U.S. and the World. It achieves this objective by discussing policy options and analyzing their implications. Issues to be covered include pollution and environment, inflation and unemployment, poverty, crime, education, health care, global interdependence, and others which arise from time to time.

ECO 3399  Directed Study in Economics (3-0-0)
Prerequisite: Approval of department chair and dean.
Selected topics in economics; intensive individual study under the guidance of a member of the economics faculty.

ECO 4301  Business and Economic Forecasting (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ECO 2301 and a grade of C or better in STAT 3309.
Combines economic theory, quantitative methods and forecasting techniques to understand, analyze and forecast trends and fluctuations in business and economic activities. Emphasis on forecasting techniques such as smoothing methods, decomposition analysis, regression analysis, Box-Jenkins ARIMA methods and other advanced time-series techniques. Actual data and appropriate computer software will be used to provide hands-on experience to learn techniques and apply them for business and economic decision-making.

ECO 4303  International Economics (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ECO 2301 and ECO 2302.
This course focuses on the principles of foreign trade and covers theories concerning the reasons for trade. The course examines the monetary and real aspects of international trade and includes analysis of foreign exchange markets and balance of payments problems.

ECO 4307  Health Economics (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and ECO 2302.
A study of demand and supply in the medical services industry. Specific issues include markets for medical education, health insurance, hospital care, physicians and nurses. The role of government in health and medical care such as Medicare, Medicaid and
national health insurance is discussed.

ECO 4309 Economic Development (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and ECO 2301.
Examines economic development theories, policies and practices of developing countries with particular emphasis given on the nature, causes and possible solutions to the problems of developing countries. Also examines the relationship between developed and developing countries in such areas as trade, capital flows, and labor migration.

EED (Elementary Education)

EED 3311 Teaching Social Studies in the Elementary Classroom (3-3-2)
Prerequisite: Department approval.
A field-based course which addresses social studies curricula and methodology in urban elementary and middle school classrooms.

EED 3312 Effective Teaching Strategies in Mathematics Education (3-3-2)
Prerequisite: Department approval.
A field-based course that emphasizes how children learn and develop mathematical concepts, skills, and procedures. The course will employ strategies to plan, organize, and implement instruction and curriculum goals aligned to local, state, and national standards.

EED 3313 Effective Teaching Strategies in Science Education (3-3-2)
Prerequisite: Department approval.
A field-based course that emphasizes inquiry-based, student-centered science learning experiences for young children and adolescents. This course employs research-based approaches that support effective teaching in science content and pedagogy resulting in high science achievement for learners.

EED 3315 Effective Teaching Strategies in Science Education (3-3-2)
Prerequisite: Department approval.
A field-based course that emphasizes inquiry-based, student-centered science learning experiences for young children and adolescents. This course employs research-based approaches that support effective teaching in science content and pedagogy resulting in high science achievement for learners.

EED 3317 Unifying Mathematics Concepts and Processes in Urban Education (3-3-2)
Prerequisite: Admission to Teacher Education Program and concurrent enrollment in EED 3316 and EED 3318.
A field-based course utilizing research-based mathematical processes to reason, solve, communicate, and make mathematical connections within and outside of mathematics. The course employs strategies to enhance student achievement in the urban classroom.

EED 3318 Unifying Concepts and Processes in Science Education (3-3-2)
Prerequisite: Department approval.
A field-based course that emphasizes an integrated approach using unifying science concepts and processes across the science disciplines. The processes and concepts are taught using inquiry-based science learning experiences.

EED 4301 Student Teaching in the Elementary Classroom
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban public school, guided by a mentor teacher and site-based university instructor.

EED 4302 Student Teaching in the Middle-School Classroom
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban school, guided by a mentor teacher and site-based university instructor.
EED 4303  Student Teaching in the Bilingual/ESL Classroom  
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban public school, guided by a mentor teacher and site-based university instructor.

EED 4304  Student Teaching in the Early Childhood Classroom  
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban public school, guided by a mentor teacher and site-based university instructor.

EED 4320  Advanced Processes for Teaching Writing in the Middle Grades (3-3-2)  
Prerequisite: Department approval.
This field-based course is designed to provide prospective teachers with the understanding that writing is a developmental process. Instructional tools that help late elementary and middle school age children develop competence in written communication are addressed.

EET (Electrical Engineering Technology)

EET 1411  Electric Circuits with Lab (4-3-1)  
Prerequisite: MATH 1301 and 1302.
Theory and applications of electric circuits as found in typical engineering systems and daily living environment. Basic principles and analysis methods for dc and ac circuits are studied and circuit applications explored. Computer simulation software tools are used extensively to provide an interactive teaching and learning process. Hands-on experience is gained through circuit testing and troubleshooting exercises. This course lays the foundation for other Electrical Engineering Technology courses.

EET 2421  Electronic Devices and Amplifiers with Lab (4-3-1)  
Prerequisite: EET 1411.
Study of the characteristics and operation of electronic devices including diodes, bipolar junction transistors and field effect transistors, operational amplifiers, 555 timers. Electronic circuitry for signal amplification and filtering, instrumentation, power regulation, electric drives. Use of computer software in electronics design.

EET 2431  Digital Logic with Lab (4-3-1)  
Prerequisite: EET 1411 or department approval.
Introduction to binary numbers, Boolean algebra, and Karnaugh maps. Logic gates, memory devices, counters, registers, arithmetic logic units, and data-handling circuits. A/D and D/A converters. Combined computer simulation and circuit testing in the laboratory.

EET 3334  Electrical Power Systems (3-2-1)  
Prerequisite: EET 1411.
Basic principles and applications of electrical power systems, power generation, transmission and distribution in utility and industrial systems. Included are lighting and grounding design, motor controls, transformers and area classification. Computer simulation of power systems.

EET 3432  Computer Architecture and Design with Lab (4-3-1)  
Prerequisite: EET 2431.
The organization and design of digital computer systems, including microprogramming, register transfer language, micro-operations and control functions of the computer. Computer input/output. The microcomputer is emphasized. The basics of machine and assembly language are utilized with the hardware.

EET 3435  Fundamentals of Automation and Control with Lab (4-3-1)  
Prerequisite: EET 2421; and MATH 2402 or ENGR 2411.
Study of plant dynamic modeling (first-and second order, transfer functions, nonlinear characteristics) and simulation, control system configurations (open-loop, closed-loop, combined feed forward/feedback control), types of controllers (analog, PC-based, PLCs), and control modes (on-off, PID, etc.). System designs for dc servo position and speed control, temperature control, lighting control, etc.
EET 3451  Instruments and Transducers with Lab (4-3-1)
Prerequisite: EET 2421 or department approval.
Transducer characteristics and applications. Sensor and measurement systems for major process variables: temperature, pressure, level, flow, and other physical variables. Design on signal conditioning circuits. 4-20mA current loops. Data acquisition and instrumentation networks.

EET 4335  Computer Networking (3-3-0)
Prerequisite: EET 2431.
Principles and applications of computer networking techniques, including the seven layered protocol model, hierarchy of commands, descriptions of the physical layers of the model and descriptions and analysis of popular techniques currently in existence. Development and implementation of NT networks.

EET 4434  Microprocessor Systems Design (4-3-1)
Prerequisite: EET 2431.
Design, application and operation of various electronics systems using microprocessors. Consideration will be given to the specific type of components required, the sources of manufactured components, and the construction of the circuits and systems. Emphasis will be placed on microcomputers and their related peripherals and the use of system design software, XILINX. Various electronic circuits will be designed, implemented, and troubleshooting using PAL’s and PGA’s. A group electronics systems project using microprocessors will be completed and troubleshooting using all aspects of the course.

---

EM (Energy Management)

EM 3301  Introduction to the Petroleum Industry (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and completion of, or enrollment in, BA 3300.
Overview of the petroleum industry including industry structure, vocations within the industry, basic exploration and production concepts, regulatory issues, and current events and status of the industry.

EM 3399  Directed Study in Energy Management
Prerequisite: Approval of department chair.
Directed study in selected topics in energy management.

EM 4301  Energy Law (3-3-0)
Prerequisite: BA 3300, BA 3301, and EM 3301.
Study of law as it relates to the energy industry. Emphasis on legal concepts relating to mineral interests and contracts commonly used in the industry, title, leasing, joint operations, farmouts, drilling contracts, marketing contracts, bid agreements, international agreements and their economic consequences, regulatory and environmental issues.

EM 4310  Energy Transactions and Practical Solutions - Case Study (3-3-0)
Prerequisite: BA 3300, EM 3301, MGT 3303, and FIN 3302.
Case study of actual and hypothetical transactions in the energy industry. Deals with all facets of decision making including analysis of predicted returns, synergies, cost reduction, risk profiling, cultural ramifications of acquisition and divestiture, long-term vs. short-term implications of transactions and their effects on stakeholders.

EM 4350  Hydrocarbon Marketing: From the Wellhead to the Consumer (3-3-0)
Prerequisite: BA 3300, MKT 3301, and MKT 3302.
Examines upstream, downstream and midstream marketing opportunities. Topics include fractionating and refining, transportation differentials, premiums, discounts and penalties. Regulatory and marketing issues for integrated companies.
ENG 1101  Tutorial for English Composition (1-0-1)
Prerequisite: Simultaneous enrollment in ENG 1300.
Individualized instruction in English composition. The instructor-tutor designs a course of study to assist the student in learning new skills and/or overcoming specific problems that impede academic success. This course fulfills no English composition degree requirement and is offered on a pass/fail basis.

ENG 1105  Upper-Division Writing Tutorial (1-0-1)
Prerequisite: Eligibility for ENG 1301 or permission of department.
Individualized instruction for upper-division students in all disciplines who continue to have problems with some aspects of writing and who seek to improve their mastery in particular areas. The instructor-tutor designs a course of study to assist the student in learning new skills or overcoming specific errors. This course fulfills no English composition degree requirement or writing-intensive requirement and is offered on a pass/fail basis.

ENG 1201  Writing Success Lab (2-0-2)
Prerequisite: Co-enrollment in ENG 1300.
Structured tutorial assistance designed to help students achieve success in ENG 1300. Tutoring is provided by Writing Center tutors. Activities are structured around course homework and additional specially designed group or laboratory activities. Additional topics may include study skills, time management, goal setting, and test taking skills.

ENG 1300  Fundamentals of English: Integrated Reading & Writing (3-3-0)
Prerequisite: Placement examination is required.
The Integrated Reading and Writing (IRW) course fulfills TSI requirements for reading and/or writing. This course refines student reading and writing skills in inventing, drafting, revising, and editing multi-paragraph papers.

ENG 1301  Composition I (3-3-0)
Prerequisite: A grade of C or better in ENG 1300, TSI WRITING Essay score of 5, or an essay score of 4 and WRITING score of 363, TSI WRITING complete, or TSI WRITING exempt. Laboratory fee required: $5.
English 1301 is an introduction to college-level communication with an emphasis on argumentation, which is the kind of writing/communication required most frequently in university coursework and the public sphere. This course focuses on writing as a recursive process that includes audience analysis, invention, organization, drafting, revising, and editing; oral presentation and visual analysis skills are used to reinforce composition processes.

ENG 1302  Composition II (3-3-0)
Prerequisite: A grade of C or better in ENG 1301 or placement by examination. Laboratory fee required: $5.
English 1302 will build on the skills developed in English 1301 by focusing on research and analytical skills. Emphasis will be placed on the analysis and summarization of complex written, oral, and visual texts and the need to accurately paraphrase, quote and document sources through the development of college-level research skills.

ENG 1306  Workplace Presentations (3-3-0)
This course teaches students to recognize, understand, and perform effective communication in settings common to business and the professions. Students will learn how to research, compose, deliver and critique multimodal presentations that are common in the workplace.

ENG 1316  Creative Writing: The Word in the World (3-3-0)
This first-year writing course explores creative writing as a medium of personal expression and social exchange; and emphasizes the writing and analysis of at least two literary genres chosen from among poetry, fiction, and creative nonfiction, as well as the reading of literary works in translation, as creative artifacts of human imagination. The course facilitates critical, creative, and innovative communication about the literary arts and fulfills the Creative Arts Foundational Component Area required of all students.

ENG 1318  Introduction to the Study of English Grammar (3-3-0)
Introduction to basic grammar concepts and terminology through exploration of language variation and language systems.
ENG 2300  CLEP-Analyzing and Interpreting Literature (3-0-0)
Students get credit for this course by earning an acceptable score on the Analyzing and Interpreting Literature exam of the College Level Examination Program (CLEP).

ENG 2301  Survey of World Literature: Ancient to 17th Century (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Laboratory fee: $10.
A study of literature of the world from its beginnings through the 17th century. (ENGL 2332)

ENG 2302  Survey of World Literature: 17th Century and Beyond (3-3-0)
Prerequisite: ENG 1302. Laboratory fee: $10.
A study of literature of the world from the 17th century to the present. (ENGL 2333)

ENG 2305  Literature and Culture (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Course may not be repeated.
A study of literary and cultural texts pertinent to selected topics. Sample Topics: Literature and the Environment; Literature and Gender; Literature and Mass Culture; Ethnic American Literature.

ENG 2309  Survey of Film: Beginnings to Present (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302.
A study of narrative and experimental film as a creative artifact from its late-nineteenth century celluloid beginnings through its digital form in twenty-first century.

ENG 2311  Survey of American Literature: Beginnings to 1865 (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Laboratory fee: $10.
A study of American literature from the Colonial period through the Civil War. (ENGL 2327)

ENG 2312  Survey of American Literature: 1865 to Present (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Laboratory fee: $10.
A study of American literature from 1865 to the present. (ENGL 2328)

ENG 2313  Survey of British Literature: Beginnings to 1800 (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Laboratory fee: $10.
A study of British literature from its beginnings through the 18th century. (ENGL 2322)

ENG 2314  Survey of British Literature: 1800 to Present (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302. Laboratory fee: $10.
A study of British literature from the 19th century to the present. (ENGL 2323)

ENG 2315  Literature and Film (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302.
This course will study film adaptation of literary texts in order to examine the relationship between word and image and written and visual forms of communication. The course will cover a range of approaches to narrative, form, and adaptation.

ENG 2316  Survey of Creative Writing Genres (3-3-0)
Prerequisite: Completion of, or concurrent enrollment in, ENG 1302.
A survey of literary genres, including poetry, fiction, creative nonfiction, the play (for both theatre and screen), and the graphic novel, from the point of view of the practicing creative writer.

ENG 3302  Business and Technical Report Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component Laboratory fee: $10.
Study and practice of formal and informal presentation of technical information, with emphasis on report writing.

ENG 3304  Advanced Business and Technical Report Writing (3-3-0)
Prerequisite: ENG 3302 or permission of department. Laboratory fee: $25.
Practice in writing in varied professional contexts. Special attention is given to audience and purpose, tone, logic and accuracy.

259
ENG 3305  Essay Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Study, analysis and practice of advanced rhetorical principles in non-fiction, with a view to increasing clarity, effectiveness and
precision in a student’s writing style.

ENG 3306  Introduction to Literary Theory (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of contemporary methodologies in literary criticism and practice in applying them.

ENG 3307  Shakespeare (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Reading and analysis of representative comedies, tragedies, histories and poems by Shakespeare, with special consideration of his
life and the historical context.

ENG 3308  Legal Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of the principles of analytical writing, with special emphasis on the strategies of legal persuasion and the techniques and
appropriate style of legal writing. Students will learn to brief (summarize) published cases as well as to write legal memoranda.

ENG 3309  Introduction to Creative Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Techniques of writing fiction and poetry; emphasis on the student’s own work. May be repeated once for credit.

ENG 3310  Studies in Nonfiction Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An examination of a variety of nonfiction texts, including news presentations, books, and movies.

ENG 3311  Studies in Poetry (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of poetry as a genre of literature, with emphasis on forms and styles; reading and analysis of poems from a variety of
periods.

ENG 3312  Studies in Fiction (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of short stories and/or novels. Consideration of the historical development of fiction as a genre and detailed analysis of the
elements of fiction.

ENG 3313  Studies in Dramatic Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of representative plays from ancient to modern times, with emphasis on the origins and historical development of drama and
its characteristics as a genre.

ENG 3314  Studies in Autobiography (3-3-0)
Crosslisted as HUM 3314. Credit may not be earned for both.
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of autobiographical writing, the course may analyze its forms or techniques, trace a topic or style of autobiographical
literature or investigate critical problems posed by autobiography.

ENG 3315  Studies in Science Fiction (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of the conventions, major themes and/or history of futuristic or fantasy fiction.

ENG 3316  History of Rhetoric (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An historical survey of rhetoric with emphasis upon its development as a discipline from Plato and Aristotle to the present day.
ENG 3317  Studies in the Theory of Rhetoric (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An investigation of major contemporary theories of rhetoric and composition with special attention to the implications of those theories on the practices of writers.

ENG 3318  Studies in English Grammar (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An intensive survey of the principles and problems of English grammar with emphasis on developing vocabulary and understanding necessary to identify and explain writing choices and errors.

ENG 3319  Introduction to the Study of Language (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy, and Culture Core Component Area.
An introduction to linguistic sciences. The course gives an overview of language, its use and development. Basic concepts covered are approaches to grammatical description, history, acquisition and social and regional variation.

ENG 3320  History of the English Language (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy, and Culture Core Component Area.
A study of the development of English speech, writing, spelling, syntax and vocabulary.

ENG 3321  African-American Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A survey of prose, plays and poems by African-American writers.

ENG 3322  Mexican-American Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of Mexican-American literature and its cultural traditions from pre-Columbian Mexico to the present.

ENG 3323  Technology and Literature (3-3-0)
Crosslisted as HUM 3323. Credit may not be earned for both. Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
The course may study influences of technology or science on literature, analyze how literature represents technology, or interpret literature as a reflection of social ambivalence toward technology.

ENG 3325  Medical Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
The study and practice of interpreting and incorporating findings and statistical results into clear, comprehensible and well-organized prose.

ENG 3326  Proposal Writing (3-3-0)
Prerequisite: ENG 3302.
Practice in writing and editing a series of proposals of varying scope and complexity.

ENG 3327  Visual Rhetoric and Literacy (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An introduction to the theories that help us understand and analyze visual communication and use visual technology.

ENG 3328  Documentation and Manuals (3-3-0)
Prerequisite: ENG 3302 Laboratory fee: $25.
Application of general rhetorical principles and current theory in document design to the development of procedures manuals and other documentation.

ENG 3329  Environmental Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Practice in presenting information about environmental issues as addressed by government, industry, private organizations and the
mass media.

ENG 3330  Desktop Publishing (3-3-0)
Prerequisite: ENG 3302 or concurrent enrollment in ENG 3302 or permission of department. Laboratory fee: $25.
An introduction to desktop publishing, covering specific applications of typography, graphics, layout and presentation, and using desktop publishing software.

ENG 3331  Advanced Desktop Publishing (3-3-0)
Prerequisite: ENG 3330 or permission of department. Laboratory fee: $25.
A continuation of desktop publishing techniques using additional software for more complex projects.

ENG 3332  Literary Magazine Production: The Bayou Review (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An introduction to the basic principles of literary magazine production, including editorial selection, copyediting, proofreading, design, production, and distribution. This laboratory course is required of students who produce the university's undergraduate literary and visual arts magazine, The Bayou Review. May be repeated once for credit.

ENG 3333  Writing for the Media (3-3-0)
Prerequisite: ENG 1302 and either COMM 1302 or ENG 3302.
Study and practice of writing techniques appropriate to print and broadcast media with emphasis on the relevance of these skills to managing media relations.

ENG 3334  Writing for Presentation (3-3-0)
Prerequisite: ENG 1302 and either COMM 1302 or ENG 3302. Laboratory fee: $25.
This course covers writing for the media employed for presentations in business, industry and the professions. Possible course focuses include video scripting, speechwriting and writing for slide and multimedia presentations.

ENG 3335  Publishing for the Web (3-3-0)
Prerequisite: ENG 3330 or permission of the department. Laboratory fee: $25.
An introduction to web publishing techniques using web design software. As a substitute for ENG 3331, satisfies a core requirement for professional writing majors.

ENG 3336  Writing for the Web (3-3-0)
Prerequisite: ENG 3302. Laboratory fee: $25.
An introduction to writing for the web with emphasis on structure, tone, voice, usability and navigation.

ENG 3337  Studies in Medieval English Literature and Culture (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of literature in the Old English and Middle English eras in historical context. Examines texts organized by topic, historical development, genre, or critical approach. Texts will be read in modern English translation but there will be some attention to Middle English originals, with editorial notes and assistance.

ENG 3338  Introduction to Usability (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Teaches methods for measuring the needs, wants and limitations of users in order to improve the web products that they use.

ENG 3339  Digital Media Theory (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An investigation of the history, relevant theories and implications of digital media in civil, social, educational, and/or workplace contexts.

ENG 3340  Cultural Criticism (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component. Crosslisted as HUM 3310. Credit may not be earned for both.
A survey of different ways of analyzing human culture. Students examine major schools of criticism and interpretation of society and its creative activity. This course is the gateway course for the BA in Humanities. May be repeated once for credit as topic varies.

**ENG 3341 Postcolonial Studies (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

A survey of major authors and themes in the literatures growing out of the experience of colonialism and its aftermaths.

**ENG 3342 Organizational Publications (3-3-0)**

*Prerequisite: ENG 3302.*

Introduction to organizational discourse and relevant theory and its application to designing, writing, editing and producing documents such as newsletters, white papers, annual reports and web sites. The course provides guided practice as students work individually and in teams to produce deliverables that reflect the principles of effective print and electronic communication with internal and external audiences.

**ENG 3343 Workshop in Fiction (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

The practical study of fiction and narrative. Topics may include all elements of fiction, principally in the short story and the novel and possibly other types of narrative, with consideration of storytelling through history and across cultures. Emphasis on students' own work. May be repeated once for credit.

**ENG 3344 Workshop in Poetry (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

The study of poetry and poetics, including such topics as genre, modes of invention, craft and prosody; with a consideration of poetry through history and across cultures.

**ENG 3345 Workshop in Creative Nonfiction (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

The study of aesthetic form and content in selected variations of creative nonfiction, such as personal essay, memoir, and literary journalism, with some consideration of the genre as it evolves through history and across cultures. Emphasis on student’s own work. May be repeated once for credit.

**ENG 3346 Introduction to Literary Translation (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component and permission of instructor.*

An introduction to the art of literary translation with special attention given to such issues of craft and theory as structural differences between source and target languages; the problematic of fidelity to the original text; and the translation of cultures. Emphasis on students’ own translation practice.

**ENG 3347 Studies in Early Modern British Literature and Culture (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

A study of British literature and culture in the 16th and early 17th centuries (emphasizing texts other than Shakespeare) in historical context. Organized around literary history, themes, genres, or critical approaches.

**ENG 3349 Rhetoric of Technology (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

Exploration of theories that explain how the relationship between people and technology shapes the world we live in.

**ENG 3350 Gender Studies in Literature (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

An interdisciplinary study of the social construction of gender as reflected in literature from various historical periods and from various cultures.

**ENG 3351 Children’s Literature (3-3-0)**

*Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.*

This course introduces students to children’s literature, its history, development, and uses in relation to the needs of the child and the culture.
ENG 3352  Studies in World Mythology and Folklore (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An examination of mythology, traditional tales and folklore from Western (Greco-Roman) and non-Western traditions.

ENG 3353  Social Class and Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of the role of social class in literary representation, production, and consumption.

ENG 3354  Introduction to Film Studies (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of film as narrative, either fiction or non-fiction, and organized by topic, historical development, genre, or critical approach.

ENG 3355  Young Adult Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of texts written for readers from middle school through high school. The course emphasizes the history of texts written for young adults and examines and employs various theoretical approaches to textual analysis, including cultural critique of both classic and contemporary examples.

ENG 3356  Early Cinema (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Covers the evolution of film as a communicative medium from its roots in both photography and the stage. Begins with the single-shot film screened as a novelty act in music hall theaters, continues to the edited, multi-reel feature film screened in movie theaters, and concludes with the introduction of synchronous sound at the end of the silent film era.

ENG 3357  Film Theory (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Covers critical theories specific to the academic study of cinema and popular culture. Students will study and write about film in a variety of scholarly frameworks, including classic film theory and semiotics, apparatus theory and psychoanalysis, ideological critique and theories of genre, and feminist, queer, critical race, and postcolonial theory.

ENG 3358  Studies in 18th Century British Literature and Culture (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of British literature and culture of the Long 18th Century (1660-1800) in historical context. Will cover texts of Great Britain, Ireland, and/or Commonwealth nations organized by topic, historical development, genre, or critical approach.

ENG 3362  Studies in the Literature and Culture of the Americas before 1800 (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
In-depth study of the literature and culture of the Americas before 1800 in historical context. Will cover texts about indigenous peoples, colonial texts, and early national US literature organized by topic, historical development, genre, or critical approach.

ENG 3363  Studies in 19th Century US Literature and Culture (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Study of US literature and culture of the 19th century in historical context. Will cover texts of the US organized by topic, historical development, genre, or critical approach.

ENG 3364  Studies in US Literature and Culture after 1900 (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Study of US literatures and cultures after 1900 in historical context. Will cover texts about the modern, postmodern, or 21st century US organized by topic, historical development, genre, or critical approach.

ENG 3367  Studies in 19th Century British Literature and Culture (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of British literature and culture of the 19th century in historical context. Will cover texts of Great Britain, Ireland, and/or Commonwealth nations organized by topic, historical development, genre, or critical approach.
ENG 3370  Theories in Collaborative Learning (3-3-0)
Crosslisted as HUM 3370. Credit may not be earned for both. Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Prepares students to work in a one-on-one tutoring environment and/or as an introduction to teaching English composition in high school. Theories of composition and instruction in working with students as peer tutors, writing associates and SI leaders; emphasis placed on learning about the composing and reading process, strategies for invention, organization, development, revision and editing.

ENG 3371  Public Relations Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy, and Culture Core Component Area.
A study of techniques and methods of public relations in promoting the images of organizations, corporations and institutions, both public and private.

ENG 3373  Introduction to Advertising (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy, and Culture Core Component Area.
History, theory and basic techniques of advertising, with special emphasis on the use of media in advertising campaigns and message development for media campaigns.

ENG 3377  Studies in British Literature and Culture: 20th Century and Beyond (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of British literature and culture of the 20th century and beyond in historical context. Will cover texts of Great Britain, Ireland, and/or Commonwealth nations organized by topic, historical development, genre, or critical approach.

ENG 3385  Studies in Religious Texts
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An investigation of a major religious text or texts, with special attention to their literary, rhetorical, and religious qualities, with the intention of developing familiarity and fluency with both their contents as well as the historical context of their composition.

ENG 3387  Studies in World Literature and Culture (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
Study of literary and cultural traditions from around the globe in their historical and cultural contexts. May be organized according to linguistic, national, or regional parameters, or framed as a comparative approach to an historical period, stylistic movement, or special topic. May be repeated for credit when topic varies.

ENG 3390  Topics in Technology Studies & Strategies (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component. Course may be repeated when topic varies.
Selected topics on the relationship between writing and technology. Students design and produce multimodal projects.

ENG 3399  Directed Study in English
Prerequisite: Formal approval by department chair and dean.
Intensive individual study of a selected topic under the guidance of a member of the faculty.

ENG 4098  English Portfolio (0-0-0)
Prerequisite: English major filing for graduation.
This non-credit course certifies that a degree requirement (submission of a portfolio of samples of the student’s writing) has been fulfilled by a student majoring in the BA in English. The student enrolls in ENG 4098 in the semester of anticipated graduation and submits a portfolio of about five writing projects from a range of upper level courses approved for the English major. As an introduction to these writings, the student writes a 500-word reflective essay that shows the student’s growth by explaining the choice of writings and the particular English major skills evident in each. The portfolio is graded S for being submitted or IP for not being submitted. Only a grade of S, certified by the degree coordinator, allows graduation.

ENG 4099  Professional Writing Portfolio (0-0-0)
Prerequisite: Declaring professional writing major and filing for graduation.
This non-credit course certifies that a degree requirement (submission of a portfolio of samples of the student’s writing) has been fulfilled by a student majoring in the BS in Professional Writing. The student enrolls in ENG 4099 in the semester of anticipated
graduation and submits a portfolio of about five writing projects from a range of courses approved for the PW major. Using guidelines supplied by the degree coordinator, the student provides documentation for each project. The portfolio is graded S for being submitted, or IP for not being submitted. Only a grade of S, certified by the degree coordinator, allows graduation.

ENG 4101  Proseminar in Professional Writing (1-1-0)
Prerequisite: ENG 3302.
A capstone course for Professional Writing majors; an overview of possibilities for further education and employment. Review of graduate programs and the application process; preparation for the job search, with special emphasis on assembling a portfolio.

ENG 4105  Senior Capstone Project (1-1-0)
Corequisite: Enrollment in an upper-level English course and an approved project.
A capstone course for English majors. Under the supervision of the instructor of the Corequisite course, students complete a project exemplifying creative and critical skills acquired as an English major.

ENG 4306  Science Writing (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
The study and practice of documenting, reporting and presenting science in articles, audiovisual scripts, specifications, reports and proposals.

ENG 4308  Plain Language in Government, Medical, and Business Writing (3-3-0)
Prerequisite: ENG 3302.
Practice in writing of government, medical, and business documents in plain language addressed to the general public.

ENG 4309  Advanced Creative Writing (3-3-0)
Prerequisite: ENG 3309 or permission of instructor.
Extended writing projects in poetry, fiction, and/or creative non-fiction. Emphasis on the practice of editing and publication. May be repeated once for credit, with permission.

ENG 4311  Contemporary Literature (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of the themes and techniques of prominent 20th-century writers. Readings seek to identify and explore emerging traditions in literature since 1960.

ENG 4312  Literature of the South and Southwest (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
A study of Southern or Southwestern literature, the course may focus on a literary genre, region, topic, or critical approach.

ENG 4313  Psychology through Literature (3-3-0)
Crosslisted as HUM 4313. Credit may not be earned for both. Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
The course adopts psychological theory as a methodology for studying literature and its cultural contexts.

ENG 4314  Major Authors (3-3-0)
Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.
An in-depth study of one or two significant authors. May be repeated when the authors differ.

ENG 4318  Advanced Studies in English Grammar and Style
Prerequisite: ENG 3318 or permission of the instructor.
Writers will learn how to manipulate language structure and styles and will analyze the rhetorical implications for interpretation, acceptance, and understanding by various audiences.

ENG 4322  Editing, Rewriting and Copyreading (3-3-0)
Prerequisite: ENG 3302 or permission of department.
Fundamentals of editing for printed and digital media. Studies in clarity, concision, accuracy, grammar and stylebook conventions. Projects include rewriting, copyediting and copy reading documents of varying complexity.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 4323</td>
<td>Feature Writing for Business and Industry (3-3-0)</td>
<td>Prerequisite: ENG 3302 or permission of department.</td>
<td>Procedures in recognizing ideas and gathering material for feature stories for business and industry; analysis of reader appeal; study of feature story structure; development of style in writing feature stories.</td>
</tr>
<tr>
<td>ENG 4324</td>
<td>Seminar in Ethnic Studies</td>
<td>Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.</td>
<td>Specialized investigation of the role of ethnicity in literary representation and in culture. May be repeated when topic varies.</td>
</tr>
<tr>
<td>ENG 4327</td>
<td>Advanced Film Studies (3-3-0)</td>
<td>Prerequisite: ENG 3354 Introduction to Film Studies or permission of instructor.</td>
<td>Special topics in advanced film studies. May be repeated when topic varies.</td>
</tr>
<tr>
<td>ENG 4330</td>
<td>Senior Seminar in the Humanities (3-3-0)</td>
<td>Crosslisted as HUM 4350. Credit may not be earned for both. Prerequisite: Senior standing and 18 upper-level hours in the humanities, including HUM 3310/ENG 3340.</td>
<td>A review of key issues in interpretation and understanding from philosophy, literature, history and the arts. The aims is to provide students with the means for synthesizing their studies in the liberal arts. This course is the capstone for the BA in Humanities.</td>
</tr>
<tr>
<td>ENG 4339</td>
<td>Video Game Story Writing</td>
<td>Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy, and Culture Core Component Area.</td>
<td>Study and practice of narrative script writing and associated writing tasks performed by the story writer in the development of video games.</td>
</tr>
<tr>
<td>ENG 4340</td>
<td>Social Media Writing (3-3-0)</td>
<td>Prerequisite: ENG 3302.</td>
<td>An introduction to new media and social networking concepts, issues and techniques.</td>
</tr>
<tr>
<td>ENG 4341</td>
<td>Seminar in Postcolonial Studies (3-3-0)</td>
<td>Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.</td>
<td>A seminar examining the historical legacy of imperialism as reflected in the literature and culture of a specific region.</td>
</tr>
<tr>
<td>ENG 4350</td>
<td>Advanced Gender Studies (3-3-0)</td>
<td>Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component.</td>
<td>Specialized investigation of the role of gender in literary representation and in culture.</td>
</tr>
<tr>
<td>ENG 4360</td>
<td>Publications Workshop (3-3-0)</td>
<td>Prerequisite: ENG 3302.</td>
<td>This course provides students an opportunity to gain hands-on print production experience. Working in the offices of student publications or other appropriate environments, students will write, edit and produce materials for publication, using word processing, graphics and electronic pagination software to prepare camera-ready materials.</td>
</tr>
<tr>
<td>ENG 4380</td>
<td>Field Experience in English</td>
<td>Prerequisite: Departmental approval, ENG 3330, and ENG 3304 or ENG 4322.</td>
<td>Placement of selected students in jobs involving professional writing within the public or private sector. Jobs may be paid or unpaid. Written reports, conferences with the instructor and other academic work are required. May be repeated once for credit.</td>
</tr>
<tr>
<td>ENG 4390</td>
<td>Topics in Language and Literature (3-3-0)</td>
<td>Prerequisite: Successful completion of ENG 1302 and the Language, Philosophy Culture Core Component and junior standing.</td>
<td>Selected topics in language and/or literature. May be repeated when topic varies.</td>
</tr>
<tr>
<td>ENG 4680</td>
<td>Field Experience in English</td>
<td>Prerequisite: ENG 3302, 3318, plus one Research course and one Software course as defined in the PW degree plan.</td>
<td>Placement for six hours credit of selected students in jobs involving professional writing within the public or private sector. Jobs may</td>
</tr>
</tbody>
</table>
be paid or unpaid. Written reports, conferences with the instructor and other academic work are required.

**ENGR (Engineering)**

**ENGR 1302**  
Engineering and Technology Fundamentals (3-3-0)  
*Prerequisite: Credit or enrollment in MATH 1302.*  
Overview of techniques and fundamental principles used in engineering, science and technology. Topics include: dimensional analysis and units, measurements, representation of technical information, problem solving, and introduction to selected science and engineering topics.

**ENGR 1400**  
PC Applications in Engineering (4-3-1)  
*Prerequisite: MATH 1301.*  
Application of PC hardware and software to engineering problems. Data acquisition and computational methods for control systems, structures, and piping systems. Intensive use of the NSF sponsored laboratory for data acquisition, transmission and analysis of data. Modern computational approach to solids-fluids mechanics, and heat transfer.

**ENGR 1401**  
Engineering Graphics and Visualization with Lab (4-1-3)  
*Prerequisite: MATH 1302.*  
Introduction to graphics, with emphasis on drafting techniques: use of instruments, lettering, geometric constructions, multiview projections, auxiliary views, sectional views, sketching drawings for electrical, piping and structural applications. Introduction to computer-aided drafting.

**ENGR 1402**  
Fire and Safety Hazard Recognition with Lab (4-1-3)  
*Prerequisite: MATH 1302.*  
Physical, chemical, electrical, and natural hazards and their relationship to loss of property and/or life. Safe location, storage, transportation and handling practices to eliminate or control the risk of fire and other hazards in the home, business and industry. Experiments and computer simulations.

**ENGR 2304**  
Computer-Aided Drafting and Design I (3-1-2)  
*Prerequisite: ENGR 1302, MATH 1301 and ENG 1301.*  
An introduction to Computer Aided Drafting and Design (CADD) systems commonly used in industry. Topics include introduction to CADD systems, basic drawing and editing commands, drawing annotations, dimensioning, cross hatching, creation and use of drawing symbols, generation of engineering drawing and drawing database.

**ENGR 2407**  
Surveying with GIS-GPS (4-2-2)  
*Prerequisite: MATH 1302, ENGR 2304.*  
Field training in use of electronic measurement devices, total stations and global positioning systems (GPS) applied to construction projects. Field recording of data, uploading to computers for analysis using geographic information systems (GIS). Computation of areas and construction volumes. Downloading data for field layout. Surveying applied to flood prevention and environmental measurements. (ENGR 1407)

**ENGR 2308**  
Statics (3-3-0)  
*Prerequisite: MATH 2401 and corequisite PHYS 1307.*  
Concepts of forces, moments, vectors, couples, friction, first and second moments of area, equilibrium of two-and three-dimensional force systems and their application to analysis of frames and trusses.

**ENGR 2409**  
Mechanics of Materials with Lab (4-3-1)  
*Prerequisite: PHYS 1307 and corequisite MATH 2401.*  
Study of elastic bodies, stresses and strains, axial loads, torsion, beam stresses, beam deflections, combined stresses, columns, connections and behavior of materials under tension, compression and torsional loading. Study of thermal properties of materials. Applications of instrumentation.

**ENGR 2410**  
Analysis of Engineering Networks with Lab (4-3-1)  
*Prerequisite: MATH 2401.*  
This course applies energy principles of thermodynamics, fluid mechanics and electric circuits to the analysis of common engineering networks. Piping systems, electric circuits and structural networks are studied under basic principles of conservation

**ENGR 2411  Modern Methods of Engineering Analysis (4-4-0)**  
*Prerequisite: MATH 2401 or departmental approval.*  
This course presents classical and modern methods of engineering problems. Extensive use of practical problems illustrates the different methods of engineering analysis.

**ENGR 3302  Engineering Economics (3-3-0)**  
*Prerequisite: ENG 1302, MATH 1301 and junior standing.*  
Time value of money, annual cost, present worth, future value, capitalized cost, break-even analysis, valuation and depreciation, income taxes. Economic evaluation of engineering alternatives and proposals. Use of spreadsheets. Introduction to optimization.

**ENGR 3307  Applied Thermodynamics and Heat Transfer (3-3-0)**  
*Prerequisite: MATH 2401, CHEM 1307, PHYS 1307 or Departmental approval.*  
An introduction to applied thermodynamics and heat transfer with engineering applications. Topics on thermodynamics include: closed and open systems; properties of a pure substance; ideal gas law; the first and second thermodynamic laws; enthalpy, entropy, basic cycles; psychrometrics, and thermodynamics of fire. Topics on heat transfer include mechanisms of heat transfer such as convection, conduction and radiation, and heat exchangers.

**ENGR 3308  Fluid Mechanics (3-3-0)**  
*Prerequisite: MATH 2401.*  
Fluid properties, fluid statics, flow concepts and basic equations, viscous effects, laminar and turbulent flow, pipe flow, momentum equation and energy equation. Use of software in designing flow systems. Applications to fire prevention systems.

**ENGR 3310  3-D Fire Modeling (3-3-0)**  
*Prerequisite: ENGR 1302, ENG 1302, and MATH 1301.*  
Fire modeling of selected problems using the Fire Dynamics Simulator and SmokeView software packages. Topics covered include how to set dimensions from working drawings, determine cell number and size, nature of fire/flame spread, using slice files to confirm air movement, defining the initial fire, material properties, collecting and displaying information, and the effect of sprinkler placement.

**ENGR 3311  Structural Analysis I (3-3-0)**  
*Prerequisite: ENGR 2308, ENGR 2409.*  

**ENGR 3312  Reinforced Concrete Design (3-3-0)**  
*Prerequisite: ENGR 2308, ENGR 2409.*  
Analysis and design procedures based on ultimate load capacity based on the ACI Code, effects of creep, shrinkage, and temperature, torsional stresses and study of deflections. Computer applications to concrete design and program development. Behavior of concrete members under fire and explosion conditions.

**ENGR 3320  Principles of Fire Protection Chemistry and Physics (3-3-0)**  
*Prerequisite: ENG 1302 and MATH 1301.*  
A conceptual review of selected fundamentals of chemistry and physics that are most relevant to fire. Descriptions of the fire characteristics of materials (gases, liquids, and solids), the properties of combustion products (temperature, smoke, toxicity, and corrosivity), fire extinguishing agents and procedures, and the movement of smoke.

**ENGR 3321  Soil Mechanics w/Lab (3-2-1)**  
*Prerequisite: ENGR 2409.*  
ENGR 3322  Structural Analysis II (3-3-0)
Prerequisite: ENGR 3311.
Finite element analysis of structures. Numerical and matrix techniques and their relationships to classical energy and differential
Nondestructive evaluation of structures. Vibrations of structures. Finite element analysis of structures exposed to high temperatures.
Practical training in industrial FEA codes. Program development.

ENGR 3329  Concrete Technology with Lab (3-2-1)
Prerequisite: CHEM 1307 and ENGR 1400.
The course studies the properties of cement, aggregates, chemical admixtures, water/cement ratio, and proportioning of mixtures
needed to make a sustainable concrete, with the strength, weight, durability, and performance required. The normativity about
handling fresh concrete, formwork, quality control, testing, and inspection of concrete structures is illustrated and analyzed.
Students are involved in research with by-product materials used to replace cement or aggregates, obtaining the engineering
properties and behavior of the resultant concrete along the time.

ENGR 3330  Fire Alarm Signaling Systems (3-2-1)
Prerequisite: MATH 1301.
The design, installation, maintenance and utilization of portable fire-extinguishing appliances and pre-engineered systems.
Operational capabilities and utilization requirements of fire detection and signaling systems. Fire detection and suppression applied
in practical problems. Experimental demonstrations and computer simulation of hazard detection systems.

ENGR 3340  National Fire Alarm Code Concepts and Signaling Applications (3-3-0)
Prerequisite: MATH 1301 and junior standing.
Study of the concepts and applications of the National Fire Alarm Code for the design, installation, and testing of fire alarm systems.
Demonstrations and computer simulation of fire alarm systems. Use of computer simulation software in design applications.
Overview of background material that leads to National Fire Alarm and signaling Code system compliance and individual
certification.

ENGR 3345  Automatic Fire Suppression Systems (3-3-0)
Prerequisite: ENGR 3308.
Detailed current standards for selection, design, installation, operation, and maintenance of automatic fire suppression systems.
Experiments and computer simulations.

ENGR 3346  Offshore Fire Safety and Inspection (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Health and Safety Legislation and Regulations. Accident and Incident Investigation. Risk Assessment. Theory and Practice of
Safety Auditing/Inspection. Duties and responsibilities of the Safety Officer. Key ISM Code Requirement & implementation

ENGR 3350  Construction Safety (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Study of Occupational Safety and Health Administration regulations pertinent to the construction industry.

ENGR 3351  Accident Investigation and Root Cause Analysis (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Study of integrating accident or near miss investigations as an effective, practical, and even a profitable, management tool.
Incorporates systematic, procedural, determinative, and corrective applications for investigative accident management.

ENGR 3352  Emergency Management and Contingency Planning (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Addresses emergency planning and management from a facility level. Provides a basis for systematically identifying and evaluating
the hazards that create the potential for disaster, along with guidelines for mitigating and minimizing the impact of those events.
Strategic guide to preparing for and recovering from any emergency or disaster.

ENGR 3365  Fire Protection for Power Plants (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Study of the concepts and applications of fire protection for electrical, nuclear and hydroelectric generating plants that includes the design, installation and testing of plant fire protection systems. Use of computer simulation and applications.

ENGR 3370  Fire Protection Law (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Introduction to legal issues in the engineering field. Topics include general contract law, intellectual property rights, tort law and other issues encountered in the practice of safety management & fire protection engineering.

ENGR 3371  Process Fundamentals for BAAS in AA (3-3-0)
Prerequisite: Junior standing or departmental approval.
This course is intended for students pursuing a BAAS degree in Applied Administration with Concentration in Engineering Technology. The course provides an introduction to material and energy balances in engineering applications, including chemical, environmental and biological systems. Conservation of mass, first law of thermodynamics, and the use of computer based tools to solve simple engineering problems are considered.

ENGR 3375  Radiation Safety (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
A study of radiation protection, including concepts of radioactive decay, interactions of radiation with matter, dose calculation methods, shielding calculations, and radiation protection guidelines. Emphasis on NORM (naturally occurring radiological materials) concerning proper handling, storage, and disposal of waste from oil and gas exploration sites.

ENGR 3380  Occupational Safety Techniques (3-3-0)
Prerequisite: ENG 1302 and MATH 1301.
Occupational facilities, equipment and operations and their inherent hazards. Directed toward worker, machine and environmental control. Equipment demonstrations and computer simulation of safe equipment operation.

ENGR 3403  Process Piping Design for Offshore Installations (4-3-1)
Prerequisite: ET 3402.
A continuation of ET 3402 Process Piping Design II. This course applies the concepts and practices of process piping design to offshore installations.

ENGR 3404  Digital Signal Processing with Lab (4-2-2)
Prerequisite: ENGR 1400 and EET 2421.
Analysis of discrete time signals and systems. Three key aspects will be addressed: sampling signals, frequency response, filter design and implementations. Both PC based and special purpose processor DSP systems will be used. Case studies of DSP applications in audio, communication, and biomedical systems.

ENGR 3407  Industrial Robotics with Lab (4-3-1)
Prerequisite: Departmental approval.
This course addresses the problem of controlling robots that operate in dynamic, unpredictable environments. Students, in pairs, build their own robot, and program it to perform a variety of simple tasks. In addition, the course covers the major paradigms of robot programming and studies architectures for building perception and control systems for intelligent robots. Applications to industrial and medical systems.

ENGR 3410  Process Modeling and Simulation (4-3-1)
Prerequisite: MATH 2401, CHEM 1307, PHYS 1307 or departmental approval.
An introduction to material and energy balances in engineering applications, including chemical, environmental and biological systems, engineering problem solving, the equilibrium concept and first law of thermodynamics. Use of computer based tools to simulate process behavior.

ENGR 4310  Industrial Hygiene Instrumentation (3-3-0)
Prerequisite: ENG 1302 and MATH 1301 and junior standing.
Toxic or irritating substances, physical, biological, ergonomic and other occupational stress factors causing employee illness or discomfort. Environmental pollution sources and controls. Description, operation and application of quantitative instruments in general use in industrial hygiene. Computer simulation of industrial environments.
ENGR 4321 Structural Steel Design (3-3-0)
Corequisite ENGR 3311.

ENGR 4322 Foundation Design (3-3-0)
Prerequisite: ENGR 3321, ENGR 3312.

ENGR 4323 Engineering Seminar (3-3-0)
Prerequisite: Senior standing and department approval.
A self-enrichment and professional development course essential for a successful career after graduation. Students are required to make oral presentations and submit written reports and essays on topics emphasizing ethical and international dimensions of the engineering profession. Class participation and case discussions are emphasized.

ENGR 4326 Dynamics of Structures (3-3-0)
Prerequisite: ENGR 4321 or corequisite ENGR 3322.
Dynamic behavior of structural systems including structure and foundations. Finite element approach to the determination of natural frequencies and modes of vibration of structural systems. Dynamic behavior under dynamic forces including wind, earthquake, wave and vehicle actions. Linear and yielding structural systems. Control of structures under the action of dynamic forces. Electronic control systems.

ENGR 4328 Senior Project in Control and Instrumentation (3-0-3)
Prerequisite: EET 3451 and a C or better in EET 3435 and department approval.
This is a capstone course for students majoring in Control and Instrumentation Electronics Design. Students will work on comprehensive projects related to the design and implementation of control systems with complexity comparable to current industrial practice. The projects require the combined application of sensors/transducers, actuators and control elements, and industrial controllers implementation. The project work will be evaluated by a formal written report and an oral presentation.

ENGR 4330 Systems Safety Management (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and ENGR 3380.
Fire and other hazards/safety techniques to recognize, evaluate and control potential occupational hazards. Critical path, LAD, PERT and human factors concepts. Computer simulations.

ENGR 4350 Industrial Loss Prevention (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and junior standing.
Specific industrial processes, equipment, facilities and work practices for detecting and controlling potential hazards. Computer simulation of hazard detection.

ENGR 4355 Industrial Safety (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and ENGR 3380.
Principles of fire dynamics, heat transfer and thermodynamics are combined with a general knowledge of automatic detection and suppression systems to analyze fire protection requirements for generic industrial hazards. Topics covered include safety separation distances, plan layout, hazard isolation, smoke control, warehouse storage and flammable-liquid processing and handling. Historic industrial fires influencing current practice on these topics are also discussed.

ENGR 4360 Advanced Safety and Fire Problems (3-0-3)
Prerequisite: ENG 1302, MATH 2401; and C or better in ENGR 3310, 3345; and credit or enrollment in ENGR 4411.
This is a capstone course for students majoring in FPET. Students will work on comprehensive projects related to selected fire related problems and conduct research in state-of-the-art technologies to prevent or correct such problems. Students will utilize computer software to simulate selected hazard conditions. The project work will be evaluated by a formal written report and an oral presentation dealing with the application of fire protection and/or analysis.
ENGR 4370 Human Factors in Fire and Safety (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and junior standing.
Case study of the influence of human behavior in life losses during hazardous situations. Cases include flood, tornado, fire, and explosions.

ENGR 4375 Security of Computing Systems (3-3-0)
Prerequisite: ENG 1302, MATH 1301, ENGR 1400 and junior standing.
Security of hardware and software systems. Case study of information losses due to fire, flood and tornado. Software safety cases including viruses and distortion of code and data integrity.

ENGR 4381 Safety and Violence (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and credit or enrollment in ENGR 4355.
Study of procedures to analyze, mitigate, and prevent safety hazards resulting from terrorism involving industrial chemicals and other warfare devices. Training in procedures to identify key information such as potential threats, and impacts on human health and infrastructure. Implementation of mitigation and prevention methods in cases of violence. Development of emergency response and training exercises to violent situations.

ENGR 4385 Scheme Management in Industrial Safety (3-3-0)
Prerequisite: ENG 1302, MATH 1301 and ENGR 4355.
Comprehensive introduction to software as a tool for planning and executing safety schemes of small and large magnitude. Grounded in the concepts of best practices of safety scheme management, this course will lead participants through defining tasks, scheduling milestones, and assigning both personnel and financial resources necessary to implement a safety scheme. Participants will also learn how to create and customize specific reports.

ENGR 4402 Process Design and Operation (4-3-1)
Prerequisite: Grade of C or better in ENGR 3410.
Computer-aided design and operation of major industrial processes. Course involves modeling, simulation, and optimization of major processes from several industrial sectors. Students will develop experience through projects using the AspenTech Engineering Suite of Tools, a state of the art software package widely used within the manufacturing industry for process modeling, simulation, and economic analysis.

ENGR 4406 Process Control Systems (4-3-1)
Prerequisite: Grade of C or better in EET 3435; and MATH 2402 or ENGR 2411.
Learn the scientific and engineering principles underlying process dynamics and control. Apply and integrate knowledge of engineering to identify, formulate, and solve process control problems. Use and apply modern computational techniques and tools for solving process control problems. Become familiar with industrial control systems.

ENGR 4411 Structural Design for Fire Safety (4-3-1)
Prerequisite: ENGR 3311.
Analysis and design of structures under fire that threatens human life. Introduction to fires and fire safety. Contribution of structural fire resistance to overall fire safety. Application of fire computer models to the design of structures safe for human occupancy. Fire performance of structural materials.

ENGR 4420 Fire Dynamics (4-3-1)
Prerequisite: Senior standing.

ENGR 4427 Structural Wood Design (4-3-1)
Prerequisite: ENGR 3311.
The course covers the main aspects of wood structures. The students will have knowledge about the design criteria; design loads; properties of wood and lumber grades; design of beams, columns, and trusses; design of diaphragms and shear walls; design of wood connections. Laboratory experiments are used to complement the instruction.
ENGR 4428 Construction Management (4-3-1)  
Prerequisite: ENGR 3321, ENGR 3302.  
The course covers the main aspects of structural construction. Students will have knowledge about construction materials and quality control; methods and equipment for construction; construction management and cost estimating; project bids and contracts; techniques of planning scheduling and control; personnel and project administration; Building Information Management – BIM-applied to structural construction. Students will have field trips to construction projects and presentations by invited lecturers from industry. The course includes a semester project.

ENGR 4435 Senior Capstone Project (4-2-2)  
Prerequisite: ENGR 3312, ENGR 4321, ENGR 4322.  
Conception, analysis, and design of complex structures. Application of finite element analysis, CAD, and foundation engineering to structural design. May include analysis and design of new or existing structures, laboratory test of structural models, find the engineering properties of novel materials, forensic engineering, sustainable design, and other topics relevant to Structural Analysis and Design. Includes construction drawings, specifications, structural composites, cost estimates, project management, field trips, and presentation of the results.

ENGR 4438 Safety Instrumented Systems (4-3-1)  
Prerequisite: Grade of C or better in EET3435 and EET3451.  
Safety Instrumented Systems (SIS) play a vital role in providing the protective layer functionality in many industrial process and automation systems. Basic concepts, analysis methods, implementation practices, and the whole safety lifecycle are studied in this course. Relevant industry standards are also introduced in conjunction with case studies.

ESL (English as a Second Language)

ESL 3105 Standards for ESL Education (1-1-0)  
Examines the Texas English Language Proficiency Standards (ELPS) and English as a Second Language (ESL) instruction methods, which promote English language development and learning in the content areas. Infuses multicultural/multilingual education in all content areas.

ESL 3206 Theories and Standards for ESL Education (2-2-0)  
Examines the rationale, goals, and objectives of English as a Second Language (ESL) programs as well as current research concerning the foundations of ESL education that contributes to a multicultural/multilingual learning environment for grades 4-8 English Language Learner (ELL) population. Explores the role of the teacher in facilitating family and community involvement in ELL education.

ESL 3301 Teaching English Language Learners (3-3-0)  
Introduction to the foundations of ESL education, cultural awareness, and family and community involvement in teaching English language learners.

ESL 3302 Instruction and Assessment of English Language Learners (3-3-0)  
Introduction to concepts of second language acquisition, English language concepts, and instructional and assessment strategies for English language learners.

ESL 3303 Instruction and Assessment of English Language Learners EC-8 (3-3-0)  
Prerequisites: Declared urban education major, core complete.  
This course examines English as a Second Language (ESL) teaching methods and formal and informal assessment procedures and instruments for English language learners (ELLs) in grades EC-8. Additionally, the course addresses the processes of first- and second-language acquisition and fundamental English language concepts, structure, and conventions.
ET 3308   Materials Science (3-3-0)
Prerequisite: MATH 2401.
The physical, mechanical, thermal, magnetic, electrical and chemical properties and their relation to atomic, molecular and crystalline structure of materials. Introduction to processing of materials and their testing. Applications of material science in engineering. New frontiers in materials technology. Criteria for selection and use of materials. Safety criteria for section of materials.

ET 3320   Modern Concrete Technology (3-2-1)
Prerequisite: Junior standing.

ET 3399  Directed Study in Engineering Technology
Prerequisite: Approval of department chair and dean.
Intensive individual study under the guidance of a member of the Engineering Technology faculty.

ET 4307  Fluid Mechanics II (3-3-0)
Prerequisite: ENGR 3308 or department approval.
Dimensional analysis, surface resistance, boundary layer theory, drag, lift, turbo machinery, including pumps, compressors, turbines, fluid measurements, channel flow.

ET 4320  Prestressed Concrete (3-3-0)
Prerequisite: ENGR 3312.

ET 4323  Technology Seminar (3-3-0)
Prerequisite: Graduating seniors or department approval.
A self-enrichment and professional development course essential for a successful career after graduation. Students are required to make oral presentations and submit written reports and essays on topics emphasizing ethical and international dimensions of the engineering profession. Class participation and case discussions are emphasized. Industrial safety considerations.

ET 4324  Senior Concrete Design Project (3-2-1)
Prerequisite: ENGR 3312.
Conception, analysis and design of complex concrete structures. Application of prestressed concrete, finite element analysis, CADD and foundation engineering to structural design. Includes construction drawings, specifications, cost estimates project management and field trips.

ET 4325   Senior Steel Design Project (3-2-1)
Prerequisite: ENGR 4321.
Conception, analysis and design of complex street and composite structures. Application of finite element analysis, AutoCAD and foundation engineering to structural design. Includes construction drawings, specifications, structural composites, cost estimates project management and field trips.

ET 4380  Field Experience in Engineering Technology
Prerequisite: Department approval.
Field Experience integrates theory learned in the classroom with practical work experience in a job related to the student’s academic and professional goals. The work experience and the academic experience must be directly related. For additional details, inquire in the Career Development Center (Room S402).
ET 4390  Special Topics in Engineering Technology
Prerequisite: Department approval.
Extensive study of one or more topics in Engineering Technology. Course may be repeated for credit with departmental approval.

ETC (Educational Technology)

ETC 3301  Educational Technology (3-1-2)
An instruction to instructional technology appropriate for young children and adolescents. Examples of computer-based instructional tools that support interactive learning will be discussed. Provides a conceptual framework for understanding the design of multimedia courseware as well as the opportunity for hands-on experience with a variety of software packages.

FIN (Finance)

FIN 1301  Personal Finance (3-3-0)
Prerequisite: Credit or enrollment in MATH 1300.
This course addresses all financial decisions a person will make over his/her lifetime. Topics covered would include choice of personal insurance, investments, retirement planning, purchase of long-term assets, etc.

FIN 1330  Financial Literacy from Social and Behavioral Perspectives (3-3-0)
Financial Literacy from Social and Behavioral Perspectives will introduce personal financial literacy and social responsibility. The course will focus on the financial decision-making process, emphasizing spending, saving, and the use of consumer credit. The course will address current issues and best practices in personal financial management and will explain how these issues interact with society, and impact the behavioral patterns of consumers.

FIN 2301  Principles of Real Estate (3-3-0)
Prerequisite: MATH 1300.
An introduction to all phases of real estate: ownership, appraisal, law, financing, land use analysis, taxation, investments and property management. Operation of the real estate market, urban growth, city structures and land use planning are also studied. (REAL 1301)

FIN 3301  Small Business Finance (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ECO 2301 and ACC 2302.
Application of basic financial management principles to the small business with particular emphasis to access of funds, venture capital and efficient management of cash and working capital.

FIN 3302  Business Finance (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ACC 2302, ECO 2301, ECO 2302, completion or enrollment in STAT 3309, and completion or enrollment in BA 3300.
Application of financial management techniques to profit-oriented organizations: measuring of needs for business funds, acquiring business funds, investing business funds and elements of international finance.

FIN 3305  Money, Markets and Institutions (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, ECO 2301 and ECO 2302.
This course discusses the basic objectives of financial institutions in light of industry structure and regulatory environment. The course focuses on how financial markets are organized, their role in the allocation of funds to various market segments, and interaction between markets. Topics include aggregate flow of funds analysis; and money, government, corporate, and mortgage markets.

FIN 3306  Treasury Risk Management (3-3-0)
Prerequisite: FIN 3302.
This course provides an extensive overview of the functions, processes and best practices in the corporate treasury management field. Topics covered in this course include: the relationship between treasury activities, broader financial decisions, and firm value; the Federal Reserve System and its role in providing liquidity in the financial system; cash forecasting techniques; procedures and
regulations associated with international payment systems. This course will prepare the student for the Certified Treasury Professional (CTP) credential.

FIN 3309  Quantitative Methods in Finance (3-3-0)
Prerequisite: A grade of C or better in STAT 3309.
Advanced quantitative and statistical techniques used for analysis and research purposes in the area of finance and investments.

FIN 3311  Real Estate Valuation (3-0-0)
Prerequisite: Completion of the common core plus 18 additional hours.
Introduction to the fundamental principles of real estate valuation. Identification of the elements of economics and urban land economics which underlie the theory of value for real estate. The course emphasizes and analyzes the steps in real property appraisal from elementary analysis to sophisticated income property analysis.

FIN 3312  Management of Real Property (3-0-0)
Prerequisite: FIN 2301.
Management techniques applicable to income producing properties. Special emphasis on leases, lease negotiations, ownership, insurance, taxation of industrial and commercial properties.

FIN 3313  Real Estate Finance (3-0-0)
Prerequisite: FIN 3302.
A study of real estate financing topics from both lender’s and equity investor’s viewpoints, with emphasis on analyzing residential and income properties. Various types of financing are considered and analyzed with respect to specific property types: residential, apartments, shopping centers, office buildings, industrial properties and special use properties. Includes computer applications.

FIN 3314  Intermediate Corporate Finance (3-3-0)
Prerequisite: FIN 3302.
This course focuses on the financial management of both publicly held and private corporations. Students are presented with a conceptual framework for understanding and addressing problems commonly faced by corporate decision-makers and are provided opportunities to apply these concepts to contemporary business situations. Topics covered include, but are not limited to: time value of money, the relationship between risk and return including the capital asset pricing model, the valuation and role of debt, equity and financial options, capital budgeting techniques, cost of capital, cash flow estimation and financial statements forecasting, and capital structure decisions.

FIN 3399  Directed Study in Finance
Prerequisite: Formal approval by department chair and dean.
Selected topics in finance; intensive individual study under the guidance of a member of the finance faculty.

FIN 4301  Cases in Managerial Finance (3-3-0)
Prerequisite: FIN 3302.
The case method approach is used to provide a learning experience through the simulation of decision-making in a managerial finance setting.

FIN 4303  International Finance (3-3-0)
Prerequisite: FIN 3302.
This course addresses the area of finance in the international context. This course will help students understand international financial markets, international business finance and international investments.

FIN 4304  Commercial Bank Management (3-3-0)
Prerequisite: FIN 3302.
Institutional policies and their interrelationships; acquisition and management of funds, maximizing earnings consistent with an acceptable degree of risk.

FIN 4305  Investments (3-3-0)
Prerequisite: FIN 3302.
Principles, types and forms of investments; supply and demand for funds; characteristics of securities; federal, state and municipal bonds; analysis of securities; and the movement of security prices.
FIN 4306   Employee Benefits and Retirement Planning (3-3-0)
Prerequisite: FIN 3302.
Pension plan design, other employee benefits, social security benefits and financial planning for employee retirement.

FIN 4307   Derivative Securities (3-3-0)
Prerequisite: FIN 4305.
An introduction to the rapidly expanding derivatives market. The course explores hedging techniques through the use of options, futures and swaps.

FIN 4309   Advanced Financial Management (3-3-0)
Prerequisite: FIN 3302 and senior standing.
This course provides an extensive coverage of corporate finance theory and the applicability of this theory, for the financial manager. Topics include capital budgeting under uncertainty, capital structure decisions, dividend policy; implications of financial market efficiencies for management, the market for corporate control and restructuring bankruptcy.

FIN 4310   Portfolio Management (3-3-0)
Prerequisite: Credit or enrollment in FIN 4305.
Investment practices of financial institutions: commercial banks, savings and loan associations, credit unions, pension funds, life insurance companies and investment companies. Focus on portfolio practices to maximize yield, subject to liquidity and regulatory constraints.

FIN 4311   Income Property Valuation (3-3-0)
Prerequisite: FIN 3311.
Advanced course in appraisal of income producing properties. Topics include analysis and decision-making, problem solving techniques and research designs for the appraisal of properties. Statistical applications will be stressed with computer applications.

FIN 4316   Real Estate Investments and Taxation (3-0-0)
Prerequisite: FIN 3302.
Real estate investment decisions and the variables which affect real estate values. Mathematical techniques and application, utilizing computer financial models for real estate investment analysis.

FIN 4320   Financial Planning (3-3-0)
Prerequisite: FIN 3302.
Elements of personal finance, investments, insurance, retirement and estate planning.

FIN 4380   Field Experience in Finance
For more information and qualifications see the Field Experience in the College of Business section of this catalog and/or the department chair for your major.

FIN 4390   Special Topics in Finance (3-3-0)
Prerequisite: Junior standing.
Topics of special or current interest in the area of finance taught by faculty or visiting lecturers who possess a special area of expertise.

FREN (French)

FREN 1401   Elementary French I (4-3-1)
Laboratory fee required: $10.
Should not be taken by native speakers of French or by students with two or more years of high school French. Instruction in understanding, speaking, reading and writing French with emphasis on grammatical structures. (FREN 1411)

FREN 1402   Elementary French II (4-3-1)
Prerequisite: FREN 1401 or equivalent. Laboratory fee required: $10.
A continuation of FREN 1401, with emphasis on speaking and listening skills. Should not be taken by native speakers of French or
by students with two or more years of high school French. (FREN 1412)

**FREN 2301  Intermediate French I (3-3-0)**
*Prerequisite: FREN 1402 or equivalent.*
Should not be taken by native speakers of French. Grammar review with continued emphasis on oral and listening skills and increased attention to writing and reading. (FREN 2311)

**FREN 2302  Intermediate French II (3-3-0)**
*Prerequisite: FREN 2301 or equivalent.*
Should not be taken for credit by native speakers of French. Continuation of FREN 2301, with more emphasis on writing and reading skills. (FREN 2312)

**FREN 3399  Directed Study in French (3-3-0)**
*Prerequisite: Junior standing; formal approval by department chair and dean; cumulative GPA of 3.0 and GPA of 3.3 in the specific area of directed study.*
Selected topics in the field; intensive individual study under the guidance of a faculty member.

---

### GEOG (Geography)

**GEOG 1301  Introduction to Geography (3-3-0)**
This course provides the student with exposure to the basic concepts and subdivisions of the discipline of Geography. In addition to providing basic literacy in the discipline, the course shows how an understanding of geography aids one’s ability to evaluate the reasons behind the physical patterns of contemporary life. (GEOG 1300)

**GEOG 1302  World Geography (3-3-0)**
Key geographic topics of location, population, political status, natural environment, economy, potentialities and problems as they relate to major geographic regions are discussed. (GEOG 1303)

**GEOG 4390  Special Topics in Geography (3-3-0)**
*Prerequisite: Junior standing or consent of instructor.*
Selected topics in geography. Course may be repeated for credit when topics vary.

---

### GEOL (Geology)

**GEOL 1105  Physical Geology Laboratory (1-0-3)**
*Prerequisite: Credit or enrollment in GEOL 1305*
Experiments in geology to accompany GEOL 1305

**GEOL 1106  Historical Geology Laboratory (1-0-3)**
*Prerequisite: GEOL 1105 and credit or enrollment in GEOL 1306.*
Experiments in geology to accompany GEOL 1306.

**GEOL 1304  Introduction to Meteorology (3-2-2)**
An integrated lecture/laboratory course for non-science majors. This course will focus on the study of the atmosphere – its composition, structure and properties with emphasis on the processes responsible for weather, climate controls and change and the impact of atmospheric phenomena on society. Students will collect, analyze and synthesize online, real-time weather data in order to understand current weather conditions and be able to make predictions of future weather circumstances.

**GEOL 1305  Physical Geology (3-3-0)**
*Corequisite: GEOL 1105.*
Study of the materials that make up the crust of our planet, evolution of landforms, structure and earth movements, including plate tectonics and the gross structure of the earth.
GEOL 1306    Historical Geology (3-3-0)
Prerequisite: GEOL 1305/1105 and credit or concurrent enrollment in GEOL 1106.
Study of concepts about the Earth and its history from ancient to modern times, and development of the geological time scale. Includes examination of how geologists interpret geological time and the coevolution of our planet and the life on it.

GEOL 1307    Planet Earth (3-2-2)
An integrated lecture-laboratory approach to physical geology for non-science majors that will employ traditional and specimen approaches along with petrography and computer exercises. Geomorphology and structural geology will be integrated with basic map reading and will consider public debates on seismic risk analysis, coastal erosion, stream/flood control, and influences these have on modern culture.

GEOL 1308    History of the Earth (3-2-2)
An integrated lecture-laboratory approach to historical geology for non-science majors that will employ hand specimen and other techniques for the identification of fossils and will include major controversies involving evolution, as well as, discussion of the origin of life and co-evolution of our planet and life on it. Exercises will teach principles of structure geology, sequence of events, fundamental stratigraphic concepts and graphic correlation. These topics will be united in interpretation of geologic maps and their application to human culture.

GEOL 1309    Dinosaurs and the Mesozoic World (3-2-2)
A paleobiological study of the reptiles popularly known as dinosaurs, along with the biotic and abiotic aspects of the environments during the time in which they lived.

GEOL 1345    Oceanography (3-2-2)
An integrated lecture/laboratory course for non-science majors. This course will review the geological, physical, biological, chemical and ecological aspects of the marine environment. Students will collect, analyze and synthesize online, real-time data in order to understand concepts covered in this class.

GEOL 2190-2490    Special Topics in Geology
Prerequisite: Varies according to topic.
Selected topics in lower-level geology according to the needs and interests of the students.

GEOL 3102    Sedimentology and Stratigraphy Laboratory (1-0-3)
Prerequisite: Credit or enrollment in GEOL 3302.
This laboratory course is designed to supplement GEOL 3302, and focuses on the applications of sedimentological and stratigraphic data to our understanding of sedimentary environments and paleoclimates.

GEOL 3105    Petrology Laboratory (1-0-3)
Prerequisite: GEOL 3310 and enrollment in GEOL 3305.
Hand sample and petrographic examination of igneous, sedimentary, and metamorphic rocks.

GEOL 3110    Mineralogy Laboratory (1-0-3)
Prerequisite: GEOL 1306/1106 and enrollment in GEOL 3310
Hand sample and petrographic examination and identification of minerals.

GEOL 3112    Structural Geology Laboratory (1-0-3)
Prerequisite: GEOL 1306/1106 and current enrollment in or credit for GEOL 3312.
Genesis, classification, and recognition of geologic structures. Fundamental concepts of tectonics, origin, arrangement and distribution of rock masses that form the Earth’s crust.

GEOL 3190-3490    Special Topics in Geology
Prerequisite: Varies according to topic.
Selected topics in junior-level geology according to the needs and interests of the students.

GEOL 3300    Undergraduate Research (3-0-0)
Prerequisite: Approval by the Natural Sciences Department, minimum GPA of 2.0, and permission of instructor.
Independent investigation of a specific problem or topic in geology research under the direction of a selected faculty member.
GEOL 3302  Sedimentology and Stratigraphy (3-3-0)
Prerequisite: GEOL 3305/3105 (Petrology) and GEOL 3411 (Paleontology) and credit or enrollment in GEOL 3102
The sedimentological and stratigraphic concepts/techniques used to investigate sedimentary deposits that are found in different types of depositional environments, and their applications to the environmental and oil and gas industries, climate change, and studies of earth’s history.

GEOL 3303  Environmental Geology (3-3-0)
Prerequisite: BIOL 1302/1102, CHEM 1308/1108 and GEOL 1305/1105.
Analysis of the influence geology has on the formulation of public policy. Topics to be included are surface/sub-surface water quality and quantity, flood control and navigation, shoreline processes, subsidence, mineral resources and impact from their extraction, waste disposal and geologic hazards such as earthquakes, vulcanism and mass movements.

GEOL 3305  Petrology (3-3-0)
Prerequisite: GEOL 3310 (Mineralogy).
A comprehensive study of the classification, composition, and formation of igneous, sedimentary, and metamorphic rocks. Field trip required.

GEOL 3310  Mineralogy (3-3-0)
Prerequisite: GEOL 1106/1306 and enrollment in GEOL 3110.
The systematic description of symmetry, crystal chemistry, the growth of crystals, the classification of minerals, and mineral identification.

GEOL 3312  Structural Geology (3-3-0)
Prerequisite: GEOL 1306/1106 and current enrollment in or credit for GEOL 3112.
Genesis, classification, and recognition of geologic structures. Fundamental concepts of tectonics, origin, arrangement and distribution of rock masses that form the Earth’s crust.

GEOL 3340  Inorganic Geochemistry (3-3-0)
Crosslisted with CHEM 3340. Credit may not be earned for both. Prerequisite: GEOL 1305/1105, GEOL 1306/1106, and CHEM 1308/1108.
Examination of the Earth and earth processes through the application of chemical principles including fractionation and distribution of the elements, the chemical evolution of planetary interiors and interactions between Earth’s lithosphere, hydrosphere and atmosphere. Topics include evaluation of theories and analysis of data relevant to geologic problems facing society such as the search for and utilization of mineral resources and the environmental implications of waste disposal and remediation.

GEOL 3399  Directed Study in Geology
Prerequisite: Formal approval by department chair and dean.
Selected topics in geology; intensive individual study under the guidance of a member of the geology faculty.

GEOL 3411  Paleontology (4-3-3)
Prerequisite: GEOL 1306/1106.
A paleobiologic approach to the major taxa of invertebrate fossils emphasizing their morphology, biotic relationships, paleoecology and evolution.

GEOL 3430  Coastal Studies (3-3-0)
Prerequisite: CHEM 1308/1108 and BIOL 1302/1102 or GEOL 1306/1106.
Crosslisted with BIOL 3430.
The aim of this course is to provide students with a fluency in the areas of coastal biology, chemistry, and geology. Students will receive instruction in a variety of field and laboratory techniques in environmental biology, biogeochemistry and sedimentary geology, as well as experimental design and statistical analyses. Students will be required to engage in their own independent research projects and to present their findings to the class. This is a combined lecture/lab course which will integrate lecture topics with lab and field experiences.

GEOL 4102  Petroleum Geology Laboratory (1-0-1)
Prerequisite: Credit or enrollment in GEOL 4302 (Petroleum Geology).
This laboratory course is designed to supplement GEOL 4302 (Petroleum Geology), and will focus on the practical applications of
geologic tools in the search for petroleum reserves.

GEOL 4190-4490 Special Topics in Geology
Prerequisite: Junior standing; will vary according to topic.
Selected topics in upper-level geology according to the needs and interests of the students. Examples of topics include micropaleontology and astrobiology.

GEOL 4260 Environmental Laboratory and Field Studies (2-0-6)
Crosslisted as BIOL 4260 and CHEM 4260. Credit may only be earned for one. Prerequisite: credit for BIOL 1302/1102, CHEM 1308/1108, GEOL 1306/1106 and credit or enrollment in either BIOL 4360, CHEM 3320 or GEOL 3303.
Intensive laboratory and field investigations to illustrate principles and current concepts presented in BIOL 4360, CHEM 3320 and GEOL 3303 by sampling, measuring and analyzing biological, chemical and physical factors of select environments, with emphasis on the activities of humans and their effects on ecosystems.

GEOL 4301 Evolution of the Earth and its Inhabitants (3-3-0)
Crosslisted as BIOL 4301. Credit may not be earned for both. Prerequisite: BIOL 1301/1101, 1302/1102, BIOL 3303, GEOL 1306/1106.
Analysis of the concepts and discoveries that led Darwin to propose his theory of natural selection to explain evolution and the subsequent lines of evidence in both geology and biology that substantiate his ideas and unify our understanding of the relationships of various organisms to each other. Specific groups of organisms will be discussed in relation to morphological changes through time as well as adaptations that may occur due to environmental changes and other variables.

GEOL 4302 Petroleum Geology (3-3-0)
Prerequisite: GEOL 3312 GEOL 3302; Corequisite: GEOL 4102.
Fundamentals of petroleum geology; basin modeling, source rock, reservoir, and trap studies; well log and seismic interpretation, petroleum geochemistry, and mapping.

GEOL 4303 Geologic Field Methods (3-3-0)
Prerequisite: GEOL 3305/3105, GEOL 3312, GEOL 3302
An introductory course in basic geologic field methods to precede summer field camp (a three-hour lab course). Topics will include the use of Brunton (or other geologic) compasses, GPS and aerial/satellite photographs, protocols for collecting geologic samples, documenting field data, and the construction of geologic maps, cross-sections, and stratigraphic profiles.

GEOL 4304 Field Geology (3-0-0)
Prerequisite: GEOL 4303.
This capstone course is designed as an application of lecture- and lab-based knowledge to real geologic environments experienced in the field. Students will spend three weeks conducting field work, examining rock outcrops, taking field notes, constructing geologic maps and cross-sections, and making geologic interpretations based on data obtained in the field.

GEOL 4305 Plate Tectonics (3-3-0)
Prerequisite: GEOL 3305/3105 and GEOL 3312/3112
An examination of the earth and the various geological disciplines in the context of modern plate tectonics theory. The course will focus on the major tectonic features of the earth, and the interrelationships between tectonics and igneous, sedimentary, and metamorphic processes, structural geology, geophysics, and geomorphology.

GEOL 4325 Advanced Microscopy (3-1-6)
Crosslisted as BIOL 4325. Credit may not be earned for both. Prerequisite: 16 hours of laboratory-based science including 8 upper-level hours and approval of instructor.
Instrumentation principles and laboratory exercises associated with the applications of a variety of microscopes and associated techniques, including preparation of samples, light microscopy (bright-field, dark-field, phase-contrast, polarized and fluorescent), scanning electron microscopy, transmission electron microscopy, and X-ray microanalysis.

GEOL 4399 Senior Honors Thesis
Prerequisite: Senior standing and enrollment in the Honors Program in the Natural Sciences.
A research project, supervised by a member of the natural science faculty or scientist at an affiliated research institution or laboratory. The completed research project must be presented in both written and oral form to the science faculty. No more than six
hours credit for this course may be applied toward a degree.

**GEOL 4401  Biogeochemistry (4-3-3)**
*Prerequisite: GEOL 1306/1106; CHEM 1308/1108 and BIOL 1302/1102.*
Biogeochemistry is the study of how living systems influence and are controlled by the geology and chemistry of the earth. This course will explore major chemical, biological, and geological processes that occur within and between terrestrial and aquatic ecosystems. The course will provide an introduction to the field of biogeochemistry and biogeochemical processes through the study of important microbial/biological/chemical transformations in specific ecosystems. This will include studying biogeochemical cycles and related environmental issues such as global climate change, environmental impacts, and urban ecology.

### HEA (Health)

**HEA 2301  Introduction to Healthcare Systems (3-3-0)**
*Prerequisite: none.*
This course introduces the fundamental principles, practices, and issues common in the healthcare profession. Students will explore various delivery systems, their components, organization, management, and related issues. A system approach focuses on core competencies shared by all healthcare professions such as communication, caring, promoting health, and preventing disease.

**HEA 2302  Introduction to Epidemiology and Biostatistics (3-3-0)**
*Prerequisite: Completion of core requirements in Communication (both ENG 1301 and 1302) and Math (either MATH 1301, 1310, or STAT 1312).*
This course provides an introduction to epidemiology, which is a systematic approach for acquiring and evaluating information on the distribution and causes of disease and other health outcomes in populations. Topics include the history of epidemiology, epidemiological methods (e.g., study design, measures of disease distributions, biostatistics, and interpretation of research findings), as well as application of epidemiological research to the development and evaluation of disease prevention and control strategies. Students will gain a greater appreciation for the complexities of disease processes in populations and the application of epidemiological methods to basic science, population health, and public health policy.

**HEA 2303  Medical Terminology (3-3-0)**
*Prerequisite: none.*
This class provides students with basic medical language skills, including medical terminology, abbreviations, and definitions. Topics include word construction (roots, prefixes, and suffixes), terminology related to body systems and disorders, and terminology related to common medical tests.

**HEA 3301  Medical Case Management (3-3-0)**
*Prerequisite: Completion of HEA 2301, Introduction to Health Systems, is required.*
This course will introduce students to the knowledge and skills associated with the practice of case management in a health care setting. Students will learn the variety of ways in which case management is used to navigate the health delivery system, to plan and organize services with clients, and to find necessary resources for clients.

**HEA 3302  Wellness and Aging (3-3-0)**
*Prerequisite: Completion of HEA 2301, Introduction to Health Systems, is required.*
Wellness and Aging provides a theoretical foundation for wellness in adults and aging populations. Emphasis is placed on concepts of health promotion and education, disease prevention, and maintenance of health and wellbeing throughout the later stages of the lifespan.

**HEA 3303  Biological Theories of Aging (3-3-0)**
*Prerequisite: BIOL 1303/1103 (Human Anatomy & Physiology I Lecture & Laboratory) and BIOL 1304/1104 (Human Anatomy & Physiology I Lecture & Laboratory).*
Overview of prominent biological theories of aging. Multiple theories of aging have been proposed to account for the biological origin and cause of the aging process. Elements of major theories of aging in the four categories of Evolutionary, Molecular, Cellular and System theories will be analyzed and discussed.
HEA 3304  US Healthcare Payment Systems (3-3-0)
This course will evaluate multiple dimensions of health care cost and payment structures within the American health care system. Students examine processes, practices, and roles of health information professionals. Students discuss concepts in insurance, third-party and prospective payments, managed care organizations, and the impact of federal health care legislation.

HEA 3305  Health and Culture (3-3-0)
Prerequisite: Completion of HEA 2301, Introduction to Health Systems, is required.
This course introduces the concept of culture as one framework for understanding the relation between culture and health. More specifically, the course examines culturally-shaped definitions of health/wellbeing; illness causation and treatment theories, understandings of health risk; connections between culture, health and stigma, healing/curing traditions; the relation between health risk (vulnerability) and socio-cultural structures; gender and health; and the meaning of cultural competency.

HEA 4301  Special Projects in Health and Behavioral Science (3-3-0)
Prerequisite: Senior standing and department approval is necessary for enrollment in this course. Completion of HEA 2302, Introduction to Epidemiology and Biostatistics is recommended.
The Special Projects in Health and Behavioral Science course provides a culminating experience for the Health and Behavioral Science major. It may include a senior thesis, or research project related to health, healthcare, or gerontology.

HEA 4302  Health Policy and Politics (3-3-0)
Prerequisite: HEA 2301.
This course will examine the American health care system from the perspective of the political, social, and economic forces that impact and influence the development and maintenance of public health care policy.

HEA 4303  Ethics for Healthcare Professionals (3-3-0)
This course will introduce students to the major concepts, theories, and models of healthcare ethics. Practical and applied issues will be used to contextualize theoretical issues. Students will have the opportunity to apply these concepts and models to a variety of healthcare settings and issues.

HEA 4380  Internship in Health and Behavioral Science (3-3-0)
Prerequisite: Sixty hours toward degree, 2.0 GPA, and approval of instructor.
This internship will provide students with hands-on experience in the health care industry in order to prepare students for careers or further education in health care or related industries. May be repeated once for credit.

HIST (History)

HIST 1305  United States History to 1877 (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
This course examines past events and ideas relative to the United States before 1877. It involves the interaction among individuals, communities, states, the nation, and the world and considers how these interactions have contributed to the development of the United States. (This course satisfies 3 of the 6 hours of American history mandated by the state of Texas.) (HIST 1301)

HIST 1306  United States History after 1877 (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
US History after 1877 focuses on the consideration of past events and ideas relative to the United States. It involves the interaction among individuals, communities, states, the nation, and the world and considers how these interactions have contributed to the development of the United States and its global role. (This course satisfies 3 of the 6 hours of American history mandated by the state of Texas.) (HIST 1302)

HIST 1312  Texas History (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
This introductory course spans the history of Texas from its Native American origins to the present, noting the challenges to the changing communities of colony, nation, and state and their relationships with the larger society and diverse populations. A variety of factors emphasize social, economic, and ethnic influences that have shaped modern Texas. (This course satisfies 3 of the 6 hours of American history mandated by the state of Texas.) (TCCNS HIST 2303)
HIST 1314  Ethnic Minorities in American History (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
Survey of American History with particular emphasis on ethnicity and immigration and the issues that various minority groups faced in North America, including religious, cultural, political, and economic factors. (This course satisfies 3 of the 6 hours of American history mandated by the state of Texas.) (TCCNS HIST 2309)

HIST 2315  Introduction to World History I (3-3-0)
This course is an overview of the development of the world’s major civilizations from the earliest times through the European renaissance. The major focus will be on developments in the West, but societies in China, India, southwest Asia, and Africa will be examined too.

HIST 2316  Introduction to World History II (3-3-0)
A continuation of HIST 2315. This course examines the development of societies in and beyond Europe since the Protestant Reformation. Special emphasis is given to the emergence of modern or developed forms of social, economic, and political organization and their spread across the globe after the mid-nineteenth century.

HIST 3301  20th Century Europe (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
Problems in foreign and domestic policies faced by Europe since 1914. Major topics examined within the European context include problems caused by World War I and the Versailles Peace Treaty, the effects of the Depression, World War II and its aftermath, the disintegration of colonial empires and Europe’s adjustment to its new role in world affairs.

HIST 3304  The Vietnam War (3-3-0)
Prerequisite: HIST 1306 and 3 additional hours in history, junior standing, or consent of instructor.
This course discusses the background to one of the most divisive issues of 20th century America; explains why the United States enmeshed itself in this conflict and how it extricated itself. Diplomatic, political and social aspects of the war and its effect on the people of both countries.

HIST 3305  The United States, 1900-1945 (3-3-0)
Prerequisite: HIST 1306 and 3 additional hours in history, junior standing, or consent of instructor.
Historical development from the beginning of the 20th century to the end of World War II. Reform movements and their impact on the American society. The Populist and Progressive movements, the New Deal, the Depression and the impact of war on the society.

HIST 3306  US Diplomatic History (3-3-0)
Prerequisite: HIST 1305, HIST 1306, junior standing, or consent of instructor.
This course explains the relationships of the United States with other countries and explains the importance of these connections to the growth of America’s political and commercial power.

HIST 3308  History of Mexico (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
Mexico from its Indian origins to its present position as a burgeoning American power. The influence of the nation’s cultural heritage and the reformist impulses of the 19th and 20th centuries.

HIST 3309  20th Century England (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
The course will be a history of modern England, focusing on political, cultural, social, literary, and economic issues, as in the course catalog. The specific focus will be on Public History. Students will survey the history of England and London during the twentieth century, and then explore different ways in which museums reflect the identity of an area, a nation, and a people. Students will be able to learn how the study of history can be used for not only academic purposes, but in creating, protecting, preserving, and perpetuating local identity and culture.

HIST 3310  20th Century Russia (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
A study of the change and continuity in politics, literature and society in Russia and the former Soviet Union since 1890.
HIST 3311  US Military History (3-3-0)
Prerequisite: HIST 1305, HIST 1306, junior standing, or consent of instructor.
This course examines how warfare has affected our nation’s existence, why American wars have occurred, the effect of the evolution of weapons upon America’s wars and the perspective of the soldier on the front line.

HIST 3312  Readings in Texas History (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
An interpretative study of significant social, cultural, political and economic issues in Spanish Texas, the Republic and statehood.

HIST 3313  Houston: Past and Present (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
A history of Houston from its founding by the Allen brothers in 1836 to the present. Political, cultural, social and economic issues are emphasized.

HIST 3314  The Civil War and Reconstruction (3-3-0)
Prerequisite: HIST 1305 and 3 additional hours in history, junior standing, or consent of instructor.
The course examines the background nature of this conflict with emphasis on its escalation toward total war, the final defeat for the South and the reconstruction period that followed.

HIST 3317  Middle Eastern History (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
This course will trace the history of the Middle East from the time of the Prophet Mohammed, through the rise of Islam, the period of the Caliphates, the Crusades, the Ottoman Empire, the era of European imperialism, the birth of Israel, and modern Arab nationalism.

HIST 3318  Latin American History (3-3-0)
Prerequisite: 6 hours in history and junior standing.
This course covers the history of Latin America from pre-Columbian civilizations, through the conquistadors, the colonial period, and the wars of independence. The primary focus of the course is the 19th and 20th centuries.

HIST 3322  Mexican-American History (3-3-0)
Prerequisite: 6 hours in history, junior standing, or consent of instructor.
The history of Mexican-Americans in the US from the 16th century to the present with special emphasis on the American Southwest. Students will learn some of the major events, personalities and issues that have shaped the society, culture, history and identity of the Mexican-American people.

HIST 3323  African-American History (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
A history of the African-American experience in North America from 1610 to the present. The course will cover the contributions of African-Americans to American society and will cover issues including slavery and the slave trade, abolitionism, war, citizenship, political participation, urbanization, culture, and civil rights.

HIST 3324  Nineteenth Century Europe (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
Introduction to the history of Europe from the downfall of Napoleon to the beginning of WWI. Major themes include the century’s political, cultural, and social trends as well as European imperialism and the causes of WWI.

HIST 3325  History of Brazil (3-3-0)
Prerequisite: 6 hours of history, junior standing, or consent of instructor.
A history of Brazil from the fifteenth century to the present. Major topics include Brazil’s indigenous origins, Portuguese colonization, independence, African slavery, populism, military dictatorship, and democracy.

HIST 3330  British Colonial America 1607-1763. (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
Focus on the establishment and development of British American societies in the 17th and 18th centuries. Explores the rationale for settlement of the various British colonies and their divergent economic and social paths. Also covers the transplantation of political,
social and religious institutions as well as analyzing migration patterns to British America.

**HIST 3331 American History through Literature (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
This course examines major themes in US history through an examination of the works of important authors in historical context. Themes and authors addressed in the course vary by semester. This course may not be repeated for credit.

**HIST 3332 American Constitutional History (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
Overview of constitutional interpretation both on and off the Supreme Court between the ratification of the US Constitution and the 20th century. Topics include the origins of the constitution, original understandings of federalism, rights, separation of powers, and the ways in which these understandings changed across the 19th and 20th centuries. Emphasis on the legal regulation of class, gender, and racial relationships during this period.

**HIST 3333 Antislavery Movements (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
This course focuses on the emergence of anti-slavery attitudes and political action in the Atlantic world during the eighteenth and nineteenth centuries. The curriculum explores the origins of both the antislavery and proslavery arguments through the analysis of primary and secondary texts. Students will also be exposed to the range of historical explanations for the emergence of antislavery. Themes emphasized in this course include (1) the changing views on race, labor, and colonization; (2) the political economy of abolition; (3) the shift from gradual to immediate calls for Emancipation.

**HIST 3334 Britain and Its Empire, 1688-ca.1870 (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
This survey covers the period between the Glorious Revolution, and the height of the British Empire. The course begins with analysis of the political, social, and ideological implication of a constitutional settlement and traces social, military, and economic developments that are associated with the profound changes in Britain over the span of two centuries. Key themes covered include the (1) nature of the British constitution and politics; (2) religion; (3) trade and the rise and fall of the first colonial system; (4) industrial Britain; and (5) war, foreign policy and imperialism.

**HIST 3335 Rome: Republic to Empire (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
This course examines the political, military, social, and economic developments that transformed Rome from a republic to an empire. Key themes include Roman mythology, early settlement, Etruscans, expansion, relations with Italians and other foreign peoples, Carthage, the Gracchi, the Civil Wars and the Principate.

**HIST 3336 Ancient Greece (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
This course examines the basic social, economic, political, and cultural themes of Ancient Greece from Homer to Alexander the Great. Key themes include the polis and the development of various political forms such as democracy, colonization, the Classical Age of Athens and Sparta, the Persian Wars, the Peloponnesian War, the rise of Macedonia, and the Hellenistic Age.

**HIST 3340 History of Religion in the United States (3-3-0)**
*Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.*
The course focuses on selected topics that illustrate the interactions of social, cultural, political, and religious forces in United States history.

**HIST 3342 History in Film (3-3-0)**
*Prerequisite: Completion of the Common Core; junior standing; or consent of instructor.*
This course will examine the relationship of historical studies to fictional, propaganda, and documentary films. Reflecting on film as a reconstruction of the past, we will discuss the extent to which fictional and other film genres can objectively present an “accurate” view of the past; the relationship between film, memory, and nostalgia; and the educational value of popular film. We will also consider historical film as a reflection of the time and place that produced it.
HIST 3360  History of the American West (3-3-0)  
Prerequisite: 6 hours in history, junior standing, or consent of instructor.  
The course is an introductory survey of American expansion into the trans-Mississippi West, with emphasis on the nineteenth and twentieth century. Key themes will include ethnic and cultural diversity and interaction; economic opportunities, development, urbanization, and environment; the role of the federal government in the conquest, development, and administration of the West; and the concept of the frontier, regionalism, and the mythic West in American popular culture.

HIST 3390  Historical Methods (3-3-0)  
Prerequisite: 6 hours in history, junior standing, or consent of the instructor.  
This course is designed for history majors and minors to provide training in methods of historical research, historiography, and exposition. It will include library and archival research with emphasis on the use of primary and secondary sources and will culminate in a history research project or projects.

HIST 3399  Directed Study in History (3-3-0)  
Prerequisite: Junior standing, formal approval of department chair and dean, cumulative GPA 3.0 and GPA of 3.3 in the specific area of directed study. Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
Selected topics in history. Intensive individual study under the guidance of a member of the history faculty.

HIST 4301  The United States since 1945 (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
Historical development of the United States since World War II. The rise and decline of the Cold War, the Civil Rights movement, diplomatic, political and social issues.

HIST 4303  US Women's History (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
A study of the social, economic and political impact of women on United States history from its founding to the present.

HIST 4304  History of the Old South to 1865 (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
A history of the southern states from the Colonial era through the Civil War. Special emphasis is given to slavery, social and political theory.

HIST 4305  History of the New South from 1865 (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
A history of the southern states from the beginning of Reconstruction to the present with emphasis on race, gender and class as the South copes with modernization. Special attention is given to industrialization, urbanization and the Civil Rights Movement.

HIST 4306  The Age of Jefferson, 1763-1815 (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
History of the United States from the beginning of the Revolution (1763) to the end of the War of 1812 (1815). Topics include the Revolution, creation of the federal constitution, the rise of the first political parties, and the era’s impact on class, gender, and race.

HIST 4307  Jacksonian America, 1815-1848 (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
History of the United States from the end of the War of 1812 (1815) to the end of the Mexican War (1848). Topics include expansion of political democracy, emergence of a market economy, developments in religion, various efforts to reform American society, increasing controversy over slavery, and the implications of expansion and manifest destiny.

HIST 4310  Nazi Germany (3-3-0)  
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.  
The twelve years of Nazi domination of Germany and Europe was the most traumatic period in modern European history. This course will examine the most important features of the Nazi regime, as well as its demise in the Second World War. We will also include a discussion of the Holocaust in the context of Nazi plans to remake Europe. This course will fulfill one of the ethics course requirements.
HIST 4320  Slavery in the Americas (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
Analysis of African American slavery from the South American silver mines to the tobacco estates of the Chesapeake. Covers a variety of historical approaches including economic, anthropological and oral histories. Emphasis on how the slave system was organized and how slave communities evolved.

HIST 4321  The Rise of Modern Women (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
This course explores the dramatic changes and continuities in the lives of women between The Ragtime Era (1910s) and the Depression. Through a close analysis of key social issues, this class will describe and explain the birth of the modern woman in the early twentieth century. Examples of critical themes relevant to the transformation of western Women's identity include the feminist movement, consumerism, waged labor, popular culture, the post-war sexual revolution, gender relationships, and reproductive issues.

HIST 4322  History of Twentieth Century Diplomacy (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
In this course, students will engage in a unique, "high impact" experience through the intensive study and realistic simulation of several dramatic episodes in global diplomatic history. By adopting the leadership roles of the participant countries, students will recreate the geo-political conditions of the international crises, and then compete with their adversaries to achieve their nations' foreign policy goals. In this way, students gain a nuanced understanding of the complex events and diplomatic responses that characterized the twentieth century.

HIST 4340  World War I (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
This course will consider such topics as the war's causes; the principal events of the First World War; strategies and tactics used in the war; an ordinary soldier's life; women and the war; daily life on the home front; the Russian Revolution's effect on the war; the end of the war and the peace treaties; and the effect of the war on combatants.

HIST 4350  The History of World War II (3-3-0)
Prerequisite: Completed six hours in history as mandated.
The Second World War was, in many respects, the most calamitous large-scale war in modern history, as well as the central event of the twentieth century. This course will examine World War II from a global perspective. While we will pay close attention to the grand strategies of the war and the major battles, we will also study the life of frontline soldiers and conditions on the home front. We will also consider the war from the perspectives of mass casualties and genocide. Special attention will be given to the role of the United States in the war.

HIST 4370  History of Education in the United States (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
A historical survey of the development of education in the United States, specifically how the concept of education is influenced by American culture and politics.

HIST 4390  Special Topics in History (3-3-0)
Prerequisite: Students must have satisfied the History Core requirement, have junior standing, or consent of the instructor.
Selected topics in US, world, social and intellectual history. Course may be repeated for credit when topics vary.

HUM 1409  Special Topics in Elementary Foreign Language (4-3-1)
Laboratory fee required: $10.
Introduction in understanding, speaking, reading and writing a foreign language. Provides freshman foreign language credit. Should not be taken by native speakers of the language studied. The course may be repeated when the level or language is different.
HUM 2301  Foundations of Western Culture (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
The study of major literary, historical, artistic, and scientific developments that have contributed to Western culture from the antiquity to the Renaissance, with special emphasis on critical thinking, communication skills, and social and personal responsibility.

HUM 2302  Foundations of Western Culture II (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
The study of major literary, historical, artistic, and scientific developments that have contributed to Western culture from the Renaissance to the present, with special emphasis on critical thinking, communication skills, and social and personal responsibility.

HUM 2305  Computer Applications in Humanities and Social Sciences (3-3-0)
Prerequisite: ENG 1302. Laboratory fee required: $10.
An overview of computer hardware and software applications for students in programs in the humanities, English, social sciences, and teacher certification. The course emphasizes hands-on experience in word processing, desktop publishing, educational software and multimedia.

HUM 3305  Art and Religion - Origins (3-3-0)
Crosslisted as ART 3306. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Survey of the religious arts and architecture of the ancient world and their underlying beliefs and practices. Examines the early art and architecture of the world religions. All works are presented in historical sequence, concluding with the period known in the West as the Renaissance.

HUM 3307  Art and Religion - Developments (3-3-0)
Crosslisted as ART 3307. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Survey of the religious arts and architecture of the developing modern world from the 17th century to the present. The main focus is on religious art in Buddhism, Christianity and Islam, but the course also examines the impact of these religions on modern secular and religious movements.

HUM 3308  History of Renaissance Art (3-3-0)
Crosslisted as ART 3303. Credit may not be earned for both. Prerequisite: ART 1301 or ART 1302.
For students who have completed ART 1301 or ART 1302 and who wish to continue learning about the European Renaissance and how artistic invention shaped Renaissance society. Objects of study will emphasize the pictorial arts (painting, manuscript illumination, the graphic arts) with additional examples drawn from architecture, sculpture, and luxury items.

HUM 3309  American Theatre History (3-3-0)
Crosslisted as DRAMA 3333. Credit may not be earned for both. Prerequisite: 3 hours DRA.
This course explores theatre in the U.S. from its colonial past to the 1960s. Special emphasis will be placed on the cultural, social and political background upon which the American Theatre has evolved. Plays will be examined as reflections of the historical times in which they were written and performed.

HUM 3310  Cultural Criticism (3-3-0)
Crosslisted as ENG 3340. Credit may not be earned for both. Prerequisite: 3 hours of literature and 3 hours of philosophy.
A survey of different ways of analyzing human culture. Students examine major schools of criticism and interpretation of society and its creative activity. This course is the gateway course for the Humanities program. May be repeated once for credit, with permission of the chair of the Arts and Humanities Department.

HUM 3311  Survey of Asian Art (3-3-0)
Crosslisted as ART 3311. Credit may not be earned for both. Prerequisite: ART 1301, ART 1302, or ART 1310.
For students who have completed ART 1301 or ART 1302 and who wish to continue learning about Asian art. Survey of arts produced by Asian nations in relation to their beliefs and ideas that affected their production. Introduction to philosophical and religious beliefs upon which art objects were based and which are fundamental to their understanding.

HUM 3312  Major Developments in the History of Art (3-3-0)
Crosslisted as ART 3301.Credit may not be earned for both.
A study of important historical events in the development of the theory and practice of the visual arts. May be repeated for credit when topic changes.
HUM 3313  Major Developments in the History of Music (3-3-0)
Crosslisted as MUS 3301. Credit may not be earned for both. Prerequisite: 3 hours of music appreciation.
A survey of important historical events in the development of music theory and performance.

HUM 3314  Studies in Autobiography (3-3-0)
Crosslisted as ENG 3314. Credit may not be earned for both. Prerequisite: 3 hours of literature.
A study of autobiographical writing; the course may analyze its forms or techniques, trace a topic or type of autobiographical literature or investigate critical problems posed by autobiography.

HUM 3315  Theater: Greek to Elizabethan (3-3-0)
Crosslisted as DRA 3303. Credit may not be earned for both. Prerequisite: ENG 1301.
World theater from its beginnings to the 18th century, including theater architecture, staging and costuming practices, plays and playwrights, and social and political forces affecting the theater.

HUM 3316  Theater: Elizabethan to Modern (3-3-0)
Crosslisted as DRA 3304. Credit may not be earned for both. Prerequisite: ENG 1301.
World theater from the 18th century to the present.

HUM 3317  Jazz Styles I (3-3-0)
Crosslisted as MUS 3303. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.
Introduction to various styles of jazz from its beginnings at the end of the 19th century to the 1940s. Beginning with the early years of "traditional" jazz in New Orleans and progressing chronologically, students will be introduced to major figures and styles of jazz through videos, recordings, readings and concerts. Includes study of the outside forces that helped shape the music and the musicians.

HUM 3318  Jazz Styles II (3-3-0)
Crosslisted at MUS 3304. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.
Introduction to various styles of jazz from the 1940s to today. Beginning with the evolution of jazz into a chamber art form during the bebop movement of the 1940s and progressing chronologically, students will be introduced to major figures and styles of jazz through videos, recordings, readings and concerts. Includes study of the outside forces that helped shape the music and the musicians.

HUM 3319  African American Theater: History and Perspective (3-3-0)
Crosslisted as DRA 3309. Credit may not be earned for both. Prerequisite: Three hours of DRA.
A survey of the African American theater experience from the 1800s to the present with special emphasis on the intersection of race, theater, and performance.

HUM 3320  Foreign Language Literature in Translation (3-3-0)
Prerequisite: 3 hours of literature.
A survey of selected classic and contemporary texts originally written in languages other than English. May be repeated once for credit with permission of the department chair.

HUM 3321  Hispanic Culture and Civilization (3-3-0)
Prerequisite: ENG 1302.
A survey of the cultural traditions of Spanish-speaking populations, including those of Spain, Latin America and the United States. No knowledge of Spanish is required or expected.

HUM 3322  History of North American Art (3-3-0)
Prerequisite: ART 1301, 1302, or 1310. Crosslisted as ART 3322. Credit may not be earned for both.
This course surveys the art of North America from colonial times to the present day with an emphasis on the art of the United States. Traditional architecture, sculpture, and painting will be the focus of the class, but decorative art, folk art and other types of art objects will also be studied. Students will learn about the major monuments of North American art history as well as the names of notable North American artists, and will interpret art works within the context in which they were produced.

HUM 3323  Technology and Literature (3-3-0)
Crosslisted as ENG 3323. Credit may not be earned for both. Prerequisite: 3 hours of literature.
The course may study influences of technology or science on literature, analyze how literature represents technology, or interpret literature as a reflection of social ambivalence toward technology.

HUM 3324  History of Modern Art (3-3-0)  
Crosslisted as ART 3302. Credit may not be earned for both. Prerequisite: ENG 1301 and 3 hours of art history or art appreciation.  
A survey of world art from the Revolutionary Period (late 18th century) to contemporary times, including such artistic movements as Neoclassicism, Romanticism, Impressionism, Cubism, Surrealism and Pop Art.

HUM 3325  Arts Administration (3-3-0)  
Crosslisted as ART 3325, DRA 3325, MUS 3325. Credit may not be earned for more than one. Prerequisite: Junior standing, completion of the creative arts band in the common core, or departmental approval.  
An examination of the principles of arts administration stressing general concepts relating to marketing, fundraising, audience development, financial management, and the overall environment of arts management in profit and non-profit organizations such as theaters, art galleries, music organizations, dance companies, and museums.

HUM 3326  Playwriting (3-3-0)  
Crosslisted as DRA 3308. Credit may not be earned for both. Prerequisite: Junior standing or permission of the instructor.  
The process of playwriting. Topics include dramatic structure, character and dialogue development and conflict resolution.  
Culminates with an original script.

HUM 3328  Contemporary Art (3-3-0)  
Crosslisted as ART 3304. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.  
This course is a survey of artworks from around the world produced since 1945. Painting and sculpture and their variations will be the primary focus, but a full range of visual culture will also be considered.

HUM 3329  Baroque Art (3-3-0)  
Crosslisted as ART 3309. Credit may not be earned for both. Prerequisite: Credit in ENG 1301 and 3 hours of art history or art appreciation (ART 1301, 1302, or 1310).  
This course surveys the art of Western Europe during the seventeenth century with emphasis on Italy, Spain and the Netherlands. The impact of political, religious and cultural changes on creative production is examined.

HUM 3330  Second Language Acquisition (3-3-0)  
Prerequisite: PSY 1303.  
An investigation of theories and research techniques in the study of second language acquisition and bilingualism with special emphasis on the implications for bilingual and foreign language education.

HUM 3331  Music in American Christianity (3-3-0)  
Crosslisted at MUS 3308. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.  
This course surveys the social, cultural, theological, and historical development of significant musical styles and genres in North American Protestant Christianity from the early 17th century to the early 21st century. Genres studied include: colonial psalms and lined hymns; shapenote hymns; spirituals; revival hymns; Sunday School songs; hymns of the urban revival movement; early gospel hymns; arranged/concert spirituals; commercial gospel music (African-American and white/southern gospel); praise and worship music; Contemporary Christian music.

HUM 3332  Arts Marketing (3-3-0)  
Crosslisted as DRA 3327, ART 3332, MUS 3327. Prerequisite: Junior standing and ENG 1302.  
This course is an overview of fundamental marketing concepts and strategies relevant to promoting artists, such as painters, actors, dancers, designers, or musicians, as well as fine arts events, and creative products. Topics include market research, audience development, traditional advertising, digital campaigns, public relations, branding, strategic partnerships, and grassroots initiatives. Using real-world examples and current trends, students develop foundational knowledge of the theory and practice of fine arts marketing.

HUM 3333  History of Hispanic Music (3-3-0)  
Crosslisted at MUS 3333. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.
This course explores the concert music of Hispanic cultures from the Spanish cantigas of the medieval period through the Mexican zarzuelas of the 19th century and American reggaeton of today. The music will be discussed in the context of the political, social and artistic culture of each era.

HUM 3335 Ancient Near Eastern Art & Archaeology (3-3-0)
Crosslisted as ART 3335. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
Ancient Near Eastern Art & Archaeology is the study of the material culture of the Ancient Near East (primarily Mesopotamia, Egypt, and Persia), ranging from its art and architecture to its potsherds and stratified soils. The course will cover sculpture, architecture, vase-painting, sanctuaries, cities, and the countryside in combination with the debates that surround the interpretation of these remains.

HUM 3336 Greek Art & Archaeology (3-3-0)
Crosslisted as ART 3336. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation.
This course is the study of the material culture of ancient Greece, ranging from its art and architecture to its potsherds and stratified soils. The course will cover sculpture, architecture, vase-painting, sanctuaries, cities, and the countryside in combination with the debates that surround the interpretation of these remains.

HUM 3370 Theories in Collaborative Learning (3-3-0)
Crosslisted as ENG 3370. Credit may not be earned for both. Prerequisite: Sophomore English.
Prepares students to work in a one-on-one tutoring environment and/or as an introduction to teaching English composition in high school. Theories of composition and instruction in working with students as peer tutors, writing associates and SI leaders; emphasis placed on learning about the composing and reading process, strategies for invention, organization, development, revision and editing.

HUM 4098 Senior Portfolio (0-0-0)
Prerequisite: Humanities major filing for graduation.

HUM 4170 Student-Initiated Project
Prerequisite: Declared Fine Arts major and approved project.
Student-Initiated Projects include plays, collaborative performance art, multidisciplinary mixed-media events, exhibits, music and dance performances developed and executed entirely by the student. Students will execute all aspects of creating the project – artistic, production design, marketing, organizational structure, budgeting, ticket sales, web design, fundraising, etc.

HUM 4301 Jazz Heritage
Crosslisted as MUS 4301. Credit may not be earned for both. Prerequisite: Three hours of music appreciation or music history, departmental approval, and pre-paid non-refundable deposit for trip. Study of jazz styles associated with a particular city including a week-long field trip to that city. Participation in the field trip is required. May be repeated once when the city is different, with departmental approval. Extra fees will be charged to pay for the trip.

HUM 4313 Psychology through Literature (3-3-0)
Crosslisted as ENG 4313. Credit may not be earned for both. Prerequisite: 3 hours of literature.
The course adopts psychological theory as a methodology for studying literature and its cultural contexts.

HUM 4315 The Old Testament (3-3-0)
Prerequisite: 3 hours of literature.
A study of the literature, history, culture, and religious traditions of ancient Israel and Judah, and the influence of Judaism and the Old Testament/Hebrew Bible on contemporary religious ideas.

HUM 4316 The Early Christian Church (3-3-0)
Prerequisite: 3 hours of literature.
The Early Christian Church provides the student with a thorough overview of the scope and wealth of early Christian literature, theology, and ritual. The course primarily covers the work of the Fathers down to Gregory the Great. The course is a thorough resume of modern patristic research, and serves as a basic introduction to the field.

HUM 4317 World Mythology (3-3-0)
Prerequisite: 3 hours of literature.
Compares and contrasts Western (Graeco-Roman) traditional tales with non-Western traditional tales.

HUM 4318  The New Testament (3-3-0)
Prerequisite: 3 hours of literature.
A study of the literature, history, culture, and religious traditions of the New Testament, and the influence of early Christianity on contemporary Western and world cultures.

HUM 4320  Foreign Language for Reading Knowledge (3-3-0)
Crosslisted as HUM 6320. Prerequisite: Completion of the Language, Philosophy and Culture band.
This course is designed for students seeking a basic reading knowledge of a specific foreign language for research or pleasure. Students study the language’s grammar system, develop reading and translation strategies, and acquire a basic reading vocabulary through analytical discussion, grammar exercises and extensive and varied reading assignments. This course does not count towards any undergraduate foreign language requirement at UHD. The language studied will vary from semester to semester according to demand and availability of instructors. This course is taught in English and previous knowledge of the foreign language, though helpful, is not required.

HUM 4350  Senior Seminar in the Humanities (3-3-0)
Crosslisted as ENG 4330. Credit may not be earned for both. Prerequisite: Senior standing and 18 upper-level hours in the humanities, including HUM 3310/ ENG 3340.
A review of key issues in interpretation and understanding from philosophy, literature, history and the arts. It aims to provide students with means for synthesizing their studies in the liberal arts. This course is the capstone for the Humanities program.

HUM 4371  Humanities and the Sciences (3-3-0)
Prerequisite: 3 hours of literature.
A survey of classic and contemporary scientific literature intended to foster an understanding and respect for science and the scientific method among students in the humanities and social sciences.

HUM 4380  Field Experience in Humanities
Prerequisite: 60 hours toward degree and approval of department chair.
Placement of students in jobs involving areas in the humanities within the private and public sectors. Work may be paid or unpaid. Written reports, conferences with the instructor and other academic work are required. May be repeated once for credit.

HUM 4390  Special Topics in the Humanities (3-3-0)
Prerequisite: ENG 1302 and junior standing.
Selected topics in the arts and/or humanities. May be repeated once when topic varies.

HUM 4399  Directed Study in Humanities
Prerequisite: Junior standing, formal approval of department chair and dean, cumulative GPA of 3.0 and GPA of 3.3 in the specific area of directed study.
Selected topics in the humanities; intensive individual study under the guidance of a member of the faculty.

INT (International Business)

INT 3350  Foreign Country/Region Study Tour (3-3-0)
Prerequisite: ECO 2301 and ECO 2302 or approval by department chair and the college dean.
Study of a selected foreign country or region covering its social, cultural, political, and economic structure including examination of trade, investments, and business practices in the designated country/region. It also examines the activities and responsibilities of firms and managers in the global context including trade and economic relationships between the selected country/region within the U.S. Completion of this course requires the student to participate in a College of Business-sponsored study tour of a selected foreign country/region. This course may be used as an upper division elective in any business major.

INT 3360  Foreign Country/Region Study Project (3-3-0)
Prerequisite: Approval by department chair and the college dean.
An in-depth study of a selected foreign country/region of the world covering its social, cultural, political, and economic structure,
including trade and business practices in the country/region and its economic, trade, and cultural ties with the U.S. This course will not require any foreign country tour but, instead, requires the student to become intensely involved in a College of Business-approved international-oriented organization, and complete a rigorous and good quality research project as part of the course requirement. This course may be used as a substitute for INT 3350 Foreign Country/Region Study Tour with approval of the Chair and Dean. This course can also be used as an upper division elective in any business major or minor.

INT 3390 Special Topics in International Business (3-3-0)
Prerequisite: Junior standing and department and dean’s approval.
One or more special topics in new or emerging areas of international business, or an intensive study of a selected country or region of the world, or a research-oriented, in-depth study of a global-oriented industry or business. May be repeated for credit when topic varies.

INT 3399 Directed Study in International Business (3-3-0)
Prerequisite: Department and dean’s approval.
Research-oriented intensive individual study on a selected topic under the guidance of a member of the international business faculty.

IRM (Insurance and Risk Management)

IRM 3300 Introduction to Risk and Insurance (3-3-0)
Prerequisites: Completion of the common core (42 hours) plus 18 additional hours, and completion, or concurrent enrollment in BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
Basic principles of risk management and insurance. Examination of the role of insurance in the treatment of risk. For students wishing to earn the Chartered Property and Casualty Underwriter (CPCU) designation, course prepares students to take the CPCU 510 examination. Course fulfills partial requirements for University Associate Certified Risk Manager (UACRM) designation.

IRM 3301 Fundamentals of Insurance Planning (3-3-0)
Prerequisites: Completion of the common core (42 hours) plus 18 additional hours, and completion, or concurrent enrollment in BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300. Basic principles of life and health insurance and annuities, policy provisions and innovations, and related financial planning. For students wishing to earn the Chartered Financial Consultant (ChFC), Certified Financial Planner (CFP) and Chartered Life Underwriter (CLU) professional designations, and who pass the national exam, course fulfills requirements for HS 311 course.

IRM 3303 Value Analysis in Insurance and Risk Management (3-3-0)
Prerequisite: FIN 3302, IRM 3300.
Covers the basics of corporate value analysis as used by insurance institutions and in determining premium and actuarial decisions. For students wishing to earn the Chartered Property and Casualty Underwriter (CPCU) designation, this course prepares students for the CPCU 540 examination.

IRM 3304 Insurance Operations (3-3-0)
Prerequisites: Completion of the common core (42 hours) plus 18 additional hours, and completion, or concurrent enrollment in BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
Examination of the composition, financial structure, and operations of the insurance industry. Special consideration is given to consumer problems and solutions. For students wishing to earn the Chartered Property and Casualty Underwriter (CPCU) designation, this course prepares students for the CPCU 520 examination.

IRM 3305 Risk Management Theory and Practice (3-3-0)
Prerequisites: Completion of General Education Core plus 18 hours and completion or concurrent enrollment in BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
Course integrates Enterprise Risk Management (ERM) processes for handling business risks faced by organizations including property and liability risks, and international loss exposures, with an emphasis on risk identification and analysis with alternative methods of risk control. Students who elect to take and successfully complete the national designation exam and project may earn the University Associate Certified Risk Manager (CRM) professional designation.

IRM 3306 Legal and Political Aspects of Insurance and Risk Management (3-3-0)
Prerequisite: Completion of the common core (42 hours) plus 18 additional hours, and completion, or concurrent enrollment in BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
Conceptual and institutional foundations underlying the regulation of the insurance industry at the national and international levels, financial oversight of insurers, and the regulation of insurance prices, products, and market conduct. For students wishing to earn the Chartered Property and Casualty Underwriter (CPCU) designation, this course prepares students for the CPCU 530 examination.

IRM 3310  Insurance in Estate Planning (3-3-0)
Prerequisite: IRM 3301.
Covers various aspects of insurance and its role in estate planning. For students wishing to earn the Chartered Financial Consultant (ChFC), Certified Financial Planner (CFP), Chartered Advisor for Senior Living (CASL), and Chartered Life Underwriter (CLU) professional designations, and who pass the national exam, course fulfills requirements for HS 330 course.

IRM 3312  Group Benefits (3-3-0)
Prerequisite: IRM 3301.
Analyzes group insurance benefits including the governmental environment, contract provisions, marketing, underwriting, rate making, plan design, cost containment and alternative funding methods. For students wishing to earn the Chartered Life Underwriter (CLU) or Registered Employee Benefits Counselor (REBC) designations, and who pass the national exam, course fulfills requirements for HS 325 course.

IRM 3399  Directed Study in Insurance and Risk Management
Prerequisite: Approval of program director, department Chair and college Dean.
Specialized research, reading, and study in insurance and risk management to meet the needs and interests of the individual student. Offered on an arranged basis only. 3.0 overall GPA and 3.3 IRM GPA required.

IRM 4303  Advanced Property Insurance and Application (3-3-0)
Prerequisite: IRM 3300.
Study of business insurance problem evaluation and planning with proposed solutions utilizing comprehensive coverage package programs. For students wishing to earn the Chartered Property Casualty Underwriter (CPCU) designation, course prepares students for the CPCU 551 examination.

IRM 4304  Advanced Casualty Insurance and Application (3-3-0)
Prerequisite: IRM 3300.
Examines property and liability loss exposures and their management, with primary emphasis on insurance. For students wishing to earn the Chartered Property Casualty Underwriter (CPCU) designation, course prepares students for the CPCU 552 examination.

IRM 4305  Special Projects (3-3-0)
Prerequisite: IRM 3300 and approval of director, department chair and dean.
Students will work with IRM faculty to research and complete a major term paper or project focused on a selected topic.

IRM 4308  Advanced Risk Management Theory and Practice (3-3-0)
Prerequisite: IRM 3305.
Course integrates enterprise risk management process and risk financing techniques. Students who elect to take and successfully complete the national professional designation exams or project may also complete requirements for Certified Risk Manager (CRM) designation practice sections.

IRM 4380  Field Experience in IRM (3-3-0)
Prerequisite: Approval of program director, department chair and college dean. 2.5 Overall UHD GPA and completion of 6 hours of IRM courses, including IRM 3300.
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair of your declared major.

IRM 4390  Special Topics in Insurance and Risk Management
Prerequisite: Approval of program director.
Investigation of significant topics or problems in insurance, risk management, and theory. May be repeated once for credit with departmental approval when topics vary.
ISS (Interdisciplinary Studies)

ISS 4098    Senior Portfolio for BS-ISS (0-0-0)
Prerequisite: BS-ISS major in senior year.
This non-credit course certifies that a degree requirement (submission of samples of a student’s coursework) has been fulfilled by students in the B. S. Interdisciplinary Studies program. Students enroll in the last semester of their senior year, i.e. in the term in which they plan to graduate. Students will submit a selection of their written work to complete the electronic Portfolio in Blackboard. The ePortfolio is graded S for Satisfactory or U for Unsatisfactory. Only a grade of S certified by the degree coordinator allows graduation.

LANG (Language)

LANG 1301    Elementary Language I (3-3-0)
LANG 1401    Elementary Language I (4-4-0)
LANG 1501    Elementary Language I (5-5-0)
LANG 1302    Elementary Language II (3-3-0)
LANG 1402    Elementary Language II (4-4-0)
LANG 1502    Elementary Language II (5-5-0)

This is a general course prefix for posting new, transfer, or credit-by-exam credits of a foreign language (FL) course where there is no home equivalent. New, transfer or credit-by-exam credits with the LANG prefix are utilized in UHD degree plans in the same way as home foreign language courses with the number 1401 and 1402 are utilized. The number of credits applied for transfer courses corresponds to the number of credits assigned to the course in the institution of origin. The number of credits applied for credit-by-exam credits corresponds to the number applied to UHD foreign language courses.

LANG 2301    Intermediate Language I (3-3-0)
LANG 2302    Intermediate Language II (3-3-0)

This is a general course prefix for posting new, transfer, or credit-by-exam credits of a foreign language (FL) course where there is no home equivalent. New, transfer or credit-by-exam credits with the LANG prefix are utilized in UHD degree plans in the same way as home foreign language courses with the number 2301 and 2302 are utilized.

MATH (Mathematics)

MATH 0300    Beginning Algebra (3-3-0)
Prerequisite: Students are placed in MATH 0300 based on TSI MATH score of less than 336.
This course is intended to build and reinforce the essential geometry, arithmetic and algebra skills needed for Intermediate Algebra (MATH 1300). Topics include real numbers and their properties, order of operations and simplifying real-valued expressions, simplifying algebraic expressions, solving linear equations and inequalities, solving systems of equations in two variables, an introduction to the Cartesian coordinate system and word problems. This course may not be used to satisfy degree requirements.

MATH 1201    Math Success Lab (2-0-2)
Prerequisite: Co-enrollment in MATH 0300 or MATH 1300.
Structured tutorial assistance designed to help students achieve success in MATH 0300 or MATH 1300. Tutoring provided by peer tutors under the supervision of a math instructor. Tutorial activities are structured around course homework and additional group or laboratory activities specifically designed for MATH 1201. Additional topics may include study skills, time management, goal setting,
and test-taking skills. Students may be charged a lab fee.

**MATH 1300  Intermediate Algebra (3-3-0)**
Prerequisite: A grade of C or better in MATH 0300 or TSI MATH score 336-349.
A survey of pre-college algebra is intended to build and reinforce the essential algebra skills needed for College Algebra (MATH 1301). Topics include operations with algebraic expressions, factoring, the Cartesian coordinate system, systems of 1st degree equations in two variables solved by graphical and algebraic methods, slope and distance formulas, integer and rational exponents, radicals, an introduction to quadratic equations and word problems. This course may not be used to satisfy degree requirements.

**MATH 1301  College Algebra (3-3-0)**
Prerequisite: A grade of C or better in MATH 1300, TSI MATH score 350, TSI MATH complete, or TSI MATH exempt.
College-level topics in algebra including variation, systems of equations, nonlinear inequalities, functions and their graphs, lines, quadratic equations and functions, complex numbers, polynomials, exponential and logarithmic functions, the algebra of functions, and applications related to these topics. (MATH 1314)

**MATH 1302  Plane Trigonometry (3-3-0)**
Prerequisite: A grade of C or better in MATH 1301 or placement by exam taken at UH-Downtown.
Trigonometric functions with emphasis on fundamental identities, radian measure, graphing, inverse trigonometric functions, solving triangles and trigonometric equations, vectors and applications related to these topics. (MATH 1316)

**MATH 1305  Finite Mathematics with Applications (3-3-0)**
Prerequisite: A grade of C or better in MATH 1301 or placement by exam taken at UH-Downtown.
Graphs and functions, vectors, matrices, linear programming using the Simplex method, mathematics of finance, and an introduction to probability with applications to business, economics and the social sciences. (MATH 1324)

**MATH 1306  Fundamentals of Calculus with Applications (3-3-0)**
Prerequisite: A grade of C or better in MATH 1301 or placement by exam taken at UH-Downtown.
Functions, limits, continuity, differentiation, integration and partial derivatives. Applications of all techniques to business, economics and the social sciences are stressed. (MATH 1325)

**MATH 1310  College Mathematics for Liberal Arts (3-3-0)**
Prerequisite: A grade of C or better in MATH 0300, TSI MATH score 343, TSI MATH complete, or TSI MATH exempt.
An introduction to contemporary mathematical ideas and problem-solving techniques. Designed for students requiring one college-level mathematics course. This course cannot be applied toward any degree in the Department of Mathematics and Statistics or the Department of Computer Science and Engineering Technology (MATH 1332)

**MATH 1404  Precalculus Mathematics (4-4-0)**
Prerequisite: A grade of C or better in MATH 1302 or placement by exam taken at UH-Downtown.
A thorough treatment of the elementary functions and their graphs including polynomials, rational functions, exponential functions and logarithms. Applications of the elementary functions to practical problems such as modeling are included. Topics from plane analytic geometry needed in calculus are also covered including polar coordinates, conic sections and parametric curves. Concludes with an introduction to sequences and series. (MATH 2412)

**MATH 1505  Precalculus with Trigonometry (5-5-0)**
Prerequisite: Department approval and a grade of B or better in MATH 1301.
A thorough treatment of the elementary functions and their graphs including polynomials, rational functions, exponential functions and logarithms, and trigonometric functions. Applications of the elementary functions to practical problems. Topics from trigonometry include fundamental identities, radian measure, graphing, inverse trigonometric functions and solving triangles and trigonometric equations. Topics from plane analytic geometry needed in calculus are also covered including vectors, polar coordinates, conic sections and parametric curves. Concludes with an introduction to sequences and series.

**MATH 2190-2490  Special Topics in Mathematics**
Prerequisite: Department approval.
Study of one or more major topics in sophomore-level mathematics. May be repeated for credit when topic varies.
MATH 2301  Introduction to Computational Mathematics (3-3-0)
Prerequisite: A grade of C or better in CS 1410 and credit or enrollment in MATH 2401.
This is a problem-solving applied mathematics and programming course that involves modeling, simulation, and visualization in a
computer algebra system (CAS) to be chosen by the instructor (MATLAB, Maple, or Mathematica). No prior knowledge of a CAS is
necessary. Students will be introduced to the CAS as a useful tool in computational mathematics, and will use it to implement and
solve problems covering a wide range of applications.

MATH 2401  Calculus I (4-4-0)
Prerequisite: A grade of C or better in MATH 1404 or 1505 or placement by exam taken at UH-Downtown.
Functions, limits, the derivatives of algebraic and trigonometric functions, curve sketching, applications of the derivative and an
introduction to the definite and indefinite integrals of algebraic and trigonometric functions. (MATH 2413)

MATH 2402  Calculus II (4-4-0)
Prerequisite: A grade of C or better in MATH 2401.
Topics include differentiation and integration of transcendental functions, techniques of integration, improper integrals and
applications of the integral, sequences and infinite series. (MATH 2414)

MATH 2403  Calculus III (4-4-0)
Prerequisite: A grade of C or better in MATH 2402.
Solid analytic geometry, partial derivatives, multiple integrals and line integrals. Applications of the calculus of functions of several
variables are also considered. (MATH 2415)

MATH 2405  Discrete Mathematics (4-4-0)
Prerequisite: A grade of C or better in MATH 1404 or MATH 1505, or both of MATH 1305 and MATH 1306, or placement by exam
taken at UH-Downtown.
Topics include logic, methods of proofs, sets, functions, and introductions to number theory, graph theory and combinatorics.

MATH 2407  Linear Algebra (4-4-0)
Prerequisite: A grade of C or better in MATH 2401 or MATH 2405 or MATH 2409.
An introduction to the basic concepts of linear algebra including systems of linear equations, matrices, vector spaces, linear
transformations, determinants, eigenvalues, eigenvectors, orthogonality and applications.

MATH 2409  Introduction to Proofs (4-4-0)
Prerequisite: A grade of C or better in MATH 1404 or MATH 1505, or in both MATH 1305 and MATH 1306.
This course is designed to introduce students to formal and informal languages of mathematics, and to ideas and techniques for
analyzing, constructing, and properly writing mathematical proofs. Specific topics may include propositional and quantificationnal
logic, analysis and synthesis of proofs, induction, sets, functions, rational and real numbers, elements of number theory and group
theory. This course serves as a gateway to other proof based courses, such as analysis and abstract algebra.

MATH 2411  Calculus I for the Natural Sciences (4-4-0)
Prerequisite: A grade of C or better in MATH 1404 or 1505 or placement by exam taken at UH-Downtown.
Study of the concepts of differentiation and integration with an emphasis on applications in the life sciences. Topics include
elementary functions and graphing, discrete models, discrete population models, limits, continuous functions, derivatives,
differentiation with biological applications, linear approximation, optimization, difference equations, stability, and integration with
biological applications.

MATH 2412  Calculus II for the Natural Sciences (4-4-0)
Prerequisite: A grade of C or better in MATH 2411 or 2401.
Topics include integration, approximation by Taylor series, differential equations, matrices, eigenvalues and eigenvectors, functions
of several variables, partial derivatives, tangent planes and linearization, systems of difference equations, systems of linear and
nonlinear differential equations, and equilibria and stability.

MATH 3190-3490 Special Topics in Mathematics
Prerequisite: Department approval.
Study of one or more major topics in junior-level mathematics. May be repeated for credit when topic varies.

MATH 3301  Differential Equations (3-3-0)
Prerequisite: A grade of C or better in MATH 2401 and MATH 2402. Credit or enrollment in MATH 2407 is recommended.
Ordinary differential equations, with emphasis on methods of solution of first order equations, homogeneous and non-homogeneous linear equations and systems of linear equations. Power series solutions of some linear equations and elementary applications are also covered.

MATH 3302  Probability and Statistics (3-3-0)
Prerequisite: A grade of C or better in MATH 2402.
Probability and statistics useful for science and engineering applications. Topics include: probability distributions, statistical inference, estimation, testing of hypotheses, linear regression and analysis of variance. Standard statistical packages are used. Credit may not be earned for both MATH 3302 and STAT 3309.

MATH 3303  Geometry for Teachers (3-3-0)
Prerequisite: A grade of C or better in MATH 1301 and junior standing.
Topics selected from: properties of angles, lines, triangles, polygons, polyhedra, circles, similarity and congruency of triangles, area perimeter, surface area, volume geometric constructions, transformations, tessellation, investigating patterns in geometry for problem solving, the Pythagorean Theorem, the coordinate plane and an introduction to geometric proofs. The NCTM’s Principles and Standards for School Mathematics and the Texas Administrative Code (TACs), Title 19, Part II, Chapter 111 will be referenced. The use of technology is included. This course is primarily designed for students in the Teacher Preparation program.

MATH 3306  Introduction to Modern Algebra (3-3-0)
Prerequisite: A grade of C or better in MATH 2407 (Linear Algebra) and MATH 2409 (Introduction to Proofs).
Topics include operations on sets, groups, Abelian groups, permutation groups, subgroups, the integers modulo n, cyclic groups, direct products, cosets, quotient groups, normal subgroups, group homomorphisms and isomorphisms, and an introduction to rings. Applications will include coding, networks, minimal spanning trees and linear machines, as time permits.

MATH 3307  Analysis I (3-3-0)
Prerequisite: Grade of C or better in MATH 2402 and MATH 2409.
A rigorous treatment of the elements of calculus and its foundations including techniques of proof, sets and functions, structure of the real number system, topology of reals, sequences, limits and continuity of functions of one real variable, differentiation and integration. Proof writing is emphasized.

MATH 3308  Numerical Methods (3-3-0)
Crosslisted as CS 3308. Credit may not be earned for both.
Prerequisite: Grade of C or better in CS 1408 or CS 1410, MATH 2407 and MATH 2402.
Develop and implement algorithms used in solving a variety of problems from science and engineering, including numerical solutions of linear systems of equations and nonlinear equations, curve fitting, approximation, numerical differentiation and integration, and numerical solutions of ordinary differential equations. Computer techniques are used in obtaining and analyzing numerical solutions.

MATH 3309  Number Theory (3-3-0)
Prerequisites: Grade of C or better in MATH 2405 and MATH 2409.
Elementary treatment of multiplicative and additive properties of integers with application to cryptography and data storage. The course serves as a gateway to modern algebra by introducing elementary examples of abstract algebraic concepts, and covers many famous topics like perfect numbers, Chinese Remainder theorem, Golden Ratio and the Fibonacci sequence, Pythagorean triples and the Last Fermat theorem. Other topics may include: modular arithmetic, prime factorization, primality testing, public key cryptosystems, quadratic residues, continued fractions, partitions and their generating functions.

MATH 3311  Differential Geometry (3-3-0)
Prerequisite: A grade of C or better in MATH 2402 and MATH 2407.
Geometry of curves and surfaces is introduced and applications are discussed. Topics will be selected from parametric equations, tangent and normal vectors, curvature and torsion, first and second fundamental forms, geodesics and isometries. Surfaces of constant curvature are discussed as models of non-Euclidean geometries.
MATH 3312  Set Theory (3-3-0)
Prerequisite: Grade of C or better in MATH 2405.
Topics include sets and set operations, relations and their properties, partitions of sets and equivalence relations, axioms of set theory, partially and totally ordered sets and their properties, mappings, cardinals and ordinals.

MATH 3313 Mathematics Topics for Secondary Teachers (3-3-0)
Prerequisite: Grade of C or better in MATH 2401 or MATH 1306.
Topics chosen from mathematical connections, historical perspectives, common conceptions and misconceptions, applications and technology relative to teaching and learning high school mathematics topics in algebra, discrete mathematics, geometry and calculus; problem solving theory and techniques over various topics including classic historical problems in mathematics. The NCTM’s Principles and Standards for School Mathematics and the Texas Administrative Code (TACs), Title 19, Part II, Chapter 111 will be referenced. The use of technology is included. Emphasis on conceptual understanding and developing the ability to provide both informal explanations and formal proofs.

MATH 3321 Math Concepts I (3-3-0)
Prerequisite: A grade of C or better in MATH 1301. Restricted to students in Urban Education or permission of MS department chair.
Topics are chosen from problem solving, logic, numeration systems, set theory, number theory, estimation and algebraic thinking. The NCTM's Principles and Standards for School Mathematics and the Texas Administrative Code (TACs), Title 19, Part II, Chapter 111 will be referenced. The use of technology is included.

MATH 3322 Math Concepts II (3-3-0)
Prerequisite: A grade of C or better in MATH 1301. Restricted to students in Urban Education or permission of MS department chair.
Topics are chosen from problem solving, proportional reasoning, probability, statistics, introductory geometry, estimation, systems of linear equations, measurement, motion geometry and symmetry. The NCTM's Principles and Standards for School Mathematics and the Texas Administrative Code (TACs), Title 19, Part II, Chapter 111 will be referenced. The use of technology is included.

MATH 3394 Undergraduate Research (3-3-0)
Prerequisite: Junior standing and departmental approval.
Individualized course designed to give students research experience and independent study skills in the context of higher mathematics. Students will work under the direction of a Mathematics & Statistics faculty member.

MATH 3399 Directed Study in Mathematics (3-3-0)
Prerequisite: Formal approval by department chair and dean.
Selected topics in mathematics; intensive individual study under the guidance of a member of the Mathematics & Statistics faculty.

MATH 3408 Numerical Methods (4-4-0)
Prerequisite: A grade of C or better in Math 2407 and Math 2401.
This computational and applied mathematics course analyzes and implements algorithms that are used in solving a variety of problems from science and engineering, including curve fitting, approximation, numerical differentiation and integration, numerical solutions of ordinary differential equations, and numerical solutions of linear systems of equations and nonlinear equations. Students are introduced to programming in a computer algebra system such as MATLAB, Maple, or Mathematica, and use it to obtain and analyze numerical solutions to such problems.

MATH 4190-4490 Special Topics in Mathematics
Prerequisite: Department approval.
Intensive study of one or more major topics in mathematics. Course may be repeated for credit with department approval.

MATH 4294 Senior Seminar (2-2-0)
Crosslisted as CS 4294, STAT 4294. Credit may not be earned for more than one. Prerequisite: COMM 1304, ENG 3302, senior standing, and department approval.
An intense, structured seminar. Students are exposed to the world community as it relates to their major (involving a written and oral report on cultural issues as well as discussion of these topics); ethics is discussed as it relates to the subject. In addition, students prepare a written proposal for a senior project. Attendance at departmental colloquia is also required.
MATH 4301  Advanced Numerical Methods for Science and Engineering (3-3-0)
Prerequisite: Grade of C or better in MATH 3308, MATH 2403 and MATH 3301.
Crosslisted with Math 5301.
Advanced topics in numerical mathematics, including the numerical solution of ordinary and partial differential equations and advanced methods in numerical linear algebra. Programming projects are stressed that use the computer to solve physical and engineering problems. This course may be used to fulfill the writing application course requirement with additional prerequisites of CS 4294, ENG 3302 and COMM 1304.

MATH 4302  Advanced Multivariable Calculus (3-3-0)
Prerequisite: Grade of C or better in MATH 2407 and MATH 2403.
Differentiability of real and vector valued functions; coordinate transformation in multiple integrals (Jacobian); line and surface integrals of real and vector-valued functions; Implicit Function Theorem; Green’s, Stoke’s and Divergence Theorems.

MATH 4303  Introduction to Topology and Functional Analysis (3-3-0)
Prerequisite: Grade of C or better in Math 3307.
A rigorous treatment of the basic concepts of point set topology and functional analysis including open sets, closed sets, compact sets, continuity, convergence, topological spaces, metric spaces, normed spaces, inner-product spaces, Banach and Hilbert spaces. Hanh-Banach Theorem, Open Mapping Theorem and Banach Fixed Point Theorem are discussed and proved.

MATH 4304  Introduction to Partial Differential Equations (3-3-0)
Prerequisite: C or better in Math 3301.
This course addresses the fundamentals of partial differential equations. It includes method of separation of variables, Fourier series; heat, wave, and Laplace equations; Sturm-Liouville eigen value problems; Fourier and Laplace transforms; nonhomogeneous problems; Green’s functions. This course can be taken as a writing (W) course. In this case, the student should get a formal approval by the department chair and the academic advisor.

MATH 4305  Complex Variables with Applications (3-3-0)
Prerequisite: A grade of C or better in MATH 2403 and MATH 3301.
Analytic functions, power series, the theory of residues, conformal mapping and applications to physical problems.

MATH 4306  Modern Algebra (3-3-0)
Prerequisite: A grade of C or better in MATH 3306 (Introduction to Modern Algebra).
Crosslisted with MATH 5306.
Topics from rings, polynomial rings, integral domains, fields, fields of quotients, unique factorization domains, quotient rings, ideals of rings, principal ideal domains, Galois theory, solvability of equations by radicals, and ruler and compass constructions.

MATH 4307  Analysis II (3-3-0)
Prerequisite: Grade of C or better in MATH 3307.
A rigorous treatment of the elements of calculus and its foundations including differentiation, Riemann integration, infinite series, sequences and series of functions, and metric spaces. Proof writing is emphasized.

MATH 4308  Introduction to Graph Theory (3-3-0)
Prerequisite: Grade of C or better in MATH 2405 and MATH 2407.
This course introduces some of the basic concepts in graph theory including; isomorphisms, graph invariants, spanning trees, connectivity, matchings, factors, graph coloring, and planarity. Additional topics, as time allows, may include; Ramsey theory, random graphs, extremal problems, complexity and NP-completeness.

MATH 4312  History of Applied Mathematics (3-3-0)
Prerequisite: Grade of C or better in MATH 2401 or MATH 1306 and department approval.
The course traces the development of mathematics and its applications from the Greek mathematicians through the modern age including the development of computer techniques in applied mathematics. This course may be used to fulfill the writing application course requirement with additional prerequisites CS/MATH 4294, ENG 3302 and COMM 1304.

MATH 4314  Differential Geometry (3-3-0)
Prerequisites: A grade of C or better in Math 2402 and Math 2407.
Crosslisted with MATH 5314.
Geometry of curves and surfaces is introduced and applications are discussed. Topics are chosen from parametric equations, tangent and normal vectors, curvature and torsion, first and second fundamental forms, geodesics and isometries. Surfaces of constant curvature are discussed as models of non-Euclidean geometries.

MATH 4315  Mathematical Modeling (3-3-0)
Prerequisite: A grade of C or better in MATH 3301.
The goal of this course is to impart to students the excitement and usefulness of mathematics and computer science as fundamental tools in solving real-world problems. The course focuses on functions as models for phenomena, on the development of a repertoire of techniques to be used in modeling, and on the interpretation and validation of the mathematical model. The course will provide students in mathematics, statistics, computer science, natural science or engineering the opportunity for undergraduate research. A term project using software will be required.

MATH 4333  Theory and Application of Neural Nets (3-3-0)
Crosslisted as CS 4333. Credit may not be earned for both. Prerequisite: A grade of C or better in MATH 2407, MATH 2403, and CS 2410.
Introduction to basic concepts of neural networks used in supervised and unsupervised learning. Several learning rules and algorithms will be presented along with applications.

MATH 4334  Fuzzy Logic: Theory and Applications (3-3-0)
Crosslisted as CS 4334. Credit may not be earned for both. Prerequisite: A grade of C or better in CS 2410 and MATH 2407.
This course will cover important ideas in the theory and applications of fuzzy logic as operations on fuzzy sets, alpha cuts, possibility measure, ruled based computations, associative memories and other topics as time permits.

MATH 4336  Neuro-Fuzzy Systems (3-3-0)
Crosslisted as CS/MATH 4336. Credit may not be earned for both. Prerequisite: MATH 2403, MATH 2407, and CS 2410. CS/MATH 4333 or CS/MATH 4334 recommended.
Advanced topics selected from fuzzy logic, regression and optimization, adaptive networks, neural nets, and neuro-fuzzy systems.

MATH 4380  Field Experience in Mathematics
Prerequisite: 60 semester hours, department approval, and grades of B or better in 6 hours of upper level math.
Selected students are placed in jobs in the local community which are related to and reinforce their academic training. Positions are full-time, salaried and last the duration of a semester. Recommended for students not already employed in their area of study.

MATH 4395  Senior Project in Mathematics
Crosslisted as CS 4395, STAT 4395. Credit may not be earned for more than one. Prerequisite: Senior standing, formal approval by the prospective project advisor and the department chair.
A project on a mathematics related topic under the guidance of a member of the Mathematics & Statistics faculty. Students will develop writing and oral presentation skills specific to mathematics by submitting a written report and giving public presentations. Students are required to select a project advisor in advance. Individual work is accompanied by regular progress reports and classroom instruction on writing and presenting papers. Examples include research, critical literature reviews and field studies. Course can be used to fulfill the writing skills requirement.

MATH 4396  Senior Thesis
Prerequisite: Formal approval of department chair and student’s advisor for MATH 4395.
Intensive study under the guidance of a member of the Mathematics & Statistics faculty which continues and expands the research carried out in MATH 4395. A formal written report and oral presentation will be required.

MATH 4399  Directed Study in Mathematics
Prerequisite: Formal approval by department chair and dean.
Intensive individual study under the guidance of a member of the Mathematics & Statistics faculty.
MBIO 1105  Microbiology Lab (1-0-3)
Prerequisite: Credit or enrollment in MBIO 1305.
Exercises and experiments which emphasize sterile techniques and other techniques used in the study of microorganisms in the clinical laboratory. (BIOL 2120)

MBIO 1305  Pre-nursing Microbiology (3-3-0)
Prerequisite: Credit or enrollment in MBIO 1105.
The morphology, classification, growth, physiology and genetics of microorganisms are covered, with emphasis on bacteria. Control of bacterial growth with antibiotics, antiseptics and disinfectants are also considered. Pathogenesis of disease-causing bacteria and the role of the immune system in protection from disease are studied.

MBIO 1310  Microbes and Society (3-2-2)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
An integrated lecture/laboratory course for non-science majors. This course will introduce the student to microorganisms including bacteria, fungi, protists and viruses and will explore their impact on humans. The numerous benefits of microorganisms (protection, food, genetic engineering, soil fertility, biofuels, recycling and bioremediation) will also be explored. Microorganisms that cause disease, food spoilage and corrosion will also be considered. This course will not satisfy the microbiology requirement for nursing schools.

MBIO 2105  General Microbiology Lab (1-0-3)
Prerequisite: Credit or enrollment in MBIO 2305.
Experiments which emphasize sterile technique, staining techniques, bacteria growth conditions, and biochemical tests used to identify microorganisms, phage testing, food microbiology, and Koch’s postulates. (BIOL 2121)

MBIO 2190-2490  Special Topics in Microbiology
Prerequisite: Varies according to topic.
Selected topics in lower-level microbiology according to the needs and interests of the students.

MBIO 2305  General Microbiology (3-3-0)
Prerequisite: BIOL 1302/1102 and CHEM 1308/1108 and credit or enrollment in MBIO 2105.
An introduction to microorganisms (bacteria, viruses, yeasts, algae and protozoa) with attention to morphology, physiology, genetics, taxonomy, and relationship of microorganisms to soil, water, food, industry and health. Credit for both BIOL 1305 and 2305 may not be applied toward a degree. (BIOL 2321)

MBIO 3150  Biology of Fungi Laboratory (1-0-3)
Crosslisted as BIOL 3140. Credit may not be earned for both. Prerequisite: Credit or enrollment in MBIO 3350.
A study of the principles and applications of techniques for isolation, culture, and identification of fungi; and a study of the characteristics of fungal growth, nutrition, metabolism, and genetics.

MBIO 3190-3490  Special Topics in Microbiology
Prerequisite: Varies according to topic.
Selected topics in junior-level microbiology according to the needs and interests of the students.

MBIO 3300  Undergraduate Research (3-0-0)
Prerequisite: Approval by the Natural Sciences Department, minimum GPA of 2.0, and permission of instructor.
Independent investigation of a specific topic or problem in microbiology research under the direction of a selected faculty member.

MBIO 3320  Virology (3-3-0)
Prerequisite: MBIO 2305/2105.
The various groups of viruses are studied with regard to their structure, characteristics, mechanisms of replication, applications to molecular biology and to disease processes.
MBIO 3340  Environmental Microbiology (3-3-0)
Prerequisite: Grade of C or better in MBIO 2305/2105.
The course will emphasize the impact of microorganisms on their environment. Topics include microbial diversity, microbiological interactions important in agriculture, medicine and biotechnology, biodegradation and bioremediation, and the impact of microbes in protective biofilms. Current methods for the detection of microorganisms and contamination control will also be discussed.

MBIO 3350  Biology of Fungi (3-3-0)
Crosslisted as BIOL 3340. Credit may not be earned for both. Prerequisite: BIOL 1302/1102, CHEM 1308/1108 and credit or enrollment in MBIO 3150.
A comprehensive study of fungi with emphasis on the Kingdom Fungi, but consideration of various other organisms with a fungal lifestyle. Topics include classification, phylogeny and diversity, asexual and sexual characteristics and life cycles, growth, sporulation, nutrition, physiology and metabolism, genetics, ecology, symbiotic and pathogenic relationships, medical mycology, and biotechnology.

MBIO 3399  Directed Study in Microbiology
Prerequisite: Approval of the department chair and the dean, junior standing, GPA of 3.0.
Intensive in-depth study of various topics under the guidance of a member of the biology faculty.

MBIO 4113  Parasitology Laboratory (1-0-3)
Crosslisted as BIOL 4113. Credit may not be earned for both. Prerequisite: Credit or enrollment in MBIO 4313.
Appropriate exercises and experiments that illustrate some of the basic techniques, concepts and facts presented in MBIO 4313.

MBIO 4120  Immunology Lab (1-0-3)
Prerequisite: Credit or enrollment in MBIO 4320.
Introduction to immunology laboratory techniques including agglutination, precipitation, neutralization and labeled immunoassays.

MBIO 4140  Medical Microbiology Lab (1-0-3)
Prerequisite: Credit or enrollment in MBIO 4340.
Techniques commonly used to identify clinically important pathogens and antibiotic testing.

MBIO 4190–4490  Special Topics in Microbiology
Prerequisite: Varies according to topic.
In-depth study of different topics in Microbiology and Immunology.

MBIO 4210  Microbiology Seminar (2-2-0)
Prerequisite: Senior standing or permission of the instructor, MBIO 2305/2105 and 8 hours of upper-level science.
Readings and student presentations of relevant articles from current scientific journals or the results of the research.

MBIO 4230  Advanced Laboratory in Cell and Molecular Biology (2-0-6)
Crosslisted as BIOL 4230. Credit may not be earned for both. Prerequisite: One of the following: BIOL 4320, BIOL 4330, CHEM 4140, MBIO 4310.
Introduction to modern techniques in the manipulation of genes, and their introduction and regulation in eukaryotic cells. Techniques include polymerase chain reaction, in vitro mutagenesis, and fluorescence microscopy. Laboratory work emphasizes the design and carrying out of student-designed protocols.

MBIO 4310  Microbial Biotechnology (3-3-0)
Prerequisite: A grade of C or better in MBIO 2305/2105, BIOL 3303/3103 and 8 additional hours of upper-level science.
Fundamental principles of biotechnology with emphasis on microbial systems, genetic improvement, and practical applications.

MBIO 4313  Parasitology (3-3-0)
Crosslisted as BIOL 4313. Credit may not be earned for both. Prerequisite: BIOL 1302/1102, CHEM 1308/1108, and credit or enrollment in BIOL 4113.
Introduction to parasitism as a biological concept and a survey of specific parasites of medical and veterinary importance. Additional topics include the relationship of opportunistic parasites in the treatment of AIDS, immunodiagnosis and the status of vaccine development for parasitic diseases.
MBIO 4320  Immunology (3-3-0)
Prerequisite: A grade of C or better in MBIO 2305/2105, BIOL 3303/3103, and credit or concurrent enrollment in MBIO 4120.
Innate immune response including latest advances, and detailed study of the adaptive immune response including B and T cell biology, macrophages, complement, hypersensitivities, transplantation and tumor biology.

MBIO 4330  Microbial Genetics (3-3-0)
Prerequisite: BIOL 3303/3103, MBIO 2305/2105.
This course will introduce the students to the field of bacterial molecular genetics, focusing on the mechanisms that bacteria have developed to evolve and adapt to changing environments. The molecular mechanisms of mutagenesis and gene transfer, along with the elements involved in these processes (plasmids, phages, transposons) and their regulation will be studied. These foundation concepts are needed to apply genetic approaches to explore microbial and evolutionary higher biological systems.

MBIO 4340  Medical Microbiology (3-3-0)
Prerequisite: A grade of C or better in MBIO 2305/2105, BIOL 3303/3103 and credit or enrollment in MBIO 4140.
Microbial pathogens, clinical characterization, disease symptoms, mechanisms of pathogenesis, and chemotherapy.

MBIO 4380  Field Experience in Microbiology
Prerequisite: At least 85 hours and departmental approval.
Field experience integrates theory learned in microbiology courses with practical laboratory and field experiences. May be repeated for additional credit; six hours may be applied toward degree in microbiology.

MBIO 4399  Senior Honors Thesis
Prerequisite: Senior standing and enrollment in the Honors Program in the Natural Sciences.
A research project, supervised by a member of the natural sciences faculty or scientist at an affiliated research institution or laboratory. The completed research project must be presented in both written and oral form to the science faculty. No more than six hours credit for this course may be applied toward a degree.

MGT (Management)

MGT 3301  Principles of Management and Organization Behavior (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and completion of, or enrollment in, BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
This is a survey course of the field of management. As a core course in the business major, it serves to familiarize students with the basic management functions of planning, organizing, leading/directing/motivating, and controlling. The course begins with the evolution of management thought and includes theoretical frameworks for the basic management functions and for employees’ behavior within the organization. Topics include coverage of planning/strategic planning, decision making, communication, motivation, leadership, and power and influence, as well as organizing and organization design.

MGT 3302  Foundations of Human Resource Management (3-3-0)
Prerequisite: MGT 3301 and completion of, or enrollment on, BA 3300.
This course introduces the basic Human Resources (HR) knowledge required of HR professionals as well as operational managers. The course introduces the core functions of Human Resource Management (HRM; i.e., talent acquisition, talent management, compensation, labor/employee relations, legal environment, and strategic HRM).

MGT 3303  Negotiations with a Global Perspective (3-3-0)
Crosslisted as SCM 3303. Credit may not be earned for both. Prerequisite: Completion of the common core plus 18 additional hours, and completion of, or enrollment in, BA 3300 or department approval.
Process of negotiation, human behavior involved in negotiations, techniques of communication, persuasion, strategy, tactics and formulation of game plans. Practical exercises in mock negotiations.

MGT 3304  Labor Management Relations (3-3-0)
Prerequisite: MGT 3302 and completion of, or enrollment in, BA 3300.
Current issues and problems facing management in its relationships with employees, government and the community. The management-union relationship, governmental actions affecting this relationship and trends in the composition of the work force.
MGT 3306  Compensation Management (3-3-0)
Prerequisite: MGT 3302 and completion or, or enrollment in, BA 3300.
Installation and administration of a wage and salary program. Evaluation of personnel, government and union influence and the implementation and maintenance of various incentive plans and fringe benefit packages.

MGT 3307  Diversity Management (3-3-0)
Prerequisite: MGT 3301 and completion or, or enrollment in, BA 3300.
This course examines both the individual perspective on diversity on one’s work experience and the impact of diversity on organizational performance. The course examines various forms of diversity (e.g., culture, gender, race, ethnicity, religion, age, disability, sexual orientation), discusses diversity as a bottom-line necessity for today’s organizations, and diversity management as a managerial competency. The ability to relate to and effectively manage people is critical to organizational success and this course is designed to prepare individuals to meet the challenge of diversity management through experiential exercises and applied projects.

MGT 3310  Service Operations Management (3-3-0)
Prerequisite: STAT 3309 or SOS 3312, completion of the common core plus 18 additional hours, and completion of, or enrollment in, BA 3300.
Analysis and application of operations management concepts to services. The practical application of service operations management techniques will be emphasized with case analyses derived from a variety of service industries.

MGT 3314  Six Sigma for Managing Process Improvement Projects (3-3-0)
Prerequisite: STAT 3309 with a C or better, MGT 3301.
This course provides a comprehensive overview of Six Sigma methodologies for managing process improvement projects. Topics in the course include an overview of the process improvement perspectives of Joseph Juran and W. E. Deming, foundations and principles of Six Sigma, defining the Six Sigma project, process measurement, process analysis, process improvement, process control, and project implementation.

MGT 3320  Project Change Management (3-3-0)
Prerequisite: MGT 3332.
This course addresses the primary changes encountered in a project (scheduling changes, budget changes and scope changes) as well as the roles and responsibilities to facilitate necessary changes by the project sponsor, the project manager, and the project team/stakeholders. The integration of change management principles and activities throughout the project life cycle detailed in this course will be aligned with Project Management Institute standards.

MGT 3325  Retail Management (3-3-0)
Prerequisite: BA 3300 or HUM 3310 or CJ 3300.
Crosslisted courses: MKT 3330.
This course provides an overview of the retailing industry and the nature and functions of retail organizations. Special emphasis is placed on the managerial aspects of retailing including product and site selection, store operations, and the development of the store image.

MGT 3332  Operations and Supply Chain Management (3-3-0)
Prerequisite: MGT 3301 and a grade of C or better in STAT 3309, and completion of, or enrollment in, BA 3300.
An introduction to operations management with applications to manufacturing and service industries. This course will examine operations management in the context of the larger supply chain. Students will learn how value is created through the integrated production and distribution of goods, services, and information. Topics include: probability and statistics, breakeven analysis, product/process design, queuing, forecasting, project management, inventory management, quality management, and operations strategy including facility location, facility layout and distribution.

MGT 3399  Directed Study in Management
Prerequisite: Approval of department chair and dean.
Selected topics in management; intensive individual study under the guidance of a member of the management faculty.

MGT 4301  International Management (3-3-0)
Prerequisite: MGT 3301.
International management is concerned with effective strategic, organizational and interpersonal management in a dynamic global environment. This course will focus on the strategic and organizational challenges involved in managing activities and personnel across borders, in an increasingly interconnected world. The following topics will be considered from a global perspective: the economic, political, legal and technological environment affecting social responsibility and ethics; the role of culture; the formulation and implementation of strategy from organizational and market perspectives; and the human resources management staffing, training and compensation issues.

MGT 4303  Small Business Management (3-3-0)  
**Prerequisite:** BA 3300 and completion of the common core plus 18 additional hours.  
An overview of the elements necessary for a small business to be developed, introduced into the marketplace, and successfully managed. Emphasis is placed on building a business plan.

MGT 4308  Leading People and Teams (3-3-0)  
**Prerequisite:** BA 3300, MGT 3301, or instructor approval.  
This course focuses on developing the skills required to lead self and others in today’s complex business environment. Students will practice skills and discuss best practices related to managing relationships, interacting with others, and leading teams. The course will also examine contemporary models of workplace diversity and strategies for creating inclusive organizations.

MGT 4310  Staffing, Recruitment and Selection (3-3-0)  
**Prerequisite:** MGT 3302.  
Staffing is a primary function performed within the human resource area, especially in large organizations. In preparing students to work in the staffing function, the course focuses on the applied aspects of recruiting employees, performing initial screenings and interviews of job applicants, verifying references and credentials, administering selection tests/devices and providing documentation of results that will move job candidates on to the line managers to make the final hiring decisions. The course will also address the strategic and legal issues in selection, the role of job analysis, the measurement and decision-making issues, the recruiting and screening instruments, interviewing and ability testing and how these methods contribute to the broader staffing strategies of organizations.

MGT 4314  Quality Management (3-3-0)  
**Prerequisite:** BA 3300, MGT 3301, and a grade of C or better in STAT 3309.  
A comprehensive study of management and technical issues in quality management. Topics include quality management philosophies, TQM, customer satisfaction, continuous improvement, organization and implementation of quality, quality assurance, and statistical process control.

MGT 4330  Project Management (3-3-0)  
**Prerequisite:** BA 3300 and a grade of C or better in MGT 3332.  
Techniques for planning, scheduling and controlling are presented with the use of software tools. Emphasis is placed on problem solving skills and project team development. Students will utilize techniques presented in this course to successfully complete a real-world project related to management.

MGT 4332  Spreadsheet Modeling for Decision Analysis (3-3-0)  
**Prerequisite:** MGT 3301 and a grade of C or better in STAT 3309.  
In this course, students will learn to analyze and solve managerial decision problems using spreadsheet modeling techniques. Spreadsheet decision models covered in the course will include decision analysis models, forecasting and linear regression models, linear and nonlinear optimization models, and simulation models.

MGT 4335  Integrated Process Management (3-3-0)  
**Prerequisite:** MGT 3332.  
This course uses a holistic view toward management across all functional areas of the business through integration of processes with a focus toward continuous process improvement. Topics will relate to impact assessment of managerial decision making within and across functional boundaries.

MGT 4345  Leadership in Organizations (3-3-0)  
**Prerequisite:** MGT 3301.  
The purpose of this course is to help students become successful leaders in organizations. Leadership involves a set of knowledge
and skills that anyone can learn and this course reviews the latest research on leading effectively. The course covers subjects such as leadership traits and styles, effective leadership practices, motivating and inspiring others, developing followership, and leading organizational change.

MGT 4380  Field Experience in Management
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

MGT 4390  Special Topics in Management (3-3-0)
Prerequisite: Approval of instructor or department chair.
Intensive study of one or more major topics in management. May be repeated for credit with departmental approval when topics vary.

MGT 4391  Special Topics in Purchasing
Prerequisite: Approval of instructor or department chair.
Intensive study of one or more major topics in purchasing and materials management, especially with respect to new or emerging areas. Course may be repeated for credit with departmental approval when topics vary.

MIS (Management Information Systems)

MIS 1301  Introduction to Computer Based Systems (3-3-0)
Prerequisite: MATH 1300.
An overview of computer information systems, including computer hardware, software, procedures and systems, and human resources and their application in today's technological society. (Does not satisfy degree requirements in Engineering Technology.) (COSC 1301)

MIS 3301  Systems Analysis and Design (3-3-0)
Prerequisite: A grade of C or better in MIS 3302.
Terminology, concepts, skills, and techniques to effectively analyze and develop business information systems in a team environment. Topics include systems analysis and design utilizing the Systems Development Life Cycle (SDLC) methodology to provide a strong conceptual and systematic framework. In addition, students acquire knowledge of project management, understand the importance of security coding practices, and become aware of total cost of ownership and various compliance and legal issues. Furthermore, students are introduced to the new IT trends in systems development such as agile development, extreme programming, rapid application development (RAD), and the Unified Modeling Language (UML).

MIS 3302  Management of Information Systems (3-3-0)
Prerequisite: Completion or enrollment in BA 3300.
A survey course dealing with the managerial and technical environments within which computer information systems exist in business organizations. The student is introduced to a wide range of topics pertaining to the business use of information systems technology including systems development, computer operations, ethical and societal issues in information systems, and emerging technologies.

MIS 3304  Business Productivity Software Tools (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours.
This course explores beyond the introductory level the most common productivity software applications and some software development tools used in business. Productivity programs are tools that you can use to create documents, presentations, tables, charts, and graphs. In this course, students learn the advanced features of various productivity programs such as word processing software, spreadsheets, presentation software, and database management systems. Examples of topics are working with document collaboration and integration tools, defining and using macros within word processing and spreadsheet applications, administering a database system, and basic software development using a visual programming language. Students will also learn how to select the appropriate software to cater to specific business needs.

MIS 3305  Business Analysis & Processes (3-3-0)
Prerequisite: A grade of “C” or better in MIS 3302 or ACC 3304 (or approval of Instructor for non-business majors).
This course explores what it takes to become a successful business analyst. The focus is on preparing students to consider
pursuing CBAP certification (Certified Business Analyst Professional). The course explores the entire range of approaches and techniques needed to conduct business analysis successfully, including investigating business issues, modelling processes, defining requirements and producing rigorous business cases. These topics are addressed both within and beyond a specific project, with attention paid to managing change within the organization. Students also hone their ability to communicate as liaison between IT and a general business audience.

MIS 3306 Database Management Systems (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and a grade of C or better in MIS 3302.
This course introduces the development of computer-based systems to manage business data. The organizational context of database management, concepts of data modeling and database design are presented. Data file management, database administration issues, database implementation, data retrieval using query languages, database technologies and graphical user interface functions are introduced in this course. Career and specialties exploration related to managing data and information is also covered.

MIS 3307 Data Lifecycle & Management (3-3-0)
Prerequisite: Completion of MIS 3306 with a grade of C or better.
This course covers information management concepts, data solvency, how data works in applications and systems, introduction to business intelligence fundamentals, master data management, data security, data classification, physical data, and data privacy. The careers and specialties related to managing data and information are explored.

MIS 3311 Programming Languages: Procedural, Nonprocedural and Fourth Generation (3-3-0)
Prerequisite: Completion of MIS 3302 with a grade of C or better.
Students are guided in the development of programs and implementation of systems through the use of procedural, nonprocedural and fourth generation languages. The major strengths and weaknesses of each group in business systems applications are surveyed.

MIS 3313 Designing and Developing Business Web Applications (3-3-0)
Prerequisite: Grade of C or better in MIS 3302 or ACC 3304 (or approval of Instructor for non-business majors).
An introduction to the technologies and languages used to develop and operate business and e-commerce Web sites with focus on client-side technologies. Topics include but are not limited to the architecture of WWW, usability of Web site designs, programming practices, HTML5, CSS, extensible markup language (XML), Dynamic Object Model (DOM), and Dynamic HTML (DHTML).

MIS 3315 Enterprise Architecture (3-3-0)
Prerequisite: Grade of C or better in MIS 3302 or ACC 3304 (or approval of Instructor for non-business majors).
This course explores the design, selection, implementation and management of enterprise IT solutions. The focus is on applications and infrastructure and their fit with the business. Students learn frameworks and strategies for infrastructure management, system administration, content management, distributed computing, middleware, legacy system integration, system consolidation, software selection, total cost of ownership calculation, IT investment analysis, and emerging technologies. These topics are addressed both within and beyond the organization, with attention paid to managing risk and security within audit and compliance standards. Students also hone their ability to communicate technology architecture strategies concisely to a general business audience.

MIS 3316 Supply Chain Information and Control Systems (3-3-0)
Crosslisted as SCM 3316. Credit may not be earned for both.
Prerequisite: Completion of the common core plus 18 additional hours and MATH 1305, and completion of, or enrollment in, BA 3300.
Supply chain information systems including theoretical and practical understanding of hardware and software operations in the supply chain. Includes inventory management and tracking, supplier evaluation, physical distribution systems, and customer service using information systems. Technology includes bar coding, radio frequency tracking, and other automated data entry techniques. Examines role of documentation in domestic and international trading use of commercial invoicing, packing lists, ocean bills of lading, freight forwarding booking requests, shipper's export declarations, and certificates of origin.

MIS 3317 Information Systems Infrastructure (3-3-0)
Prerequisite: A grade of "C" or better in MIS 3302 (or Instructor approval for non-business majors).
This is a study of data communications and networking technologies, hardware, and systems. These include digital data communication technologies, microcomputer-based networking and workstation components, local and wide area networks, management of networks, intelligent computer load sharing networks, distributed and decentralized data processing, architectural configurations, and emerging technologies.
MIS 3318 Enterprise Systems using SAP (3-3-0)
Prerequisite: A grade of “C” or better in MIS 3302 or ACC 3304 (or Instructor approval for non-business majors).
This course is designed to provide students with an understanding of the theoretical and practical issues related to the application of enterprise systems within organizations. The main focus of this course is to demonstrate how enterprise systems integrate information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools. Enterprise systems, by their multidimensional integrative nature, offer the depth of functionality and breadth of integration to demonstrate how global operations of organizations are managed. Thus, students will gain an appreciation of the scope of enterprise systems and the motivation for implementing them. SAP software will be used by students to complete an integrated project, which illustrates how enterprise systems work.

MIS 3330 Programming and Application Development (3-3-0)
Prerequisite: Junior standing and a grade of C or better in MATH 1305 and in MATH 1306 or MATH 2401.
This is an introduction to the fundamental concepts of computer programming using an object-oriented approach. Topics include the program and algorithm design, coding, debugging, functional decomposition, variable/array handling, data input/output, conditional logic, execution control, iteration, and file handling. Students apply these tools to solve common business programming problems. Fundamental concepts and life cycle of application development are discussed.

MIS 3399 Directed Study in Enterprise Information Systems
Prerequisite: Approval of department chair and dean.
Selected topics in computer information systems. Intensive individual study under the guidance of a member of the MIS faculty.

MIS 4309 Computer Control and Audit (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, MIS 3302 and ACC 2302.
Crosslisted as ACC 4309. Credit may not be earned for both.
A study of the skills, tools and procedures needed to effectively evaluate computer-based information systems controls. Concepts and techniques used in Information Systems Audits are examined from general, industry-specific and technological perspectives. Exposure to business impact analysis, risk analysis and disaster recovery analysis is provided with emphasis on varying requirements of the business community.

MIS 4310 Information Systems Project Management (3-3-0)
Prerequisite: A grade of C or better in MIS 3302.
Processes, methods, techniques and tools utilized to effectively manage computer-related hardware and software projects including networking, infrastructure, and software design and development projects in a team environment. Topics include initiating, planning, executing, controlling, and closing business information systems projects. In addition, information systems development methodologies including Evolutionary, V-Model, and Lean Software Development are introduced. Furthermore, various types of technologies including project management software as well as software to support group collaboration are utilized.

MIS 4312 Application Analysis, Design, and Implementation (3-3-0)
Prerequisites: Senior standing and a grade of “C” or better in the following courses: MIS 3301, MIS 3306, MIS 3315, MIS 3317, at least one from MIS 3330 and MIS 3313.
Prerequisite/Corequisite: MIS 4310 Information Systems Project Management.
This is a capstone course covering the analysis, design and implementation of business applications and information systems. Emphasis is placed on the development of a computer application through life cycle methodology. In addition, students acquire additional knowledge in the specific concepts and skills of project management, and understand the importance of security coding practices. Students apply project management methods, project scheduling and control techniques, formal presentations and group dynamics in the analysis of information systems.

MIS 4313 Electronic Commerce (3-3-0)
Prerequisite: A grade of C or better in MIS 3302.
Introduction to the business and technical aspects of electronic commerce. Topics include types and models of commerce, software and hardware needs, payment methods, legal, ethical issues, privacy, and security issues, business plans for electronic commerce ventures, issues related to electronic government, and emerging electronic commerce solutions. Web server configuration, security algorithms and implementations, Web mining, server extensions, Web agents, and current design techniques are covered. Students will develop prototypes of Electronic Commerce sites with database interfacing, data validation, and server-side scripting/programming.
MIS 4316  Information Security Management (3-3-0)
Prerequisite: A grade of C or better in MIS 3302 and MIS 3317 (or approval of instructor for non-business majors).
This course considers the technical, operational, and managerial issues of computer systems and network security in an operational environment. The course will address the threats to computer security including schemes for breaking security, and techniques for detecting and preventing security violations. Emphasis will be on instituting safeguards, examining the different types of security systems, and applying the appropriate level of security for the perceived risk.

MIS 4320  Business Intelligence (3-3-0)
Prerequisite: A grade of "C" or better in MIS 3302 or ACC 3304 (or approval of instructor for non-business majors).
This course introduces Business Intelligence including the processes, methodologies, infrastructure, and current practices used to transform business data into information to support business decision-making such as performance evaluation, trend spotting, and policy making. Students are introduced to managerial issues, analytical components, and technologies related to data warehousing, data/text/Web mining, visual analytics along with reporting options such as management dashboards and balanced scorecards.

MIS 4340  Information Systems Strategy, Acquisition, and Management (3-3-0)
Prerequisites: Senior standing and a grade of "C" or better in the following courses: MIS 3301, MIS 3306, MIS 3315, MIS 3317, MIS 3330.
Corequisite: MIS 4310 Information Systems Project Management.
A capstone course in the Enterprise Information Systems major takes a senior management perspective in exploring the acquisition, development and implementation of plans and policies to achieve efficient and effective information systems (IS). The course focuses on developing an intellectual framework that will allow leaders of organizations to critically assess existing IS infrastructures and emerging technologies as well as how these enabling technologies may affect organizational strategy. Students will study developing information technology (IT) strategy for business value, IT governance including the IT budgeting process and IT sourcing options, and IT capability management including managing IT-based risk and linking IT to business metrics. Students will use the case study method to apply said strategies to management issues within an IS context.

MIS 4380  Field Experience in MIS (3-0-0)
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

MIS 4390  Special Topics in Management Information Systems (3-3-0)
An investigation of the rapidly changing field of MIS, including such topics as computers and society, micro-and minicomputers and computer simulation models.

MKT 3301  Principles of Marketing (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours and completion of, or enrollment in, BA 3300. BA 3300 may be waived upon completion of HUM 3310 or CJ 3300.
Factors involved in the management of the marketing function relative to product development, promotion, pricing, physical distribution and the determination of marketing objectives within the framework of the marketing system and available markets.

MKT 3302  Personal Selling (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours; and completion of, or enrollment in, BA 3300 or department approval.
A development of the selling skills, knowledge and techniques required for effective consumer and industry selling. Emphasis is placed on learning and using prospecting skills, assessing customer needs, building reports, establishing benefit connections, handling objections and closing techniques to build long-term relationships.

MKT 3303  Business Marketing (3-3-0)
Prerequisite: MKT 3301 or departmental approval and completion of, or enrollment in, BA 3300.
Industrial or business marketing focuses on those activities that facilitate exchanges of products and services among businesses. Business markets differ from consumer markets in distinct ways that require different marketing practices. This course explores the application of marketing principles such as segmentation, positioning, promotion, distribution, pricing and product development to
industrial and business markets.

**MKT 3304  International Marketing (3-3-0)**
Prerequisite: MKT 3301 and completion of, or enrollment in, BA 3300.
An examination of the problems, systems, procedures and general environment of international marketing, including differences in cultural and marketing practices among nations.

**MKT 3305  Integrated Marketing Communication (3-3-0)**
Prerequisite: MKT 3301 or departmental approval and completion of, or enrollment in, BA 3300.
This course provides a comprehensive review of the major promotional tools and how they can be integrated for effective communication programs. The major promotional mix elements and media options including the newer forms such as social media are discussed. Students will explore different communication objectives, and learn how promotional tools can be best utilized to develop strong communication programs.

**MKT 3308  Digital Marketing (3-3-0)**
Prerequisite: BA 3300, MKT 3301.
A comprehensive review of the principles, framework, technology and tools for implementing effective marketing programs via the internet. Students will explore digital marketing programs for both consumer and industrial/organizational markets.

**MKT 3310  Marketing Channels (3-3-0)**
Prerequisite: MKT 3301 and completion of, or enrollment in, BA 3300.
Design, implementation and management of marketing channels. Topics include market segmentation for channel design, channel structure and flows, channel integration, alliances, and legal constraints, performance measurement, channel institutions, and the role of logistics and supply chain management in marketing channels.

**MKT 3320  Social Media Marketing (3-3-0)**
Prerequisites: BA3300 and MKT3301
This course explores the use of social media in marketing. The advantages and disadvantages of different social media tools to build customer loyalty, brand awareness, and brand preference are examined. Students learn to build an integrated social media marketing campaign.

**MKT 3330  Retail Management (3-3-0)**
Prerequisite: BA 3300 or HUM 3310 or CJ3300.
Crosslisted courses: MGT 3325.
Overview of the retailing industry and the nature and functions of retail organizations. Special emphasis is placed on the managerial aspects of retailing including product and site selection, store operations, and the development of the store image.

**MKT 3340  Customer Relationship Management (3-3-0)**
Prerequisite: MKT 3301.
The retention of customers is the key outcome of good customer relationships. This course covers the key elements in a customer relationship management program. Loyalty programs, RFM analysis, customer lifetime value calculations and the use of customer relationship management to support the sales functions are studied.

**MKT 3350  Mobile, Web, and Email Marketing (3-3-0)**
Prerequisite: BA3300, MKT3301.
This course provides practical applications for web-based content and the marketing tools used to bring customers to the content. Best practices in building web-based content, the effective use of online advertising, email, and mobile marketing to attract customers are covered. Search engine optimization and its role in attracting visitors to a web site are explained.

**MKT 3360  Product Innovation Management (3-3-0)**
Prerequisite: BA3300, MKT3301.
Product innovations satisfy needs in creative ways and provide practical and emotional benefits to consumers and organizations. This course identifies sources of new product ideas, trade-offs in new product decisions, incorporation of other marketing mix components in new product development, and ways to manage the entire new product process. Covers the importance of marketing research in all phases of new product conceptualization, development and commercialization.
MKT 3399  Directed Study in Marketing
Prerequisite: Approval of department chair and dean.
Selected topics in marketing; intensive individual study under the guidance of a member of the marketing faculty.

MKT 4304  Supply Chain Logistics Management (3-3-0)
Crosslisted as SCM 4307. Credit may not be earned for both. Prerequisite: BA 3300, SCM 3308, or MKT 3301, or instructor approval.
The overall logistics process for time and place utility of products. Topics include customer accommodation distribution strategy; planning and scheduling; inventory, packaging and storage strategy and management; transportation infrastructure and regulation; transportation management; logistics network integration and system design processes; organization and relationship management; and performance and financial assessment.

MKT 4305  Buyer Behavior (3-3-0)
Prerequisite: BA 3300 and MKT 3301.
An in-depth study of buying behavior in both the B2B and the B2C markets. Students will review the stages in the decision making process for both markets and the internal (psychological) and external (social, environmental) influences which affect the processes.

MKT 4306  Marketing Research (3-3-0)
Prerequisite: BA 3300, STAT 3309 and MKT 3301 or departmental approval.
Marketing research supports marketing programs by providing information that describes and predicts market behavior. The marketing research process includes problem formulation, research design, data collection, data analysis and report writing. All aspects of marketing research are covered in this course with particular emphasis placed on research designs that will support decision-making.

MKT 4308  Exporting and Importing (3-3-0)
Prerequisite: BA 3300 and MKT 3301 or departmental approval.
Accessing global markets is the focus of this course. Strategies and practices for entering and expanding foreign markets require consideration of cultural, political, business and legal customs. Learning the procedures and marketing practices needed to establish an export/import business is emphasized.

MKT 4309  Marketing Strategy (3-3-0)
Prerequisite: BA 3300, MKT 3301 and 9 hours of Marketing or departmental approval.
This course incorporates all aspects of the marketing mix and marketing activities to support the development of marketing plans. The role of marketing strategies in complementing the strategies of other functional areas of the organization will be covered. Techniques for implementing, evaluating and modifying marketing plans will be studied.

MKT 4310  Seminar in Retail Strategy (3-3-0)
Prerequisite: BA 3300, MGT 3301, MKT 3301, and an additional 3 hrs in MGT or MKT.
The capstone course for the minor in retail management. Emphasizes strategy and management of retail outlets including current issues in retailing. May include cases, simulations, and advanced analytical techniques.

MKT 4320  International Business Development (3-3-0)
Prerequisite: BA3300, MKT3301, MKT3302.
This course covers the key areas necessary for developing business opportunities in global markets. Special emphasis on culture and its effects on sales strategies and tactics, customer relationship management implementation, and customer behaviors are studied. Data selection and interpretation and the role of data in guiding global business development decisions will be explored.

MKT 4330  Understanding the Digital Consumer (3-3-0)
Prerequisite: BA3300, MKT3301, MKT3308.
This course explores the theory and practice of online consumer behavior. The psychology, sociology, economics, and motivation of the online audience for community, engagement, expression, information, and purchase are explored. Consumer engagement across a variety of digital media platforms is covered, including principles of user experience design and human-computer interaction.
MKT 4340  Marketing Analytics (3-3-0)
Prerequisite: BA3300, MKT3301, MKT4306.
This course prepares future marketing managers to (1) appreciate the value of competitive advantages leveraged by analytics; (2) understand the advantages and limitations of analytical tools; and (3) apply and use analytical tools in decision-making. The course covers the benefits of a systematic, analytical approach to marketing decision-making, and builds the skills, knowledge and confidence to use marketing analytics.

MKT 4380  Field Experience in Marketing
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

MKT 4390  Special Topics in Marketing
Prerequisite: Approval of department chair.
Intensive study of one or more major topics in marketing, especially with respect to a new or emerging area.

MSCI (Military Science)

MSCI 1125  Beginning Physical Training (1-0-3)
Prerequisite: Cadet Command Form 3425 must be on file prior to the first day of class.
Open to all students. Offered in the fall semester. Utilizes Army fitness techniques; develops strength, flexibility and endurance; develops self-confidence through leadership training and physical activities.

MSCI 1126  Beginning Physical Training (1-0-3)
Open to all students. Offered in spring semesters. Continuation of MSCI 1125.

MSCI 1131  Physical Readiness Training (1-0-6)
Prerequisite: Must be ROTC cadet and have completed MSCI 1126. Cadet Command Form 3425 must be on file prior to the first day of class.
Physically demanding. Develops improved strength and stamina utilizing Army fitness techniques.

MSCI 1210  Introduction to Leadership (2-1-2)
Prerequisite: Cadet Command Form 3425 must be on file prior to first day of class.
Open to all students. No military commitment required. Learn principles of effective leadership and reinforcement of self-confidence through participation in physically and mentally challenging training with upper division ROTC students; development of communication skills to improve individual performance and group interaction. Relate ethical values to the effectiveness of leadership. Laboratory required.

MSCI 1220  Introduction to Leadership II (2-1-2)
Cadet Command Form 3425 must be on file prior to first day of class.
Open to all student. No military commitment required. Characteristics of leadership, problem analysis, problem solving, decisions making, oral presentations, first aid, small unit tactics, land navigation. Laboratory is required.

MSCI 2210  Foundations of Leadership (2-2-2)
Prerequisite: Cadet Command Form 3425 must be on file prior to first day of class.
Open to all students. No military commitment is required. Characteristics of leadership, problem analysis, problem solving, decision making, oral presentation, first aid, small unit tactics, land navigation. Laboratory is required.

MSCI 2220  Foundations of Leadership II (2-2-2)
Continuation of MSCI 2210. No military commitment is required. Laboratory is required.

MSCI 2810  Leader's Training Course
Prerequisite: Approval of the chair of Military Science at UH.
Four week off-campus field training practicum. Introduces student to the Army and leadership. Credit may not be received for both MSCI 2810 and the combination of MSCI 1210, 1220, 2210, and 2220. No military obligation is associated with this course.
MSCI 3310  Applied Leadership (3-3-2)
Prerequisite: MSCI 2220 or consent of the chair of Military Science at UH.
Leadership; preparing combat orders; military instruction principles; small unit tactics; tactical communications; fitness training.
Class is designed to prepare students for Leadership Development and Assessment Camp (LDAC) and for a career as an Army Officer. Fitness and laboratory required.

MSCI 3320  Applied Leadership II (3-3-2)
Prerequisite: MSCI 3310 or consent of the chair of Military Sciences at UH.
Introduction to combat orders and military principles, small unit tactics, and tactical communications. Fitness training and laboratory required.

MSCI 3398  Special Problems
Prerequisite: Junior standing and consent of the chair of Military Science at UH.

MSCI 3490  Summer Field Training
Prerequisite: MSCI 3320 or consent of the chair of Military Science at UH.
Off-campus field training practicum stressing application leadership management with emphasis on tactical and special military skills. Places students in demanding and stressful leadership situations.

MSCI 4310  Advanced Military Science (3-3-2)
Prerequisite: MSCI 3320 or consent of the chair of Military Science at UH.
Leadership and command; Military Law; Administration/Staff operations and procedures; dynamics of the military team; training management; ethics and professionalism. Prepares students for commissioning as an Army Officer. Fitness training and laboratory required.

MSCI 4320  Leadership in a Complex World (3-3-2)
Prerequisite: MSCI 3320 or consent of the chair of Military Science at UH.
Continuation of MSCI 4310. Fitness and laboratory required.

MUS (Music)

MUS 1303  Reading Music (3-3-0)
Practice in reading and writing of music notation and rhythms commonly found in choral and instrumental literature. Keyboard used to visualize musical symbols, and plastic recorders used for practical realization.

MUS 1304  Music Theory I (3-3-0)
Prerequisite: MUS 1303 or permission of instructor.
Study and practice of tertian construction, writing four part harmony, harmonic analysis using figured bass, and ear training; emphasis on developing ability to write and analyze tonal music. (MUS 1311)

MUS 1305  Class Voice (3-3-0)
This course teaches the basics of singing solo through the preparation and in-class performance of a variety of repertoire, including Western European classical music, world music and American music. Repertoire will be selected, studied, rehearsed, and performed with attention to proper mechanics of singing (breathing, tone production, diction in multiple languages, musical interpretation (phrasing, dynamics, articulation, blend), and professional stage presence. The course also teaches the basics of music reading through sight-singing. The course is designed for beginning singers; no prior vocal expertise is necessary to enroll in the course.

MUS 1306  Choral Ensemble (3-3-0)
This course may be repeated once for credit for a total of 6 credit hours over two semesters. This course requires permission of the instructor.
Choral Ensemble teaches fundamental principles of effective choral singing through the preparation and performances of a variety of choral repertoire, including Western European classical music, world music, and American music. Repertoire will be rehearsed and performed with attention to proper breathing, tone production, diction in multiple languages, musical interpretation (phrasing, dynamics, articulation, blend), learning to follow a conductor and work with an accompanist, and professional stage presence. The
The course also teaches the basics of music reading through sight-singing. The course is designed for beginning to intermediate choral singers; no prior choral expertise is necessary to enroll in the course.

**MUS 1307**  
Piano Class I (3-3-0)  
*Prerequisite: MUS 1303 Reading Music.*  
Piano Class I teaches fundamental principles of reading music and playing piano for beginners. The course will prepare students to read piano music at sight using both the treble and bass clefs; learn the anatomy of the piano; master the basics of fingering for some scales and arpeggios; harmonize simple melodies using tertian chords; and perform simple repertoire in a selected number of keys before others. The course is designed for beginning students; no prior piano training or music reading ability is necessary to enroll in the course.

**MUS 2301**  
Music Appreciation: Before 1750 (3-3-0)  
*Laboratory fee required: $10.*  
A general survey of Western music from the Middle Ages to 1750 with a study of representative composers and compositions through recordings, lectures and live performances.

**MUS 2302**  
Music Appreciation: After 1750 (3-3-0)  
*Laboratory fee required: $10.*  
A general survey of Western music from 1750 to present with a study of representative composers and compositions through recordings, lectures and live performances.

**MUS 3301**  
Major Developments in the History of Music (3-3-0)  
*Crosslisted as HUM 3313. Credit may not be earned for both. Prerequisite: 3 hours of music appreciation.*  
A survey of important historical events in the development of music theory and performance.

**MUS 3302**  
Introduction to African American Music (3-3-0)  
*Prerequisite: MUS 2301 or 2302.*  
This course will introduce students to various styles of the African American musical tradition. Starting with basic characteristics of music in West Africa and working chronologically, the course will cover performing arts, religion, and other sociopolitical elements that have influenced some of the vibrant music in American culture.

**MUS 3303**  
Jazz Styles I (3-3-0)  
*Crosslisted as HUM 3317. Credit may not be earned for both. Prerequisite: MUS 2301 or 2302 or approval of instructor.*  
Introduction to various styles of jazz from its beginnings at the end of the 19th century to the 1940s. Beginning with the early years of "traditional" jazz in New Orleans and progressing chronologically, students will be introduced to major figures and styles of jazz through videos, recordings, readings and concerts. Includes study of the outside forces that helped shape the music and the musicians.

**MUS 3304**  
Jazz Styles II (3-3-0)  
*Crosslisted at HUM 3318. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.*  
Introduction to various styles of jazz from the 1940s to today. Beginning with the evolution of jazz into a chamber art form during the bebop movement of the 1940s and progressing chronologically, students will be introduced to major figures and styles of jazz through videos, recordings, readings and concerts. Includes study of the outside forces that helped shape the music and the musicians.

**MUS 3305**  
World Musics (3-3-0)  
*Prerequisite: MUS 2301 or 2302.*  
Introduces music of world cultures outside the Western musical tradition. Beginning in Australia and working geographically around the world, the course deals with performing arts, religion, history and other social and political elements that have influenced the development of the musical styles that define selected cultures. The tools of ethnomusicology, the study of music in its cultural context, are the basis of the methodology for this course.

**MUS 3308**  
Music in American Christianity (3-3-0)  
*Crosslisted at HUM 3331. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.*  
This course surveys the social, cultural, theological, and historical development of significant musical styles and genres in North
American Protestant Christianity from the early 17th century to the early 21st century. Genres studied include: colonial psalms and lined hymns; shape note hymns; spirituals; revival hymns; Sunday School songs; hymns of the urban revival movement; early gospel hymns; arranged/concert spirituals; commercial gospel music (African-American and white/southern gospel); praise and worship music; Contemporary Christian music.

MUS 3325  Arts Administration (3-3-0)
Crosslisted as ART 3325, DRA 3325, HUM 3325. Credit may not be earned for more than one. Prerequisite: Junior standing, completion of the creative arts band in the common core, or departmental approval.
An examination of the principles of arts administration stressing general concepts relating to marketing, fundraising, audience development, financial management, and the overall environment of arts management in profit and non-profit organizations such as theaters, art galleries, music organizations, dance companies, and museums.

MUS 3327  Arts Marketing (3-3-0)
Crosslisted as ART 3327, DRA 3327, HUM 3332.
Prerequisite: Junior standing and ENG 1302.
This course is an overview of fundamental marketing concepts and strategies relevant to promoting artists, such as painters, actors, dancers, designers, or musicians, as well as fine arts events, and creative products. Topics include market research, audience development, traditional advertising, digital campaigns, public relations, branding, strategic partnerships, and grassroots initiatives. Using real-world examples and current trends, students develop foundational knowledge of the theory and practice of fine arts marketing.

MUS 3333  History of Hispanic Music (3-3-0)
Crosslisted at HUM 3333. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.
This course explores the concert music of Hispanic cultures from the Spanish cantigas of the medieval period through the Mexican zarzuelas of the 19th century and American reggaeton of today. The music will be discussed in the context of the political, social and artistic culture of each era.

MUS 3399  Directed Study in Music
Prerequisite: Junior standing; formal approval by department chair and dean; cumulative GPA of 3.0 and GPA of at least 3.3 in the specific area of directed study.
Selected topics in the field; intensive individual study under the guidance of a member of the faculty.

MUS 4301  Jazz Heritage
Crosslisted as HUM 4301. Credit may not be earned for both.
Prerequisite: Three hours of music appreciation or music history, departmental approval, and pre-paid non-refundable deposit for trip.
Study of jazz styles associated with a particular city including a week-long field trip to that city. Participation in the field trip is required. May be repeated once when the city is different, with departmental approval. Extra fees will be charged to pay for the trip.

NS 1101  Demonstration Chemistry (1-0-1)
Prerequisite: Approval of instructor.
This course is a service-learning laboratory course that focuses on chemistry experiments designed to be safe, informative, and fun. Subjects discussed include: chemical safety, demonstration chemical experiments, performance and showmanship, comedy, importance of STEM education and community outreach. The service-learning aspect will include public demonstrations at the Houston Zoo over weekends in October.

NS 1300  Emergence of Modern Science (3-2-2)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
An integrated lecture/laboratory course for non-science majors. This course will focus on the emergence and practice of the scientific method, major scientific discoveries and their role in the development of modern science and society. The course will
illustrate how scientists observe, develop questions and interpret the natural world in an integrated manner across all disciplines of science. Students will also explore how science influences the worldview of culture, the role of politics, ethics and technology in the development of science. Various ethical issues such as nuclear energy, genetic engineering, land abuse and population pressures will also be discussed. Lab sessions will focus on making and interpreting the measurements of natural phenomena.

NS 2190-2490  Special Topics in Natural Sciences
Prerequisite: Varies according to topic.
Selected topics in lower-level natural sciences according to the needs and interests of the students.

NS 3190-3490  Special Topics in Natural Sciences
Prerequisite: Varies according to topic.
Selected topics in junior-level natural sciences according to the needs and interests of the students.

NS 3310  Physical Science Studies (3-1-4)
Prerequisite: Admission to Teacher Education Program and two semesters of natural science (6-8 hours), lab-based courses preferred.
An integrated lecture/laboratory course emphasizing major topics in chemistry, materials science and physics and their applications in society and to science education.

NS 3311  Earth and Environmental Science Studies (3-1-4)
Prerequisite: Admission to Teacher Education Program and two semesters of natural science (6-8 hours), lab-based courses preferred.
An integrated lecture/laboratory course emphasizing major topics in earth science and environmental science and their applications in society and to science education.

NS 3312  Life Science Studies (3-1-4)
Prerequisite: Admission to Teacher Education Program and two semesters of natural science (6-8 hours), lab-based courses preferred.
An integrated lecture/laboratory course emphasizing principal areas of the life sciences and their applications in society and to science education.

PED (Professional Education)

PED 3301  Introduction to Special Populations (3-3-0)
An introduction to exceptionalities among children with emphasis on prevalence, assessment, characteristics, classroom management, and other educational considerations. Additional topics include legal factors in special education, bilingualism, parents and families, and current trends and issues.

PED 3302  Teaching Middle School Mathematics 4 - 8 (3-3-0)
Prerequisite: MATH 3321, 3322.
Strategies, techniques, concrete materials, and technology used in teaching mathematical concepts to students in grades 4-8. Students will strengthen their understanding of underlying concepts of grades 4-8 mathematics as related to the TEKS, state and national standards, and the teaching of middle school students. Special emphasis is placed on pedagogical issues, problem solving, and real life connections in the teaching of mathematics content appropriate for middle school students.

PED 3303  Teaching Middle School Environmental Science 4 - 8 (3-3-0)
Prerequisite: Admission to Professional Development sequence; six hours from BIOL 1310; GEOL 1307; NS 3310, 3311, 3312. Corequisites: EED 3312, PED 3305, PED 4380.
Strategies, techniques, concrete materials, and technology used in teaching environmental science concepts to students in grades 4-8. Students will strengthen their understanding of underlying concepts of grades 4-8 mathematics as related to the TEKS, state and national standards, and the teaching of middle school students. Special emphasis is placed on pedagogical issues, problem solving, and real life connections in the teaching of content in life, earth, and physical science appropriate for middle school students.
students.

**PED 3304  Aesthetic and Physical Development of Children (3-3-0)**
Introduction to the development of young children in the areas of visual arts, music, creative drama and theatre appreciation, motor skills and perceptual awareness and personal health and safety, as they all relate to integrating content, selecting appropriate instructional strategies and using authentic assessment. Students will learn how to enhance family involvement in the early childhood classroom.

**PED 3305  Understanding the Early Childhood through Twelfth Grade Learner (3-3-0)**
For EC-6 Generalist Certification:
Prerequisites: Admission to Professional Development Sequence.

For EC-6 Bilingual Generalist Certification:
Prerequisites: Admission to Professional Development Sequence.

For 4-8 Generalist Certification:
Prerequisites: Admission to Professional Development Sequence.

For Secondary Certification:
Prerequisites: Admission to Professional Development Sequence.

Explores the relationship of developmental theories to learning and education in the early childhood, elementary, middle, and high school environment. Course provides an understanding of developmental, environmental, and cultural factors that affect diverse learners in the urban school. Emphasis placed on applying theory-based knowledge to diverse students in urban settings, including second language learners.

**PED 3314  Children's Literature in Spanish (3-3-0)**
This course introduces students to children's Spanish literature, its history, development and uses in relation to the needs of the child and the culture. Instruction is conducted in Spanish.

**PED 4380  Field Experience in Urban Public School Classrooms (3-2-1)**
**Prerequisite: Declared Urban Education major, core complete, and departmental approval.**
The first semester of professional development includes placement in public schools in the student's certification grade levels and content area(s). During this semester, teacher candidates will confer with the instructor, field supervisor, and classroom mentor to complete a minimum of 60 hours of field work with requirements that include but are not limited to: planning and teaching lessons, having two formal observations, writing reports, and undertaking other academic work as assigned.

**PED 4381  Field Experience in Urban Public School Classrooms II (3-2-1)**
**Prerequisite: Declared Urban Education major, core complete, and departmental approval.**
The second semester of professional development includes placement in public schools in the student's certification grade levels and content area(s). During this semester, teacher candidates will confer with the instructor, field supervisor, and classroom mentor to complete a minimum of 60 hours of field work with requirements that include but are not limited to: planning and teaching lessons, having two formal observations, writing reports, and undertaking other academic work as assigned.

**PED 4382  Field Experience in Urban Public School Secondary Mathematics Classrooms (3-2-1)**
**Prerequisites: Declared Urban Education major, core complete, and departmental approval.**
The second semester of professional development includes placement in public schools in 8-12 mathematics classroom(s). During this semester, teacher candidates will confer with the instructor, field supervisor, and classroom mentor to complete a minimum of 60 hours of field work with requirements that include but are not limited to: planning and teaching lessons, having two formal observations, writing reports, presenting to the Mathematics and Statistics faculty on their field experience based on written reports, and undertaking other academic work as assigned.
PHED (Physical Education)

PHED 2101  Health and Fitness for Life with an Emphasis in Yoga or Pilates or Aerobics or Weight Training or Basketball or Volleyball (1-3-2)
Focuses on health-related behaviors, ways that personal health decisions and behaviors affect body systems and health, and strategies for reducing health risks and enhancing wellness throughout the life span.

PHIL (Philosophy)

PHIL 1301  Introduction to Philosophy (3-3-0)
Prerequisite: Completed or enrolled in ENG 1301 or 010 core complete.
Teaches students how to think critically and communicate effectively about basic issues related to topics such as human nature, the limits of human knowledge, freedom and determinism, morality and responsibility, and the role of science, technology, religion, and work in their lives.

PHIL 1302  Critical Thinking (3-3-0)
A practical introduction to thinking effectively that develops skills in recognizing premises and conclusions to arguments. The course provides practice in evaluating arguments, clarifying meanings, recognizing the various ways language functions, and defining terms. The course teaches both deductive and inductive uses of logic using examples from various disciplines including the sciences, literature, politics and advertising. The class teaches precision in language and interpretation.

PHIL 2301  Ancient Philosophy (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301.
Historical survey of the development of Western philosophy at its origins in ancient Greek thought, especially the works of Plato and Aristotle. Ancient Roman and Hellenistic philosophers may also be discussed.

PHIL 2302  Modern Philosophy (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301.
An historical survey of the development of philosophic thought from Descartes through Kant with emphasis on the rationalists and empiricists. (PHIL 2317)

PHIL 2305  Introduction to Ethics (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
Introduction to the philosophical examination of contemporary moral issues. Emphasis on critical examination and comparison of different perspectives on the rightness and wrongness of various actions typically considered morally problematic in the contemporary world. Topics covered may include abortion, capital punishment, discrimination and prejudice, and environmental issues.

PHIL 2310  The Meaning of Life (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 or 010 core complete.
This course will investigate one of the most popular and enduring philosophical questions. Students will consider the meaning of life generally, asking what it means to be alive, as well as what it means to have meaning. Students will then consider the question particularly, asking how it is possible (if it is) for an individual to lead a meaningful life. Students will also consider the relevance of cultural and personal attitudes toward life and death and the effect these attitudes have on the meaningfulness of life.

PHIL 2384  Logic (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
This class develops the skills involved with analyzing and evaluation arguments. Topics include identifying the components of arguments in ordinary discourse, identifying common fallacies, analyzing inductive arguments, symbolizing deductive arguments, and testing deductive arguments for validity.
PHIL 3301  Moral Philosophy I (3-3-0)
Prerequisite: 3 hours of philosophy or junior standing.
Moral philosophy is the philosophical inquiry into the fundamental principles underlying any distinctions between "right" and "wrong," or "good" and "evil." This course will be a comparison of the three most influential and fundamental moral philosophies in the Western tradition: Aristotle's virtue ethics, Immanuel Kant's deontological ethics, and John Stuart Mill's utilitarianism. Other significant pre-twentieth-century ethical thinkers may also be studied.

PHIL 3302  Philosophy of Science (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
Examines the nature of scientific knowledge and practice in both the natural and social sciences, with specific attention to the logic of scientific discovery and the nature of observation and theory. Also investigates the dimensions and meaning of objectivity and the significance of value assumptions, practical politics, and economic concerns in scientific investigation.

PHIL 3305  Contemporary Philosophy (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
A survey of recent philosophic schools and movements from Nietzsche to the deconstructionists. Emphasis on phenomenological and existential philosophies.

PHIL 3306  Power and Political Philosophy (3-3-0)
Prerequisite: ENG 1302.
Examination of key texts and figures in the history of political philosophy with emphasis on the concept of power. The content of the course includes material ranging from Ancient Philosophy (Plato and Aristotle), Modern Philosophy (Hobbes, Locke, Rousseau, etc.), and key figures from the 19th century (Kant, Hegel, Marx, etc.) and 20th century (Foucault, Frankfurt School, Rawls, etc.). The course analyzes issues such as the role of power in forms of government, socio-economic relations, educational systems, culture, media, and language.

PHIL 3310  Moral Philosophy II (3-3-0)
Prerequisite: 3 hours of philosophy or junior standing.
Moral philosophy is the philosophical inquiry into the fundamental principles underlying any distinction between "right" and "wrong," or "good" and "evil." This course is a survey of major moral philosophers of the twentieth and twenty-first centuries, and might include the contemporary proponents of the classical moral philosophies (virtue ethics, Kantian ethics, and utilitarianism), feminist ethics, existentialist ethics, postmodern ethics, and others.

PHIL 3313  Sports Ethics and the Philosophy of Sport (3-3-0)
Prerequisites: 3 hours of Philosophy or junior standing, or instructor consent.
A study of the philosophy of sport and sports ethics. Topics studied may include the nature of sport; the differences between sports and games; the relevant differences between different kinds of sports; the aesthetics of sports and athletics; sports as popular entertainment; the role of competition in sport; the relationship between sports, aggression, and violence; sportsmanship as an ethical ideal; and the ethical ramifications of sports in both personal and public lives, for both athletes and fans.

PHIL 3315  Philosophy of Psychology (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
This course examines key historical figures and issues relating to the philosophical analysis of the psyche, and critically assesses the approaches made by the modern science of psychology.

PHIL 3317  Philosophy of Race (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
A philosophical analysis of the concept of race, various constructions of races and issues of racism.

PHIL 3319  Philosophy of Gender (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
This course examines the ideas behind the cross cultural and historical construction of gender. The discourse invites men and women to involve themselves philosophically in issues of gender with an eye to both personal and societal concerns. The readings emphasize the developments of feminist philosophy in politics, literature and art. Students will arrive at their own evaluation of the significance of gender differences. May be used to fulfill the writing application course requirement.
PHIL 3320  Environmental Ethics (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
Local and world-wide environmental problems make understanding how to relate to the natural world of crucial practical importance. This course explores the conditions for moral judgment when interests such as employment and production conflict with environmental issues. Its topics include ancient, traditional, and modern adjudications of the appropriate relation between human persons and nature. Course readings and discussion aim at using philosophical strategies to generate an ethics suitable for organic life.

PHIL 3322  World Religions (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
A comparative survey of religions around the world.

PHIL 3323  Philosophy of Religion (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
A consideration of the problems of faith and reason, the nature of deity, arguments for and against God’s existence; nature of evil.

PHIL 3327  Philosophy of Law (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
This class will use the tools of philosophical analysis to examine central issues in the field of Law. Topics of investigation will include: the value of the adversarial approach to law, how laws are interpreted, the relationship between law and morality, how criminals are sentenced, and the purpose of punishment. We will also look at particular legal issues, such free speech and same-sex marriage.

PHIL 3330  Biomedical Ethics (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
This course will focus on using moral theories to evaluate ethical issues that principally arise in the practice of medicine. Topics will range from beginning-of-life issues to end-of-life issues and may include abortion, cloning, genetic manipulation, the limits of doctor-patient confidentiality, the right of patients to refuse medical treatment for themselves or a dependent, human medical testing, euthanasia, assisted suicide, and the use of life support equipment.

PHIL 3340  Postmodern Philosophy (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing.*
This class will study the development of postmodernism in philosophy and its influences on political theory, cultural studies, science, and the arts. It will address postmodernism’s critique of modernism and the Enlightenment, postmodern philosophy’s relationship to the history of philosophy, and potential criticisms of postmodernism from other contemporary philosophical perspectives.

PHIL 3350  Philosophy of Art (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
This course examines key historical figures and issues relating to the philosophical analysis of art. It inquires into the nexus between art and such fields as ethics, politics, culture, science, and psychology, and considers themes such as beauty, the nature of art, the artist, and the role of artistic creation in “the good life.”

PHIL 3351  Philosophy of Music (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing.*
This class is a study of the philosophy of music and the history of philosophies of music, including the ontology of music, the existential significance of music composition and music appreciation, musical aesthetics, theories of music criticism, and the socio-political power of music.

PHIL 3355  Film and Philosophy (3-3-0)
*Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.*
This course is an introduction to the philosophical study of motion pictures, including such topics as the ontological status of film, the aesthetic value of cinema, the ethics and politics of moviemaking, and the existential significance of movie going. In addition, the course will examine the philosophical potential of film as a medium of individual and cultural expression, and attempt to determine the philosophical significance of various films.
PHIL 3384  Symbolic Logic (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
Symbolic Logic analyzes arguments for validity by abstracting from the use of ordinary language, and looking only at their structure. Doing so also makes it possible to analyze the nature of argument and logic itself. Topics in this class include sentential logic, the logic of quantification, and some of the basic concepts and results of metalogic.

PHIL 3386  Philosophy of Death (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
Death is an inevitable part of life, and yet we tend to avoid thinking about it. This class will engage philosophically with some of the central issues of death: What does it mean to die? What does the fact of death tell us about the meaning of life? Is life after death possible – if so, what does it mean to be yourself after you are dead? What are the ethical issues surrounding death? Is it ever moral, or even rational, to want to end your own life?

PHIL 3388  Philosophy of Love (3-3-0)
Prerequisite: 3 hours of Philosophy or junior standing, or instructor consent.
This class is a study of the philosophy of love and the history of philosophies of love, and may address: definitions of love; the differences between storge, eros, agape, and philia; the role of love in the good life; the social and political ramifications of loving; the ethics of love and sex; the nature of intimacy; the role of love, especially love of God or the gods, in religion; the role of loving in a good and meaningful life; and the consequences of living a life without love.

PHIL 4098  Graduation Portfolio
Prerequisite: PHIL major filing for graduation.
This is a non-credit, no cost course that Philosophy majors must take in the semester of anticipated graduation. The class does not meet regularly – rather students complete the requirements for this course by submitting a portfolio of written projects from a range of their Philosophy courses taken at UHD, along with a brief introductory essay. Please see instructor for details.

PHIL 4312  Major Figures in Philosophy (3-3-0)
Prerequisite: Junior standing and completion of 3 hours in philosophy.
This course focuses on one or two figures in philosophy, either historical or contemporary, culminating in the production of a substantial work of philosophical writing. The philosopher(s) of focus may vary from semester to semester. The course includes instruction in the techniques of philosophical writing, and may be repeated when topics vary.

PHIL 4390  Special Topics in Philosophy (3-3-0)
Prerequisite: 3 hours in philosophy or permission of the instructor.
Selected topics in philosophy. Topics may vary from semester to semester. Course may be repeated for credit when topics vary.

PHIL 4399  Directed Study in Philosophy
Prerequisite: Instructor approval.
Selected topics in philosophy. Intensive individual study under the guidance of a member of the philosophy faculty, culminating in the production of a substantial work of philosophical writing. Includes instruction in the techniques of philosophical writing.

PHYS (Physics)

PHYS 1107  General Physics Laboratory I (1-0-3)
Prerequisite: Credit or enrollment in PHYS 1307.
Topics include mechanics, bulk properties of matter, heat and waves. (PHYS 1101)

PHYS 1108  General Physics Laboratory II (1-0-3)
Prerequisite: Credit or enrollment in PHYS 1308.
Topics include electric and magnetic fields, DC and AC circuits, non-linear devices, geometric and physical optics, and atomic and molecular physics.
PHYS 1301  Introduction to Solar System Astronomy (3-2-2)
Prerequisite: Credit or enrollment in MATH 1301 or MATH 1310.
An integrated lecture/laboratory course for non-science majors. This course surveys the history of astronomy, its technologies and physical principles, the solar system and its origins. Recent discoveries and the competing theories to interpret them are discussed, as are interactions between astronomy and society such as technology spin-offs and light pollution. Students are introduced to scientific measurement and error. Indoor and outdoor experiments are integrated into the course, including the use of telescopes and photography of the moon. Recent data provided by NASA and other agencies are introduced. Up to three evening observing sessions are required for this course.

PHYS 1302  Introduction to Stellar and Galactic Astronomy (3-2-2)
Prerequisite: Credit or enrollment in MATH 1301 or MATH 1310.
An integrated lecture/laboratory course for non-science majors. This course surveys stellar and galactic systems, the evolution and properties of stars, galaxies, clusters of galaxies, the properties of interstellar matter, cosmology and the effort to find extraterrestrial life. Competing theories that address recent discoveries are discussed. The role of technology in space sciences, the spin-offs and implications of such are presented. Visual observations and laboratory exercises illustrating various techniques in astronomy are integrated into the course. Recent results obtained by NASA and other agencies are introduced. Up to three evening observing sessions are required for this course, one of which will take place off-campus at George Observatory at Brazos Bend State Park.

PHYS 1307  General Physics I (3-3-0)
Prerequisite: Credit or enrollment in MATH 1302 or the equivalent, enrollment in PHYS 1107.
This is the first in a two-part survey of general physics for science majors focusing on elementary principles of mechanics, heat and wave motion using elementary trigonometry and algebra. Topics include kinematics, dynamics of particles and rigid bodies; conservation of mass, momentum and energy; simple harmonic motion and characteristics of waves, mechanical and thermal properties of solids and fluids; and thermal properties, kinetics and dynamics of ideal gases. Credit for both PHYS 1307 and PHYS 2401 may not be applied toward a degree.

PHYS 1308  General Physics II (3-3-0)
Prerequisite: PHYS 1307 and credit or enrollment in PHYS 1108.
This is the second in a two-part survey of general physics for science majors focusing on elementary principles of electromagnetism, optics and modern physics using elementary trigonometry and algebra. Topics include static electric and magnetic fields and the motion of charged particles therein; induced electric and magnetic fields; DC and AC circuits; geometrical and physical optics; the concept of quantization and the properties of the atom and its nucleus. Credit for both PHYS 1308 and PHYS 2402 may not be applied toward a degree.

PHYS 2101  Physics Laboratory I (1-0-3)
Prerequisite: Credit or enrollment in PHYS 2401.
Topics include linear and rotational motion, collisions, simple harmonic motion and thermal properties of matter. (PHYS 2125)

PHYS 2102  Physics Laboratory II (1-0-3)
Prerequisite: Credit or enrollment in PHYS 2402.
Topics include static electric and magnetic fields and electron motion therein, DC and AC circuits including linear and nonlinear devices and properties of electromagnetic waves, and geometrical and physical optics. (PHYS 2126)

PHYS 2190-2490  Special Topics in Physics
Prerequisite: Varies according to topic.
Selected topics in lower-level physics according to the needs and interests of the students.

PHYS 2210  Nuclear Power Plant Human Performance (2-2-0)
Prerequisite: Departmental approval required.
Crosslisted with TAMU NUEN 436-500.
This course is offered to students pursuing the Nuclear Power Institute Certificate program sponsored by the Nuclear Power Institute (NPI). Students will cover topics of human performance fundamentals, organization and the processes, the individual, the engineer, corrective action programs and root cause analysis, final case study, and nuclear power- a higher standard. This course may only apply as an elective towards UHD degrees in science and technology.
PHYS 2310  Nuclear Power Plant Fundamentals (3-3-0)
Prerequisite: Departmental approval required.  
Crosslisted with TAMU NUEN 432.
This course is offered to students pursuing the Nuclear Power Institute Certificate program sponsored by the Nuclear Power Institute (NPI). Students will cover topics of the chemistry and physics and engineering technology electrical theory involved in nuclear power plants including aspects of water chemistry, material science, electrical science, mechanical science, civil engineering, and digital process control systems. This course may only apply as an elective towards UHD degrees in science and technology.

PHYS 2311  Nuclear Power Plant Systems Pressurized Water Reactor (PWR) (3-3-0)
Prerequisite: Departmental approval required.  
Crosslisted with TAMU NUEN 423.
This course is offered to students pursuing the Nuclear Power Institute Certificate program sponsored by the Nuclear Power Institute (NPI). Students will cover topics of reactor physics and introduction to nuclear power, reactor heat generation, thermodynamic aspects of nuclear power, reactor coolant system (primary and secondary loop), reactor safety and operation, fuel systems, support systems and electrical distribution. This course may only apply as an elective towards UHD degrees in science and technology.

PHYS 2312  Nuclear Power Plant Operations (3-3-0)
Prerequisite: Departmental approval required.  
Crosslisted with TAMU NUEN 435.
This course is offered to students pursuing the Nuclear Power Institute Certificate program sponsored by the Nuclear Power Institute (NPI). Students will cover topics of neutronic/thermal models such that plant operations may be studied semi-quantitatively achieving an integrated plant understanding. The course will include an overview of mass, momentum and energy conservation as it relates to nuclear power plants; includes coupled neutronic/thermal models to study plant operations semi-quantitatively achieving an integrated plant understanding. This course may only apply as an elective towards UHD degrees in science and technology.

PHYS 2313  Nuclear Power Plant Systems Boiling Water Reactor (BWR) (3-3-0)
Prerequisite: Departmental approval required.  
Crosslisted with TAMU NUEN 434.
This course is offered to students pursuing non-nuclear majors. The course introduces students to the Boiling Water Reactor (BWR) Systems: the systems unique to the BWR for control of the fission process and the associated systems and strategy for reactor safety; and Power Plant Generation: the balance of plant equipment used in the steam cycle.
This course ensures that students understand engineering principles associated with systems and components used in two types of commercial nuclear power plants. This course may only apply as an elective towards UHD degrees in science and technology.

PHYS 2401  Physics I (4-4-0)
Prerequisite: Credit in MATH 2402 (or MATH 2412) enrollment in PHYS 2101.
This is the first in a two-part survey of physics for science majors using calculus. Topics include kinematics and dynamics in one, two and three dimensions, statics, dynamics, potentials, conservation of energy and momentum (linear and angular), rotational kinematics and dynamics, oscillations, gravitation, fluid mechanics, thermal properties of matter, kinetic theory of gases and the first and second law of thermodynamics. Credit for both PHYS 1307 and PHYS 2401 may not be applied toward a degree.

PHYS 2402  Physics II (4-4-0)
Prerequisite: Grade of C or better in PHYS 2401 and credit or enrollment in PHYS 2102.
This is the second in a two-part survey of physics for science majors using calculus. Topics include electric charge, electric fields and potentials, Gauss’ Law, capacitors and dielectrics, AC and DC electrical circuits, magnetic fields, the Biot-Savart Law, Faraday’s Law, magnetic properties of matter, Maxwell’s equations and electromagnetic waves and optics. Credit for both PHYS 1308 and PHYS 2402 may not be applied toward a degree.

PHYS 3190 - 4490 Special Topics in Physics
Prerequisite: Varies according to topic.
Selected topics in junior and senior-level physics according to the needs and interests of the students.

PHYS 3300  Undergraduate Research (3-0-0)
Prerequisite: Approval by the Natural Sciences Department, minimum GPA of 2.0, and permission of instructor.
Independent investigation of a specific topic problem in physics research under the direction of a selected faculty member.
PHYS 3307  Modern Physics I (3-3-0)
Prerequisite: PHYS 2402 or PHYS 1308 and credit or enrollment in MATH 2403.
Fundamental concepts of quantum physics and special relativity, developed and applied to atomic structure and spectra, nuclear reactions, solid state physics and other related topics of current interest.

PHYS 3393  Intermediate Mechanics I (3-3-0)
Prerequisite: PHYS 2401 or PHYS 1307 and credit or enrollment in MATH 3301.
The classical mechanics of particles and systems of particles, and rigid bodies. Newtonian mechanics, linear and non-linear oscillations, Euler's equations and Lagrangian and Hamiltonian dynamics.

PHYS 3399  Directed Study in Physics
Prerequisite: Formal approval by department chair and dean; junior standing; minimum GPA of 3.0.
Selected topics in the field; intensive individual study under the guidance of a faculty member.

PHYS 3402  Thermophysical Properties of Materials (4-3-3)
Prerequisite: PHYS 1308 or PHYS 2402.
Crosslisted with CHEM 3402.
Discussion of phase structure and transitions in materials occurring with changing temperature involving both lecture instruction as well as hands on laboratory experience. Materials studied are polymers, liquid crystals and geological materials.

PHYS 4380  Field Experience in Physics
Prerequisite: At least 75 hours and departmental approval.
Field experience integrates theory and academic laboratory experience with work experience in industrial, government, or institute laboratories. May be repeated for additional credit; six hours may be applied toward a degree.

PHYS 4399  Senior Honors Thesis
Prerequisite: Senior standing and enrollment in the Honors Program in the Natural Sciences.
A research project, supervised by a member of the natural sciences faculty or scientist at an affiliated research institution or laboratory. The completed research project must be presented in both written and oral form to the science faculty. No more than six hours credit for this course may be applied toward a degree.

PHYS 4401  Applied Electromagnetism and Optics (4-3-3)
Prerequisite: PHYS 2402, MATH 2403 and MATH 3301.
An introduction to the fundamentals of electromagnetism. Multiple fields, Laplace and Poisson equations, Maxwell equations, electromagnetic waves, reflection and refraction, spherical scalar waves, interference and diffraction phenomena. Laboratory applications of electromagnetic and optical phenomena.

PLM (Professional Land Management)

PLM 3305  Engineering, Geology and Geophysics for the Land Professional (3-3-0)
Prerequisite: EM 3301 required, a course in GEOL recommended, and completion of, or enrollment in, BA 3300.
The study of basic engineering, geological and geophysical concepts and their application in the energy industry. Topics will include the origin of hydrocarbons, geologic time, sedimentation, reservoirs, geologic and geophysical mapping, traps, migration, source rocks, exploration and production, well logging, and reserve calculation and classification.

PLM 3399  Directed Study in PLM
Prerequisite: Formal approval of department chair and dean.
Selected topics in professional land management; intensive individual study under the guidance of a member of the professional land management faculty.

PLM 4303  Land Management Practice (3-3-0)
Prerequisite: BA 3300, or departmental approval.
Development of the technical skills related to understanding the terminology, methodology, planning, strategies and management of
the professional land management functions as they relate to: (1) the determination of mineral ownership; (2) negotiation, acquisition, maintenance and disposition of publicly or privately owned oil and gas interests; (3) title curative and the due diligence functions; (4) pooling and unitization; (5) lease administration and payment of the proceeds from oil and gas production; and (6) interpretation, negotiation, preparation, execution and administration of oil and gas contracts in the USA and internationally, as they relate to farmouts, well trades, operating agreements and host government contracts. Additional emphasis is given to the ethical and professional standards of the petroleum landman as part of the exploration/production team.

PLM 4380 Field Experience in PLM
For more information and qualifications see Field Experience in the College of Business section of this catalog and/or the department chair for your declared major.

POLS (Political Science)

POLS 2107 Federal and Texas Constitutions (1-1-0)
Prerequisite: POLS 2304.
A study of federal and state constitutions, with special emphasis on Texas.

POLS 2108 Model United Nations/Arab League (1-1-0)
Prerequisite: None.
POLS 2108 is designed to prepare students participating in the Model United Nations/Arab League for inter-university competitions that take place in the Fall (Model U.N.) and Spring (Arab League) semesters. The course will include current events, pressing international issues, basics of international law, protocols of diplomacy, and parliamentary procedures.

POLS 2303 United States Government I (3-3-0)
Prerequisite: Enrollment in or completion of ENG 1301 or 010 core complete.
Examines the political systems of the United States and Texas. Focuses on constitutions, federalism, the development and organization of political parties, public opinion and the role of pressure groups. (GOVT 2301)

POLS 2304 United States Government II (3-3-0)
Prerequisite: Enrollment in or completion of ENG 1301 or 010 core complete.
Examines the three branches of government at both state and national levels and analyzes the role of each in the making of public policy. Selected topics on domestic and foreign policy are included. (GOVT 2302)

POLS 2305 Federal Government (3-3-0)
Prerequisite: Enrollment in or completion of ENG 1301 or 010 core complete.
Examines the institutions and politics of the United States national government. Focuses on the US Constitutions, federalism, the development and organization of political parties, public opinion and the role of pressure groups. Covers subject matters such as civil liberties, civil rights, the role of media, campaigns and elections, and policy-making. (GOVT 2305)

POLS 2306 Texas Government (3-3-0)
Prerequisite: Enrollment in or completion of ENG 1301 or 010 core complete.
The course covers the origin and development of the Texas Constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas. Course will focus on knowledge acquisition, social responsibility and effective communication. Students will acquire the skills needed to effectively participate in the political world. (GOVT 2306)

POLS 3300 Ethics and Public Life (3-3-0)
Prerequisite: POLS 2305 and 2306.
Examines case studies of ethical situations that arise both in the context of bureaucracy and for public managers. Topics include the limits of administrative discretion, regime values, corruption, bureaucratic accountability, social construction and harm as well as issues of divided loyalty and obligation, conscience and decision, integrity, compromise, and deception.

POLS 3301 Introduction to Public Administration (3-3-0)
Prerequisite: POLS 2305 and 2306.
The field of public management, including a comprehensive view of the dynamics of policy formation and implementation in
governmental agencies: structures and procedures, organizational behavior, administrative accountability, personnel administration, financial administration and public service as a career.

POLS 3302  Public Policy Analysis (3-3-0)
Prerequisite: POLS 2305 and 2306.
An examination and appraisal of the various theories which have been advanced to explain the definition of public problems and creation of government agendas, government’s action in formulating, adopting and implementing policies to address these problems and the impact that government policies actually have on society. Selected policy areas will be examined in detail.

POLS 3303  Urban Politics (3-3-0)
Prerequisite: POLS 2305 and 2306.
The American urban center within its political environment, with emphasis on social, economic and governmental problems, as well as urban services and the process of policy formation.

POLS 3306  Civil Liberties in the United States (3-3-0)
Prerequisite: POLS 2305 and 2306.
The judicial interpretations of political and civil rights in the Constitution. Emphasis is on principles related to civil liberties and civil rights.

POLS 3307  The American Presidency (3-3-0)
Prerequisite: POLS 2305 and 2306.
The role of the president in the American political system, through an examination of presidential relationships with Congress, the bureaucracy and the public.

POLS 3308  Introduction to World Politics (3-3-0)
Prerequisite: POLS 2305 and 2306.
Introduction to the political science of war and peace, international institutions, foreign policy and diplomacy, globalization and interdependence, ideology and culture, the national state, dictatorship and democracy, and the ongoing struggle to create effective and legitimate government around the world. Format includes lecture, small groups, map study, and current events.

POLS 3309  Texas Politics (3-3-0)
Prerequisite: POLS 2305 and 2306.
This course will cover the current political system in Texas including historical background. It will also show you what you can do to affect politics in Texas and nationally.

POLS 3310  American Legislatures (3-3-0)
Prerequisite: POLS 2305 and 2306.
This course in American legislatures compares the structures and functions of local, state and national legislatures across time and across legislative agendas and interest groups.

POLS 3311  Campaign Politics (3-3-0)
Prerequisite: POLS 2305 and 2306.
Campaign politics examines recent American election contests and the various strategies candidates and parties have used to achieve electoral success. Topics include the legal environment of national elections, parties and partisanship, voter interest and turnout, theories of voter behavior, campaign finance, the mass media, public opinion polls and campaign reform.

POLS 3312  Hispanic Politics (3-3-0)
Prerequisite: POLS 2305 and 2306.
Examines the role of Hispanics in American politics. Evaluates how Hispanics have impacted and been impacted by American political institutions. Investigates theories of group formation and group identity, political participation and representations, as well as specific issues impacting Hispanics.

POLS 3313  Introduction to Political Theory (3-3-0)
Prerequisite: POLS 2305 and 2306.
Survey of major political thinkers from ancient to contemporary times in order to address perennial political questions of equality, liberty, justice, stability, representation, democracy, authority, and power.

POLS 3314  Participants in the United States Public Policy Process  
Prerequisite: POLS 2305 and 2306.  
This course consists of a comprehensive look at participants in public policy in the United States. It will review and analyze the public policy process, and take an inclusive look at the role of the various public policy actors in American Society. Special focus will be given to the interaction between participants and the evolution of policy as a result of that interaction.

POLS 3315  Introduction to Constitutional Law (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
Major U.S. Supreme Court decisions which have defined the constitutional boundaries of the American political system. The Constitution and its development through judicial interpretation. Emphasis is on the distribution of power in the national government, between the national government and the states, and between government and the individual.

POLS 4301  The American Legal System (3-3-0)  
Prerequisite: POLS 2305, 2306 and junior standing.  
An overview of the US legal system, with emphasis on the courts in an urban environment.

POLS 4304  American Political Thought (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
The early influence of European thought on the formation of a purely American political belief system and the influence of modern American thought on the current political system.

POLS 4305  War in the Modern World (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
An investigation into the causes and correlates of conflict in our time and how conflicts may be peacefully resolved.

POLS 4306  Women and Politics (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
Examines the changing political role of women in the United States and compares it to that of women around the world. Investigates political attitudes and values, voting behavior, recruitment, and performance of women in the political arena, as well as the influence of women on public policy.

POLS 4307  Participation and Democracy in American Politics (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
An analysis of the dynamic of citizen involvement in politics, focusing on the nature, extent and consequences of participation. Addresses electoral and non-electoral behavior including protest, interest groups, turnout and theories of voting behavior. The primary focus of the course is political participation and voting in the US.

POLS 4308  East and Southeast Asian Politics (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
Examination of the political, economic and social dynamics of nations in east and Southeast Asia. In-depth coverage of the culture, political evolution, economic challenges and future opportunities in these areas.

POLS 4309  Dictatorship and Democracy in the Developing World (3-3-0)  
Prerequisite: POLS 2305, 2306 and junior standing.  
Uses political science, history and other disciplines to compare and evaluate the problems and prospects of elections, civil rights and liberties, and the rule of law in late developing countries.

POLS 4310  International Terrorism (3-3-0)  
Prerequisite: POLS 2305 and 2306.  
Understanding the concept of terrorism and the role it has played prior to and since September 11, 2001 in international and domestic politics. Exploration of the forces that motivate acts of terrorism including religious, political, and economic components.
POLS 4311 Public Opinion in the United States (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Focus on the role of public opinion in American democracy, specifically, how public opinion research is used to inform public officials of the public's preferences. Analysis of the benefits and dangers associated with increasing reliance by US public officials on public opinion.

POLS 4312 Dictatorship and Democracy in Europe, Russia and the United States (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Comparison of the political development of Europe and the United States. Begins with an overview of how the modern state and mass participation evolved from European feudal societies dominated by monarchs, warlords, and the Church. Followed by examination of how struggles between nations and ideologies, such as liberalism, communism, and fascism have influenced the evolution of democracy. Format includes lecture, group work, current events, student research and presentations.

POLS 4314 US Foreign Policy since World War II (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Study of US foreign policy. Aims at training students in systematically, critically, and analytically examining the political, economic, and social determinants of the US foreign policy. Provides students with an in-depth knowledge of the process of US foreign policy making.

POLS 4315 Education Policy and Administration (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
A comprehensive look at public primary and secondary education policy and administration in the US. Focus on government-related topics that have great impact in today’s education system, including school finance equality from legal and policymaking standpoints, certification policy, administrative intervention and reorganization at the micro and macro levels, the importance of social capital on performance and social order in public schools, the use of public money to fund private schools, the innovation of charter schools, and the political culture of the public school system.

POLS 4316 Politics of the Middle East (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Provides students with an understanding of the complex politics of the Middle East. Draws theories and concepts from the field of comparative politics to understand the issues of the region. The course will trace the evolution of the region by engaging in case studies of countries that dominate its politics. Particular emphasis is placed on the environmental contexts that shape policy in each country, including political culture, political economy, and interaction with the regional and international communities.

POLS 4317 State and Local Government (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
In-depth examination of government at the state and local levels. Areas covered include the roles of state and local governments in the federal system, how state and local governments are administered, the level of professionalism in state and local government, the impact of political culture on governance, and the effect of state and local institutions, special interests, bureaucracy and public opinion on the policy process.

POLS 4318 International Political Economy (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Aims to train students in systematically, critically, and analytically examining the political and economic interactions in the post-WWII international system. Provides students with an in-depth knowledge of trade policies and rules guiding international economic transactions and the challenges facing the global community in the 21st century.

POLS 4319 Non-Profit Organizations in American Society (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Explores the vibrant and ever-growing role of the non-profit organization in American society. Includes a review of the current non-profit sector and its relationship with government, business and the economy. The importance of organization, management, evaluation, ethics and leadership in the non-profit sector will also be examined.

POLS 4320 Political Theory: Ancient-Medieval (3-3-0)
*Prerequisite: POLS 2305 and 2306.*
Survey of political thinkers from the classical and medieval eras addressing conceptions of just war, leadership, political knowledge, the role of oratory, citizenship, regime types, law, and church-state relations.

POLS 4321  Environmental Politics and Policy (3-3-0)
Prerequisite: POLS 2305, 2306 and junior standing.
This course will survey environmental politics and policy primarily in the United States. We will examine the nature and scope of environmental, energy, and natural resource problems; contrasting perspectives on their severity and policy implications; the goals and strategies of the environmental community and its opponents; public opinion on the environment; scientific, economic, political, and institutional forces that shape policymaking and implementation; approaches to environmental policy analysis; and emphasis on the policy making process at the local and state level in Texas.

POLS 4322  Geopolitics of the Americas (3-3-0)
Prerequisite: POLS 2305 and 2306.
Geopolitics, defined as the intersection of international politics and geography-of North, Central, and South America since the independence of the United States in the latter 18th century. The course surveys broad trends in the international relations, comparative politics, and economics of the region, including the 2181 century geopolitics of crime, energy, identity, and migration.

POLS 4390  Selected Topics in Political Science (3-3-0)
Prerequisite: POLS 2305 and 2306.
Selected topics in political science. Topics may vary from semester to semester, and the course may be repeated when the topics vary. Topics include comparative politics, American political thought, international relations, development of political ideas, Texas politics, campaign politics, and the U.S. Congress.

POLS 4399  Political Science Capstone Seminar (3-3-0)
Prerequisite: POLS 2305, 2306 and junior standing.
Capstone is mandatory for graduating majors. The course reviews the four major subfields in the discipline (political theory, U.S. politics, international relations, and comparative politics) and features lectures by fulltime faculty who rotate into the classroom to speak about their areas of interest. POLS 4399 also introduces students to the graduate and law school seminar format of independent reading, discussion, data analysis, original research, presentation, writing, and constructive critical thinking.

PSY (Psychology)

PSY 1303  Introduction to Psychology (3-3-0)
Prerequisite: Credit or enrollment in ENG 1301 (or 010 core complete)
A survey of the essential subject areas, major theories and approaches to the scientific study of behavior and mental processes. (PSYC 2301)

PSY 2302  Social Psychology (3-3-0)
Prerequisite: PSY 1303.
The study of the psychological processes that occur within groups and between groups as a function of the individual. (SOCI 2326 or PSYC 2319)

PSY 2306  Adjustment (3-3-0)
Prerequisite: PSY 1303.
Psychological theory and research as they relate to contemporary problems of human behavior. Factors contributing to healthy individuals' relationships with themselves and their environment. (PSYC 2315)

PSY 2310  Human Growth and Development (3-3-0)
Prerequisite: PSY 1303.
A lifespan approach to the theories, principles, and characteristics of human development. (PSYC 2314)

PSY 3301  Industrial/Organizational Psychology (3-3-0)
Prerequisite: PSY 1303.
Application of psychological theory to problems of selecting, training, supervising and motivating individuals in organizational settings.

**PSY 3302 Principles of Educational Psychology (3-3-0)**  
*Prerequisite: PSY 1303.*  
An introduction to psychological concepts within the context of education. Additional emphasis on historical, cultural, and legal issues in education.

**PSY 3303 Child Psychology (3-3-0)**  
*Prerequisite: PSY 1303.*  
The study of development from conception up to adolescence from theoretical and practical viewpoints. Emphasis is on the physical, cognitive, social, and emotional changes which occur during childhood.

**PSY 3304 Advanced Research Methods in Psychology (3-3-0)**  
*Prerequisite: PSY 1303, a grade of C or better in SOS 2304 and junior standing.*  
Research designs used in psychology with emphasis on the role of theory in psychological research, data collection, data analysis and mastery of APA format. Students will conduct original research, analyze data and complete and present an APA-style paper.

**PSY 3305 Adolescent Psychology (3-3-0)**  
*Prerequisite: PSY 1303.*  
A study of adolescent development from theoretical and practical viewpoints. Emphasis is on the physical, cognitive, social and emotional changes which occur during adolescence.

**PSY 3306 Introduction to Clinical Psychology (3-3-0)**  
*Prerequisite: PSY 1303 and 3 additional hours in psychology.*  
Introduction to Clinical Psychology is a survey course that covers the history of the field of clinical psychology, knowledge about careers in clinical psychology as well as practice issues such as clinical research and ethics. In addition, the course gives an introduction to psychotherapy and assessment discussing therapy models/methods and basic assessment principals.

**PSY 3309 Adult Psychology (3-3-0)**  
*Prerequisite: PSY 1303.*  
The psychological, biological and sociological factors which affect the major stages of adult development.

**PSY 3310 Psychology of Women (3-3-0)**  
*Prerequisite: PSY 1303.*  
A survey of the major theories and issues involved in understanding the impact of gender on thinking and behaving.

**PSY 3311 Biological Psychology (3-3-0)**  
*Prerequisite: PSY 1303 and 3 additional hours in psychology.*  
A survey of theory and research in the biology of mind and behavior, focusing on the internal processes underlying the activities of the organism, learning, memory, motivation, perception, and emotion. Important biopsychological phenomena will be discussed such as the biological mechanisms underlying eating and drinking, sexual behavior, sleep and dreaming, and stress and the immune system. Other topics may include the structure and function of the nervous, neuroendocrine, and sensorimotor systems, as well as basic principles of evolution and genetics.

**PSY 3312 Positive Psychology (3-3-0)**  
*Prerequisite: PSY 1303.*  
Focuses on character strengths, positive thinking, values, positive institutions, positive emotions, and the pursuit of happiness. An overview of research and principles set forth by psychologists interested in determining factors that contribute to psychological flourishing.

**PSY 3314 Learning and Behavior (3-3-0)**  
*Prerequisite: PSY 1303.*  
Principles, concepts, and philosophy of behavior analysis, also known as radical behaviorism. Primary focus on operant conditioning, secondary focus on respondent conditioning.
PSY 3319  Cognitive Psychology (3-3-0)
Prerequisite: PSY 1303, 3 additional hours in psychology and junior standing.
A survey of theory and research associated with cognitive psychology, as well as its relevance to everyday situations. Important cognitive processes will be discussed, such as perception, attention, memory, knowledge systems, language, problem-solving, reasoning, and decision-making. Introduction to the broader field of cognitive neuroscience will be presented throughout the course. (Replaces PSY 4305 Memory and Cognition.)

PSY 3320  Research Methods in Psychology
Prerequisite: PSY 1301 and 3 additional hours of psychology.
Examination of the theory and process of research in psychology. Students will learn how research is planned, carried out, communicated, and critiqued. The emphasis of instruction will be on basic principles of experimental quasi-experimental, and non-experimental research, data collection, report writing, and ethical standards of research.

PSY 3321  Behavioral Statistics (3-3-0)
Prerequisite: Successful completion of PSY 1303, and either MATH 1301, MATH 1310, or STAT 1312
An introduction to the logic and practice of behavioral statistics used in psychological research. Students will learn to compute descriptive and inferential statistics by hand and/or use of computer software. Laboratory Fee: $25.00.

PSY 3322  Abnormal Psychology (3-3-0)
Prerequisite: PSY 1303.
The etiology, classification and treatment of psychopathological disorders from these major theoretical perspectives: psychodynamic, behavioral, humanistic, physiological and sociocultural.

PSY 3399  Directed Study in Psychology (3-3-0)
Prerequisite: PSY 3320, Research Methods in Psychology; 60 accumulated credit hours, approval of the Department Chair and Dean; 3.0 GPA or better in UHD psychology courses.
Intensive individual study under the guidance of a member of the faculty on selected topics in the field of psychology.

PSY 4301  The History of Psychology (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology and junior standing.
Major theoretical positions and research that contributed to development of psychology as a scientific discipline. Emphasis on developments from the late 19th century to the present.

PSY 4303  African-American Issues in Psychology (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology and junior standing.
This course surveys past and contemporary issues pertaining to the African American, including historical, developmental, clinical, educational and social issues.

PSY 4306  Theories of Personality (3-3-0)
Prerequisite: PSY 1303, six additional hours in psychology and junior standing.
Major contemporary theories of personality are examined along with their implications for clinical application and research.

PSY 4307  Counseling and Psychotherapy (3-3-0)
Prerequisite: either PSY 3322 or PSY 4306.
An introduction to both the theory and practice of counseling and psychotherapy, including a survey of some of the major psychotherapeutic approaches used today, practice with applying them to understand and treat a variety of case study examples, and discussion of various personal, professional, and ethical issues involved in practice.

PSY 4308  Psychological Assessment (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology and junior standing.
The theory and practice of psychological tests, including a survey of the commonly used methods, techniques and instruments for measuring and assessing individual differences with regard to intelligence, personality, interests, aptitude and achievement.

PSY 4309  Psychology and the Law (3-3-0)
Prerequisite: PSY 1303, either PSY 2302 or CJ 3300, and junior standing.
Applies psychological principles to legal processes. Topics include factors affecting judges’, juries’ and attorneys’ judgments during trials; inequalities in defining criminal behavior and the application of justice, especially as influenced by race, class, gender and
sexual orientation; how the legal system can be used to affect social change.

PSY 4310 Health Psychology (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology and junior standing.
Evaluates social, biological and personality factors in health and illness, with an emphasis on health.

PSY 4311 Sensation and Perception (3-3-0)
Prerequisite: PSY 1303, 3 additional hours in PSY and junior standing. PSY 3311 or PSY 3319/4305 recommended.
Introduction to the processes by which information comes from the external world into the human mind and is processed such that it has meaning. The anatomy and physiology of the avenues of the mind - the sensory systems – will be examined, as well as the manner in which the brain uses sensory information to create conscious experience of the world.

PSY 4312 Advanced Statistical Analysis (3-3-0)
Prerequisite: A grade of C or better in SOS 2304 and PSY 3320, and junior standing. PSY 3304 is recommended. Laboratory fee: $25.
Advanced statistical analysis in psychology. Includes individual student experimentation, data analysis, parametric and non-parametric statistical topics and APA style research report writing and presentation.

PSY 4313 Psychology of Prejudice (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in PSY, and junior standing.
This course draws on theory and research from social and cognitive psychology to explore stereotyping, prejudice, and discrimination. Issues include the formation and maintenance of stereotypes, functions and costs of stereotyping, and stereotype change. Specific topics include privilege, oppression, racism, sexism, heterosexism and homophobia, classism, and discrimination on the basis of physical or cognitive ability. Both “old fashioned’ and modern, subtle forms of prejudice are investigated. Research on strategies for reducing intergroup conflict, violence, and discrimination will be explored.

PSY 4314 Applied Behavior Analysis I (3-3-0)
Prerequisite: PSY 3314, 3 additional hours in PSY, and junior standing.
Application of behavior analytic theory, principles, and research in classical and operant conditioning to changing behavior in therapeutic, educational, work, family, personal, and other settings.

PSY 4315 Contemporary Parenting (3-3-0)
Prerequisite: PSY 2310 or PSY 3303.
Focuses on understanding the contemporary context and process of parenting and caregiving through theory, core concepts, and experiential exercises. Explores the process by which parents and children affect each other as individuals and as a family.

PSY 4316 Psychology of the Elderly (3-3-0)
Prerequisite: PSY 1303 and 6 additional hours in psychology and junior standing, or permission of instructor.
This course focuses on understanding the aging process from a psychological perspective by studying topics such as research methods, major theories of aging, and stereotypes about aging. This course focuses on adults aged 65 and older, and the changes in and concerns of physical health, cognition and social relationships that occur in later life and psychology consequences of physical decline and illness.

PSY 4317 Multicultural Psychology (3-3-0)
Prerequisite: PSY 1303 and 6 additional hours in psychology and junior standing, or permission of instructor.
This course focuses on understanding how culture (environment), ecology, and behavior interact to shape human thought and behavior. This course critically compares psychological diversity and the underlying reasons for such diversity. This course also considers new cultural blend, interconnected systems and multiple cultural identities.

PSY 4318 Comparative Psychology (3-3-0)
Prerequisite: PSY 1303 and 6 hours in psychology.
This course familiarizes students with research methods, theories, and experimental data in comparative psychology. The course will examine various events such as perception, spatial learning, timing, counting, social organization, memory, tool use, and knowledge of self in animals and humans. This course will also use evolutionary principles to relate the phylogenetic differences between species to their respective patterns of behavior and adaptation.
PSY 4320  Psychology of Religion (3-3-0)
Prerequisite: PSY 1303 and junior standing.
This course emphasizes the study of religious experience through the lens of Psychology. An empirical approach focusing on research findings will be central. The course will explore the psychological underpinnings of all religions when possible. Emphasis will also be placed on spiritual development across the lifespan as well as the social implications of religion.

PSY 4321  Psychology of Memory (3-3-0)
Prerequisite: PSY 1303 and six additional hours in psychology and junior standing, or permission of instructor. PSY 3311 and/or 3319 recommended.
This course provides an overview of memory theories, research, and applications. This course will examine the structure and organization of memory, including: behavioral and functional memory research, short-term and long-term memory, working memory, encoding and retrieval processes, implicit memory and explicit memory systems, autobiographical memory, eyewitness testimony, developmental changes in memory, neuropsychological correlates of memory, and memory disorders.

PSY 4370  Senior Seminar in Psychology (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology and junior standing.
In-depth investigation of selected topics in psychology. May be repeated for credit when topic varies.

PSY 4380  Field Experiences in Psychology (3-3-0)
Prerequisite: 60 hours toward degree, 2.0 GPA, and approval of department chair.
Work experience in public or private sector positions of relevance to the field of psychology. Conferences with the instructor and other academic assignments are required. May be repeated once for credit.

PSY 4390  Special Topics in Psychology (3-3-0)
Prerequisite: PSY 1303, 6 additional hours in psychology, and junior standing or permission of instructor.
Selected topics in psychology. Topics may vary from semester to semester, and the course may be repeated when topics vary.

PSY 4395  Special Projects in Psychology (3-3-0)
Prerequisite: 60 hours toward PSY degree and department approval.
Provides a culminating research experience for the Psychology major. May include a senior thesis or another special project worked out between the student and the department. May be repeated once for credit.

PSY 4399  Directed Study in Psychology (3-3-0)
Prerequisite: Successful completion of PSY 3320, Research Methods in Psychology; senior standing, approval of the department chair and dean; and 3.0 GPA or better in UHD psychology courses.
Intensive individual study under the guidance of a member of the faculty on selected topics in the field of psychology.

RDG (Reading)

RDG 1300  Reading (3-3-0)
Prerequisite: Placement examination is required.
A review of successful techniques for improving vocabulary, comprehension, interpretation and evaluation, and basic study skills. While this course may not be used to satisfy degree requirements, students placed in it must earn a grade of C or better to be allowed to register for reading-intensive college-level courses.

READ (Reading Education)

READ 3301  Teaching Reading in the Elementary Schools (3-3-2)
Prerequisite: Department approval.
Focuses on the developmental nature of reading. Examines current methods, strategies, and materials for emergent literacy, elementary reading, and middle school reading instruction.

READ 3302  Correcting Reading Problems in the Classroom (3-3-2)
Prerequisite: Department approval.
Focuses on procedures and strategies for preventing, diagnosing and correcting reading problems. Examines theoretical models of the reading process and the nature and types of reading differences (disabilities).

**READ 3303**  Literacy Curriculum, Methods, and Assessment EC-2 (3-3-2)
Prerequisites: Admission to Professional Development Sequence, core complete, ECH 2311, ECH 2313, ESL 3301, PED 3304, READ 3305 and READ 3306.
Pre- or Corequisites: ETC 3301, MATH 3321, MATH 3322, READ 3307, and SOSE 3306. Concurrent enrollment in EED 3312, PED 3306, and PED 4380.
Current methods, strategies, and curricular resources for teaching and assessing emergent literacy in the early childhood-second grade classroom

**READ 3304**  Reading Curriculum, Methods, and Assessment 4-8 (3-3-2)
Prerequisite: Department approval.
Reading instructional strategies, methods, approaches, and classroom assessment procedures for the upper elementary and middle school classroom teacher. Focuses on providing appropriate instruction to address student diversity and class performance differences for students in upper elementary and middle school.

**READ 3305**  Foundations of Literacy EC-12 (3-3-0)
This introductory course surveys children’s and young adult literature and literacy theory and approaches in relation to the integration of literature and the language arts in culturally diverse classrooms. Designed to address the Texas State Board of Educator Certification standards/competencies for reading/language arts.

**READ 3306**  Language and Literacy Development (3-3-0)
Investigates the relationship between language and thought, theories of language development, changes in the young child's cognitive structure, and the role of the teacher in literacy development.

**READ 3307**  Language Arts Instruction EC-12 (3-3-0)
Prerequisite: Declared Urban Education major, core complete, and departmental approval.
This course is designed to address instruction of expressive language (speaking and writing) and receptive language (reading and listening). Methodologies for instructing grammar conventions, Standard English usage, spelling, writing process, and expressive communication skills and strategies are emphasized.

**READ 3308**  Literacy Curriculum, Methods, and Assessment in Spanish EC-2 (3-3-2)
Prerequisite: Department approval.
Current methods, strategies, and curricular resources for teaching and assessing emergent literacy for the Spanish-speaking student in the early childhood-second grade classroom.

**READ 3309**  Teaching Reading in the Content Areas 4-12 (3-3-0)
Focuses on reading as a thinking and learning process. Emphasizes current theory and methods for teaching reading and study strategies for middle grade and secondary content area teachers. Special attention to assessing reading difficulties and providing appropriate instruction to address student diversity and class performance differences in content area classrooms.

**READ 3312**  Reading Curriculum, Methods, and Assessment in ESL 4-8 (3-3-2)
Prerequisite: Department approval.
Instructional strategies, methods, approaches, and classroom assessment procedures for teaching reading to bilingual and ESL upper elementary and middle school students. Focuses on providing appropriate instruction to address student diversity and class performance differences for students in upper elementary and middle school.

**READ 3313**  Reading Curriculum, Methods, Assessment, and Diagnosis 4-8 (3-3-3)
Prerequisites: Successful completion of EED 3312, ESL 3303, PED 3305, PED 4380 and READ 3309.
Pre- or Corequisites: NS 3310/12 and NS 3311.
Concurrent enrollment in EED 3311, EED 3315, and PED 4381.
A field-based course that addresses the needs of 4-8 students. Focuses on assessment, evaluation, and diagnosis of reading capabilities and appropriate instructional strategies to meet specific needs to address student diversity and class performance differences. Requires working one-to-one with a 4-8 student to provide individualized instruction based on assessment data.
READ 3317  Language Arts Instruction for the Bilingual/ESL Classroom (3-3-2)
Instruction of expressive language (speaking and writing) and receptive language (listening and reading). Methodologies for instructing the writing process including grammar conventions, Standard English and Spanish usage, spelling, and expressive communication skills and strategies.

READ 3318  Reading Curriculum, Methods, Assessment and Diagnosis for English Language Learners in Grades 4-8 (3-3-0)
Prerequisite: Department approval.
A field-based course that addresses the needs of upper elementary and middle level students. Focus is on assessment, evaluation, and diagnosis of reading capabilities and appropriate instructional strategies to meet specific student needs. Requires working one-to-one with English language learners to provide individualized instruction based on assessment data.

READ 3319  Literacy Curriculum, Methods and Assessment for English Language Learners for EC-2 (3-3-3)
Prerequisite: Department approval.
Current methods, strategies, and curricular resources for teaching and assessing emergent literacy for the English language learner in the EC-2 classroom.

READ 3327  Language Arts Instruction 4-8 (3-3-2)
Prerequisite: Department approval.
Instruction of expressive language (speaking and writing) and receptive language (listening and reading). Methodologies for instructing the writing process including grammar conventions, Standard English usage, spelling, and expressive communication skills and strategies. Field experience is required.

READ 4303  Literacy Curriculum, Methods, Assessment 3-6 (3-3-2)
Prerequisites: Successful completion of EED 3312, PED 3305, PED 4380, and READ 3303.
Pre-or Corequisites: NS 3310 and NS 3312.
Concurrent enrollment in EED 3311, EED 3315, and PED 4381.
Current methods, strategies, and curricular resources for teaching and assessing beginning reading for students in grades 3-6.

READ 4304  Diagnostic Instruction of Reading 4-8 (3-3-2)
Prerequisite: Department approval.
Designed to address at-risk readers, this course focuses on assessment, evaluation, and diagnosis of reading difficulties and appropriate instructional strategies to meet specific needs within the regular classroom. This field-based course requires working one-to-one with an elementary or middle school student to provide individualized instruction based on assessment data.

READ 4306  Literacy Curriculum, Methods, and Assessment in Bilingual/ESL (3-3-2)
Prerequisites: Admission to Professional Development sequence, core complete, ECH 2313, PED 3314, and READ 3305.
Pre-or Corequisites: BED 3307, ETC 3301, MATH 3321, MATH 3322, and SOSE 3306. Concurrent enrollment in EED 3311, PED 3305, and PED 4380.
Current methods, strategies, and curricular resources for teaching and assessing beginning reading for Spanish speaking and ESL students.

READ 4307  Diagnostic Instruction of Reading in the ESL Classroom 4-8 (3-3-2)
Prerequisite: Department approval.
Designed to address bilingual and ESL readers, this course focuses on assessment, evaluation, and diagnosis of reading difficulties and appropriate instructional strategies to meet specific needs within the regular classroom. This field based course requires working one-to-one with an elementary or middle school bilingual or ESL student to provide individualized instruction based on assessment data.

READ 4319  Literacy Curriculum, Methods, and Assessment for English Language Learners 2-4 (3-3-3)
Prerequisite: Department approval.
Current methods, strategies, and curricular resources for teaching and assessing beginning reading for the English language learner in grades 2-4.

READ 4321  Literacy across the Curriculum 8-12 (3-3-2)
Prerequisite: Department approval.
This course explores instructional opportunities for speaking and listening, reading and writing multiple texts/genres, and viewing and representing ideas through concept/issue-based thematic study with attention to the integration of technology. Special attention is given to strategies and resources for struggling adolescent readers.

**READ 4322  Literacy Across the Curriculum 8-12 (3-3-2)**

Prerequisite: Department approval.

Instructional opportunities for speaking and listening, reading and writing multiple texts/genres, and viewing and representing ideas through concept/issue-based thematic study with attention to the integration of technology. Special attention is given to strategies and resources for struggling adolescent readers. (Secondary Block II course. Field experience is not required.)

### RELS (Religious Studies)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELS 3301</td>
<td>Music in American Christianity (3-3-0)</td>
<td>Crosslisted as HUM 3331. Credit may not be earned for both. Prerequisite: MUS 2301, MUS 2302 or approval of instructor.</td>
</tr>
<tr>
<td></td>
<td>This course surveys the social, cultural, theological, and historical development of significant musical styles and genres in North American Protestant Christianity from the early 17th century to the early 21st century. Genres studied include: colonial psalms and lined hymns; shapenote hymns; spirituals; revival hymns; Sunday School songs; hymns of the urban revival movement; early gospel hymns; arranged/concert spirituals; commercial gospel music (African-American and white/southern gospel); praise and worship music; Contemporary Christian music.</td>
<td></td>
</tr>
<tr>
<td>RELS 3306</td>
<td>Art and Religion - Origins (3-3-0)</td>
<td>Crosslisted as HUM 3305, ART 3306. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation. Survey of the religious arts and architecture of the ancient world and their underlying beliefs and practices. Examines the early art and architecture of the world religions. All works are presented in historical sequence, concluding with the period known in the West as the Renaissance.</td>
</tr>
<tr>
<td>RELS 3307</td>
<td>Art and Religion - Developments (3-3-0)</td>
<td>Crosslisted as HUM 3307, ART 3307. Credit may not be earned for both. Prerequisite: 3 hours of art history or art appreciation. Survey of the religious arts and architecture of the developing modern world from the 17th century to the present. The main focus is on religious art in Buddhism, Christianity and Islam, but the course also examines the impact of these religions on modern secular and religious movements.</td>
</tr>
<tr>
<td>RELS 4355</td>
<td>Religious Communication (3-3-0)</td>
<td>Prerequisites: COMM 3320; Crosslisted as COMM 4335</td>
</tr>
<tr>
<td></td>
<td>An analysis of the ways institutional religion applies communication theory to propagate values, gain adherents, and promote awareness of critical social issues. This course will provide an overview of communication theory that is specifically religious in content.</td>
<td></td>
</tr>
<tr>
<td>RELS 4314</td>
<td>The Old Testament (3-3-0)</td>
<td>Prerequisite: 3 hours of literature. Crosslisted as HUM 4315.</td>
</tr>
<tr>
<td></td>
<td>A study of the literature, history, culture, and religious traditions of ancient Israel and Judah, and the influence of Judaism and the Old Testament/Hebrew Bible on contemporary religious ideas.</td>
<td></td>
</tr>
<tr>
<td>RELS 4315</td>
<td>The New Testament (3-3-0)</td>
<td>Prerequisite: 3 hours of literature. Crosslisted as HUM 4318.</td>
</tr>
<tr>
<td></td>
<td>A study of the literature, history, culture, and religious traditions of the New Testament, and the influence of early Christianity on contemporary Western and world cultures.</td>
<td></td>
</tr>
<tr>
<td>RELS 4316</td>
<td>The Early Christian Church (3-3-0)</td>
<td>Prerequisite: 3 hours of literature. Crosslisted as HUM 4316.</td>
</tr>
<tr>
<td></td>
<td>The Early Christian Church provides the student with a thorough overview of the scope and wealth of early Christian literature, theology, and ritual. The course primarily covers the work of the Fathers down to Gregory the Great. The course is a thorough resume of modern patristic research, and serves as a basic introduction to the field.</td>
<td></td>
</tr>
</tbody>
</table>
RELS 4317 World Mythology (3-3-0)
Prerequisite: 3 hours of literature. Crosslisted as HUM 4317.
Compares and contrasts Western (Graeco-Roman) traditional tales with non-Western traditional tales.

SCM (Supply Chain Management)

SCM 3301 Introduction to Supply Chain
Prerequisite: Completion of the common core plus 18 additional hours, and completion of, or enrollment in, BA 3300.
This course provides an extensive introduction to the field of supply chain management. Students will learn the principle of supply chain management as related to the flows of materials through a supply chain including fundamentals of inventory management and production planning. This will be gained by providing in this course an introduction to supply chain topics and a holistic view of the supply chain management process in organizations: supply chain environment, sourcing, SCM information control systems, materials flow control, and organization and planning.

SCM 3303 Negotiations with a Global Perspective (3-3-0)
Prerequisite: BA 3300.
Crosslisted as MGT 3303. Credit may not be earned for both.
Process of negotiation, human behavior involved in negotiations, techniques of communication, persuasion, strategy, tactics and formulation of game plans. Practical exercises in mock negotiations.

SCM 3307 Strategic Procurement (3-3-0)
Corequisite: BA 3300.
Strategic procurement is the collaborative and structured process of critically analyzing an organization’s spending and using this information to make business decisions about acquiring commodities and services more effectively and efficiently. This course provides a framework for thinking about strategic procurement and tools to effectively implement the strategic sourcing process in a global environment.

SCM 3308 Purchasing Management (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, MATH 1305, and a C or better in BA 3300.
Management of the purchasing function. Emphasis on the overall goals of purchasing. These goals include: provide an uninterrupted flow of materials and services, keep inventory at minimum, maintain quality standards, develop competent suppliers, standardize the item bought, obtain the lowest ultimate price, improve the organization’s competitive position and achieve good external and internal working relationships.

SCM 3309 Materials and Inventory Management (3-3-0)
Prerequisite: Completion of the common core plus 18 additional hours, MATH 1305, and a C or better in BA 3300
Materials and inventory management concerns the materials flow process within an organization. This course equips students with knowledge of fundamental issues in: production planning and control, materials planning, inventory management, storage and distribution, warehousing, quality issues, and forecasting.

SCM 3316 Supply Chain Information and Control Systems (3-3-0)
Crosslisted as MIS 3316. Credit may not be earned for both. Prerequisite: Completion of the common core plus 18 additional hours, MATH 1305, and completion of, or enrollment in, BA 3300.
Supply chain information systems include theoretical and practical understanding of hardware and software operations in the supply chain. This includes inventory management and tracking, supplier evaluation, physical distribution systems and customer service using information systems. Technology includes bar coding, radio frequency tracking and other automated data entry techniques in managing procurement operations. The role of documentation in domestic and international trading are examined including the use of commercial invoicing, packing lists, ocean bills of lading, freight forwarding booking requests, shippers’ export declarations and certificates of origin.

SCM 3320 Domestic & International Logistics (3-3-0)
Prerequisite: BA 3300.
This course covers the overall logistics process for time and place utility of products. Topics include international logistics terms (incoterm), intermodal transportation, regulatory risks and costs, packaging and documentation, and geographic factors. Students will apply relevant industry language and terminology to analyze and discuss cases in logistics.
SCM 3399  Directed Study in Supply Chain Management  
Prerequisite: Approval of department chair.  
Selected topics in supply chain management. Intensive individual study under the guidance of a member of the supply chain management faculty.

SCM 4307  Supply Chain Logistics Management (3-3-0)  
Crosslisted as MKT 4304. Credit may not be earned for both. Prerequisite: BA 3300, SCM 3308, or MKT 3301.  
The overall logistics process for time and place utility of products. Topics include customer accommodation distribution strategy; planning and scheduling; inventory, packaging and storage strategy and management; transportation infrastructure and regulation; transportation management; logistics network integration and system design processes; organization and relationship management; and performance and financial assessment.

SCM 4311  Management of Supply Chain Contracts (3-3-0)  
Prerequisite: BA 3300, SCM 3308.  
Traditional contract practices have developed from government purchasing. Differences between traditional and new business developments have led to many different forms of contracts. Focus and evaluation is on contracts used in industry, government, non-profit organizations. Emphasis on political, legal, and fiscal aspects including financing and funding. Highlights include study of the contracting process, subcontracting, and contracts administration and also include management of progress, quality, and cost in contract performance.

SCM 4312  Supply Chain Contracts, Law, & Ethics (3-3-0)  
Corequisite: SCM 3307 or departmental approval  
The use of contract law to develop valid and legally enforceable contracts is the focus of this course. Emphasis is on legal, ethical, and fiscal aspects including financing and funding in developing contracts. Major topics include management of contract risks, the contracting process, subcontracting, and administration of contracts, and also the management of progress, quality, and cost in contract performance. Focus and evaluation is on contracts used in industry, government, and non-profit organizations.

SCM 4315  Supply Chain Management (3-3-0)  
Prerequisite: BA 3300, SCM 3308 or equivalent.  
Covers the concept of supply chains beginning with raw materials, going through an organization's internal operations, and continuing to the ultimate end user of a product. Focuses on how to manage principal supply chains to improve the overall supply efficiency of an organization. Includes: how to identify supply chains, an overview of methods, processes, and systems used in the operation of supply chains, and where and how to apply or change supply chain operations to improve their performance.

SCM 4317  Decision Analytics for Supply Chain Management (3-3-0)  
Prerequisite: SCM 3309, MGT 3332.  
This course covers the gathering and analysis of data from information systems to make decisions in the supply chain under uncertainty. Students will use imperfect data to analyze the supply chain as a system and make data-driven decisions, with an eye toward the impacts of decisions on other elements of the supply chain system. Students will make decisions and create reports that highlight the improvement of the supply chain and its processes holistically.

SCM 4318  Supply Chain Systems and Processes (3-3-0)  
Prerequisite: MGT 3332.  
Corequisite: SCM 3309.  
This course provides a holistic view of supply chain management systems and processes. Topics explored in this course include operations and supply chain strategies, business process mapping waiting line and simulation modeling, supply management, logistics and network optimization, production and aggregating planning.

SCM 4350  Supply Chain Management Capstone (3-3-0)  
Prerequisite: 12 hours of SCM coursework with a 'C' or better  
The course is an in-depth study of supply chain management strategy and the decision making processes. Students will use case studies to analyze and develop solutions to supply chain problems and review the latest literature in supply chain management. Course content is aligned with the Certified Professional Supply Manager (CPSM) examinations.

SCM 4380  Field Experience in Supply Chain Management  
Prerequisite: Approval of department chair.
For more information and qualifications see *Field Experience* in the College of Business section of this catalog and/or the department chair for your declared major.

**SCM 4390**  Special Topics in Supply Chain Management (3-3-0)
*Prerequisite: Approval of department chair.*
Intensive study of one or more major topics in supply chain management. May be repeated for credit with departmental approval when topic varies.

---

### SED (Secondary Education)

**SED 3302**  Instructional Design to Promote Student Learning (3-3-2)
*Prerequisites: Successfully completed PED 3305, SED 3312, and PED 4380. Concurrent enrollment in PED 3307 and PED 4381.*
Provides students with opportunities to develop and apply effective instructional strategies and curriculum designs that enhance learning across the secondary school curriculum. Special attention to the integration of technology into lesson planning and design. (Professional Development II course. Field experience required.)

**SED 3303**  Understanding the Learner in the Secondary School (3-3-2)
*Prerequisite: Department approval.*
Explores the relationship of psychological theories to learning and education in the secondary school environment. Emphasis on applying theory-based knowledge to diverse students and families in an urban setting. (Secondary Block I course.)

**SED 3305**  Professional Roles and Responsibilities in the Urban Secondary School (3-3-2)
*Prerequisite: Department approval.*
Focuses on a wide range of pedagogical issues including educational philosophy, reflection, effective lesson design and presentation and other professional teaching roles and responsibilities. (Secondary Block I course. Field experience required.)

**SED 3306**  Professional Roles and Responsibilities in the Urban Secondary School (3-3-2)
*Prerequisite: Department approval.*
Focuses on a wide range of pedagogical issues including educational philosophy, reflection, effective lesson design and presentation and other professional teaching roles and responsibilities. (Secondary Block I course. Field experience is not required.)

**SED 3307**  Secondary Teacher roles in Assessment and Profession (3-3-0)
*Prerequisites: Successfully completed PED 3305, SED 3312, and PED 4380. Concurrent enrollment in PED 3302 and PED 4381.*
This course presents pedagogical and professional issues that are relevant to the profession of teaching. Specifically, students will engage in clarification of ethical issues, educational philosophies, reflective practice, lesson design and presentation, and assessment practices that inform instruction. Students will learn how to plan for, implement, communicate results of, and evaluate a variety of assessment procedures, with particular attention to increasing student motivation and engagement in learning. (Professional Development II course. Field experience required.)

**SED 3311**  Curriculum Foundations for Teaching in the Urban Secondary School (3-3-2)
*Prerequisite: Department approval.*
An introductory course which surveys techniques and materials appropriate for presentation and design of the learning experience across the secondary school curriculum. This field-based course is structured so that special emphasis is placed on the interaction of technology into the learning experience.

**SED 3312**  Organizing and Managing the Classroom Environment in the Secondary School (3-3-2)
*Prerequisites: Declared major. Concurrent enrollment in PED 3305 and PED 4380.*
Introduction, analysis and development of effective classroom management principles. Emphasis on consideration for students of various cultures in urban settings and students with special needs. (Secondary Professional Development I course. Field experience required.)

**SED 3313**  Instructional Design to Promote Student Learning (3-3-2)
*Prerequisite: Department approval.*
Provides students with opportunities to develop and apply effective instructional strategies and curriculum designs that enhance learning across the secondary school curriculum. Special attention to the integration of technology into lesson planning and design. (Secondary Block II course. Field experience is not required.)

SED 3314 Organizing and Managing the Classroom Environment in the Secondary School (3-3-2)
Prerequisite: Department approval.
Introduction, analysis and development of effective classroom management principles. Emphasis on consideration for students of various cultures in urban settings and students with special needs. (Secondary Block I course. Field experience is not required.)

SED 4301 Student Teaching in the Secondary Classroom
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban public school, guided by a mentor teacher and site-based university instructor.

SED 4302 Student Teaching in the Secondary Classroom
Prerequisite: Department approval.
Classroom management, student record keeping, assisted and independent teaching in an urban public school, guided by a mentor.

SOC (Sociology)

SOC 1303 Introduction to Sociology (3-3-0)
An introduction to the scientific study of human society. This sociological perspective focuses on new ways of looking at society and its component parts, so the student is encouraged to develop a critical view of society, social processes and individual roles.

SOC 2302 Social Problems (3-3-0)
Prerequisite: SOC 1303.
Contemporary social issues and their relationships to social structure and change. The course will consider causes and consequences of such problems as inequality, poverty, hunger, crime, urban deterioration, and environmental destruction. (SOCI 1306)

SOC 2303 Family in a Changing Society (3-3-0)
Prerequisite: SOC 1303.
The family as a social institution in American society is critically examined with particular attention to the historical context of the family, changing demographic trends, public policy, and the relationships between the family and other institutions.

SOC 3301 Qualitative Research Methods (3-3-0)
Prerequisite: none.
Introduction to qualitative methods frequently used in social research including field based approaches such as participant observation, intensive interviewing and focus groups, and unobtrusive approaches such as content analysis and historical comparative analysis. Techniques and skills required for data collection and analysis and ethical, social and political dimensions of social science research.

SOC 3304 Minorities in America (3-3-0)
Prerequisite: SOC 1303 and junior standing.
Explores the social construction of meaning associated with concepts of minority/majority status, race, and ethnicity. Issues may include assimilation, pluralism, subcultural diversity, and intergroup relations in past and present American society. Various theoretical perspectives will inform discussion.

SOC 3306 Social Inequality (3-3-0)
Prerequisite: Sophomore standing.
US social and economic inequality, focusing on theory, analysis and data. Topics discussed include class system in the United States, differentials in economic levels, family, education, life-styles, class consciousness; racism and sexism as structures of inequality; the relationship between social class and political power and the future of inequality.
SOC 3307  Deviance and Social Control (3-3-0)
Prerequisite: Sophomore standing.
Study of norm-violating behavior in contemporary society. Comparison and contrast of multiple theoretical perspectives used to explain social deviance.

SOC 3309  Health, Illness, and Society (3-3-0)
Prerequisite: none.
Historical and cross-cultural analysis of the social factors and coping mechanisms associated with health and illness. Topics may include the social production of illness, the social organization of health care, the medicalization of social problems, and current ethical and policy issues.

SOC 3312  Aggression and Violence in Society (3-3-0)
Prerequisite: SOC 1303 and junior standing.
Theory- and data-based exploration of biological, psychological, sociological, and cultural explanations for aggressive behavior, including its manifestation as violence. Prevention strategies will also be discussed.

SOC 3313  Drug Use and Society (3-3-0)
Prerequisite: SOC 1303 and junior standing.
Employing perspectives of both sociology and social psychology, this course explores the use of legal and illegal substances, mainly with reference to the United States. Topics discussed will be: 1) the history of used and attitudes toward tobacco, alcohol, marijuana, cocaine, heroin, and other substances; 2) the political economy of drug production and distribution; 3) social psychological stages of substance used involvement; 4) contemporary approaches to substance use prevention among adolescence; 5) socio-cultural causes of substance use.

SOC 3315  Sex and Gender (3-3-0)
Prerequisite: Junior standing and one of the following: ANTH 2301, ANTH 2302, PSY 1303, SOC 1303.
Explores the social construction of gender, the consequences of gender stratification, and the theoretical explanations for gender development and inequality. Issues include the intersection of sex and gender with sexual orientation, class, race, and ethnicity.

SOC 3316  Culture and Society (3-3-0)
Prerequisite: SOC 1303 and junior standing.
Introduction to the sociological study of culture, focusing on theories of the construction and use of culture. Examines the relationships between values, beliefs, and expressive symbols, on the one hand, and the institutional structure of society on the other. Methods of researching and analyzing culture are discussed. Topics may include art, ideology, media, and religion.

SOC 4301  Power and Society (3-3-0)
Prerequisite: SOC 1303 or permission of the instructor.
Examination of the social organization of political and economic power. Different theoretical views of the state are discussed as well as the ways different groups compete for power. Other topics include the relationship between economic inequality and political power and political participation.

SOC 4302  Sociocultural Analysis of Film (3-3-0)
Prerequisite: Junior standing and one of the following: ANTH 2302, SOC 1303, PSY 1303.
Analysis of cinematic conventions whereby American cultural values are encoded in the narrative structures of popular movies. Considers certain cinematic stories as myth and explores the sociological and social psychological functions of movies that are mythic in nature. Film genres to be discussed may include westerns, police/detective, comedies, and recent films illustrating the confusion and anxiety endemic to post-industrial, postmodern society.

SOC 4303  Work in a Changing Society (3-3-0)
Prerequisite: none.
Analysis of work as a social phenomenon from sociological and social psychological theoretical perspectives. Topics may include work and the industrial revolution, bureaucratic organization of work, influence of technology on work, changing nature of work in a post-industrial society, management of emotions and antisocial behavior in the workplace.

SOC 4305  Urban Sociology (3-3-0)
Prerequisite: Junior standing or permission of the instructor.
Study of the city as an arena for the conduct of social life. Topics may include the global history of urban development, contemporary urban problems in the context of globalization, and development of public policy.

**SOC 4306  Collective Behavior and Social Movements (3-3-0)**  
*Prerequisite: Junior standing or permission of the instructor.*  
Course examines theories and causes of non-institutional collective processes and events – from mobs and riots to organized protest and social movements – that have the potential for social change. Historic and contemporary social movements are examined to understand their role in modern social life.

**SOC 4308  Conflict and Conflict Resolution (3-3-0)**  
*Prerequisite: SOC 1303 and junior standing.*  
Survey of conflict and conflict resolution, analyzing the micro and macro perspectives of conflict and its escalation and de-escalation. Topics include models of 3rd-party conflict resolution and associated skills and techniques, power and resources and related issues of identity and culture in understanding the roots and course of conflict.

**SOC 4309  World Migration (3-3-0)**  
*Prerequisite: SOC 1303 and junior standing.*  
Examines the diversity of origin and incorporation of immigrants in developed countries. Focus on types of immigrants and their processes of economic, political, social, cultural or psychological adaptation; present realities of contemporary global migration in the context of competing theories in the social sciences; and the immigration policies of western nations.

**SOC 4310  Mass Media (3-3-0)**  
*Prerequisite: none.*  
Focus on the nature of mass media in contemporary society and its impact on individuals and groups.

**SOC 4315  Social Theory (3-3-0)**  
*Prerequisite: SOC 1303 or permission of the instructor.*  
Explores the theoretical perspectives that social and behavioral scientists have developed over the past 200 years to analyze processes producing social order and social changes. Practical application of these perspectives to various social issues also will be emphasized.

**SOC 4316  Globalization (3-3-0)**  
*Prerequisite: SOC 1303.*  
This course examines ways in which globalization constitutes complex economic, social, cultural, and political trends in the United States and elsewhere. In addition, it provides an overview of the major social scientific theoretical perspectives applicable to understanding the process of globalization and its connection to economic underdevelopment, as well as the development of the world capitalist system and its future in a rapidly changing global context.

**SOC 4317  Religion in a Changing Society (3-3-0)**  
*Prerequisite: SOC 1303 or permission of the instructor.*  
Explores the relationships between the structure and culture of various religious traditions and their impact on social life in the US and other countries. A variety of research methods and theoretical approaches will be utilized to explore the influence of religious values, beliefs and practices on individual and collective behavior. Will also address the impact of various social institutional forces on religious values, beliefs and practices.

**SOC 4318  Aging in a Changing Society (3-3-0)**  
*Prerequisite: Junior standing or permission of the instructor.*  
A sociological approach to the study of aging. This course examines and analyzes the impact of our aging population on societal change and the effects of ongoing economic, technological, political, and cultural developments on socially constructed meanings of aging. Topics to be covered include social influences on the physiological and psychological aspects of aging, the implications of growing elderly populations for global demographics, and the ethical dilemmas of our aging society.

**SOC 4390  Special Topics in Sociology (3-3-0)**  
*Prerequisite: SOC 1303, 3 additional hours in sociology, junior standing, or permission of the instructor.*  
Selected topics in sociology. Topics may vary from semester to semester, and the course may be repeated when topics vary.
SOCW 2189 Preparation to Study Abroad (1-1-0)
Prerequisite: Sophomore, junior, senior, or graduate standing.
A prerequisite for all SOCW study-abroad courses. This one-hour course is an examination of the country and culture in which the student plans to study and a guide to better understand one's own cultural development. (The course will be graded as satisfactory or unsatisfactory.)

SOCW 2361 Introduction to Social Work and Social Welfare (3-3-0)
An introduction to the broad field of social work, with an overview of the history and development of the profession and of social welfare in the US. Exploration of the ideology, values, and ethics core to the profession, fields of practice, and issues of professionalism.

SOCW 2363 Introduction to Social Welfare Policy (3-3-0)
This course introduces students to social welfare policy as developed and implemented within the U.S. It reviews the history of social welfare policy and contemporary policies impacting social work and service delivery. This course is open to non-social work majors.

SOCW 3311 Urban Practice I (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, and completion of or concurrent enrollment in SOCW 3361.
This course provides a foundation of the knowledge, values, and skills required for ethical and effective generalist practice with systems of all sizes. This course is only open to majors.

SOCW 3312 Urban Practice II (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, and completion of or concurrent enrollment in SOCW 3362.
This course focuses on ethical and effective social work practice with groups, organizations and communities. It focuses on affecting the well-being of clients through organizational change from within social work agencies and organizations. Institutional, organizational and group leadership is emphasized as well as structural change theory, practice techniques and evaluation methods for groups and larger systems. This course is only open to majors.

SOCW 3313 Case Management (3-3-0)
Prerequisite: Social work major, SOCW 2361 and SOCW 2363.
This course introduces students to the history, models, and processes of case management. It reviews case management professional ethics, goals, models, components, and phases. Particular emphasis will be given to the knowledge, values, skills, and policies required for efficient and effective case management in organizations and service delivery systems. This course is only open to social work majors.

SOCW 3331 Practice with Aging Populations (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, and completion of or concurrent enrollment in SOCW 3312.
Explores demographic, economic and social trends regarding the aging process and the experience of aging from a variety of perspectives including cultural variations. Explores economic, social and psychological concerns of well and vulnerable elderly with a focus on marginalized populations.

SOCW 3332 Practice with Children and Adolescents (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, and completion of or concurrent enrollment in SOCW 3312.
An exploration of the knowledge and practice skills specific for working with this vulnerable population. Attention to the child welfare and juvenile justice systems and to policy, trends, and skills for influencing legislative agendas which affect children and adolescents.

SOCW 3350 Research Methods in Social Work (3-3-0)
Prerequisite: Social work major; SOCW 2361, SOCW 2363, 3361, and completion or concurrent enrollment in SOCW 3311.
Laboratory fee: $25.
This course introduces students to social work research and research-informed practice. It reviews principles of and processes for creating research questions; theory construction and testing; selection of study designs and appropriate methodologies including quantitative, qualitative, and mixed methods; data collection; and report writing. Particular emphasis will be given to human subjects’ protection and study design and implementation guided by professional values and ethics.

SOCW 3351  Statistical and Qualitative Data Analysis for Social Work (3-3-0)
Prerequisite: Social work major; completion of MATH 1301, MATH 1310, or equivalent course; SOCW 2361, SOCW 2363, 3311, 3361, SOCW 3350 Research Methods in Social Work.
This course introduces students to techniques for the analysis and interpretation of quantitative and qualitative data for research-informed practice. It reviews computation and use of descriptive and inferential statistics for social work; qualitative techniques such as content analysis and grounded theory; and report writing. Particular emphasis will be given to database management and analysis with statistical (SPSS) and qualitative (Atlas.ti) software and preparation of professional reports for clients and constituencies.

SOCW 3361  Human Behavior in the Social Environment I (3-3-0)
Prerequisite: SOCW 2361 or SOCW 2363.
This course examines theoretical frameworks for understanding human development and behavior within the social environment. It reviews this phenomenon as it manifests for individuals, families, and groups using interdisciplinary perspectives, including biology, psychology, sociology, and public health. This course is open to non-social work majors.

SOCW 3362  Human Behavior in the Social Environment II (3-3-0)
Prerequisite: SOCW 2361 or SOCW 2363.
This course examines theoretical frameworks and models for generalist social work practice with task/problem-solving groups, organizations and communities. It reviews systems theory, the ecological model and the model of planned change as applied to groups, communities and organizations. Special emphasis is given to the mechanisms of oppression, and social, economic, political and cultural contexts and forces shaping macro systems. This course is open to non-social work majors.

SOCW 3363  Urban Issues in a Global Environment (3-3-0)
Prerequisite: SOCW 2361, SOCW 2363 and the Advanced Writing Course required for all Social work major s (ENG 3305, 3308, 3325, 3326, 3329, or 4306), or approval of instructor.
This course examines globalization and its effect on the world’s population. It explores the historical, social, cultural, economic, environmental and global influences affecting social policy and policy practice. This course is open to non-majors.

SOCW 3364  Social Justice and Professional Ethics (3-3-0)
Prerequisite: SOCW 2361 and junior standing
This course examines professional values and ethics as codified by the NASW and the IFSW and the subsequent responsibilities to social justice incumbent upon social workers in every area of practice. This course is open to non-social work majors, prerequisites still apply.

SOCW 4301  Field Practicum I (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, SOCW 3312, SOCW 3313, SOCW 3361, SOCW 3362, SOCW 3364, and approval of social work faculty.
Concurrent Requirement: SOCW 4302 – Issues in Field Practicum I
This course provides 200 hours of professionally supervised field experience. Under the supervision of an approved agency field instructor, students engage in generalist social work practice with individuals, families, groups, organizations and communities of great diversity.

SOCW 4302  Issues in Field Practicum I (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, SOCW 3312, SOCW 3313, SOCW 3361, SOCW 3362, SOCW 3364, and approval of social work faculty.
Concurrent Course Requirement: SOCW 4301 - Field Practicum I.
Students participate in assignments to be carried out in the field setting, projects to enhance skill development, and written assignments to help them integrate and apply classroom learning in the field setting. The Issues in Field Practicum course is designed to assist the student in processing and evaluating field experiences.
SOCW 4303 Field Practicum II (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, SOCW 3312, SOCW 3313, SOCW 3361, SOCW 3362, SOCW 3364, SOCW 4301, SOCW 4302, and approval of social work faculty.
Concurrent Requirement: SOCW 4304 – Issues in Field Practicum II
This course provides 200 hours of professionally supervised field experience. Under the supervision of an approved agency field instructor, students engage in generalist social work practice with individuals, families, groups, organizations and communities of great diversity. In Field Practicum II the student builds upon and moves toward greater mastery of the learning and skills practice that began in Field Practicum I.

SOCW 4304 Issues in Field Practicum II (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, SOCW 3312, SOCW 3313, SOCW 3361, SOCW 3362, SOCW 3364, SOCW 4301, SOCW 4302, and approval of social work faculty.
Concurrent Course Requirement: SOCW 4303 - Field Practicum II.
Students participate in assignments to be carried out in the field setting, projects to enhance skill development, and written assignments to help them integrate and apply classroom learning in the field setting. The Issues in Field Practicum course is designed to assist the student in processing and evaluating field experiences.

SOCW 4331 Urban Community Organizing (3-3-0)
Prerequisite: SOCW 2361, SOCW 2363, SOCW 3311, social work major, may be concurrent with SOCW 3312.
An overview and critical analysis of the profession’s involvement in community organizing and the skills and techniques of effective organizing with various populations. This course has a service learning component.

SOCW 4332 Crisis Intervention (3-3-0)
Prerequisite: Social work major, SOCW 2361, SOCW 2363, SOCW 3311, and completion of or concurrent enrollment in SOCW 3312.
An examination of crisis theory, models of intervention, intervention strategies at multiple levels across populations, and use and purposes of supervision.

SOCW 4390 Special Topics in Social Work (3-3-0)
Prerequisite: Social work major; junior status; In Good Standing, i.e. 2.5 GPA or better, Completion of Common Core requirements; SOCW 2361, SOCW 2363, and SOCW 3311; or approval of course instructor.
Selected topics and/or current issues in social work. Topics may vary from semester to semester, and the course may be repeated when topics vary.

SOCW 4399 Directed Study in Social Work (3-3-0)
Prerequisite: Social work major; junior or senior standing; approval of program director; cumulative GPA of at least 3.0 and social work GPA of at least 3.3.
This course is designed to provide individualized, intensive guidance and interaction with the student working on a project, individual study or research as outlined in the Directed Study Contract. The course focuses on a selected topic(s) under the guidance of a social work faculty member. The student will propose a non-trivial research question or identify a series of learning outcomes relevant to social work theory and/or practice. The course may be repeated for credit when topics vary.

SOS (Social Sciences)

SOS 2304 Research Methods in the Social Sciences (3-3-0)
Prerequisite: Three hours in anthropology, criminal justice, history, political science, psychology or sociology. Laboratory fee: $25.
Introduction to research methods in the social sciences. Basic principles and procedures in research design, data collection, report writing, and theory construction are presented. Emphasis on quantitative methodology and statistical analysis of data with computer software packages used by researchers in the social sciences.

SOS 2308 Human Sexuality (3-3-0)
Prerequisite: Any one of the following: ANTH 2301, ANTH 2302, PSY 1303 or SOC 1303.
Physiological, psychological and sociological factors in human sexuality. The human sexual system, sexual activity, today’s sexual attitudes and behavior, alternate lifestyles and sexual inadequacies. (PSYC 2306 or SOCI 2306)
SOS 3304   Death and Dying (3-3-0)
Prerequisite: Three hours in psychology or sociology beyond ANTH 2301, ANTH 2302, PSY 1303 or SOC 1303 and junior standing.
Various psychological, secular and religious attitudes, beliefs and practices toward death and dying. The stages of death, euthanasia, cultural and religious customs, and the psychological impact of death on the survivors.

SOS 3312   Statistics in the Social Sciences (3-3-0)
Prerequisite: 3 Semester Credit Hours in Anthropology, Criminal Justice, History, Political Science, Psychology, or Sociology and completion of MATH 1301, MATH 1310, or STAT 1312.
An introductory course presenting the computation and use of descriptive and inferential statistics in the social sciences. Students are taught how to calculate statistical measures by hand and by using statistical software packages employed by researchers in the social sciences.

SOS 3313   Disparities in Health in America (3-3-0)
Prerequisite: Junior standing, or permission of instructor.
More than twenty years of research demonstrate that there are wide disparities in health throughout America. Health disparities are differences in the incidence, prevalence, mortality, and burden of diseases and other adverse health conditions that exist when specific population subgroups are compared. It is now known that the distribution of health is not at random, but that health is systematically distributed according to different levels of social advantage. This course will examine the social and societal factors that are fundamental in creating disparities in health. In addition, the course will focus on the formulation of public policy objectives to reduce and ultimately eliminate health disparities.

SOS 3399   Directed Study in the Social Sciences
Prerequisite: Junior standing; approval of department chair and dean; cumulative GPA of 3.0 and GPA of at least 3.3 in the specific area of directed study.
Intensive individual study under the guidance of a member of the faculty on selected topics in the social sciences.

SOS 4301   Special Projects in the Social Sciences
Prerequisite: Senior standing and department approval.
Provides a culminating experience for the Social Sciences or Interdisciplinary Studies major. May include a senior thesis or another special project worked out between the student and the department.

SOS 4302   The Study of the Future (3-3-0)
Prerequisite: Junior standing plus 6 hours in the behavioral sciences beyond ANTH 2301, ANTH 2302, PSY 1303 or SOC 1303.
An introduction to the study of the future: the history of the futurist movement, future trends and issues, the impact of the future on the family, the individual and lifestyles. How future-oriented thinking can assist community organizations in forecasting and planning.

SOS 4380   Field Experience in the Social Sciences
Prerequisites Sixty hours toward degree, 2.0 GPA, and approval of department chair.
Work experience in public or private sector positions of relevance to the social sciences disciplines. Conferences with the instructor and other academic assignments are required. May be repeated for credit.

SOS 4399   Directed Study in the Social Sciences
Prerequisite: Senior standing, approval of department chair and dean; cumulative GPA of at least 3.0 and a GPA of at least 3.3 in the specific area of the directed study.
Intensive individual study under the guidance of a member of the faculty on selected topics in the social sciences.

SOS 4601   Special Projects in the Social Sciences
Prerequisite: Senior standing and department approval.
Provides a culminating experience for the Social Sciences or Interdisciplinary Studies major. May include a senior thesis or a special project worked out between the student and the department.

SOS 4680   Field Experience in Social Sciences
Prerequisite: 60 hours toward degree, 2.5 GPA, and approval of department chair.
Work experience in public or private sector positions of relevance to the social sciences disciplines. Conferences with the instructor and other academic assignments are required.
SOSE (Social Sciences-Education)

SOSE 3306  Culture of the Urban School (3-3-0)
Urban culture as the dominant form of community life in contemporary schools: characteristics, unique properties, and problems.

SOSE 3310  Critical Social Studies Education (3-3-0)
Prerequisite: Completion of common core requirements in history and political science.
Critical examination and exploration of what K-8 students are taught in social studies. Particular attention to the broad subject area of “Social Studies” as defined by the Texas Essential Knowledge and Skills.

SOSE 3320  Assessment and Evaluation of Children (3-3-0)
Prerequisite: PSY 1303.
Principles and procedures for evaluating the cognitive, affective, and social learning of children.

SOSE 3321  Assessment to Promote Student Learning (3-3-2)
Prerequisite: Department approval.
Principles and procedures for designing, implementing and interpreting assessment with particular attention to student motivation, instructional effectiveness and curricular decision making. (Secondary Block II course. Field experience required)

SOSE 3322  Assessment to Promote Student Learning (3-3-2)
Prerequisite: Department approval.
Principles and procedures for designing, implementing and interpreting assessment with particular attention to student motivation, instructional effectiveness and curricular decision making. (Secondary Block II course. Field experience is not required)

SOSE 4303  Current Issues in Urban Teaching (3-3-2)
Prerequisite: Professional Development Sequence 2 (PD2) or departmental approval.
A field-based course in the Teacher Education program. Examines the characteristics of current social movements useful to the sociological study and interpretation of major social trends involving both social and cultural change in urban schools and society as a whole.

SOSE 4304  Current Issues in Urban Teaching (3-3-0)
Prerequisite: Department approval.
Examines the characteristics of current social movements useful to the sociological study and interpretation of major social trends involving both social and cultural change in urban schools and society as a whole.

SOSE 4390  Special Topics in Urban Education (3-3-0)
Prerequisite: Department approval.
This course is for selected topics in Urban Education. May be repeated for credit with department approval.

SOSE 4399  Directed Studies in Urban Education (3-3-0)
Prerequisite: Department approval.
This course provides supervised independent or group studies for students of a subject that they cannot normally pursue. May be repeated for credit with department approval.

SPAN (Spanish)

SPAN 1305  Conversational Spanish (3-3-0)
Not open to any student with extensive background in Spanish.
Emphasis on basic vocabulary, idiom and elementary grammatical structures. Elective credit only. Does not provide freshman foreign language credit. (SPAN 1300)

SPAN 1401  Elementary Spanish I (4-3-1)
Laboratory fee required: $10.
Instruction in understanding, speaking, reading and writing Spanish with emphasis on grammatical structures. Provides freshman
foreign language credit. Should not be taken by native speakers of Spanish or students who have had two or more years of high school Spanish. (SPAN 1411)

SPAN 1402    Elementary Spanish II (4-3-1)
Prerequisite: SPAN 1401 or equivalent. Should not be taken by native speakers of Spanish or students who have had more than two years of high school Spanish. Laboratory fee required: $10.
Continuation of SPAN 1401. (SPAN 1412)

SPAN 2301    Intermediate Spanish I (3-3-0)
Prerequisite: SPAN 1402, 1602 or equivalent. Should not be taken by Latin Americans or Spaniards.
This course is the third part of a sequential course of study (4 semesters) that will increase your ability to communicate (i.e., express, interpret and negotiate meaning) in Spanish. This course includes a variety of readings and videos that illustrate a variety of cultural perspectives in communities in which Spanish is the lingua franca.

SPAN 2302    Intermediate Spanish II (3-3-0)
Prerequisite: SPAN 2301 or equivalent. Should not be taken by Latin Americans or Spaniards.
Develops greater fluency in aural comprehension, speech, reading and writing Spanish; increases knowledge about Hispanic cultures through readings and interviews.

SPAN 2311    Spanish I for Native Speakers (3-3-0)
Prerequisite: Placement by examination.
A course for college students educated in the United States whose first or home language is Spanish. Goals are to acquaint students with Spanish in its written form and to expand the students’ overall knowledge of the language. Focus is on readings and vocabulary development, comprehension of grammatical structures, spelling, and improved spoken and written Spanish. (SPAN 2313)

SPAN 2312    Spanish II for Native Speakers (3-3-0)
Prerequisite: SPAN 2311.
Continuation of SPAN 2311. (SPAN 2315)

SPAN 3301    Spanish Grammar and Composition (3-3-0)
Prerequisite: SPAN 2302, 2312, or placement by examination.
A course in advanced Spanish grammar and composition with a focus on the mastery of syntax and spelling, and the improvement of writing skills through the study of various rhetorical modes and writing for special purposes.

SPAN 3302    Professional Writing (3-3-0)
Prerequisite: SPAN 3301.
Focuses on developing and polishing the writing skills necessary to function in a professional setting. Taught in Spanish.

SPAN 3310    Spanish Conversation through Literature (3-3-0)
Prerequisite: SPAN 2302 or placement through examination.
This course combines the study of literature in Spanish with the study of spoken Spanish. Students will read and discuss in Spanish selections of literature in various genres. They will learn to analyze while improving their spoken Spanish. For this reason, ample time will be devoted to students’ discussion of assigned readings.

SPAN 3320    Professional Oral Communication (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
Study and practice of formal oral usage of Spanish, including written preparation. Development of communication skills and vocabulary building in professional domains. Designed to provide ample opportunity for students to gain confidence and ability in the formal aspects of communication including the academic variety of Spanish. Taught in Spanish.

SPAN 3322    Translation (3-3-0)
Prerequisite: SPAN 3301.
Focus on translation between English and Spanish. Special attention to the use of idiomatic expressions as well as to grammatical features. Taught in Spanish.
SPAN 3323  Interpreting (3-3-0)
Prerequisite: SPAN 3301 Grammar & Composition
This course introduces a theoretical and practical approach to Spanish to English and English to Spanish interpreting. The student will learn key concepts in language structures, register and style, equivalence, and note-taking relevant to produce an accurate, complete, and professional interpreting session. The course will provide a strong foundation and practice in the three modes of interpretation.

SPAN 3324  Neighbors and Trading Partners: People, Culture and Trade in Spanish America (3-3-0)
Prerequisite: SPAN 3301.
Examines the people and culture of select countries with strong economies in Spanish America, with emphasis on understanding their importance as trading partners for the United States. Taught in Spanish.

SPAN 3340  Introduction to Hispanic Literature (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
Introduction to Hispanic literatures through a survey of representative texts from Spain and Spanish America. Basic techniques for literary interpretation through analysis of the major literary genres. Taught in Spanish.

SPAN 3342  Hispanic Literature in the U.S. (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
Analysis of 19th century to present day literature written in Spanish by authors of Spanish American origin in what is today the United States. Taught in Spanish.

SPAN 3360  Spanish Grammar (3-3-0)
Prerequisite: SPAN 2302/2312 or placement by exam.
A course in grammar as a linguistic system, with attention to dialectical differences in language use in the Hispanic world, in order to help students with the grammatical accuracy of their writing, both in their Spanish courses and in their professional capacities. Taught in Spanish.

SPAN 3380  Culture and Civilization of Spain (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
A survey of the cultural history of Spain that traces the development and evolution of Spanish national identity, including selected topics in various fields of cultural production such as architecture, music, politics, literature and the visual arts. Taught in Spanish.

SPAN 3385  Introduction to Hispanic Film (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
Introduction to the study of Hispanic film. By studying films from a number of Hispanic countries, students will broaden their understanding of the cultural and linguistic diversity of the Spanish-speaking world and begin to appreciate the fundamental elements of film art. Taught in Spanish.

SPAN 3399  Directed Study in Spanish (3-3-0)
Prerequisite: Junior standing; formal approval by department chair and dean; cumulative GPA of 3.0 and GPA of 3.3 in the specific area of directed study.
Selected topics in the field; intensive individual study under the guidance of a faculty member.

SPAN 4098  Spanish Portfolio
Prerequisite: Declaring Spanish major and filing for graduation.
This non-credit course certifies that a degree requirement (submission of a portfolio of samples of the student's coursework) has been fulfilled by a student majoring in the BA in Spanish. The student enrolls in SPAN 4098 in the semester of anticipated graduation and submits a portfolio of about five writing projects from a range of upper level courses approved for the Spanish major. As an introduction to these writings, the student writes a 500-word reflective essay that shows the student's growth by explaining the choice of projects and the particular Spanish major skills evident in each. The portfolio is graded S for being submitted or IP for not being submitted. Only a grade of S, certified by the degree coordinator, allows graduation.

SPAN 4310  Spanish Linguistics (3-3-0)
Prerequisite: SPAN 3301 or approval of chair.
An introduction to Spanish linguistics. The course gives an overview of language, current linguistic theory, phonetics, phonology, morphology, syntax, history of the Spanish language, and types of variation. The course is taught primarily in Spanish.

SPAN 4320  Medical Spanish (3-3-0)
Prerequisite: SPAN 3301.
This course uses a theoretical and practical approach to developing competence in medical vocabulary and the stylistic structures utilized in English and Spanish medical texts. The student will acquire, apply, and evaluate translation skills in the medical field, as well as produce and interpret written and oral communication of medical documents in Spanish.

SPAN 4321  Legal Spanish (3-3-0)
Prerequisite: SPAN 3301.
This course uses a theoretical and practical approach to developing competence in vocabulary and the stylistic structures utilized in English and Spanish legal texts. The student will acquire, apply and assess translation skills in the legal field, as well as written and oral communication of legal documents in Spanish.

SPAN 4340  Survey of Spanish Literature from the Middle Ages to 1700 (3-3-0)
Prerequisite: SPAN 3301, 3340 or permission of instructor.
Study of the literature of Spain from the Middle Ages through 1700. Taught in Spanish.

SPAN 4341  Survey of Spanish American Literature from Columbus to Independence (3-3-0)
Prerequisite: SPAN 3301, 3340 or permission of instructor.
Study of Spanish American literature from the colonial period through the 19th century, with an emphasis on the development of Spanish American national literatures through the Baroque, Neo-Classical, and Romantic literary movements. Taught in Spanish.

SPAN 4342  Survey of Spanish American Literature from Modernismo to the Present (3-3-0)
Prerequisite: SPAN 3301, 3340 or permission of instructor.
Study of Spanish American literature from 1900 through the present, with an emphasis on key literary movements such as modernismo, vanguard and post-vanguard poetry, “Boom” narrative, and other contemporary literary forms. Taught in Spanish.

SPAN 4365  Teaching Spanish (3-3-0)
Prerequisite: SPAN 3301 or permission of instructor.
Current methodologies for teaching Spanish as a second language and as a second dialect. The first part of the course focuses on current methodologies for teaching Spanish to non-native speakers, and the second part focuses on teaching heritage speakers. Taught in Spanish.

SPAN 4380  Field Experience in Spanish
Prerequisite: SPAN 3301, 3302, 3320, junior standing and approval of department chair.
Placement of students in private or public sector jobs related to their chosen supplemental concentration. Work may be paid or unpaid. Written reports, conferences with the instructor and other academic work are required.

SPAN 4390  Special Topics in Spanish (3-3-0)
Prerequisite: SPAN 3301.
Special topics in Spanish language and literature, such as contemporary Latin American or Spanish literature, survey of Latin American or Spanish literature. With permission of department chair, may be repeated once for credit.

STAT (Statistics)

STAT 1312  Statistical Literacy (3-3-0)
Prerequisite: A grade of C or better in MATH 0300, TSI MATH score 343, TSI MATH complete, or TSI MATH exempt.
STAT 1312 is designed for students requiring one college-level mathematics course. This course cannot be applied toward any degree in the Department of Mathematics and Statistics or the Department of Computer Science and Engineering Technology.

STAT 2300  Introduction to Statistics (3-3-0)
Prerequisite: A grade of C or better in MATH 1301 or placement by exam taken at UH-Downtown.
Techniques for the collection, analysis and interpretation of numerical data. Probability, confidence intervals, hypothesis testing, estimation and special distributions. Special emphasis is placed on a variety of applications. Computer packages are used. This course may not be applied toward a major in the Mathematics & Statistics department. (MATH 1342)

STAT 3309  Statistical Analysis for Business Applications I (3-3-0)
Prerequisite: A grade of C or better in MATH 1305 and MATH 1306 or MATH 2401.
Basic concepts of statistics for business students are considered including descriptive statistics, probability concepts, random variables, probability distributions, expected values, point and interval estimations techniques and some hypothesis testing and linear regression. Applications to a variety of business problems are stressed and computer statistical packages are used. Credit cannot be given for both MATH 3302 and STAT 3309.

STAT 3310  Statistical Analysis for Business Applications II (3-3-0)
Prerequisite: A grade of C or better in STAT 3309 or MATH 3302, or department approval.
Test of hypotheses, regression and correlation, introduction to analysis of variance, and other special topics. Applications to a variety of business problems and use of computer statistical programs.

STAT 3311 Statistical Analysis for Natural Science (3-3-0)
Prerequisite: A grade of C or better in MATH 1404 or MATH 1505.
Basic concepts of statistics for natural science students are considered including collection of data, descriptive statistics, probability concepts, random variables, probability distributions, expected values, point and interval estimation techniques, hypothesis testing, bivariate data, linear regression, and analysis of variance. Natural science applications are stressed and computer statistical packages are used.

STAT 4294 Senior Seminar (2-2-0)
Crosslisted as CS 4294, MATH 4294. Credit may not be earned for more than one. Prerequisite: COMM 1304, ENG 3302, senior standing and department approval.
An intense, structured seminar. Students are exposed to the world community as it relates to their major (involving a written and oral report on cultural issues as well as discussion of these topics); ethics is discussed as it relates to the subject. In addition, students prepare a written proposal for a senior project. Attendance at departmental colloquia is also required.

STAT 4300  Statistical Quality Control (3-3-0)
Prerequisite: A grade of C or better in MATH 3302 or STAT 3309.
Topics include x-bar and R charts, c charts, u charts, median charts, Pareto analysis, cause and effect analysis, process capability indexes and other statistical techniques.

STAT 4303  Decision Mathematics (3-3-0)
Prerequisite: A grade of C or better in MATH 3302 or STAT 3309.
Applications of the most useful tools of decision mathematics. Topics are selected from probabilistic models, decision models, game theory, queuing theory, Pert/CPM, inventory methods, Bayesian inference and other relevant topics.

STAT 4306  Mathematical Models and Computer Simulation (3-3-0)
Prerequisite: A grade of C or better in MATH 3302 or STAT 3310, and CS 1408 or CS 1410.
Quantitative modeling of industrial systems, computer simulation languages; and discussion of problems encountered in constructing simulation programs. This course may be used to fulfill the writing application course requirement with additional prerequisites including STAT 4294 and department approval.

STAT 4307  Time Series (3-3-0)
Prerequisite: A grade of C or better in MATH 3302 or STAT 3309.
Topics include a study of auto-correlation and part I a l auto-correlation functions, multiplicative decomposition of a time series, construction and evolution of auto-regressive models, exponential smoothing procedures, classical regression analysis and Box-Jenkins methodology. Interpretation and computer analysis, using SAS or another appropriate package are emphasized. This course may be used to fulfill the writing application course requirement with additional prerequisites including STAT 4294 and departmental approval.
### STAT 4309  Design and Analysis of Experiments (3-3-0)
**Prerequisite:** A grade of C or better in MATH 3302 or STAT 3310.
Principles of design and analysis of experiments including randomized blocks, Latin, Greco-Latin and Youden squares, multiple comparisons and orthogonal contrasts. Introduction to factorial designs and split plots and use of computer statistical programs. This course may be used to fulfill the writing application course requirement with additional prerequisites including STAT 4294 and departmental approval.

### STAT 4310  Applied Regression (3-3-0)
**Prerequisite:** A grade of C or better in MATH 3302 or STAT 3309.
Basic theory and structure of regression, with applications in business, simple linear regression, correlation, multiple linear and polynomial regression, R² and adjusted R², significance tests multicollinearity, comparison with ANOVA, dummy variables and coding, stepwise regression, prediction and inference in regression, analysis of covariance, interactions, time series, index numbers and forecasting. Emphasis on use of computer packages and interpretation of printouts. This course may be used to fulfill the writing application course requirement with additional prerequisites including STAT 4294 and departmental approval.

### STAT 4311  Operations Research (3-3-0)
**Prerequisite:** A grade of C or better in MATH 1305 and STAT 3309, or MATH 2407.
Applications of the most useful tools of operations research. Topics are selected from linear programming, the simplex method, the dual, the transportation model, networks, integer and dynamic programming and other topics.

### STAT 4318  SAS Fundamentals and Applications (3-3-0)
**Prerequisite:** A grade of C or better in STAT 3309, STAT 3311, or MATH 3302.
This course introduces the fundamentals of SAS programming. Emphasis is placed on learning basic SAS commands and statements for solving a variety of data processing applications. Upon completion, students should be able to use SAS data and procedure steps to create SAS data sets, do statistical analysis, and create general customized reports. This course provides foundation knowledge for further advanced study of statistical programming.

### STAT 4390  Special Topics in Statistics (3-3-0)
**Prerequisite:** MATH 3302 or STAT 3309, or departmental approval.
Intensive study of one of the major topics in statistics.

### STAT 4395  Senior Project in Statistics
**Crosslisted as CS 4395, MATH 4395. Credit may not be earned for more than one. Prerequisite:** COMM 1304, ENG 3302, grade of B or better in STAT 4294, 3.0 GPA, senior standing and departmental approval.
Intensive study under the guidance of a member of the Mathematics & Statistics faculty culminating in an individually researched and formally written report and oral presentation dealing with the applications of the statistical sciences in the student’s area of specialization and related to one type of business or industry in the Houston area.

### STAT 4397  Statistical Computing (3-3-0)
**Prerequisite:** B or higher in STAT 3309, or MATH 3302, or departmental approval.
This course will focus on core computational techniques which are useful for statistical research and advanced applications. We will be interested in developing skills and knowledge useful in the development of modern statistical procedures. Topics include a brief overview of traditional numerical analysis techniques; a discussion of optimization and root finding methods useful for estimation and a discussion of Numerical and Monte Carlo integration which is useful for statistical influence. We will also use the UHD cluster for high performance computing.

### (SPED) Special Education

### SPED 3301  Introduction to Special Population (3-3-0)
**Prerequisite:** none.
This course provides an introduction to the nature of children with special needs, as these challenges affect all aspects of functioning in the schools. Emphasis will be placed on current trends and issues, provisions of demographic information, nature of each special need, its impact on learning and social relationships, multicultural components of exceptionalities, instructional and curriculum modifications, legal mechanisms, and ethical matters in working with individuals with special needs.
SPED 3302  The Exceptional Child (3-3-0)
Prerequisite: SPED 3301.
Based on the information acquired on SPED 3301, this course continues with the in-depth examination of exceptionalities among children, with emphasis on prevalence, assessment, characteristics, classroom management, implementation of Individualized Educational Plans (IEP), and other educational considerations. Additional topics include legal factors in special education, bilingualism, parents and families, and current trends and issues.

SPED 4301  Methods in the Exceptional Classroom-Contained (3-3-0)
Prerequisite: Admission to the PD Sequence.
Development of knowledge and skills fundamental to effective teaching of individuals with exceptionalities in the contained classroom. Emphasis on individualization, content modification, instructional techniques, and classroom management.

SPED 4302  Classroom Management and the Exceptional Children (3-3-0)
Prerequisite: SPED 3301/3302/declared major.
This course focuses on identifying, recording, evaluating, and changing social and academic behaviors of exceptional and diverse populations. Theories of classroom management will be explored and various approaches to management including use of technological advances will be addressed. Developing classroom and individual behavior management plans will be emphasized. Prerequisites: SPED 3301 and 3302.

SPED 4303  Diagnostic Procedures for Students with Special Needs (3-3-0)
Prerequisite: SPED 3301/3302/declared major.
The learning experiences in this course will contribute to the knowledge and skills of professional educators in developing and assessing programs for students who exhibit learning and behavior difficulties. Students will learn the diagnostic-prescriptive approach to individualized instruction, including the comprehensive understanding of methods for assessing learning styles and to identify where the breakdowns can occur in the learning process.

(UHD) Freshman and University Seminars

UHD 1301  Freshman Seminar–Communication (3-3-0)
Within the context of a particular topic, students learn to develop ideas and express them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. These special topics courses help students acquire the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. Strategies for academic success are practiced within the context of the special topic.

UHD 1302  Freshman Seminar–Mathematics (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to key mathematical concepts and the application of appropriate quantitative tools to everyday experience. These courses focus on quantitative literacy in logic, patterns, and relationships. Strategies for academic success are practiced within the context of the special topic.

UHD 1303  Freshman Seminar–Life and Physical Sciences (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to interactions among natural phenomena and the implications of scientific principles for the physical world and human experiences. These courses focus on describing, explaining, and predicting natural phenomena using the scientific method. Strategies for academic success are practiced within the context of the special topic.

UHD 1304  Freshman Seminar –Language, Philosophy and Culture (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to how ideas, values, beliefs, and other aspects of culture express and affect human experience. These courses focus on the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. Strategies for academic success are practiced within the context of the special topic.

UHD 1305  Freshman Seminar–Creative Arts (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to the synthesis and interpretation of artistic
expression and enable critical, creative, and innovative communication about works of art. These courses focus on the appreciation and analysis of creative artifacts and works of the human imagination. Strategies for academic success are practiced within the context of the special topic.

UHD 1306 Freshman Seminar–American History (3-3-0)
Within the context of a particular topic, these special topics courses explore the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. These courses focus on the consideration of past events and ideas relative to the United States, with the option of including Texas history. Strategies for academic success are practiced within the context of the special topic.

UHD 1307 Freshman Seminar–Government/Political Science (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations. These courses focus on the constitution of the United States and the constitutions of the states with special emphasis on that of Texas. Strategies for academic success are practiced within the context of the special topic.

UHD 1308 Freshman Seminar–Social and Behavioral Sciences (3-3-0)
Within the context of a particular topic, these special topics courses introduce students to the application of empirical and scientific methods that contribute to the understanding of what makes us human. These courses focus on the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture. Strategies for academic success are practiced within the context of the special topic.

UHD 2301 University Seminar–Communication (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses instruct students in the use of higher-level critical thinking to develop ideas and express them clearly, considering the effect of the message, fostering understanding, and building the skills needed to communicate persuasively. These courses focus on helping students acquire the command of oral, aural, written, and visual literacy skills that enable people to exchange messages appropriate to the subject, occasion, and audience. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2302 University Seminar–Mathematics (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking about key mathematical concepts and the application of appropriate quantitative tools to everyday experience. These courses focus on quantitative literacy in logic, patterns, and relationships. Written and oral communication within the context of the topic's related discipline is emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2303 University Seminar–Life and Physical Sciences (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking about interactions among natural phenomena and the implications of scientific principles for the physical world and human experiences. These courses focus on describing, explaining, and predicting natural phenomena using the scientific method. Written and oral communication within the context of the topic’s related discipline are emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2304 University Seminar–Language, Philosophy and Culture (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking through the exploration of how ideas, values, beliefs, and other aspects of culture express and affect human experience. These courses focus on the exploration of ideas that foster aesthetic and intellectual creation in order to understand the human condition across cultures. Written and oral communication in the context of the topic’s related discipline are emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.
UHD 2305  University Seminar –Creative Arts (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking through instruction in the synthesis and interpretation of artistic expression and enable critical, creative, and innovative communication about works of art. These courses focus on the appreciation and analysis of creative artifacts and works of the human imagination. Written and oral communication within the context of the topic’s related discipline are emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2306  University Seminar–American History (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking through a study of the interaction among individuals, communities, states, the nation, and the world, considering how these interactions have contributed to the development of the United States and its global role. These courses focus on the consideration of past events and ideas relative to the United States, with the option of including Texas history. Written and oral communication within the context of the topic’s related discipline are emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2307  University Seminar–Government/Political Science (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking through the analysis of governmental institutions, political behavior, civic engagement, and their political and philosophical foundations. These courses focus on the constitution of the United States and the constitutions of the states with special emphasis on that of Texas. Written and oral communication within the context of the topic’s related discipline is emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.

UHD 2308  University Seminar–Social and Behavioral Sciences (3-3-0)
Prerequisites: ENG 1301 or 010 core complete; sophomore standing or departmental approval.
Within the context of a particular topic, these special topics courses introduce students to higher-level critical thinking through instruction in the application of empirical and scientific methods that contribute to the understanding of what makes us human. These courses focus on the exploration of behavior and interactions among individuals, groups, institutions, and events, examining their impact on the individual, society, and culture. Written and oral communication within the context of the topic’s related discipline are emphasized. These courses also provide opportunities for transfer students to link to their intended majors early in their academic careers at UHD. Strategies for academic success are practiced within the context of the special topic and discipline.
Administration

Office of the President
Interim President
Michael Olivas
Executive Assistant to the President
Vanessa Pigeon

Office of Academic & Student Affairs
Interim Provost & Senior Vice President for Academic and Student Affairs
Edward T. Hugetz
Associate Vice President, Academic Affairs
Faiza Khoja
  Director, Academic Assessment
  Lea Campbell
  Director, Co-Curricular & Operations Assessment
  Angela Koponen
  Director, Institutional Research
  Carol M. Tucker
  Interim Director, Center for Community Engagement and Service Learning
  Poonam Salhotra

Associate Vice President, Student Affairs
Tomikia LeGrande
  Assistant Vice President, Student Services/Dean of Students
  Patrick Jefferson
    Assistant Dean of Students and Title IX Coordinator
    Tommy Thomason
    Director, Career Development Center
    Laura Weseley
    Director, Center for Student Diversity, Equity & Inclusion
    John Hudson
    Director, Disability Services
    Meritza Tamez
    Director, Sports and Fitness
    Richard Sebastiani
    Director, Veterans Services
    Richard Selvera
    Director, Student Activities
    Tremaine Kwasikpui
  Assistant Vice President, Enrollment Management and Registrar
  Vacant
  Assistant Dean, Enrollment Management
  Chris Cheatham
    Director, Testing Services
    Robert Alonzo
    Director, Minority Male Recruitment
    Jerry Wallace
  Interim Director, Admissions
  Ceshia Love
  Director, Scholarships and Financial Aid
  LaTasha Goudeau
  Director, Events and Conference Services
  Allison White
  Assistant Vice President for Research & Sponsored Programs
  Jerry Johnson
    Director, Grant Writing & Assessment
    Kwame Opuni
  Executive Director, Off-Campus Locations and Online Coordination
  Louis D. Evans III
  Executive Director, W.I. Dykes Library
  Patricia Ensor
  Executive Director, Academic Administration & Operations
  Elaine Pearson
  Director, Strategic Initiatives and Projects
  Lucy Bowen
Director, Applied Business and Technology Center
G. V. Krishnan
Director, Creative Services
Joe Wynne
Director, English Language Institute
Gail Kellersberger
Dean, College of Business
Michael Fields
  Associate Dean, Graduate Studies
  William Barksdale
  Associate Dean, Undergraduate Studies
  Justo Manrique
  Assistant Dean
  Carmen Cuevas
  Chair, Finance, Accounting
  & Enterprise Information Systems
  Chu Nguyen
  Chair, Management, Marketing, & Business Administration
  Lucille Pointer
  Director, Assurance Learning and Assessment
  Isiah Brown
  Director, Center for Entrepreneurship
  William Dudley
  Director, Retail Management Center
  Tracy Davis
  Director, Career Development Center
  Brett Hobby
  Director, COB Continuing Education
  Clara Rojas
  Director, Insurance and Risk Management Center
  Vacant
  Director, MSME
  Thomas Winn
  Director, COB Administration and Operations
  Jason Gregory
Dean, College of Humanities & Social Sciences
DoVeanna Fulton
  Associate Dean
  David Ryden
  Assistant Dean
  Crystal Guillory
  Chair, Arts & Humanities Department
  Edmund P. Cueva
  Chair, English Department
  Michelle Moosally
  Chair, Social Sciences Department
  Jeffrey Jackson
  Director, Advising Services
  Reyna Romero
  Director, O’Kane Gallery
  Mark Cervenka
Interim Dean, College of Public Service
Leigh Van Horn
  Associate Dean
  Myrna Cohen
  Chair, Criminal Justice Department
  Barbara Belbot
  Chair, Urban Education Department
  Ronald Beebe
  Director, Center for Public Service & Family Strengths
  Vacant
  Director, Criminal Justice Center
  Vacant
Dean, College of Sciences & Technology
Akif Uzman
  Associate Dean
  Ermelinda Delavina
  Assistant Dean
  RaShonda Flint
Chair, Mathematics & Statistics Department
Ryan Pepper
Chair, Computer Science & Engineering Technology Department
Kenneth E. Oberhoff
Chair, Natural Sciences Department
Philip C. Lyons
Executive Director, Scholars Academy
Mary Jo Parker

Dean, University College
B. Christiana Birchak

Associate Dean
William Waller
  Director, First Time in College Retention Services
    Jemma Caesar
  Director, Academic Support Center
    Isidro Grau
  Director, Teaching & Learning Excellence
    Gregory Dement

Assistant Dean
Charlie Finch

Executive Director
Wendy Wilson

Program Chair and Senior Lecturer, Applied Administration
Karen Kaser
Program Chair and Senior Lecturer, History
Melissa Hovsepian

Director, Honors Program
Mari Nicholson-Preuss

Interim Director, Talent Search
Marta Alvarenga

Director, Upward Bound
Dawana Lewis

Program Director, Title V Student Success Grant
Vacant

Office of Administration and Finance
Vice President for Administration & Finance
David M. Bradley

Associate Vice President, Information Technology
Hossein Shahrkoohi

Executive Director, Information Technology
Vacant
Director, Computing, Telecommunications & Video Networking
Miguel Ruiz
Director, Enterprise Systems
Kong Yin

Director, Information Technology & Business Services
Jackie Smith
Director, Technical Services
Grace Davila
Director, Technology Learning Services
John Lane

Director, User Support Services
Said Fattouh

Director, Information Technology Security and Compliance
Jon Garza

Assistant Vice President, Business Affairs
George W. Anderson

Director, Student Accounting & Collections
Lauren Bellenger
Director, Accounts Payable & Travel Office
Cynthia Conner
Director, Accounting & Financial Reporting
Delethia Murray

Assistant Vice President, Facilities Management
Chris McCall

Director, Maintenance & Renovations
Abraham Flores
Director, Mechanical, Electrical, Plumbing Systems
Kris Zimmerman

Director, Budget & Procurement
Theresa Meneley

Director, Emergency Management
Carol Manousos

Director, Risk Management & Institutional Compliance
Mary Cook

Director, University Business Services
Mary Torres

Division Business Administrator
Stefany Records

Interim Chief, Police Department
David Deleon

Office of Employment Services and Operations
Vice President for Employment Services & Operations
Ivonne Montalbano

Director, Benefits & Compensation
Erica Morales

Director, Payroll and Records
April Frank

Director, Talent Management Strategies
Vacant

Office of Advancement and University Relations
Vice President for Advancement & University Relations
Johanna Wolfe

Executive Director, University Relations
Elisa Crossland

Director, Media Relations
Vacant

Director, Communications
Phillip Emery

Director, Marketing
Toye Simmons

Director, Corporate Relations
Jacob Lipp

Director, Development
Jaha Williams

Director, Advancement Services and Business Operations
Brian Drake

Director, Alumni Relations
Liza Alonzo


Ahmad, Janice (2006) Associate Professor of Criminal Justice. BS, Northern Michigan University, 1978; MS, Michigan State University, 1993; PhD, Sam Houston State University, 2001.

Allaire, Franklin (2016) Assistant Professor of Education, BS, Delaware Valley College, 2000; MEd, 2007; PhD, 2014.

Alford, Beverly (2016) Assistant Professor of Education, BS, Texas A&M University, 1995; MEd, University of Houston 2007; Texas A&M University, PhD, 2011.


Angert, Cory J. (2012) Visiting Assistant Professor of Management. BBA, University of Houston, 2006; MEd, 2007; PhD, 2012.

Aoki, Jon (2004) Associate Professor of Science Education and Biology. BA, California State University, Fresno, 1987; MA, 1995; EdD, University of Houston, 2003.

Archiopoli, Ashley (2014) Assistant Professor of Communication Studies. BA, Wichita State University, 2007; MA, Wichita State University, 2010; PhD, The University of New Mexico, 2014.


Auchter, David J. (2015) Lecturer in English. BA, Denison University, 1980; MA, University of Houston, 1987; Ph.D., University of Houston, 2000

Avrithi, Kleio (2015) Assistant Professor of Structural Analysis and Design. BS, National Technical University of Athens, Greece; MS, National Technical University of Athens, Greece, 2002; MS, University of Illinois at Urbana Champaign, 2014; PhD, University of Maryland, College Park, 2007.

Babb, Stephanie (2007) Associate Professor of Psychology. BS, Oklahoma State University, 2001; MS, University of Georgia, 2003; PhD, 2006.


Baird, Amy (2011) Assistant Professor of Biology. BS, Texas Tech; PhD, University of Texas, 2007.


Barbieri, Nina (2016) Assistant Professor of Criminal Justice. BA, University of Massachusetts; MS, University of Dallas; PhD, University of Dallas, 2017.
Barksdale, W. Kevin (2015) Professor of Management. BBA, Georgia State University, 1989; Ph.D., Business Administration.

Barnes, Ronald F. (1977) Professor of Mathematical Sciences. BS, St. Bonaventure University, 1964; MS, Syracuse University, 1966; PhD, 1972. [EMERITUS]


Becerra, Linda (1986) Professor of Mathematical Sciences. BA, University of Texas at Austin, 1972; MS, University of Houston, 1977; PhD, 1982.

Beckles, Franklin (2015) Lecturer of Chemistry. Licentiate BS and MS, Simon Bolivar University, Caracas, Venezuela, 1999; PhD, Baylor University, 2005.

Beebe, Ronald S. (2008) Associate Professor of Education. BA, Duke University, 1980; MDiv, Princeton Theological Seminary, 1983; PhD, University of Buffalo, the State University of New York, 2004.

Belbot, Barbara (1996) Professor of Criminal Justice. BA, Xavier University, 1974; JD, University of Houston, 1980; MPH, University of Texas Health Science Center, 1985; PhD, Sam Houston State University, 1995.

Benavides, Maria (2005) Associate Professor of Chemistry and Physics. BS, Instituto Tecnologico de Monterrey, 1987; PhD, Arizona State University, 1993.

Bhattacharjee, Maria P. (1996) Associate Professor of Education. BA, Pedagogic Institute of Caracas, Venezuela, 1974; MEd, University of Houston, 1977; EdD, 1995.

Bielakowski, Alexander (2016) Assistant Professor of History. BA, Loyola University Chicago, 1993; MA Loyola University Chicago 1995, Kansas State University, 2002.

Birchak, Beatrice Christiana (1987) Professor of English. BS, University of Houston, 1963; MA, Wayne State University, 1968; PhD, University of Houston, 1984.

Bjork, Olin (2013) Assistant Professor of English. BA, University of California Los Angeles, 1993; MA, University of Texas at Austin, 2000; PhD, 2008.

Blackburn, Ashley G. (2011) Associate Professor of Criminal Justice. BA, 2000; MA, 2002; PhD, 2006, Sam Houston State University.

Bowden, Maria (2011) Assistant Professor of Microbiology. BS Universidad Nacional del Plata, Argentina, 1986. PhD, University of Texas Health Science Center at Houston, 1999.


Brace, Carol (2014) Lecturer of Business Administration. BS, University of Akron, 1982; MS, University of Houston, 1989.

Branham, David (2005) Associate Professor of Political Science. BS, University of Houston, 1995; MA, 2000; PhD, 2000.


Brown, Houston (2012) Lecturer of Chemistry. BS, University of California, 1974; Ph.D., Michigan State University, 1979.


Capuzzo, Kristen (2013) Lecturer in Psychology. BS, Texas A&M University, 1988; MA, University of Houston, 2009; PhD, 2012.

Cao, Qing (2015) Associate Professor of Management. BS, Shanghai Jiao Tong University, 1987; MBA, University of Wisconsin – La Crosse, 1994; PhD, University of Nebraska-Lincoln, 2001.

Caro, Jason (2005) Associate Professor of Political Science. BA, University of Texas at San Antonio, 1989; MA, University of California at Los Angeles, 1991; MA, University of Chicago, 1992; PhD, University of California at Los Angeles, 2001.


Case, Theresa Ann (2002) Associate Professor of History. BA, University of Texas at Austin, 1989; MA, 1994; PhD, 2002.


Cavanaugh, Michael (2012) Assistant Professor of Criminal Justice. BA, University of Louisiana at Lafayette, 2003; MA Sam Houston State University 2008: PhD Sam Houston State University 2012.


Cervenka, Mark (2000) Director of the O’Kane Gallery and Associate Professor of Art. BA, University of Texas at Austin, 1983; BFA, 1985; MFA, Claremont Graduate University, 1987.

Chadha, Anita (2001) Associate Professor of Political Science. BA, Samford University, 1990; MPA, Auburn University, 1993; Ph.D., 1997.

Chan, Youn-Sha (2004) Associate Professor of Mathematical Sciences. BS, Taipei Medical College, 1984; MS, Tsinghua University, 1986; MS, University of California at Los Angeles, 1991; MA, 1995; PhD, University of California at Davis, 2001.


Chang, Yuchou (2015) Assistant Professor of Computer Science. BS, Northwestern Polytechnical University, China, 2003; MS, Shanghai Jiao Tong University, China, 2006; PhD University of Wisconsin-Milwaukee, 2012.


Chiotte, Jennifer (2009) Assistant Professor of Criminal Justice. BA, Saint Edward’s University, 2000; MA, Washington State University, 2002.

Chiquillo, Raquel P. (2002) Associate Professor of Spanish. BA, George Mason University, 1995; MA, University of Virginia, 1997; PhD, 2001.
Christian, Garna L. (1962) Professor of History. BA, Mexico City College, 1959; MA, Texas Western College, 1961; PhD, Texas Tech University, 1977. [EMERITUS]

Christmas, Byron K. (1991) Professor of Chemistry. BS, Murray State University, 1970; MS, University of Kentucky, 1976; PhD, 1978 [EMERITUS]

Choudhuri, Sucheta (2009). Associate Professor of English. BA, University of Calcutta, 1995; MA, Jadadpur University, 1997; Ph.D. University of Iowa, 2009.


Coleman, Stephanie (2014) Assistant Professor of Psychology. BA, University of Texas at Austin, 2006; MA, University of Missouri, 2009; PhD, 2012.

Colon, Edgardo (2008) Visiting Assistant Professor of Political Science. BA, University of Houston, 1980; MBA, University of Houston, 1984; JD, University of Houston, 1984; LLM, Boston University School of Law, 1986; MA, University of Houston, 2000; PhD, University of Houston, 2003.


Coy, Steven P. (2002) Professor of Management. BS, University of Vermont, 1993; MSBA, University of Maryland, 1995; PhD, 1998.

Creighton, Jane (1997) Professor of English. BA, Johnston College, University of Redlands, 1973; MA, University of Houston, 1991; PhD, Rice University, 1996.

Crone, Travis (2010) Associate Professor of Psychology. BA, University of Arkansas, 2004; MA, University of Arkansas, 2007; PhD, 2010.


Cunningham, Merrilee A. (1975) Associate Professor of English. BA, Northwestern University, 1966; MA, Marshall University, 1970; PhD, Vanderbilt University, 1978.


Dalton, Colin (2011) Assistant Professor of Education. BA, University of Oregon, 1993; MEd, University of Houston, 1998; EdD, 2011.

Davidson, Robin (2005) Professor of English. BA, University of Texas at Austin, 1977; MA, University of Houston, 1990; PhD, 2001.


Davis, G. Jonathan (2010) Associate Professor of Supply Chain Management. BA, University of Texas at Austin, 1999; MBA, St. Edwards University; Ph.D, Purdue University, 2010.


DeLaViña, Ermelinda (1997) Professor of Mathematical Sciences. BS University of Texas-Pan American, 1989; MS, University of Houston, 1993; PhD, 1997.

Deo, Prakash (2005) Associate Professor of Finance. BSC (Tech) Bombay University, 1973; BSBA, Utah State University, 1975;


Eliaussen, Arthur Henry (2007) Associate Professor of Sociology. BA, Florida State University, 1967; MDiv, Lutheran Theological Southern Seminary, 1971; MS, Florida State University, 2002; PhD, 2006.


Elking, Isaac (2016) Visiting Assistant Professor of Supply Chain Management. B.S., Ohio State University, 2008.


Epstein, David (2010) Associate Professor of Management. BA, University of Houston, 2000. MA, University of Houston, 2004; PhD, University of Houston, 2010.

Evans, Gail S. M. (1980) Professor of Business Law. BA, Northwestern University, 1969; JD, University of Texas at Austin, 1972.

Fairbanks, James David (1976) Professor of Political Science. BA, Greenville College, 1968; MA, The Ohio State University, 1969; PhD, 1975. [EMERITUS]

Farris, Sara (1992) Associate Professor of English. BA, Eastern Illinois University, 1983; MA, 1985; PhD, Miami University, 1992.

Fedell, Lucas (2013) Lecturer in Drama. BA, University of Houston Downtown, 2007; MFA, Texas Tech University, 2011.

Feliciano, Olga M. (2013) Lecturer in English. BA, Queens College/City University of New York, 2002; MFA, University of Houston, 2007.

Feng, Weining (1999) Associate Professor of Process Control. BEng, Beijing University of Aeronautics and Astronautics, China, 1984; PhD, University of Strathclyde, UK, 1990.

Fields, David C. (2013) Professor of Marketing. BSBA, University of Arkansas, 1972; MBA, 1982; PhD, 1986.

Flosi, Jeffrey W. (1987) Associate Professor of Biology. BS, University of Texas at El Paso, 1973; MS, 1975; PhD, Iowa State

Fowler, Shannon K. (2011) Assistant Professor of Criminal Justice. BS, Kentucky Wesleyan College, 2011; MS, Eastern Kentucky University, 2003; PhD, Sam Houston State University, 2007.

Fugate, Charles (2016) Assistant Professor of Education. BS, University of Houston, XXXX, MA, University of Connecticut, XXXX, Purdue University,

Fulton, DoVeanna S. (2012) Professor of Humanities. BA, Wayne State University, 1994; PhD, University of Minnesota, 1999.


Garcia, Viola (1999) Professor of Education. BS, Texas Woman’s University, 1971; MEd, University of Houston, 1974; EdD, 2000. [EMERITUS]

Garza, Linda (2013) Lecturer in English. BA, University of Houston, 1994; MA, University of Houston, 1997.


George, Jessie (2015) Visiting Assistant Professor of Accounting. BBA, M.S. Texas A&M University (2002); Ph.D., Northcentral University (2014), CPA; CISA.

Getz, J. Greg (1997) Professor of Sociology. BA, University of California, Santa Barbara, 1968; PhD, University of Southern California, 1977.

Gilbert, William (1976) Associate Professor of English. BA, Washington and Lee University, 1966; MA, Duke University, 1967; PhD, 1974. [EMERITUS]

Gillette, Aaron (2006) Associate Professor of History. BA, Western Carolina University, 1985; MA, Binghamton University/State University of New York, 1988; PhD, 1993.

Gilmore, Elizabeth (2016) Lecturer, Criminal Justice. BS, University of Houston Downtown; MS, University of Houston Downtown, 2014.


Goltz, Heather (2011) Assistant Professor of Social Work. BS, Northwestern State University, 1997; MSW, University of Houston, 2005; PhD, Texas A&M University, 2008; MEd, University of Houston, 2012.


Gulati, Poonam (1997) Associate Professor of Biology and Microbiology. BS, Cornell University, 1982; PhD, 1988.

Gupta, Omprakash K. (2008) Professor of Management. B.Sc., Gujarat University, 1971; M.Sc. Gujarat University, 1973; MS, Purdue University, 1975; PhD, Purdue University, 1980.

Hagen, L. Kirk (1990) Professor of Humanities. BA, University of New Mexico, 1980; MA, 1983; PhD, University of Illinois, 1989.

Hale, Trevor S. (2006) Associate Professor of Management. BS, Pennsylvania State University, 1988; MS, Northeastern University, 1990; PhD, Texas A&M University, 1997.


Harris, Cyril (2014) Lecturer of Computer Science. BS, University of Houston-Downtown, 2004; MS, University of Texas-Pan
Harris, Judith (2008) Assistant Professor of Criminal Justice. BA University of Houston Downtown, 1999; MS, University of Houston Downtown, 2005.

Harris, Felicia (2015) Assistant Professor of Communication Studies. BA, Columbus State University, 2010; MA, The University of Georgia, 2012; PhD, The University of Georgia, 2015.


Henney, Susan (2005) Professor of Psychology. BA, University of Texas at Austin, 1990; MA, Southern Methodist University, 1994; PhD, University of Texas at Austin, 2000.

Hessel, Tyra L. (1994) Associate Professor of Chemistry. BS, Southwest Texas State University, 1982; MS, 1984; PhD, University of Houston, 1991.

Hewitt, Amelia (2008) Associate Professor of Education. BA McNeese State University, 1998; Med University of Louisiana, 1991; EdD. University of Houston, 2001

Hill, Jillian (2010). Assistant Professor of English. BA, University of Massachusetts-Dartmouth, 2004; MA, Kent State University, 2006; PhD, 2011.


Hoge, Brad (2004) Assistant Professor of Science Education and Geology. BS, Centenary College, 1985; MEd, Texas A&M University, 1989; MA, Rice University, 1994; PhD, 1994.


Hordes, Mark (2016) Lecturer of Management. B.S. University of Houston, 1968; M.S.W., Aurora University, 1975; M.S., 1975.

Hovsepian, Melissa (2005) Program Chair and Lecturer in History. BA, University of Houston, 1988; MA, 1992; PhD, 1996.

Howard, Catherine E. (2009) Lecturer in English. BA, Baylor University, 1986; MA, Rice University, 1990; PhD, Rice University, 1994.


Hudspeth, Rachael (2015) Lecturer of Biology. BS, Stephen F. Austin State University, 2006; MS, Stephen F. Austin State University, 2008.

Hughes, Christina (2016) Assistant Professor of Political Science. BA, University of Houston 1996; PhD, University of Houston 2008.

Hrynkiv, Volodymyr (2008) Associate Professor of Mathematical Sciences. MS, Tennessee Technological University, 2000; PhD University of Tennessee, 2006.


Jackson, Jeffrey (2005) Associate Professor of Philosophy. BA, Ohio University, 1990; MA, 1995; PhD, Vanderbilt University, 2005.


Jafari, Tahereh (2011) Lecturer of Enterprise Information Systems. BS, University of Houston, 1979; MS, University of Houston, 1985.


Jarrett, Robert L. (1990) Professor of English. BA, Abilene Christian University, 1980; MA, University of California at Riverside, 1982; PhD, 1988. [EMERITUS]

Jegdic, Katarina (2006) Associate Professor of Mathematical Sciences. BS, University of Novi Sad, 1997; MS, University of Illinois at Urbana-Champaign, 2000; PhD, 2004.


Jiang, Mian (2005) Associate Professor of Chemistry. BS, Wuhan University, 1984; MS, 1987; PhD, 1991.


Johnson, Jerry (2005) Associate Professor of Biology and Biochemistry. BS, University of Houston, 1999; PhD, 2003.

Johnson, Kenneth (2002) Visiting Assistant Professor. BS, Ohio State University, 1987; MS, Texas Tech University, 1991; PhD, 1995.

Johnson, Madeline (1983) Professor of Marketing. BA, University of Texas at Austin, 1973; JD, 1976; PhD, University of Houston, 1993.

Johnson, Ruth (2007) Associate Professor of Psychology. BS, Texas A&M University, 2001; MA, Rice University, 2004; PhD, 2008.

Jones, Kevin (2012) Assistant Professor of Finance. BS, Texas A&M University, 2003; MBA, University of North Texas, 2006; PhD, University of North Texas, 2011.

Jose, Robin (2011) Associate Professor of Chemistry. BS, St. Dominick’s College, 1996; PhD, University of Wyoming, 2006.

Kaftan, Joanna (2005) Associate Professor of Sociology. BA, State University of New York, 1991; MA, Arizona State University, 1997; PhD, University of Notre Dame, 2002.

Kane, Anne (2005) Associate Professor of Sociology. BA, University of California at Santa Cruz, 1978; MA, University of California at Los Angeles, 1985; PhD, 1994.

Kang, YuanYuan (Connie) (2011) Assistant Professor of Biology. BS, Nankai University, China, 1998; Ph.D., University of Houston, 2004; Post-Doc, Baylor College of Medicine, 2007.

Karson, Lawrence (2004) Assistant Professor of Criminal Justice. BA, University of the State of New York, 1983; MS, National-Louis University, 1996; University of Wales 2012.


Kelly, John R. (2010) Associate Professor of Education. BC, Rice University, 1974; MEd, Prairie View A&M University, 2005; PhD, The University of Texas at Austin, 2010.

Kessler, Robin (2014) Lecturer, BA, Northwestern University, 1977; MBA, Northwestern University, 1980.


Kintzele, Paul (2005) Associate Professor of English. BA, Florida State University, 1991; MA, Tulane University, 1995; PhD, University of Pennsylvania, 2002.

Klein, Timothy (2016) Associate Professor of Drama and Director of O’Kane Theater. BA, St. Bonaventure University, 1994; MFA, University of North Carolina, 1998.


Kohlhausen, Donna. Lecturer, Business Law. BS, University of Texas, 1974; JD, University of Houston, 1977; MBA, University of Houston, 2008.

Koskkin, Sergiy (2009) Associate Professor of Mathematical Sciences. MS, National Technical University of Ukraine, 1996; PhD, Kansas State University, 2006.


Lawrence, Windy Y. (2002) Associate Professor of Communication Studies. BS, University of Florida, 1995; MA, Texas A&M University, 1997; PhD, University of Georgia, 2002.


Latheef, Zahir (2015) Assistant Professor of Management. BBA, Texas A&M University, 2007; MS, Texas A&M University, 2007; PhD, University of Houston, 2015.

Li, Peter (Jianquiang) (2002) Associate Professor of Political Science. BA, Kiangsi University (China), 1983; BA, Institute of Foreign Affairs (China), 1987; MA, Syracuse University, 1988; PhD, Northern Arizona University, 2000.

Lin, Hong (2001) Professor of Computer Science. BEng, University of Science and Technology of China, 1987; MEng, 1990; PhD, 1997.


Liu, Wenhui (2016) Assistant Professor of Communication Studies. BA, Peking University, 2008; MA, University of Washington, 2010; PhD, University of Southern California, 2016

Liu, Zishang (2012) Assistant Professor of Accounting. BA, Peking University, 1993; MBA, Rice University, 2001; PhD, University of Houston, 2007.

Lloyd, Cynthia (2016) Assistant Professor of Accounting. BBA, University of Miami, Coral Gables, 1973; MBA, University of Tennessee at Nashville, 1976; J.D., University of Houston, 1984; Ph.D., Morgan State University, 2010; CPA.
Logan, Paul (2013) Assistant Professor of Communication Studies. BA, University of Louisiana, 2005; AS, Louisiana State University, 2007; MS, University of Louisiana, 2009; PhD, Texas A&M University, 2013.


Lopez, Nancy (2012) Lecturer in History. BA, Southwest Texas State University, 1988; MA, Rice University, 1999; PhD, 2002.

Lourence, Benjamin C. (2013) Lecturer in English. BA, Southwest Texas University, 2002; MA, Rice University; 2010.


Lyons, Philip (1995) Associate Professor of Biology. BS, Stephen F. Austin State University, 1978; MS, Texas A&M University, 1981; PhD, University of Georgia, 1985.

Lyttle, Thomas J. (1976) Professor of Drama and Director of Theater. BA, University of Akron, 1963; MA, 1968; PhD, Bowling Green State University, 1974.

Maldonado, David (2016) Visiting Assistant Professor of Business Law. A.B., Princeton University, 1980; J.D., University of Texas at Austin, 1985.

Maldonado, Tiffany (2016) Visiting Assistant Professor of Management. B.A., Rice University, 2006; Ph.D. University of Houston, 2015.

Mandell, Paul B. (2010) Associate Professor of Spanish. BA, Emory University, 1981; MA, Emory University, 1988; PhD, University of Illinois, Urbana-Champaign, 1996.


Martz, Jeffrey (2015) Assistant Professor of Geology. BS, Colorado State University, 1999; MS, Texas Tech University, 2002; PhD, Texas Tech University, 2008.

Matveeva, Natalia A. (2007) Associate Professor of English. BA, Kazan State University, 2000; MA, Pittsburg State University, 2002; PhD, Texas Tech University, 2006.


McCarty, Dawn (2007) Associate Professor of Social Work. BS, Lamar University, 1991; MSW, University of Houston, 1995; PhD, University of Houston, 2002.


Mhoon, Kendra (2011) Assistant Professor of Mathematical Sciences. BA, Grinnel College, 1998; MS, Texas A&M University, 2001; PhD, University of Texas School of Public Health, 2008.


Minard, Meghan (2015) Lecturer of Biology. BS, Trinity University, 1998; MS, University of Texas Health Science Center-Houston Graduate School of Biomedical Sciences, 2001; PhD, University of Texas Health Science Center-Houston Graduate School of Biomedical Sciences, 2005.

Mitchell, Laura (2009) Assistant Professor of Education. BS, Texas State University, 1983; Med. University of Houston, 1987;
Mitha, Zeenat (2011) Lecturer of Communications. BA, Southern Methodist University, 1988; MBA University of New Mexico, 1994.

Mobasher, Mohsen M. (2002) Associate Professor of Sociology. BA, University of North Texas, 1984; MA, 1988; MA, Southern Methodist University, 1994; PhD, 1996.

Monroe, Martin (2014) Lecturer of Management. BS, Clarkson University, 1977; MBA, Syracuse University, 1980; MS, University of Pennsylvania, 2002; PhD, Texas A&M University, 1997.

Moosally, Michelle J. (1998) Associate Professor of English. BS, Mankato State University, 1991; MA, University of Texas at Austin, 1994; PhD, 1998.


Morgan, Whitney (2009) Associate Professor of Management. BA, Rice University, 2004; MA, George Mason University, 2006; PhD, 2009.

Morris-Smith, Penny (1988) Professor of Biology and Geology. BA, California State University, Los Angeles, 1964; MA, San Francisco State University, 1972; PhD, University of California, Berkeley, 1975.

Mosier, M. Patricia (1982) Associate Professor of Spanish. BA, West Virginia University, 1970; MA, University of Wisconsin, 1972; PhD, 1979. [EMERITUS]


Mullinnix, Debra (1998) Associate Professor of Education. BS, Texas A&M University, 1976; MEd, University of Houston, 1993; EdD, 1998.

Murray, Cara E. (2007) Associate Professor of English. BA, Denison University, 1985; PhD, City University of New York, 2005.

Murray, Creshema (2013) Assistant Professor of Communication. BA, University of Alabama, 2006; MA, University of Alabama, 2007; Ph.D., University of Alabama, 2011


Nath, Janice (2001) Professor of Education. BA, Texas A&M University, 1974; MA, Chapman University, 1988; EdD, University of Houston, 1995. [EMERITUS]


Nelson, Susan (2013) Visiting Assistant Professor of Education. BS, Troy State University, 1978; MA, Troy State University


Nguyen, Thai (2013) Lecturer of Economics. BS, California State Polytechnic University, 1988; BA, California State University Los Angeles, 1993; MA, California State University Los Angeles, 1994; Ph. D. University of Wisconsin – Milwaukee, 2004.


Nowak, William J. (2002) Associate Professor of Spanish. BA, St. John’s University, 1984; MA, Princeton University, 1987; PhD, 1993.


Padilla, Edwin (1994) Associate Professor of Spanish. BA, University of Puerto Rico, 1979; MA, University of Texas at El Paso, 1982; PhD, University of Houston, 2002.


Paskelian, Ohannes (2008) Associate Professor of Finance. BE, American University of Beirut, 1997; MBA, Nicholls State University 2001; MS, University of New Orleans 2004; PhD, University of New Orleans 2006.

Pedrana, Angela López (2005) Associate Professor of Education. BS, University of Wisconsin at Madison, 1981; BA, University of St. Thomas, 1989; MEd, 1995; EdD, University of Houston, 2004.

Pedroza, Mesias (2015) Lecturer of Chemistry. BS, University of Houston-Downtown, 2007; PhD, University of Texas Health Science Center – Houston Graduate School of Biomedical Sciences, 2011.


Pelz, Mary Elizabeth (1988) Associate Professor of Criminal Justice. BA, Stephen F. Austin State University, 1974; MA, 1976; PhD, Sam Houston State University, 1988.

Pfeffer, Rebecca. (2013) Assistant Professor of Criminal Justice. BA, Pitzer College, 2005; MS, Pace University, 2007; MS, University of Pennsylvania, 2008; PhD, Northeastern University, 2012.

Pence, Diana K. (2006) Associate Professor of Accounting. BSBA, University of Nebraska at Omaha, 1982; MPA, 1984; PhD, University of North Texas, 1996.


Pinelis, Yuriy (2013) Lecturer of Physics. MS, Novosibirsk State University, Russia, 1979; MS, University of Chicago, 1999; PhD, Institute of Nuclear Physics, Russia, 1988.

Rahmatian, Arash (2014) Assistant Professor of Structural Analysis and Design. BS, Najaf Abud University, Iran, 1996; MA, 2000; PhD, Concordia University, Canada, 2013.

Pinkerton, Kim J. (2007) Associate Professor of Education. BA, University of Arkansas, 1994; MS, University of Houston-Clear Lake, 2001; EdD, University of Houston, 2007.

Pogue, Kate (2012) Lecturer of Communications Studies and Drama. BSS, Northwestern University, 1962; MA, University of Minnesota, 1965.

Pohl, Bernardo. (2013) Assistant Professor of Education. BA, University of Houston, 1997; MEd, University of Houston, 2003; EdD, University of Houston, 2009.

Pointer, Lucille (2002) Professor of Marketing. BS, Southern University, 1973; MBA, University of Wisconsin, 1974; PhD, Texas A&M University, 2000.


Portillo, Mary (2010) Assistant Professor of Psychology. BA, Fort Lewis College, 2000; MA, Rice University, 2006; PhD, 2010.

Preuss, Gene (2004) Associate Professor of History. BA, Southwest Texas State University, 1990; MA, 1993; PhD, Texas Tech University, 2004.


Qavi, Hamida (2005) Lecturer of Chemistry. BS, Osmania University, Hyderabad, India, 1961; MS, Osmania University, Hyderabad, India, 1963; MS, Ohio State University, 1969; Ph.D., Ohio State University, 1977.

Quander, Judith (2010) Associate Professor of Mathematical Sciences. BS, University of Texas, 1998; MS, University of Arizona, 2000; PhD, University of Georgia, 2006.

Rahmatian, Arash (2014) Assistant Professor of Structural Analysis and Design. BS, Najaf Abud University, Iran, 1996; MA, 2000; PhD, Concordia University, Canada, 2013

Raymundo, Melissa (2010) Assistant Professor of Psychology. BS, University of Houston, 2003; MA, 2006; PhD, 2010.


Ren, Peter (2012) Visiting Assistant Professor of Finance. BBA, Grand Canyon University, 2004; MS, West Texas A&M University, 2006; Ph.D., University of North Texas, 2015


Robinson, Robert (2014) Visiting Assistant Professor of Management. B.A. University of Texas at Austin, 1974; M.A. The Ohio State University, 1977; Ph.D., 1977.

Romero, Reyaldo (Rey) (2010) Associate Professor of Spanish. BA, Rice University, 2002; PhD Georgetown University, 2009.


Roubicek, Henry L. (1983) Professor of Communication Studies. BA, The Ohio State University, 1974; MA, Purdue University, 1976; EdD, University of Maryland, 1983.

Rufino, Katrina (2014) Assistant Professor of Psychology. BA, College of the Holy Cross, 2005; MA, John Jay College of Criminal Justice, City University of New York, 2007; PhD, Sam Houston State University, 2012.


Sack, Jacqueline (2009) Assistant Professor of Education. BSc Honors, University of the Witwatersrand, South Africa, 1975; MLS, Sam Houston State University, 1984; EdD, University of Houston, 2005.

Saha, Sanghamitra (2014) Lecturer of Biology. BS, Hindu College University of Delhi, India, 1988; MS, University of Baroda, India, 1990; PhD, Indian Agricultural Research Institute, New Delhi, India, 1996.


Sadana, Rachna (2011) Associate Professor of Biology. BS, Kurukshetra University, 1996; MS, Kurukshetra University, PhD.

Salinas, Salvador (2015) Assistant Professor of History. BA, Appalachian State University, 2003; MA, University of Oxford, 2007; PhD, University of Texas at Austin, 2014.


Scharold, Dagmar (1997) Assistant Professor of English. BA, University of Houston-Clear Lake, 1992; MA, University of Houston-Clear Lake, 1996; PhD Texas A&M University, 2012.


Seratt, Heather E. (2013), Lecturer in English. BA, Mississippi State University, 2001; MA, University of Tennessee, 2003; MFA University of Memphis, 2007

Serrett, Randy K. (1999) Professor of Accounting. BS, Louisiana State University, 1973; MS, University of Houston, 1983; PhD, 1986; CPA.


Shastri, Dvijesh (2011) Assistant Professor of Mathematical Sciences. BS, Sardar Patel University, 1997; MS, Wright State University, 2001; PhD, University of Houston, 2007.


Shelley, Deborah B. (1993) Associate Professor of Communication Studies. BA, University of North Carolina at Chapel Hill, 1972; MA, San Francisco State University, 1974; PhD, Louisiana State University, 1976.

PhD, 1986.

**Shroff, Arpita** (2016) Assistant Professor of Accounting. B.Sc. University, Vadodara, India, M.S. 1992; MBA 1994; M.S. University of Houston, 2000; Ph.D., 2013; CPA.

**Singh, Ajay** (2014) Lecturer of Geology. BS, University of Delhi, India, 2001; MS, University of Delhi, India, 2003; MS, Indiana State University, 2007; PhD, Texas A&M University, 2012.


**Siriko-Hoang, Toni.** (2009) Associate Professor of Communication Studies, BA, University of Houston-Downtown, 1999; MA, University of Houston, 2005, PhD, University of Oklahoma, 2009.

**Simeonov, Plamen** (1999) Professor of Mathematical Sciences. BS, Sofia University, 1990; MS, 1992; PhD, University of South Florida, 1997.

**Smith –Chen, Claudia,** (2014), Lecturer in English. BA, Bard College, Annandale-on-Hudson, 1992; MA, The John Hopkins University, 1993; Ph.D., University of Texas, 2012.

**Smith, J. Garry** (2014). Assistant Professor of Marketing. BBA, University of Texas-Tyler, 1975; MBA, University of North Texas, 1997; PhD, Texas A&M University, 2007.

**Smith, Charles** (1987) Professor of Finance. BS, McNeese State University, 1974; MBA, University of New Orleans, 1975; PhD, Texas A&M University, 1984.

**Smith, Dana S.** (2013) Assistant Professor of Social Work. BA, Spelman College, 1989; MPA, Texas Southern University, 1992; PhD., University of Houston, 2008.

**Socolof, Jerome** (2014) Assistant Professor of Art Administration. BM, State University of New York, 2007; MA, Ohio State University, 2009; PhD, Ohio State University, 2012.

**Soibam, Benjamin** (2015) Assistant Professor of Computer Science. BS, St. Stephen's College, University of Delhi, India, 2005; MS, University of Houston, 2009; PhD, University of Houston, 2012.

**Solomon, Frankie** (1993) Lecturer in Mathematical Sciences. BA, Grambling State University, 1971; MS, Texas Southern University, 1989.

**Spiller, Laura** (2015) Associate Professor of Psychology. BA, University of Texas at Austin, 1993; MA, University of Houston, 1997; PhD, 2000.

**Stanberry, Kurt** (1996) Professor of Business Law. BBA, Yale University, 1972; MBA, Temple University, 1974; JD, University of Houston, 1977.

**Sterna, Larry L.** (2009) Lecturer of Physics. BS, Yale University, 1974; MS, University of California, Berkeley, 1977; Ph.D., University of California, Berkeley, 1981.

**Stevens, Laura L.** (2014), Lecturer in English. BA, University of Houston, 1996; MA, Simmons College Boston, 1998

**Stewart, Cynthia** (2005) Associate Professor of Psychology. BS, University of Houston, 1997; MA, 2000; PhD, 2001.

**Strain, Charles R.** (1994) Professor of Marketing. BBA, University of Mississippi, 1974; MBA, University of Southern Mississippi, 1982; DBA, Mississippi State University, 1994.


**Switzer, Kelly** (2007) Assistant Professor of Drama. BA, University of Houston, 2004; MFA, University of Georgia, 2007.
Tannous, Steven S. (2009), Lecturer, Management. BBA, 1997; MBA, 2000, University of Houston.


TenBrink, Candace (2016) Assistant Professor of Management. B.A. Michigan State University, 1992; M.B.A. University of Michigan, 1997; Ph.D. University of Houston, 2016.

Thacker-Kumar, Leena (1993) Professor of Political Science. BA, Scottish Church College, 1982; MA, Miami University, 1988; PhD, 1993.


Thomas, Tammis (1995) Professor of English. BA, University of Texas at Austin, 1984; MA, State University of New York at Buffalo, 1989; PhD, 1995.

Tobin, Michael (2012) Assistant Professor of Biology. BA, Reed College, Oregon, 1990; Ph.D., University of Minnesota, 2001.

Trufan, Eszter. (2013) Assistant Professor of Chemistry. BS, University of Romania, 2004; MS, University of Romania, 2005; Ph.D., University of South Carolina, 2009.

Turner, Erlanger (2014) Assistant Professor of Psychology. BS, Louisiana State University, 2004; MS, Texas A&M University, 2006; PhD, 2009.


Valcore, Laura (2014) Assistant Professor of Criminal Justice. BA, Eastern Illinois University, 2007; MA, University of Colorado, 2009; PhD, University of Colorado, 2014.

Van Horn, Leigh (2000) Professor of Education. BS, University of Houston, 1992; MS, University of Houston-Clear Lake, 1995; EdD, University of Houston, 2000.

Vela, Frank J. (2011) Assistant Professor of Design/Technical Director of Theatre. BFA, The University of Texas-Pan American, 2004; MFA, The University of Texas at Austin, 2007.


Villegas, Elizabeth (2015) Lecturer of Biology. BS, University of Houston-Downtown, 2005; PhD, Baylor College of Medicine, 2014.

Visbal, Adriana (2015) Lecturer of Biology. BS, Texas A&M University, 2004; PhD, Baylor College of Medicine, 2010.

Vobach, Carol (1969) Associate Professor of Mathematical Sciences. BA, Marymount College, 1962; MA, University of North Carolina at Chapel Hill, 1965; EdD, University of Houston, 1984.

Vogt, John J (2016) Visiting Assistant Professor of Supply Chain Management. B.S. University of Witwatersrand, 1974; MBA University of South Africa, 1988; Ph.D. University of Stellenbosch, 2006.
**Von Biedenfeld, Dietrich** (2016) Visiting Assistant Professor of Business Law. B.A. University of Houston, 2006; J.D., University of Mississippi, 2009.

**Wade, Carolyn E.** (2011) Assistant Professor of Early Childhood Education. BA, University of North Texas, 1996; MEd, University of Houston, 2001; EdD, 2011.

**Wadhwa, Darshan L.** (1984) Professor of Accounting. BS, KGK College, Moradabad, India, 1964; MS, Roorkee University, Roorkee, India, 1967; MBA, Louisiana Tech University, 1972; DBA, 1988; CPA.


**Waller, Sarah** (2008) Associate Professor of Management. BA, Dillard University, 2003; MA Rice University, 2006; PhD, 2009.

**Wang, Hsiao-Ming** (2001) Professor of Criminal Justice. BC, Feng-Chia University, 1977; MBA, University of St. Thomas, 1992; PhD, Sam Houston State University, 1998.

**Wang, Xiaohang** (2016) Visiting Assistant Professor of Accounting. B.S., Beijing Normal University, 1997; Master in Professional Accounting, University of Texas at Austin, 1999; Ph.D., 2010; CPA.

**Wang, Yingchun (Irene)** (2010) Assistant Professor of Management. BA, Renmin University of China; MA, Tsinghua University; PhD, University of Minnesota, 2010.


**Wedes, Joan B.** (2015), Lecturer in English. BA, University of Tennessee, 1986; MA, Eastern Michigan University, 1995; Ph.D., Wayne State University, 2014.


**Westfall, Joseph** (2005) Associate Professor of Philosophy. BA, Santa Clara University, 1997; MA, Boston College, 1999; PhD, 2005.


**Williams, Marvin J.** (1988) Professor of Accounting. BBA, University of Houston, 1980; MBA, 1982; JD, 1986; CPA, CMA.


**Williams, Patrick S.** (1990) Associate Professor of Psychology. BS, Michigan State University, 1971; MEd, Northeastern University, 1974; PhD, Texas Tech University, 1987.

**Williams, Rube**. (2013) Instructor of Chemistry. BS, Texas A&M University, 1984; MS, Texas A&M University, 1993; Ph.D., Texas A&M University, 1997.

**Wingfield, Mary** (2008) Lecturer of Education, BS, Kansas State University, 1975; MS University of Houston, 1992; EdD, University of Houston, 1998.

Wilson, Julie (2015) Lecturer of Psychology, BS, Sam Houston State University, 1995; MS, Capella University, 2003; PhD, Capella University, 2010.


Wright, Martin K. (2007) Associate Professor of Enterprise Information Systems. BA, University of Texas at Austin, 1972; MBA, University of San Francisco, 1986; PhD, University of Texas at Austin, 1992.

Xie, Shishen (1990) Professor of Mathematical Sciences. BS, East China Normal University, China, 1982; MS, Texas Tech University, 1987; PhD, 1990.

Yancy, Alicia (2013). Assistant Professor of Accounting. BS, University of Houston, 1994; MBA, Rice University, 2006; PhD, University of Southern California, 2013.


Yuan, Shengli (2004) Professor of Computer Science. BS, Fudan University-Shanghai, 1991; MS, University of Missouri-Columbia, 1995; PhD, University of Texas at Dallas, 2004.

Zafiris, Vasilis (1999) Associate Professor of Mathematical Sciences. BS, Mississippi State University, 1984; MS, 1987; PhD, University of Houston, 1996.

Zanwar, Preeti (2016) Lecturer of Mathematical Sciences. BS, University of Houston, 1998; MS, University of Houston Clear Lake/Baylor College of Medicine, 2007; MPH, University of Texas School of Public Health, 2009; PhD, University of Texas Medical Branch, 2014.

Zhang, Zhenyu (2014). Associate Professor of Accounting. BS, University of Science and Technology of China, 2004; PhD, University of Houston, 2014.

Zhou, Bin (2012) Assistant Professor of Management. BA, Foreign Affairs College, Beijing, 1999; MBA, Rutgers University, 2003; PhD, 2007.

Zhou, Zehai (2006) Associate Professor of Enterprise Information Systems. BAgri, Agricultural University of Central China, 1982; MAgri, Beijing Forestry University, 1986; MS, University of Illinois at Urbana-Champaign, 1990; PhD, University of Arizona, 1996.