



University
of Houston
Clear Lake

2010-2011

UHCL

Undergraduate Catalog

Courses, Degree Requirements, Faculty and General Information



PUBLICATION INFORMATION

This catalog is published annually by the University of Houston-Clear Lake. The university reserves the right to make changes in course offerings, degree requirements, charges, regulations and procedures contained herein as educational and financial considerations require, subject to and consistent with established procedures and authorizations for making such changes. Students are responsible for knowing current regulations regardless of matriculation date. Interpretations or explanations contrary to the regulations in this publication are not binding upon the university.

UHCL is fully committed to providing equal educational and employment opportunities for all persons regardless of race, color, sex, age, religion, marital status, national origin, veterans' status, mental or physical disability and/or any other category against which discrimination is prohibited by state or federal law. Inquiries concerning laws and regulations governing affirmative action, sexual harassment or problems related to equal opportunity should be directed to the Director of Human Resources and Affirmative Action, Box 167.

The University of Houston System is a state-assisted system comprising four universities: University of Houston, UHCL, UH-Downtown and UH-Victoria.

UHCL is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; telephone number 404-679-4501) to award bachelor's, master's and doctorate degrees.

University of Houston-Clear Lake Terminology

The University of Houston-Clear Lake began using a new student information system called PeopleSoft in 2001. PeopleSoft uses different terminology than is normally used in college curriculums.

The chart below will assist you in becoming familiar with the terminology.

Old Terminology	Current Terminology
Major	Plan
Concentration/Certification	Subplan
Level	Career
School/Level	Program

Undergraduate Catalog 2010-2011

VOLUME 37

PLEASE VISIT OUR WEB SITE AT:

<http://www.uhcl.edu>

This publication is available on the internet at:

<http://www.uhcl.edu/catalog>

or by request to the
Office of Admissions

UNIVERSITY OF HOUSTON-CLEAR LAKE

2700 Bay Area Boulevard
Houston, Texas 77058-1098

Telephone: 281-283-2500

Important dates and Quick Reference Guide
are available at:

<http://www.uhcl.edu/records>

DIRECTORY

	Office	*Phone
Academic Records	S1109	283-2525
Admissions	S1101	283-2500
Alumni Relations	B1604	283-2021
Bookstore	B1206	283-2180
Business, Dean	B2239	283-3100
Academic Advising	B2111	283-3110
Administration	B2239	283-3100
Career Services	S3109	283-2590
Cashier and Collections	S1103	283-2170
Communications	B2519	283-2015
Community Relations	B1604	283-2021
Counseling Services	S3103	283-2580
Dean of Students	S1201	283-2567
Development	B1604	283-2021
Distance and Off-Campus Education	B1406	283-3031
Education, Dean	B1237	283-3501
Academic Advising	B1231	283-3615
Center for Educational Programs	A190	283-3530
Center for Professional Development of Teachers	B1231	283-3612
Teacher and Professional Certification	B1231	283-3618
Health and Disability Services	S1301	283-2626
Human Sciences and Humanities, Dean	B1529	283-3300
Academic Affairs	B1539	283-3400
Academic Advising	B1539	283-3333
Administration and Finance	B1617	283-3350
Intercultural and International Student Services	S1203	283-2575
International Initiatives	B1402	283-2531
Library	B2402	283-3900
Office of Online Programs	B1402	283-3056
Parking Permits	B1636	283-2222
Police	B1636	283-2222
Registrar	S1109	283-2525
Science and Computer Engineering, Dean	B3611	283-3703
Academic Affairs	B3611	283-3711
Academic Advising	B3611	283-3700
Student Assistance Center	S1102	283-2722
Student Financial Aid	S1105	283-2480
Student Information and Assistance (Bayou Bldg).	B1632	283-2614
Student Life	S1204	283-2560
Student Publications	B1239	283-2570
Student Services	B2525	283-3025
Support Center	B2300	283-2828
Computing Information	B2300	283-2828
Online Course Support	B2300	283-2828
Media Services	B2300	283-2828
Telephone Registration	S1101	212-8425

***Area Code for all numbers is 281.**

A = Arbor Building B = Bayou Building D = Delta Building S = Student Services and Classroom Building

Requests for information should be directed to the offices or persons above.

The university's address for all inquiries is:

2700 Bay Area Boulevard, Houston, Texas 77058-1098

Main Operator Phone: 281-283-7600



DIRECTIONS

From North on I-45: Travel south on I-45 to the Bay Area Blvd. exit. Continue east on Bay Area Blvd. Follow the signs four miles to UHCL. Enter Entrance 1 and follow the signs to the Bayou Building. Park in visitor parking, Lot D.

From South on I-45: Travel north on I-45. Exit at Bay Area Blvd. Right on Bay Area Blvd. four miles to UHCL. Enter Entrance 1 and follow the signs to the Bayou Building. Park in visitor parking, Lot D.

From Highway 225: Travel to I-45 and follow the directions to "From North on I-45."

From Highway 146: Travel south on Highway 146 to Fairmont Pkwy. Right on Fairmont Pkwy. to Bay Area Blvd. Left on Bay Area Blvd. to UHCL. Left at Brook Forest Entrance 2. Follow signs to visitor parking, Lot D.

From Highway 6 South: Travel northwest to Hwy. 35 Bypass. Go north on Hwy. 35 Bypass to FM 528. Right on FM 528 to I-45. Follow the directions to "From South on I-45."

From Highway 6 North: Travel southeast to Hwy. 35. Go north on Hwy. 35 to FM 528. Right on FM 528 to I-45. Follow the directions to "From South on I-45."

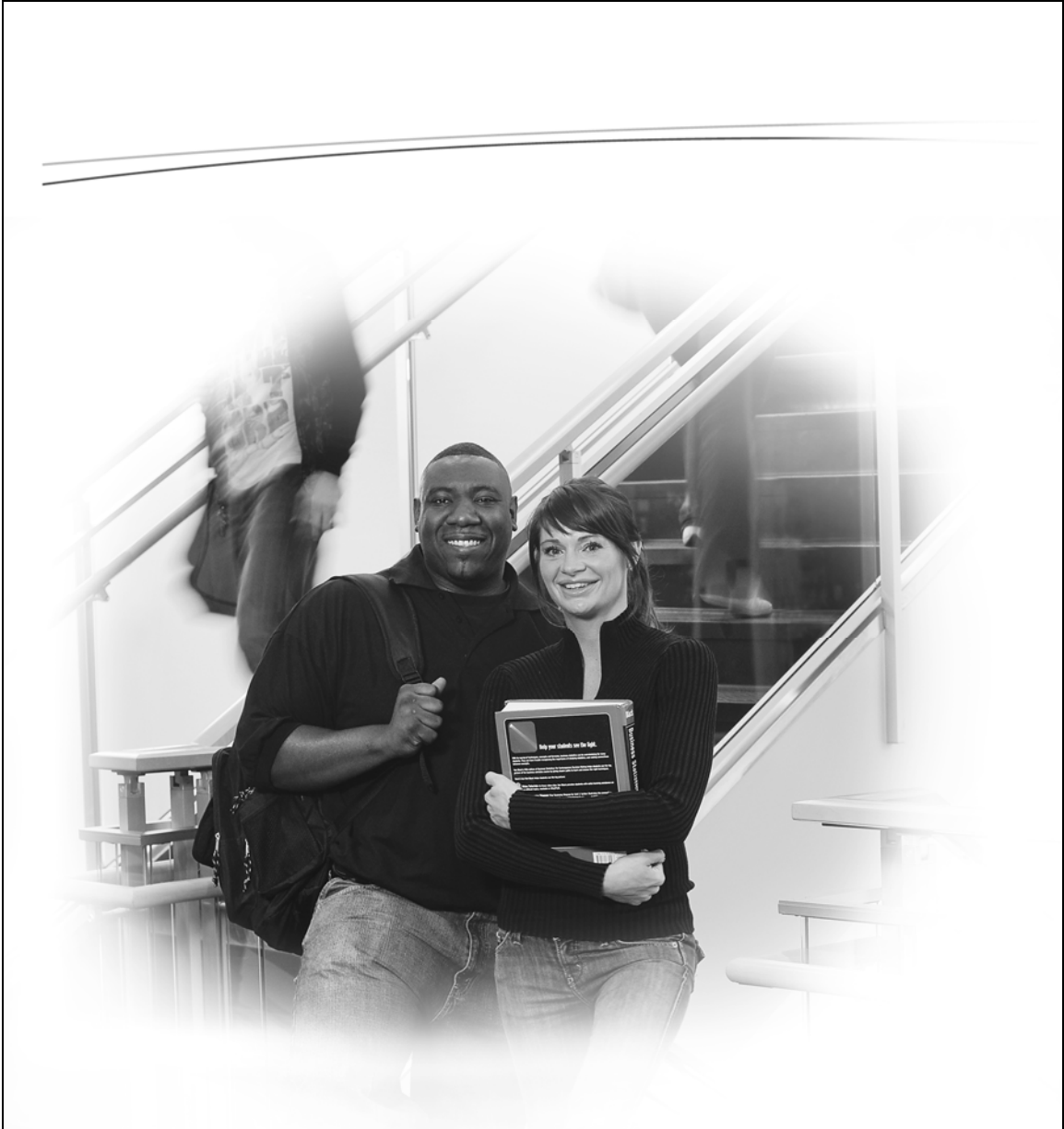
CONTENTS

Directory.....	2
Directions	3
The University	7
New Students Information	15
Financial Aid.....	37
Registration and Records Services.....	47
Student Services	65
General Program Requirements.....	75
Distance and Off-Campus Education.....	95
School of Business	101
School of Education	113
School of Human Sciences and Humanities	175
School of Science and Computer Engineering	223
Roster of Courses	249
University of Houston System.....	312
University of Houston-Clear Lake Faculty	315
Index.....	338



Built on a 524-acre wildlife and nature preserve, University of Houston-Clear Lake allows students to enjoy the beauty of nature while walking or biking to class.





UHCL's Student Services and Classroom Building is home to enrollment services, health, wellness and academic support services in addition to classrooms and faculty offices.



THE UNIVERSITY

- Overview
- University Services

OVERVIEW

University of Houston-Clear Lake is an upper-level educational institution with a distinct identity, whose primary role is to provide fair and equitable learning opportunities to undergraduate and graduate students. The university serves a diverse student population from the state, the nation and abroad, particularly from the Houston-Galveston metropolitan area, by offering programs on and off campus.

UHCL offers a variety of programs in business, education, human sciences and humanities, and science and computer engineering. The university emphasizes high standards for teaching and learning in its bachelor's, master's and doctoral degree programs, as well as in its professional plans and collaboration in doctoral plans. All offerings are designed to develop creative, quantitative, communication and critical thinking skills of students.

The university's faculty, staff and administrators are committed to providing a humane, responsive and intellectually stimulating environment for productive learning and working. UHCL emphasizes (a) learning through teaching, research, scholarship and professional and community service; (b) the advancement of knowledge; (c) delivery of educational opportunities through new instructional technologies and through distance learning; (d) a commitment to high academic standards; (e) sensitivity to the needs of the students and communities served by the institution; and (f) above all, integrity in all institutional functions.

A METROPOLITAN UNIVERSITY

Located adjacent to the National Aeronautics and Space Administration Johnson Space Center, UHCL is situated in the heart of Clear Lake's high-technology community. The campus is located between downtown Houston and Galveston Island. Its neighbors to the east are Armand Bayou Nature Center and Bayport Industrial Complex. As one of the leading higher education institutions serving the Texas upper Gulf Coast, UHCL is a vital component of the surrounding region. The university is committed to enhancing the educational, economic, cultural, scientific, business and professional environment of the region. Because a strong university is essential to the success of the area's industries, UHCL is dedicated to developing and strengthening programs supporting the region's various commercial, engineering, human services and trade sectors, especially in the computing, medical, petrochemical and space industries.

Academic theories are applied and research is conducted through UHCL's centers, institutes, clinics and laboratories. These entities include:

- Art School for Children and Young Adults
- Center for Advanced Management Programs
- Center for Autism and Developmental Disabilities

- Center for Behavioral Neuroscience Research
- Center for Economic Development and Research
- Center for Educational Programs
- Center for Professional Development of Teachers
- Counseling Clinic
- Diagnostic Reading Clinic
- Environmental Institute of Houston
- Greater Houston Area Writing Project
- High Technologies Laboratory
- Human Performance Institute
- Learning Resources Review Center
- Mathematics Institute
- Psychological Services Clinic
- Research Center for Language and Culture
- Small Business Development Institute

LOOKING BACK: ESTABLISHMENT OF UHCL

The establishment of UHCL was authorized by the 62nd Texas Legislature in 1971. The measure was the result of a 1968 report by the Coordinating Board, Texas College and University System (now the Texas Higher Education Coordinating Board) calling for a second University of Houston campus to provide upper-level and graduate programs. In 1973, the Texas Senate authorized construction of a permanent campus at Clear Lake.

Construction began early in 1974 with the first phase of the Bayou Building, the largest of the university's five principal buildings. September 1974 marked the beginning of regularly scheduled classes on the UHCL campus under the leadership of UHCL's founding chancellor, Alfred R. Neumann. Opening day enrollment totaled 1,069 students and 60 professors comprised the charter faculty. Today, the university has approximately 7,600 students and more than 600 full-time and adjunct faculty.

REACHING OUT: CREATION OF UHCL PEARLAND CAMPUS

In 2007, the Texas Higher Education Coordinating Board approved creation of UHCL Pearland Campus. The new campus was developed as a partnership between UHCL and the City of Pearland to improve access to higher education for Pearland-area residents. During spring 2009, construction began on a 30,659-square-foot building, with 22,616 square feet to house the university and the remaining 8,043 square feet for the Pearland Economic Development Corporation. UHCL Pearland Campus, located at 1200 Pearland Parkway, Pearland, Texas, 77581, features eight media-equipped classrooms, two teaching labs, a computer lab, a library and a variety of student resources. Fall 2010 marks the beginning of classes at the satellite campus, with degree offerings in disciplines such as accounting, business, criminology, education and psychology.

ACCREDITATIONS

UHCL is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award bachelor's, master's and doctoral degrees as listed in the General Program Requirements section of this catalog. The commission is located at 1866 Southern Lane, Decatur, Georgia 30033-4097. The phone number is 404-679-4501.

The School of Business maintains accreditation on its graduate and undergraduate business and accounting programs by The Association to Advance Collegiate Schools of Business (AACSB International), and on its graduate healthcare administration programs by the Commission on Accreditation of Healthcare Management Education (CAHME).

The School of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Ave. NW, Suite 500, Washington, D.C. 20036, phone 202-466-7496. This accreditation covers all of the institution's initial teacher preparation and advanced educator preparation programs. The School of Education is also accredited by the Texas State Board for Educator Certification.

The School of Human Sciences and Humanities' family therapy program is accredited by the Commission on Accreditation for Marriage and Family Therapy Education. The school psychology program is accredited by the National Association of School Psychologists (NASP). The Bachelor of Social Work is accredited by the Council on Social Work Education (CSWE).

The School of Science and Computer Engineering's undergraduate degree plan in computer engineering is accredited by the Engineering Commission of the Accreditation Board for Engineering and Technology (ABET) Inc. The undergraduate degree plans in computer science and computer information systems are accredited by the Computer Accreditation Commission of the ABET. The program in chemistry is accredited by the American Chemical Society (ACS).

The Office of Career and Counseling Services is accredited by the International Association of Counseling Services.

GOVERNANCE

UHCL is one of four institutions with distinct identities and missions that make up the University of Houston System. The universities are governed by the UHS Board of Regents and Chancellor Renu Khator. Administrative responsibility for UHCL is vested in its president, William A. Staples. UHCL's shared governance process includes the Faculty Senate, Professional and Administrative Staff Association, Support Staff Association and Student Government Association, working with the university's administration through various committees and councils including University Council, which is chaired by the university's president. Members of the UHCL Community Partners Council serve as business, education, government and non-profit organization advisers on current issues impacting the advancement of the university and as volunteers in helping UHCL acquire resources.

THE CAMPUS

UHCL's buildings, which comprise more than three-quarter million square feet of space, are surrounded by a 524-acre natural environment. The campus features picturesque park-like settings with Horsepen Bayou winding through heavily wooded areas abundant with wildlife.

The Arbor Building houses painting, ceramics, weaving and photography studios, as well as educational centers and laboratories.

The Bayou Building houses the majority of classrooms, administrative and faculty offices, the library, alumni relations, bookstore, cafeteria, computing services and laboratories, copy services, mail room, university police and the theater.

The Central Services Building is headquarters for building maintenance, grounds and custodial services, scheduling and space planning, vehicle maintenance, printing and graphic services and the animal care facility.

The Delta Building houses student computer laboratories and computing faculty offices.

The Student Services and Classroom Building accommodates five categories of functions including academic; enrollment; health, wellness and academic support; programming and general space. The one-stop Student Assistance Center provides enrollment, registration, fee payment, financial aid and scholarship services.

University Forest Apartments is a privately owned and managed apartment complex built in 1995 on the campus of the university. This 136-unit student housing facility is a two-story complex that includes a central courtyard with clubhouse, laundry facility, swimming pool, jacuzzi, sand volleyball court, barbecue grills and picnic and lounge areas.

UNIVERSITY SERVICES

ALFRED R. NEUMANN LIBRARY

UHCL's Alfred R. Neumann Library, named after the university's founding chancellor, provides students with online access to thousands of books, journals and scholarly resources. UHCL librarians offer personal research assistance to students and tips on navigating search interfaces, retrieving information and evaluating information for use in scholarly research. Visit with librarians in person or contact them by phone at 281-283-3910, e-mail reference@uhcl.edu or online at www.uhcl.edu/library.

Visitors can receive help formulating effective search queries, becoming familiar with controlled vocabulary searching and identifying the best online resources out of a collection of more than 150 subscription-only databases, most with full-text articles. Classes are available in research procedures tailored to particular courses. The library classroom is equipped with laptops so that students may participate in a hands-on-learning environment. Students may also make appointments with librarians to explore more in-depth instruction on library research strategies in a comfortable one-on-one environment.

UHCL students, faculty and staff may also borrow books from UH and UH-Downtown quickly and easily through the shared catalog. The TexShare card, available upon request in Neumann Library, allows a UHCL student to go to any academic or public library in Texas and check out a book, which can then be returned to Neumann Library. The library's interlibrary loan service will borrow requested materials from any library in the country through a national interlibrary loan network. Neumann Library offers 35 fixed computer workstations for student use.

The library occupies approximately 80,000 square feet in the Bayou Building and contains laptop-friendly study space, group study rooms and a soundproof quiet study room. The library contains more than 506,000 volumes, subscribes to more than 3000 print and electronic periodicals, and has approximately 1.8 million items in microform, as well as a collection of DVDs and audio books. A curriculum library for education students contains K-12 textbooks, classic children's literature and a review center for recent children's literature. Neumann Library also includes University Archives, which houses the NASA Johnson Space Center History Collection.

COMPUTING AND TELECOMMUNICATIONS

The UCT Support Center serves as the first point of contact for all computing and telecommunications needs. People may drop in at the center Monday through Thursday, 8 a.m. - 10:30 p.m., Friday and Saturday, 8 a.m. - 5 p.m. in the Bayou Building, Room B2300, or contact the center by phone at 281-283-2828 or e-mail at supportcenter@uhcl.edu. Visit www.uhcl.edu/uct for details on available services, including documentation self-help guides, policies and "Today's News."

Computing and telecommunications resources available to students, faculty and staff include:

- E-mail accounts
- Various technology orientations and software training programs including student lab orientation and computer use training and faculty orientation for classroom technology
- Wireless-equipped laptops may be checked out for free from several convenient locations on campus
- Academic computing labs for students, in multiple locations, open daily including weekends. Printers and photo/document scanners available in all labs. Lab hours can be found at www.uhcl.edu/uct
- Specialized teaching labs including PC labs for students to work in teams, high-performance PC lab for special graphic application usage, and a Mac lab equipped with 24-inch iMacs for video editing/creating, digital graphics and photography classes
- University classrooms equipped with integrated video and audio technology
- Support for online students using the Blackboard Course Management System
- Support for faculty in instructional design of online courses as well as for Web-enhanced instruction

- Web pages for the university, schools, programs, faculty and individual courses (www.uhcl.edu)
- Wireless access in all campus classroom buildings
- High-speed network for data, video and Internet access
- Up-to-date computing hardware and software including industry-recognized applications to block spam and intercept virus attacks on all university-owned computers
- Secure remote access to campus resources via Virtual Private Network (VPN)
- Strong commitment to software engineering and relational database technology
- Siemen's telecommunications system for voice communications, including phonemail and fax service for faculty and staff

MATHEMATICS CENTER

The Mathematics Center is an instructional facility that serves the educational needs of UHCL students enrolled in mathematics or statistics courses, especially elementary school certification candidates who wish to strengthen their understanding of mathematical concepts and skills. Resources include one-on-one assistance, software, videos, reference books and manipulatives. The Mathematics Center also teams with the Office of Career and Counseling Services to provide math success workshops. Contact the Mathematics Center at 281-283-3883 or mathcenter@uhcl.edu.

WRITING CENTER

The Writing Center is an instructional facility where students, faculty and staff can work with trained tutors on their writing projects. Tutors collaborate with writers as they sort through ideas, analyze assignments and audiences, revise documents by clarifying ideas and structure, and learn stylistic and editing strategies. The Writing Center also offers online tutoring for currently registered students. For more information, contact the Writing Center at 281-283-2910, visit www.uhcl.edu/writingcenter, e-mail writingcenter@uhcl.edu, or simply drop by SSCB 2105.

UHCL ALUMNI ASSOCIATION

UHCL is committed to its alumni. The purpose of the Office of Alumni and Community Relations, and the alumni association as the volunteer leadership component, is to contact, engage, serve, empower and acknowledge alumni through programming, services, events and outreach.

All UHCL graduates and recipients of teacher's certificates are automatically members of the UHCL Alumni Association with no dues necessary. This means that UHCL graduates have access to the entire family of alumni, plus a host of great benefits. To learn more about the UHCL Alumni Association or to get involved, visit www.uhcl.edu/alumni or contact the Office of Alumni and Community Relations at 281-283-2021 or alumni@uhcl.edu.

UNIVERSITY POLICE

The University Police Department is responsible for law enforcement, security and emergency response at UHCL. The UHCL police serve the university community and visitors alike through law enforcement, crime prevention, traffic control and public assistance programs. The department enforces all university regulations as well as local and state laws.

The department is located in the Bayou Building, Suite B1636 and is operational 24 hours a day, seven days a week. Trained, professional police and communications officers staff the department. Services provided by the university police include: issuance of all parking permits, lock shop services including the issuance of codes and keys, vehicle unlocks, vehicle jump-starts, airing deflated tires and safety escorts to your vehicle.

To report an on-campus crime or any emergency, call the University Police Department at 281-283-2222 from off-campus telephones or 2222 from on-campus telephones. For special announcements, emergency closing and other information, call the UHCL Hotline at 281-283-2221 or visit www.UHCLemergency.info. For a complete overview of the University Police Department and its services, visit www.uhcl.edu/police.



*Prospective students discuss Science and Computer Engineering programs
at UHCL's Open House event.*



NEW STUDENTS INFORMATION

- General Information
- Admissions Policies and Procedures
- Undergraduate Admissions Process
- International Admissions Process
- Academic Advising

ADMISSIONS

GENERAL INFORMATION

Status Descriptions

Admission is defined as permission to enroll in courses for academic credit. Admission to the university does not guarantee admission to a specific major or academic program. Applicants may be admitted as undergraduate or post-baccalaureate students and may be either degree-seeking or non-degree-seeking. Some students, such as those admitted as Transients and those seeking teacher certification can only enroll as non-degree-seeking. For admission purposes, all students are categorized as "new" or "former".

- New students-Students who have never enrolled or have not been enrolled at University of Houston-Clear Lake beyond the census date of any semester.
- Former UHCL undergraduate students-Students who have attended UHCL but have not enrolled during the past three consecutive semesters. Former students, who left UHCL in good standing, must be readmitted under the current *undergraduate admission requirements*. Former students, who left due to an academic deficiency, should follow the university's readmission policy.

New and former students can enroll under the following classifications:

- Degree-seeking - Students who are applying for admission to an academic degree program.
- Non-degree-seeking applicants - Students who are applying for admission for reasons other than the pursuit of a degree, (e.g. personal enrichment, job enhancement or teacher certification). Non-degree-seeking students are not eligible for financial aid and must reapply as degree-seeking in order to pursue a degree at UHCL for a future semester. Credit earned in a non-degree status will not automatically be applicable to a specific academic degree program and some courses are restricted to only degree-seeking students. Additionally, some academic departments limit the number of hours that can be taken in a non-degree-seeking status and applied to a Candidate Plan of Study (CPS). For specific policies regarding course availability and application, please refer to the appropriate academic department's program section of this catalog.

- Transient students - Students who wish to enroll in a non-degree-seeking status at UHCL for only one semester, generally to transfer course work to another institution. Transient students must prove their eligibility by providing all documents required for their appropriate admission category prior to registration. Undergraduate transients will not be required to meet the composition or mathematics admission requirements; and, in specific circumstances, these students may be exempted from the TSI enrollment requirement (see *Transient Student Enrollment*). All other admission criteria must be met. Transients who wish to enroll in a second semester must obtain permission from the associate dean of the academic program and they must reapply by submitting a new application and application fee to the Office of Admissions.

Application Fees

The current application fees are as follows:

Domestic applicants: \$35.00

International applicants: \$75.00

This fee is charged to process the application of a new or former student applying to University of Houston-Clear Lake. New applicants are eligible to update their application within three semesters of their original application. To update to a new semester, applicants should submit an *Application Update Form*. This form can be found on the Office of Admission's Web site. The application fee can be paid by credit card (MasterCard, VISA, American Express or Discover) at the time of online application or after submission. To pay the application fee online after applying, students must use their E-Services account. The application fee can also be paid in person at the university Cashier's Office.

ADMISSION POLICIES AND PROCEDURES

TRANSCRIPTS, RECORDS AND TRANSFER WORK

Accredited Institutions

All transcripts submitted for admission purposes must be received from a regionally accredited institution. An acceptable accredited institution is a college or university that has earned accreditation from one of the following recognized regional accrediting commissions: New England Association of Colleges and Schools, Middle States Association of Colleges and Schools, North Central Association of Colleges and Schools, Northwest Association of Colleges and Schools, Southern Association of Colleges and Schools or the Western Association of Colleges and Schools.

Proprietary, vocational-technical, bible and other specialized, single-purpose institutions that are not recognized by a regional accrediting agency are excluded. Credit earned prior to an institution receiving regional accreditation is excluded.

Documentation for Admission from U.S. Institutions

All documents submitted to fulfill admission requirements must be official and from an institution awarded regional accreditation (see *Accredited Institutions*). Official

transcripts must be mailed directly from the former institution(s) to the Office of Admissions. Hand-delivered transcripts will only be accepted as official if they have been printed within the past 60 days and are received in a sealed envelope from the issuing institution. Unofficial transcripts, student copies of transcripts or transfer course work shown on transcripts will not be accepted as an official record of course work.

The Office of Admissions must receive all documents by the appropriate deadlines. Applicants who are admitted in the concurrent enrollment status must be enrolled at another institution and must submit a current paid fee statement from that institution's records office. An official transcript of course work in progress prior to or during enrollment at University of Houston-Clear Lake should be sent to the Office of Admissions once the grades have been posted.

If applicants knowingly withhold information or submit fraudulent information regarding enrollment at another institution, their application at UHCL will be considered invalid and they may be administratively withdrawn from classes without a refund of fees paid.

Documentation for Admission from International Institutions

International students must provide the Office of Admissions with official transcripts, mark (grade) sheets and confirmation of degrees or diplomas for all academic studies attempted at other colleges/universities, prior to enrollment. All students should provide official transcripts and/or mark sheets in the original language and English translations describing all academic studies attempted and completed. This information must be received before the final evaluation can proceed. Transcripts should clearly indicate dates of attendance, subjects taken and marks (grades) earned. They should also reflect any degrees or diplomas awarded.

Official transcripts are to be sent directly to University of Houston-Clear Lake by the registrar, principal or responsible head of each institution attended. When this is not possible, documents certified by an embassy or consular official as "true copies" may be accepted. Uncertified copies will not be accepted.

The university makes a reasonable determination of courses completed outside of the United States. However, if requested, students may be required to submit an independent evaluation of their course work. This evaluation must be performed by an approved accrediting agency to determine accurate course equivalencies. An evaluation of this type will occur at the student's expense. A list of acceptable agencies can be found on the Office of Admissions' Web site.

Developmental or Remedial Course Work

In determining admissibility, developmental or remedial course work will not be accepted for transfer purposes and will not count toward meeting the 54 semester credit hour minimum requirement for general admission or the 45 semester credit hour requirement for concurrent enrollment.

Repeated Transfer Courses

All attempted course work for credit will be counted in determining the transfer grade point average requirement for admission. Remedial or developmental course work will not be used to determine admission.

Records Retention and Release

Records from other institutions are kept on file for a period of five years. Former students who did not enroll during the past five years must resubmit transcripts, documentation, and pay the application fee when reapplying to the university (see Readmission Process).

Once a document is submitted to University of Houston-Clear Lake, it becomes the property of the university and will not be returned or otherwise sent to another institution or entity by e-mail, fax or US mail. Students may receive a copy of their previously submitted transcripts or scores, in person, by bringing a valid Texas Driver's License or ID to the Office of Admissions and signing a request form to release the information.

Encumbrance Holds or Service Indicators

An encumbrance hold will prevent students from registering for the next enrollment term until all appropriate admissions documentation is received. Failure to provide official documents will result in an encumbrance hold that will hinder future registration attempts and stop the release of records, including University of Houston-Clear Lake transcripts. Encumbrances may vary by restriction and type and may be placed by various university departments.

Encumbrance holds placed by any University of Houston system campus (UHCL, University of Houston (UH), University of Houston-Victoria (UHV) or University of Houston-Downtown (UHD) will not hinder registration and/or enrollment at a different campus unless the hold is a "Cross Campus B91, B92, B93 or B99" financial hold. A financial hold of this type will be applied to student records at each system campus. Although each campus applies the hold; it can only be cleared at the campus where the hold originated. The Cross Campus financial hold must be cleared before students are eligible to register at any campus in the University of Houston system.

Academic Fresh Start

For the purpose of earning an undergraduate degree, Academic Fresh Start allows applicants to request that an institution disregard academic course work previously earned at another institution of higher education in Texas. An institution may exclude all grades applicants earned at other institutions 10 or more years prior to their initial enrollment. Applicants requesting admission under this option must be Texas residents for the purpose of tuition and fees.

Academic Fresh Start can be used for undergraduate admission purposes only. Once students enroll, a request for Academic Fresh Start will not be accepted and once enrolled under this option, it cannot be revoked. Academic Fresh Start provisions require that all applicable course work be excluded from consideration for academic

purposes; requests for partial exclusions will not be considered. Courses ignored, due to invoking Academic Fresh Start, must be retaken if required to qualify for admission or as prerequisites for upper-level course work*. Accordingly, students who enroll under Academic Fresh Start and subsequently earn bachelor's degrees, can only use the grade point average earned after this option was invoked for consideration of admission to postgraduate or professional schools.

To enroll under this option, applicants must meet with an Enrollment Management Counselor, provide a written request of their intention to enroll under Academic Fresh Start and sign the required Acknowledgment Form.

*Exception: Students who were originally exempt from the Texas Success Initiative (TSI) due to course work completed prior to fall 1989 and have chosen to ignore those hours by enrolling under Academic Fresh Start will still be considered TSI exempt.

ADMISSIONS COMMUNICATIONS

E-mail

The university assigned campus e-mail address is the official communication vehicle for all student information and exchanges among academic administrative offices. Students are responsible for checking e-mail regularly to assure they receive important university information in a timely manner. Students who choose to utilize e-mail addresses other than the one assigned to them by University of Houston-Clear Lake, must log in to E-Services and forward their UHCL e-mail to another valid e-mail account to ensure access to important information and requests.

Notification of Admission

Upon receipt of appropriate documentation, the Office of Admissions will determine the eligibility of applicants to the university and will notify them of this determination. After acceptance, applicants will be notified of registration dates and procedures. This information is also available on the university's Web site.

Acceptance into a Degree Program

Acceptance of students into a degree program is determined by the admission standards of each academic school or department. Credit earned at University of Houston-Clear Lake is not automatically counted toward the completion of a degree program. Applicable credit is applied once the CPS has been completed and signed by both students and their advisers.

Appeals for Admission Process

Applicants with cumulative grade point averages below minimum GPA requirements may request an individual review of their application. This request must be accompanied by a personal statement providing the reasons for past academic performance, plans to ensure future success and factors such as extracurricular activities, employment history, leadership skills or other information relevant to the admission decision. An application packet of all required documents and scores must be on file for consideration.

ADMISSION REQUIREMENTS

NEW APPLICANTS TO UHCL

Bachelor of Arts and Bachelor of Science Degrees

Undergraduate applicants seeking admission to University of Houston-Clear Lake as degree-seeking students must have:

1. Earned an Associate of Arts, Associate of Arts in Teaching, or an Associate of Science degree
2. Met the TSI requirement by passing THEA or another appropriate assessment examination or received an exemption of this requirement (see *Texas Success Initiative*)
3. Eligibility to return immediately to the last institution attended,
or
 1. Earned a minimum of 54 semester hours of college credit and have a cumulative grade point average of 2.0 or higher
 2. Completed Composition I with a grade of "C-" or better*
 3. Completed Composition II or Technical Writing with a grade of "C-" or better*
 4. Satisfactorily completed College Algebra or a higher mathematics course (Human Sciences and Humanities applicants and applicants to the Bachelor of Applied Science in Early Childhood programs may accept Math for Liberal Arts.)
 5. Met the TSI requirement by passing THEA or another appropriate assessment examination or received an exemption of this requirement (see *Texas Success Initiative*)
 6. Eligibility to return immediately to the last institution attended

*For purposes of transfer undergraduate GPA calculations, plus and minus grade designations are not used ("C-" is computed as a "C", "B-" as a "B", etc.) Grades received for developmental course work are not included in the transfer GPA calculation.

Bachelor of Applied Science Degree (BAS)

School of Business

Applicants to the Bachelor of Applied Science (BAS) degree in the School of Business must have:

- An Associate of Applied Science degree in an Allied Health-related field,
- Eligibility to return to the last school attended, and
- Met the TSI requirement (see Texas Success Initiative)

Students can apply to the following degree program: BAS – Healthcare Services

School of Education

Applicants to the Bachelor of Applied Science (BAS) degree in the School of Education must have:

- An Associate of Applied Science in an Early Childhood program,
- Eligibility to return to the last school attended, and
- Met the TSI requirement (see Texas Success Initiative),

or

- Met the university's 54 hour general admission requirements (see New Applicants to UHCL)
- Have completed 12 semester credit hours of Early Childhood course work

Students can apply to the following degree programs:

BAS – Educator of Young Children

BAS – Young Children with Disabilities

BAS – Early Childhood Program Leadership

Science and Computer Engineering

Applicants to the Bachelor of Applied Science (BAS) degree in the School of Education must have:

- Have an Associate of Applied Science in Information Technology or related field
- Eligibility to return to the last school attended, and
- Met TSI requirement (see Texas Success Initiative),

or

- Met the university's 54 hour general admission requirements (see New Applicants to UHCL)
- Completed 3 hours of an Introductory Statistics foundation course

Students can apply to the following degree programs:

BAS – BAS-Information Technology

Early Admissions

Applicants seeking admission through the Early Admissions option must be currently enrolled in the appropriate number of course credit that, when added to their completed course work, totals the minimum 54 semester hours of college credit required for admission. Applicants must have earned a minimum grade point average of 2.0 on course work that has already been completed. Completed course work must include English Composition I with a grade of "C-" or higher and the math requirement for the desired degree. The English Composition II or Technical Writing requirement may be in progress at the time of admission; however, a final grade of "C-" or higher must be submitted to the Office of Admissions prior to the first day of classes.

Concurrent Enrollment (non-degree-seeking)

Applicants, who have not yet earned a minimum of 54 semester credit hours with a cumulative grade point average (GPA) of 2.0 or higher, may be admitted if they have:

- Earned 45 or more semester credit hours with a cumulative GPA of 2.0 or higher

- Enrolled for resident credit at another regionally accredited institution of higher education*
- Completed all English and mathematics admission requirements (see *Admissions Requirements*)
- Met the TSI requirement by passing THEA or another appropriate assessment examination or received an exemption of this requirement (see *Texas Success Initiative*)

Concurrent enrollment students are encouraged to meet with an academic adviser in the department of their major, prior to registering for classes. Students wishing to enroll in lower-level classes, while attending University of Houston-Clear Lake, are encouraged to enroll in these classes at a community college within commuting range of the university. Concurrent enrollment students must remain in good academic standing at UHCL; those who fall below a GPA of 2.0, will be placed on academic probation at UHCL and will have an encumbrance hold placed on their record to block any further registration.

Concurrent enrollment students are not eligible for financial aid and are limited to a total of 12 semester credit hours of enrollment at UHCL before being required to apply to a degree-seeking program. Once a concurrent enrollment student meets general admission requirements, he or she must submit a new application for admissions and verify that all official documents have been received. The application fee is not assessed to concurrent enrollment students who reapply as degree-seeking.

*Students must be enrolled at another institution of higher education during each semester of concurrent enrollment at UHCL. A current paid fee statement from the other institution's records office must be submitted as verification of enrollment prior to registration at UHCL.

Post-baccalaureate Enrollment

Post-baccalaureate applicants (PB) have earned a bachelor's degree and are seeking to enroll in additional course work at the undergraduate level. Degree-seeking PB applicants must submit transcripts from each institution attended and may not enroll in graduate course work, except under provisions that specifically authorize undergraduate enrollment in graduate courses. PB applicants who apply in a non-degree-seeking status must submit a transcript from the last school attended as well as the school where the highest degree was earned.

Teacher Certification

Students may complete a teacher certification program, with or without earning a graduate degree. Those who plan to complete a teacher certification program, without simultaneously completing a graduate degree, should enroll in the post-baccalaureate status.

Transient Student Enrollment (non-degree-seeking)

Undergraduate students who enroll at University of Houston-Clear Lake as transients will not be required to meet the English or mathematics admission requirements. However, all other admission criteria must be met. Enrollment under this option is

limited to one semester only and transient students are not eligible to receive financial aid. In order to enroll in a second semester, transient students must submit an additional application and application fee to the Office of Admissions. Because the application fee is non-refundable, students should obtain permission from the associate dean of the appropriate academic program.

Undergraduate transient students are exempt from the TSI only if they:

- Attended another institution of higher education that is private or is located in a different state or country
- Have provided UHCL with evidence of enrollment for the immediately preceding fall or spring semester in the form of a transcript, grade report or paid fee receipt
- Are not eligible to enroll in consecutive terms
- Submit the signed "Statement of Understanding form -T"
- Enroll in a non-degree-seeking transient status

Summer Transient Student Enrollment (non-degree-seeking)

Students enrolling as transients in summer sessions must have:

- Earned a minimum of 30 semester credit hours with a cumulative grade point average of 2.0 or higher
- Met the TSI requirement by passing THEA or another appropriate assessment examination or receive an exemption of this requirement (see Texas Success Initiative)
- Eligibility to return immediately to the last institution attended

Summer Transients are limited to six semester credit hours and their eligibility terminates at the end of the summer sessions. Students who choose to become degree-seeking at University of Houston-Clear Lake must meet general admission requirements, reapply and pay a new application fee (see *Admission Requirements*).

Unilink

Unilink is a program that allows community college students to experience university life while still enrolled as freshmen or sophomores at a community college. The benefits include a signed combined community college and University of Houston-Clear Lake degree plan under the current UHCL catalog and participation in many on-campus activities. Many other benefits are outlined in the program guide. To be eligible to participate in this program students must:

1. Have completed fewer than 36 hours on all college course work, and
2. Submitted a signed Unilink agreement, which has also been signed by their community college counselor and UHCL Academic Transfer Adviser

For more information about Unilink, contact an Academic Transfer Adviser in the Office of Admissions at 281-283-2500.

READMISSION OR STATUS CHANGE PROCESS

Former UHCL Students

Former students (see *Status Descriptions*) seeking readmission after three semesters of non-enrollment should submit the following:

- A completed Admissions Application
- A non-refundable application fee (see *Application Fees*)
- Official transcript(s) of any course work completed since the last semester of enrollment at University of Houston-Clear Lake. Students who graduated from UHCL and wish to enroll in additional course work must complete a new application and submit the appropriate application fee.

Former students are required to resubmit documents from other institutions for consideration of readmission if it has been more than five years since enrollment or if those items are no longer on file.

Students who leave the university on academic probation will be readmitted on probation. A degree-seeking student whose permission to register was terminated due to an academic deficiency must be reinstated by the appropriate dean prior to readmission. Non-degree-seeking students may be reinstated by the Associate Vice President of Enrollment Management.

Changing Careers or Classifications

Enrolled students who would like to change their academic careers from undergraduate to graduate (vice versa) or who would like to change their classification from non-degree-seeking to degree-seeking, must submit a new application to the Office of Admission, pay the application fee and meet appropriate admission criteria and deadlines. Students who enroll in a degree-seeking status and wish to change to non-degree-seeking should complete an Academic Records Change (ARC) in the academic advising office of their program. This change will be processed in the Office of Academic Records.

Applicants to the university who applied to either an undergraduate or graduate career and would like to change their career can do so once without submitting a new application by completing an *Application Update Request* form. After the initial change to a different career, students are required to reapply and submit a new application fee in order to make an additional career change. Program or classification changes within the same career are allowed using the Application Update Request Form prior to the first day of classes.

STUDENT QUALIFICATION AND ASSESSMENT INFORMATION

Assessment of General Education Core Competencies

Entering undergraduates (first bachelor's degree candidates) are required to participate in an assessment of core competencies (e.g. reading, critical thinking and mathematics) developed in the general education curriculum. The test results will

provide University of Houston-Clear Lake with specific information for continuous improvement in teaching and learning.

Credit by Examination

University of Houston-Clear Lake may award college credit for Advanced Placement Examination (AP) and the College Level Examination Program (CLEP). The university will accept up to a maximum of 30 hours of credit towards a bachelor's degree. To receive AP or CLEP credit, the university must receive an official score report prior to enrollment in the corresponding college course. Credit may be awarded in transfer as long as it has been posted on the student transcripts at another regionally accredited institution of higher learning.

Lower-level credit

University of Houston-Clear Lake will accept AP or CLEP credit for the following purposes:

- To establish a student's eligibility for undergraduate admission
- To fulfill statutory and core (lower-level) academic requirements for a bachelor's degree

A list of exams acceptable at UHCL and their minimum acceptable scores can be found on the Office of Admissions' Web site.

Upper-level credit

University of Houston-Clear Lake will accept credit earned through CLEP for upper-level work, but each academic school or department at UHCL will determine whether CLEP credit can be accepted and applied toward specific degree requirements.

TESTING REQUIREMENTS

Texas Success Initiative (formerly THEA)

The Texas State Education Code requires the assessment of all students in the areas of reading, writing and mathematics skills upon their initial entry into a Texas institution of higher education. Applicants' performance on this test will affect admissibility to University of Houston-Clear Lake and all other Texas upper-level universities. To provide Texas public higher education more flexibility in developing better academic skills to assist students in being successful in college, the 78th Texas Legislature repealed the Texas Academic Skill Program (TASP) and replaced it with the Texas Success Initiative (TSI) under Texas Education Code 51.3062.

Transfer students who have attended a public institution of higher education in Texas must have completed the TSI requirement prior to enrolling in upper-level courses. Entering students, from other Texas public institutions, must have already satisfied these requirements or may have previously been exempted. Students entering from out-of-state or private institutions may satisfy the TSI requirement based on a review of specific course work as determined by the Office of Admissions. All students must meet the TSI requirement. If the THEA/TASP exam is taken, all sections must be passed prior to admission.

TSI Examinations

The approved assessment tests for TSI are: THEA (formerly TASP), ASSET, COMPASS, and ACCUPLACER examinations. The minimum passing scores for each of these tests are set by the state; however, each institution may establish its own score requirements at or above these minimums. The **minimum passing scores** are:

- **THEA:** reading = 230; mathematics = 230; writing = 220
- **ASSET:** reading skills = 41; elementary algebra = 38; writing skills (objective) = 40; essay = 6
- **COMPASS:** reading skills = 81; algebra = 39; writing skills (objective) = 59; essay = 6
- **ACCUPLACER:** reading comprehension = 78; elementary algebra = 63; sentence skills (objective) = 80; essay = 6

The minimum passing standard for the essay portions of these tests is a score of 6. However, an essay with a score of 5 is considered passing, if a student meets the objective writing test standard.

Exemptions

Students may receive an exemption from the TSI requirement through examinations, degree status or course work. They may qualify as follows:

- **SAT exemption:** Students must have a combined verbal and mathematics score of 1070 with at least 500 on both the verbal and the mathematics sections on a single test date. Scores may not be more than 5 years old at the time of exemption.
- **ACT exemption:** Students must have a composite score of 23 with at least 19 on both the English and the mathematics sections of the test on a single test date. Scores may not be more than 5 years old at the time of exemption.
- **TAKS exemption:** English/Language Arts (ELA) = 2200 with a score of 3 or higher on the written essay, plus a score of 2200 on the mathematics section (exit-level TAKS). Scores may not be more than 3 years old at the time of exemption.
- **TAAS exemption:** Students must score 1770 on the writing section; 86 on the mathematics section; and 89 on the reading section of the exam on a single test date. Scores may not be more than 3 years old at the time of exemption.
- **Degree exemption:** Students must have earned a regionally accredited associate's degree in Texas, or a baccalaureate degree from a regionally accredited US institution of higher education.
- **Course work exemption:** Transfer students from out-of-state or private schools who meet course work requirements as established by the Office of Admissions at University of Houston-Clear Lake.
- **Transient status exemption:** Students who wish to take course work for personal enrichment and are not pursuing undergraduate degrees.
- **Military service exemption:** Students serving on active duty as members of the US armed forces, the Texas National Guard, or a reserve component of the US armed forces who have served for at least 3 years preceding enrollment.

- **Prior military service exemption:** Students who were honorably discharged, retired, or released from active duty as members of the US armed forces, the Texas National Guard, or served as members of a reserve component of the US armed forces on or after August 1, 1990.

Please note that an exemption from the TSI requirement is not automatic.

Documentation of exemption qualifications are required. Applicants may be required to provide test scores, transcripts, military documents or other appropriate documents to be considered for a TSI exemption.

English Proficiency

All students, regardless of immigration status, who were educated in countries where English is not the native language must demonstrate English proficiency. These students are required to take the Test of English as a Foreign Language (TOEFL), the Pearson Test of English Academic (PTE), the International English Language Testing System (IELTS) or successfully complete an English Language program prior to admission. The intent of this policy is to insure that students for whom English is not the native language have a reasonable chance to succeed academically based on their ability to comprehend and use spoken and written English. For specific details, please refer to the *English Proficiency Requirements for Applicants Educated Outside of the United States* section of the catalog.

TRANSFER CREDIT INFORMATION

Transfer of Undergraduate Credit

As an upper-level institution, University of Houston-Clear Lake does not instruct students at the freshman or sophomore level; therefore, we cannot equate lower-level courses from other institutions to courses offered at UHCL. However, UHCL can:

- Recognize a specific number of lower-level credit as counting toward the total number of hours required for a bachelor's degree,
- Evaluate the adequacy of certain courses in providing sufficient preparation for undertaking advanced study in a desired degree plan or program, and
- Provide a 2+2 plan detailing lower and upper-level degree requirements

Transfer Credit Dispute

Transfer disputes, as defined by the Texas Higher Education Coordinating Board, may arise when a lower-level course is not accepted for credit by a Texas institution of higher education. Any dispute between institutions involving transfer of lower-level credit will be handled according to the guidelines and procedures established by the Coordinating Board. A copy of the Coordinating Board guidelines may be obtained in the Office of the Provost or online at www.uhcl.edu/provost.

Non-Traditional Credit

The Office of Admissions evaluates non-traditional learning experiences after receiving appropriate supporting credentials and petitions from students. Credit for courses taken through various non-collegiate organizations is based on recommendations from

the American Council on Education (ACE). Recognized non-traditional credit will be treated as transfer credit and may be considered for admission. In some academic degree programs, this credit may not be accepted. Previous work, because of its nature and not its inherent quality, may be inapplicable to specific degrees sought by students. This determination is made within each school.

Credit for courses taken at military service training schools is based on the recommendations made in the Guide to the Evaluation of Educational Experience in the Armed Services. Students seeking military credit should submit an official transcript from AARTS, SMART or Coast Guard.

Nontraditional credit is not accepted for graduate level work.

HB 269 Military Service Credit

HB 269 passed by the 81st Texas Legislature allows Texas universities to award course credit to undergraduate students for military service if certain requirements are met.

Eligible veterans can receive college credit for:

- All required physical education courses needed for their degrees
- Up to an additional 12 semester credit hours of general elective course work.

The credit is awarded for having served, not for any college-level courses that might have been taken while serving in the military. In order to be eligible to receive college credit for military services, students 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 U.S. Department of Defense.
- Completed a minimum of two years of service in the armed services, unless discharged because of disability.
- Been honorably discharged from the armed forces.

Additional information regarding HB 269, including the process of applying to receive military service credit, can be found at www.uhcl.edu/militarycredit.

2 + 2 Transfer Plans

University of Houston-Clear Lake has developed a series of articulation agreements with community colleges in the Houston area. Transfer plans are used to guide perspective students in choosing recommended course work at their college and aid them in transferring to UHCL. Students, who plan to attend or who are currently attending one of the following colleges, are encouraged to work closely with the counseling offices at these institutions as they prepare to transfer. 2 + 2 Transfer Plans may be obtained at each of these locations:

Alvin Community College	Brazosport College	College of the Mainland
Galveston College	Houston Community College	Kingwood College
Lee College	Montgomery College	Lone Star College
Pearland College Center	San Jacinto College - Central	San Jacinto College - North
San Jacinto College - South	Tomball College	Wharton County Junior College

INTERNATIONAL ADMISSIONS

Application Deadlines

The Application Deadline dates for international applicants are as follows:

Spring	October 1
Summer	March 1
Fall	June 1

Applying for Admission

Undergraduate international students must meet general admission requirements as noted in this catalog (see Admissions Requirements) and must also submit the following:

1. An International Undergraduate or Post-baccalaureate Application for Admission
2. A non-refundable \$75 application fee
3. An official TOEFL, PTE or IELTS score report meeting minimum score requirements or official documentation of completion of ELS Level 112 Intensive English Language Program (see *English Proficiency Requirements for Students Education Outside of the United States*).
4. A signed Sponsor's Affidavit
5. A signed Statement of Understanding
6. An International Student Adviser's Report (if currently attending an institution in the U.S.)
7. A copy of a current I-94 and SEVIS I-20 record (pages 1 and 3), if available

Please note: International students submitting foreign documents must follow UHCL procedures for the submission of this documentation (see *Documentation for Admission from International Institutions*)

Non-degree-seeking Status

International students, holding F-1 visas are not eligible to apply for admission in a non-degree-seeking status. They must apply as degree-seeking students to a specified degree program.

Transfer-In Policy

Students who hold F-1 visas and are currently studying at another SEVIS approved institution of higher education in the United States must do the following:

- Be admitted by the University of Houston-Clear Lake
- Notify the "transfer-out" school of their intent to transfer by completing a transfer form
- Submit letter of acceptance to the "transfer-out" school. The "transfer-out" school must then release the SEVIS record to UHCL prior to the student receiving eligibility for enrollment.

International Conditional Admission

International students who meet the institution's admission requirements for their chosen degree program, but who have not yet met the English Proficiency requirement, can be conditionally admitted. To satisfy the English Proficiency requirement and be fully admitted to the university, the student must enroll in and successfully complete an ELS Level 112 intensive English program or otherwise demonstrate proficiency of English (see *English Proficiency Requirements for Students Educated Outside of the United States*).

Co-Enrollment (International Students)

International students seeking undergraduate degrees at University of Houston-Clear Lake may obtain an International Student Adviser's permission to co-enroll at another institution. A concurrent enrollment form must be obtained from a UHCL international adviser prior to registration in the appropriate school/department of concurrent enrollment. Proof of payment for concurrent enrollment at another institution of higher education must be provided to a UHCL international student adviser for the current semester.

Undergraduate applicants who lack no more than nine semester credit hours of lower-level core curriculum or foundation courses may transfer to UHCL. These students may co-enroll at UHCL and another institution to complete the lower-level core or foundation requirements. In all cases, students must maintain full-time status and must enroll for at least three semester credit hours at UHCL. The Department of Homeland Security stipulates that no more than three credit hours of online courses per semester may be counted toward full-time enrollment for F and J student visa holders.

English Proficiency Requirements for Students Educated Outside of the United States

All applicants, regardless of immigration status, who were educated in countries where English is not the native language must demonstrate English proficiency. The intent of this policy is to ensure that students, for whom English is not the native language, have a reasonable chance to succeed academically based on their ability to comprehend and use spoken and written English.

Applicants may satisfy the English proficiency requirement by presenting:

- An official Test of English as a Foreign Language (TOEFL) score. Minimum acceptable scores are 550 on the written exam or 79 on the iBT TOEFL examination,
- An official Pearson Test of English Academic (PTE) score of 53 or higher,
- An official International English Language Testing System (IELTS) score of 6.0 or higher, or
- Official documentation of successful completion of the ELS Level 112 Intensive English program

Score reports may not be more than two years old at the time of admission. Only official scores will be accepted.

Procedure to Apply for English Proficiency Waiver

A TOEFL exemption may apply, if at least one of the following requirements is met:

- Applicants have earned a high school diploma from a US high school or earned an associate's, baccalaureate or higher degree from a regionally accredited US institution of higher education.*
- Applicants were born or educated in a country where English is the native language. This exemption refers to students from Australia, the Bahamas, Belize, the British Isles (England, Ireland, Scotland, and Wales), English-speaking Canadian provinces, Fiji Islands, Guyana, Jamaica, Liberia, New Zealand, Sierra Leone, South Africa, St. Lucia, Trinidad, United States, Virgin Islands, West Indies and Zimbabwe.*
- Applicants present a qualifying test score from SAT, ACT, ASSET, ACCUPLACER, COMPASS, TAAS, THEA/TASP and Stanford Achievement Tests (for deaf students only). Specific exemption information can be obtained by contacting the Office of Admissions. All information used to exempt students from TOEFL requirements must be official and received directly from the appropriate testing agency or posted on an official transcript from a transfer institution.
- Applicants have completed 12 or more semester credit hours of English from a regionally accredited US institution of higher education with grades of "C" or better, with six of the 12 semester credit hours being English composition. English as a Second Language (ESL) courses will count only if they would apply toward a degree at the institution where the courses were taken.

*Applied Science Degrees are not used to waive the English Proficiency Requirement. Applicants whose native language is not English, but who has earned a bachelor's degree or higher from an English-speaking country, may request consideration for a TOEFL waiver. Applicants requesting a waiver of the TOEFL or IELTS examination must submit a petition in writing, with supporting documentation, to the Office of Admissions a minimum of 30 days prior to the term in which they wish to enroll. The appropriate action will be taken only when full documentation is provided.

Health Insurance

All international students holding F or J visas are required to have health insurance, including medical evacuation and repatriation coverage. The university provides such insurance and automatically adds the premium to applicable tuition/fee statements. International students with private health insurance comparable to the university's coverage may request a waiver of the university's health insurance.

Students may provide coverage information by US mail, e-mail or fax to the attention of International Admissions. Health insurance waiver requests will be accepted until the census date, which is the 12th class day in spring and fall semesters and the fourth class date in regular summer terms. Requests for waivers or refunds after the census day will not be considered.

Check-In

All international students holding F and J visas are required to meet with their international student adviser upon arrival to campus. Students must bring their passport, visa, I-94, I-20 or DS-2019 and official copies of all transcripts and other academic documents showing degree completion and final semester course work. Students should check the Office of Admissions' Web site for dates and times of check-in.

UNIVERSITY POLICY REGARDING DISCRETIONARY AUTHORITY

The university reserves the right to reject applicants whose record does not indicate potential success at University of Houston-Clear Lake, notwithstanding the completion of other requirements. The university also reserves the right to further evaluate applicants by using psychological, achievement and/or aptitude tests and personal interviews. Additionally, the university reserves the right to reject applicants who falsify information submitted for admission consideration or used to determine admissibility to the university. Readmission may be denied to former students who have falsified university documents or who have used a university official's signature inappropriately, for personal benefit or gain.

ACADEMIC ADVISING

University of Houston-Clear Lake is committed to providing the most appropriate and effective academic direction, assistance and support for all students. At UHCL, the function of academic advising is provided directly through the four schools: Human Sciences and Humanities, Science and Computer Engineering, Business and Education. Matters affecting degree requirements and graduation are best handled by professional advising staff and faculty working directly within individual academic areas. Each school within UHCL has developed unique advising procedures to best serve the needs of its students. The relationship between students and advisers provide the opportunity to learn more about educational choices and objectives, degree requirements, academic policies and procedures and university resources. All students are strongly urged to contact their academic adviser prior to registering for their first semester at UHCL.

Ultimately, students are responsible for seeking adequate academic advice, knowing and following degree requirements, noting and meeting important academic deadlines, and enrolling in appropriate courses to ensure timely progress toward a degree. A successful academic experience hinges on the partnership and communication shared by the students and advisers.

What to expect from advisers:

1. Evaluation of students transcripts
2. Adequate office hours and availability throughout the semester
3. Assistance with registration course selections
4. Accurate information regarding degree requirements and degree plans
5. Assistance with evaluation of syllabi/course descriptions to determine acceptability of transfer course work

6. Accurate audit of a CPS, upon request, to determine the students progress toward graduation
7. Assistance identifying solutions to academic difficulties
8. Helpful referral to other university resources for additional assistance
9. Appropriate confidentiality
10. Respect, support and encouragement

What is expected of students:

1. Attend New Student Orientation
2. Learn their advisers and the location of the advising office
3. Contact the adviser before deviating from requirements specified on the prepared degree plan
4. Contact the adviser for assistance BEFORE the issue becomes urgent
5. Keep track of academic progress and degree plan each semester
6. Know university and school requirements and policies that may affect you
7. Learn about and make use of all resources on campus
8. Keep scheduled appointments
9. Follow through on adviser recommendations
10. Be responsible for planning course of study and fulfilling all requirements and procedures
11. Accept ultimate responsibility for personal decisions and actions
12. Respect and comply with deadlines and requests for needed academic documents

How to Prepare for a Meeting with an Adviser:

1. Check to make sure the adviser will be available
2. Bring an up-to-date degree plan
3. Have a list of questions and/or concerns so time can be used judiciously
4. Remind the adviser of previous discussions

Become familiar with the advising process in the chosen school. Make sure the adviser has your most current contact information. Plan ahead and ask questions so that academic progress, decision-making and attainment of the university degree can be achieved with utmost success.

ADVISING OFFICES

Bayou Building

	Room	Phone	E-mail
School of Business	B2111	281-283-3110	busadvoff@uhcl.edu
School of Education	B1231	281-283-3600	education@uhcl.edu
School of Human Sciences and Humanities	B1539	281-283-3333	hshadvising@uhcl.edu
School of Science and Computer Engineering	B3611	281-283-3711	SCEAdvising@uhcl.edu
Distance & Off-Campus Education	B1406*	281-283-3031	disted@uhcl.edu

Student Services and Classroom Building

Career and Counseling Services S3109 281 283-2590
(for non-degree-seeking students)
www.uhcl.edu/careerservices

*for more information go to www.uhcl.edu/disted



The Neumann Library provides valuable electronic and print resources to help with the research and scholastic needs of students, faculty and staff.





UHCL provides many opportunities and financial aid packages to assist students in making their educational goals become reality.



FINANCIAL AID

- Financial Aid
- Scholarships
- Veterans Benefits
- Vocational Rehabilitation

FINANCIAL AID PROGRAMS

The financial aid programs listed below are available to students seeking an undergraduate degree at University of Houston-Clear Lake. Students who wish to apply for financial aid should complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.ed.gov. More information regarding the types of aid listed below can be found at www.uhcl.edu/finaid.

Program

- Federal Pell Grant
- Federal Supplemental Education Opportunity Grant (FSEOG)
- Federal SMART Grant
- Federal TEACH Grant
- Texas Public Educational Grant (TPEG)
- TEXAS Grant
- Texas Top 10% Scholarship
- University Administered Scholarships
- Automatic Transfer Scholarships
- Certified Educational Aides Exemption Program
- Fifth Year Accounting Scholarship
- Resident Undergraduate Student Assistance Grant
- Federal College Work Study Program (FWSP)
- Texas College Work Study Program (TWSP)
- Federal Perkins Loan
- *Federal Direct Subsidized Stafford Loan
- Texas College Access Loan
- Texas B-On-Time Loan
- Federal Direct Parent Loan for Undergraduate Student (PLUS) Loan
- *Federal Direct Unsubsidized Stafford Loan
- Short Term Loans

*All students applying for their first Federal Direct Loan at UHCL must complete entrance loan counseling at www.dl.ed.gov before loan funds can be disbursed.

QUALIFYING FOR FINANCIAL AID PROGRAMS

Students must meet these minimum requirements:

- Be a U.S. citizen, U.S. national (includes natives of American Samoa or Swain's Island) or U.S. permanent resident who has an I-151, I-551 or I-551C (Permanent Resident Card)
- Be admitted to a degree-seeking undergraduate program
- Be enrolled at least half-time at UHCL (Pell grants may be awarded to students enrolled less than half time)
- Be making satisfactory academic progress toward a degree or certification
- Not be in default on any education loan or owe a refund on a federal or state grant
- Be registered with Selective Service System, if male.

APPLYING FOR FINANCIAL AID

Because regulations governing financial aid change each year, students are required to reapply and submit new documentation annually. Funding sources and requirements change from year to year, and the amount and type of aid awarded to students may also change. All financial aid applicants are required to submit the following:

- 2010-2011 Free Application for Federal Student Aid (FAFSA) available online at www.fafsa.ed.gov.
- If the FAFSA is selected for verification, signed copies of the student's 2009 Federal Income Tax and 2009 W-2 forms will be requested (along with those of spouse and/or parent, when available).

Priority deadline is April 1 of each year. Students applying after April 1 can expect certain types of grant money to be exhausted.

AWARDING OF AID

Financial aid is awarded based on the information received on the FAFSA. It is our institutional policy to award available grant, scholarship, and work study funds before considering the student for student loans.

Financial aid is awarded based on enrollment projections on the applicant's FAFSA. Therefore, eligibility and enrollment must be verified before funds are disbursed to each student's account at the beginning of each semester.

Enrollment must again be verified after classes begin. Awards that are processed after the semester begins are based on the actual number of hours in which students are enrolled, excluding hours of withdrawal.

Students whose files are incomplete should be prepared to pay for their tuition, fees, books and supplies at the time of registration. Financial aid will not be awarded until all financial aid documents have been received and admission requirements have been met.

E-MAIL AS OFFICIAL COMMUNICATION

The Office of Student Financial Aid will notify students regarding information needed, awards offered, etc. via e-mail. Students should check their UHCL e-mail

accounts regularly to receive information from the Office of Student Financial Aid as well as other university offices. For information regarding UHCL e-mail, or to log in, go to <http://webmail.uhcl.edu>.

Students have the ability to forward their UHCL e-mail account to a preferred e-mail account. Students interested in this option should visit University Computing and Telecommunications' website at www.uhcl.edu/uct.

DISBURSEMENT OF FUNDS

Financial aid disbursements begin approximately 10 days prior to the first class day. In some cases, financial aid disbursements may occur after the fee payment deadline. Any student who has anticipated aid showing on their student account in E-Services does not need to make payment arrangements for the fee payment deadline if the anticipated aid will pay their account balance in full. Students whose accounts will be paid in full with anticipated aid will not be charged late fees or dropped for non-payment.

If the financial aid credited to a student's account creates a credit balance, a refund will be issued to the student by the Office of the Cashier after the term begins.

Some forms of financial aid, such as TEACH Grant, SMART Grant, and TEXAS Grant, may not disburse until after census date. Students concerned about a late payment due to these types of anticipated aid should contact the Office of Student Financial Aid.

The Office of Student Financial Aid will notify students by e-mail when their financial aid is applied to their account.

CRITERIA FOR SATISFACTORY ACADEMIC PROGRESS

Under federal and state statutes all students applying for or receiving federal or state financial assistance must be making satisfactory academic progress (SAP) toward a degree or certification. The Office of Student Financial Aid also uses this requirement for awarding institutional funds.

Review for SAP is done at the time the student first applies for financial aid and after that on a yearly basis. However, SAP is calculated at the end of each semester for students who have previously been on financial aid probation or have previously not met SAP. SAP is based on the following qualitative and quantitative measures:

Grade Point Average

- The qualitative measure requires that undergraduates and students working on a second bachelor's or teacher certification need to have maintained a cumulative Grade Point Average (GPA) of 2.000 or better.

Completion Ratio

- The quantitative measure requires that students must have completed 75% of their cumulative attempted UHCL course work. This percentage is derived by dividing the total number of UHCL hours completed by the total number of UHCL hours

attempted. Attempted hours are the total number of hours completed plus hours of "WX", "WQ", "I", "F", and "IP". The percentage derived must be 75% or greater.

Timeframe to Complete Academic Program

- First bachelor's or teacher certification without a bachelor's degree: within a total of 171 hours (including transfer hours).
- Second bachelor's or teacher certification with a bachelor's degree: time determined by students Candidate Plan of Study or Certification Plan.

Note: Students changing plans are still held to timeframes originally begun with the first major chosen. However, if students require additional time for completion of the new plan, they can petition the Office of Student Financial Aid for review of extended time. Also, the Office of Student Financial Aid may extend the timeframe for students who are enrolled in particularly long programs of study if requested by the student. (Student must provide a Candidate Plan of Study with the extension request).

Appeal Process for Denial Based on Unsatisfactory Progress

Students who fail to meet the grade point average requirement or the completion ratio requirement will be placed on "financial aid probation" for the following semester. Students will be notified via UHCL e-mail of their probationary status. If students fail to meet SAP the following semester, they will not be eligible to receive financial aid unless they complete an SAP appeal and that appeal is approved.

Students who fail to meet the timeframe requirement are not granted an automatic probationary status and will not be eligible to receive financial aid unless they complete an SAP appeal and that appeal is approved.

Appeals are considered for the following reasons:

- Increase in workload at place of employment because of promotion or overtime. Documentation from the employer on employer's letterhead is required.
- Personal illness or serious illness of immediate family members such as spouse, child, parent or sibling. Documentation from the physician on physician's letterhead is required.
- Mitigating circumstances. Appropriate support documentation is required pertaining to individual circumstances. Each appeal is reviewed on its own merit.

Appeal forms are available online at www.uhcl.edu/finaid under Online Forms and Services and must contain the following:

- Why the GPA is below the minimum requirement and how the student plans to bring the GPA up to the minimum requirement.
- Explanation of withdrawal from courses or the reason for not completing the courses, the number of courses or semesters required to complete the degree, and how this will be accomplished.

Appeal forms must be submitted to the Office of Student Financial Aid by the census date each semester. (Appeals received after this date may be reviewed at the discretion of the SAP Committee). Supporting letters must be typed with documentation attached plus a copy of the student's Candidate Plan of Study. Letters must contain the student's

name, student ID number, number of semesters or credit hours needed to complete degree requirements, the degree objective and the explanation for the unsatisfactory academic progress. Appeals not meeting this format will be returned to the student without consideration. The SAP Committee will review all appeals at least twice a month. All decisions reached by the SAP Committee are final. Students will be notified via e-mail regarding the outcome of their appeal.

FINANCIAL AID POLICY FOR STUDENTS WITHDRAWING FROM THE UNIVERSITY

Students who receive financial aid and completely withdraw from the university must repay all or part of their financial aid according to the policy explained below.

Financial aid recipients who receive federal student aid who withdraw on or before the 60% point in time of the semester enrolled will have the percentage and amount of Title IV unearned assistance calculated by the university. The unearned funds must be returned to the Title IV programs. The federal formula used to determine the less than 60% portion of enrollment requires that the number of the calendar days in the period of enrollment for which the assistance is awarded be divided into the number of calendar days completed in that period as of the day the student withdrew. The Office of Student Financial Aid will then determine the amount of money to be returned.

Refund Distribution Priority

Refunds will be applied to the funds received by the student in the following priority:

- Federal Direct Loan Program (DL) - Unsubsidized Stafford Loan
- Federal Direct Loan Program (DL) - Subsidized Stafford Loan
- Federal Perkins Loan
- Federal Direct Loan Program (DL) - PLUS Loan
- Federal Pell Grant
- Federal SMART Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal TEACH Grant
- Other Title IV programs

DROPPING FROM A CLASS BUT RETAINING HALF-TIME STATUS

Financial aid awards are based on the number of hours indicated on the student's FAFSA. Students who change their enrollment status prior to census day will have their awards reevaluated based on their actual enrollment. Students who received funds based on the original enrollment status will be required to make repayment of the appropriate funds.

Students who reduce their course load after census day but remain enrolled at UHCL at least half-time will not have their financial aid adjusted and will not owe a refund.

However, dropped courses are considered in the ratio calculation used to determine satisfactory academic progress.

COLLEGE WORK STUDY

Students awarded a college work-study (CWS) job as part of their financial aid package work on or off campus for up to 20 hours per week and are paid on a biweekly basis. Students who are awarded CWS will receive an e-mail with available jobs. After reviewing the position descriptions, students can apply for jobs online.

EXIT INTERVIEW

When Stafford or Perkins loan recipients complete a degree or drop below half-time, federal statutes require those students to have an exit interview to clarify and establish a repayment schedule on any monies owed. Students' academic records may be encumbered if the student borrower does not complete an exit interview.

Stafford exit interviews are completed online at www.dl.ed.gov. Perkins exit interviews may be scheduled through the Cashier's Office.

SCHOLARSHIPS

The Office of Student Financial Aid is committed to awarding scholarships to students consistent with the educational mission of our university. UHCL offers automatic transfer scholarships to new undergraduate students who meet certain GPA requirements. Additionally, UHCL offers scholarship opportunities to other new students and to continuing students. For additional information, please visit www.uhcl.edu/scholarships.

Automatic Transfer Scholarship

Eligibility

- Be admitted as a first-time undergraduate student at UHCL, eligible for in-state tuition
- Transfer GPA of 2.75 or higher on 4.00 scale
- Enroll in at least 9 credit hours each semester of the scholarship award

Awards

- \$1000 paid at \$500/semester for fall/spring semesters
 - Requires 3.00 or higher transfer GPA
 - Renewable for an additional 2 consecutive fall/spring semesters if UHCL cumulative GPA is at least 3.00 and 18 credit hours were earned during each academic year
- \$800 paid at \$400/semester for fall/spring semesters
 - Requires 2.75-2.99 transfer GPA
 - Renewable for an additional 2 consecutive fall/spring semesters if your cumulative GPA is at least 2.75 and 18 credit hours were earned during an academic year

VETERANS AFFAIRS

To be certified for VA educational benefits veterans must be accepted for admission at UHCL and submit the following:

- UHCL Application for VA Educational Benefits Certification
- Candidate Plan of Study (CPS) (degree plan)
- VA form 22-1990 or 22-1995 (Application for VA Benefits or Request of Change of Degree/Place of Training)
- DD214, Member 4 Copy
- Copy of Military Transcripts

Veterans must notify the Office of Student Financial Aid of any change in course load throughout each semester.

SATISFACTORY ACADEMIC PROGRESS

Satisfactory academic progress for veterans receiving VA educational benefits is defined by VA. Undergraduates must maintain a cumulative GPA of 2.000.

Veterans failing to achieve the required cumulative GPA will be placed on probation for one semester. At the end of the probationary semester, veterans who:

- Have not achieved the required semester GPA will be reported to VA as making unsatisfactory academic progress.
- Have achieved the required semester GPA but not the required cumulative GPA will be allowed a second probationary semester.
- Have not achieved the required cumulative GPA at the end of the second probationary semester will be reported to VA as making unsatisfactory academic progress.

HAZLEWOOD ACT

The Hazlewood Act passed by the Texas legislature provides for a waiver of tuition and certain fees for Texas veterans. A veteran may qualify for benefits under Hazlewood Act if he or she:

- Was a Texas resident at the time of entry into the armed forces of the United States.
- Served at least 181 consecutive days of active military duty (calculated as the sum items in 12(c) and 12(d) on Member 4 copy of the DD214) not including training days.
- Received an honorable discharge, a general discharge under honorable conditions, or an honorable release from active duty.
- Has resided in Texas for at least 12 months or otherwise meets the state requirements for being considered a resident of Texas at the time of enrollment at UHCL.
- Has attempted fewer than 150 credit hours of college courses since fall 1995 using the Hazlewood exemption.
- Is not in default on any educational loans made or guaranteed by the State of Texas.
- Completes a required statewide application for Hazlewood exemption from Texas Higher Education Coordination Board before the census date of each semester.

Hazlewood benefits are not transferred from one state university to another. Veterans must reapply and provide UHCL with all necessary documents, including a completed Hazlewood Application (available at www.uhcl.edu/finaid under Online Forms and Services), a DD-214 (Honorable discharge, Home of Record, and six months of service must appear on DD-214) and a letter from VA stating all VA Benefits have been exhausted (unless the veteran has been out of the military for more than 10 years).

The Legacy Act allow veterans eligible for the Hazlewood Act to transfer unused Hazlewood hours to an eligible child. Eligible children are the biological child, stepchild, or adoptive child of a veteran that are:

- Claimed on the veteran's federal income tax return
- A resident of Texas
- Making satisfactory progress toward degree completion
- 25 years of age or younger, unless the child provides documentation from a physician indicating he or she suffered from a severe illness or other debilitating condition which prevented the child from using the exemption before the age of 25.

Students interested in using this benefit should contact the Office of Student Financial Aid for application instructions.

HAZLEWOOD EXEMPTION DEADLINE

If the student provides his or her eligibility for the Hazlewood Exemption before the census date of each semester, then the institution must honor the waiver. But, all students must turn in a statewide Hazlewood application to their institution by the census date; all other supporting documentation can have extensions on them. UHCL will not honor Hazlewood requests after the census date. Hazlewood exemptions are not retroactive to prior terms.

VOCATIONAL REHABILITATION

The Texas Department of Assistive and Rehabilitative Services (DARS) offers assistance for tuition and required fees to students having certain physical or emotional disabilities, provided vocational objectives selected by the individuals with disabilities have been approved by appropriate representatives of DARS. Through this state agency, other rehabilitation services are available to assist persons with disabilities to become employable. Applications for assistance should be made to the nearest DARS office.



Students applying for financial aid can complete the process entirely online.





Students can conveniently use E-Services to access records and registration information, even by the pool.



REGISTRATION AND RECORDS SERVICES

- Registration
- Tuition & Fees
- Academic Record Services

REGISTRATION

Enrollment is necessary for every period of attendance at University of Houston-Clear Lake. The Office of Academic Records sends announcements to specify times and places and give other instructions for completing the enrollment process. Registration assistance and Academic Records forms may be obtained from the Student Assistance Center, suite 1.102, Student Services and Classroom Building, or by accessing www.uhcl.edu/records. Registration is not complete until tuition and fees have been paid in full. If tuition and fee payments are not received by stated deadlines, payment will be considered late. Questions regarding registration should be directed to the Office of Academic Records.

AVAILABILITY OF COURSES

The university does not guarantee that courses listed in this catalog will be offered in any given term or year. Registration for a particular section will be permitted only until available classroom space has been filled.

The university also reserves the right to cancel any course or section which, according to state policies, enrollment is insufficient to split classes that are over-enrolled and to change the instructor and/or classroom without advance notice.

DEGREE-SEEKING VERSUS NON-DEGREE-SEEKING STATUS

- Degree-seeking students must select courses complying with provisions of their Candidate Plan of Study (CPS). Undergraduate degree-seeking students are restricted to courses on the undergraduate level, designated by course numbers in the 3000 and 4000 range, unless they are within six hours of graduation, meet all other requirements as stated in the Undergraduate Enrollment in Graduate Courses section of the catalog and meet the specific requirements of the school in which the course is offered. The university is under no obligation to recognize courses taken prior to approval of a CPS, as applicable to any degree.
- Non-degree-seeking students may register for courses on a space available basis. Several programs, however, restrict availability of classes to degree-seeking students. Contact the advising office in each school for additional information. Undergraduate non-degree-seeking students are restricted to courses at the 3000 or 4000 level. The university is under no obligation to recognize credits earned by non-degree-seeking students as applicable to any degree. Non-degree-seeking students are subject to the university's academic standards and do not differ from degree-seeking students in regard to the requirements of any other university policies.

- Transient students are classified as non-degree-seeking students and have the same registration restrictions as non-degree students. Additionally, transient students are admitted to the university for one semester of enrollment only.

LATE REGISTRATION

Final schedule revisions (drop/add) and late registration will be permitted during the first week of classes of a long semester. The late registration and drop/add period for the Summer terms is less than one week. Times and dates will be announced by the Office of Academic Records. No registrations or schedule changes will be permitted after Late Registration. A late registration fee will be charged to students who register during late registration date. Students who have not paid by the payment deadline date will be charged a late payment fee.

CANCELLATION OF REGISTRATION

Students may cancel their registration and be entitled to a full refund of tuition and refundable fees if they follow proper procedures through the Office of Academic Records before the first class day of the term. (Refer to the Refund Policies section of this catalog.) Requests for cancellations may be done through E-Services or in writing and received by the Office of Academic Records prior to the first class day of the term. Such notices may be faxed to the office at 281-283-2530.

REGISTRATION DISCREPANCIES

If students become aware of registration discrepancies, (i.e., they are not listed on the official class roster or their class schedules do not reflect the classes being attended), they must contact the Office of Academic Records in order to correct any discrepancies. Only the Office of Academic Records is authorized to make official changes in students' registration status.

CLASS ENROLLMENT

Enrollment in a class is achieved only through proper registration or schedule revision procedures. Instructors receive students' names only by official notice from the Registrar. Students will not receive credit for courses for which they are not registered. Students are responsible for insuring that they have met any prerequisites prior to enrolling in any course. International students (F and J student visa holders) are limited to three credit hours, per semester, of online coursework that may be counted toward full-time enrollment per the Department of Homeland Security. The UHCL catalog provides a complete listing of courses with descriptions that include prerequisites. Course prerequisites are also shown in the class schedule. Students who enroll for courses without having met the prerequisites will be dropped from the course.

CENSUS DATE

As defined by the Texas Higher Education Coordinating Board (THECB), the census date is the date for official enrollment reporting. For long semesters (fall and spring) the census date is the 12th class day for regular sessions and is adjusted in accordance with THECB rules for all other sessions. The census date is the last day to drop without a record and the last day to request a change on residency status for that semester. Official verifications of enrollment for a semester will begin on the day following the census date.

TIME CONFLICT ENROLLMENT

Students are not permitted to enroll in two different courses that are scheduled to meet at the same or overlapping times.

AUDITING COURSES

Application forms to audit a course may be obtained from the appropriate associate dean's office. Registration to audit a course is on a space-available basis. Individuals may be given permission to audit courses only after the conclusion of the regular registration period and the determination that the student is eligible and space is available. Auditing status provides the privilege of class attendance only and does not include taking examinations, submitting papers, participating in laboratories, field work or receiving a grade in the course. Individuals auditing courses will pay the regular tuition, student services fees, specific course fees and other applicable fees indicated in this catalog. Individuals with audit status will not be given credit status after having registered on an audit basis. Records of individuals who have audited courses will not be maintained by the university.

Fee Waiver for Senior Citizens to Audit Courses

As provided in the Texas Education Code senior citizens, 65 years of age or older, may audit, on a space-available basis, any course offered without payment of tuition or fees. Applicants need to provide evidence of age to the Cashier when requesting waiver of fees.

The Office of Academic Records, suite 1.101, Student Services and Classroom Building, will be responsible for assisting senior citizens to determine course availability, approval of instructor, registration procedures and general auditing regulations.

TUITION AND FEES

The tuition and fee information provided is not intended to be comprehensive and is subject to change pending action taken by the Texas Legislature or University of Houston Board of Regents. Changes become effective on the date of enactment. The following information should be used only as a guide for estimating tuition and fee charges.

DEFINITIONS AND REGULATIONS

Students are responsible for knowing the current financial regulations of the university. Current regulations are applicable to all students regardless of the date of enrollment. Interpretation or explanations contrary to the regulations of this catalog are not binding upon the university. The university reserves the right to modify any statement as required by unforeseen conditions or by legislative actions.

TUITION

Students are assessed tuition according to residence classification and the number of semester credit hours for which they register, subject to the statutory provisions of House Bill No. 43, 62 Legislature:

- Residents of Texas will be charged tuition at the rate of \$50 per semester credit hour for students.
- Non-residents of Texas and foreign students will be charged tuition at the rate of \$360 per semester credit hour for students.

An alien who has been lawfully admitted for permanent residence in the United States shall be considered for residency based on the same regulations in effect for U.S. citizens. Aliens who are present in the United States on a temporary or student visa shall not be eligible for classification as residents.

Tuition Residence Regulations and Appeals

It is important for students to know whether they will be classified as residents of the state of Texas. Students who do not qualify as bona fide residents at the time they register must pay the non-resident tuition fee.

An official determination of the residence status of students is made in the Office of Admissions at the time the application for admission and support documents are received. If students expect a change in residence status prior to first registration, this should be indicated on the application. If a change in residence status occurs after submitting the application, students must inform the Office of Admissions. Students have a continuing responsibility to register under and to maintain the correct residence classification.

If there is any question concerning eligibility for classification as a resident of Texas at the time of registration, or any time thereafter, it is the responsibility of students to consult with the Office of Admissions. All requests for reclassification should be submitted at least 30 days prior to the registration period in question, but no later than the census date. Requests or documents received after the census date of a given semester will be considered for the next semester.

Students who believe they have been misclassified may petition the Office of Admissions for reclassification. Students may be required to furnish evidence in support of an appeal.

Credit Hour Maximum and Tuition Charges

The 76th and 79th Texas Legislature amended the Texas Education Code to limit the number of semester credit hours per undergraduate students that institutions may submit for state funding. The House Bills limits the semester credit hours attempted by certain undergraduate students beyond their state approved degree plan. Students who were first-time freshman between fall 1999 and summer 2006 are limited to 45 semester credit hours in excess of the credit hours required to complete their degree plan. Students who were first-time freshman beginning fall 2007 or subsequent terms are limited to 30 semester credit hours in excess of the credit hours required to complete their degree plan. If a student has been enrolled as an undergraduate student in any public or private institution of higher education during any term prior to the 1999 fall semester, the student's credit hours are exempt. Semester credit hours generated by non-resident students paying tuition at the rate provided for Texas residents are subject to the same limitations as hours generated by resident students. Students who are in violation of the limitations set by this law will be subject to a tuition rate sufficient for the university to cover the student's educational costs.

General Residency Requirements

Summarized below are the general rules for meeting eligibility requirements in the state of Texas. Exceptions to these rules for military personnel, teachers of higher education and their dependents, scholarship recipients and other special programs are discussed in an online booklet titled "Rules and Regulations for Determining Residence Status" published annually by the Texas Higher Education Coordinating Board. The information may be viewed online through www.collegeforalltexas.com in the Get All The Facts section.

Residence of a Minor or Dependent: An individual who is 18 years of age or under or is a dependent and whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a non-resident student regardless of whether he/she has become the legal ward of residents of Texas or has been adopted by residents of Texas while he/she is attending an educational institution in Texas, or within a 12-month period before attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student. The legal residence of minors or dependent children is usually that of the parent with whom the individual spends the principal amount of time. Upon divorce of parents, residency is based on the residence of the parent who has legal custody or has claimed the minor for federal income tax purposes both at the time of enrollment and for the tax year preceding enrollment.

Individuals over 18: An individual who is 18 years of age or older, who is a legal U.S. permanent resident, who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he/she continues to maintain a legal residence in Texas. If such 12-month residence, however, can be shown not to have been for the purpose of establishing legal residence in the state but to have been for some other purpose, the individual is not entitled to be classified as a resident. A student enrolling in an institution of higher education prior to having resided in the state for 12

months immediately preceding time of enrollment will be classified as non-resident for tuition purposes.

FEES

Student Service Fee

The Student Service Fee, as authorized by state law, is required of all students. The income from this fee supports recreational activities, health and hospital services, artist and lecture series, cultural entertainment series, student publications, student government and other student services as authorized by state law.

Tuition Designated Fee

The Tuition Designated Fee is required of all students, graduate or undergraduate, resident or nonresident, enrolling in higher education institutions. As authorized by state law House Bill 3015 in the 78th Legislature in 2003, the university governing boards have been authorized the flexibility to "charge any student an amount designated as tuition that the governing board considers necessary for the effective operation of the institution."

Parking Fee

A Parking Fee of \$75 for an annual permit, or \$40 for each fall and each spring, and \$25 for the summer semester, will be assessed to students who operate motor vehicles on the campus or on properties leased by the university. Proof of ownership (current license receipts or titles for the vehicles) may be required. Refer to the Parking and Traffic Regulations issued by the University Police Department for additional information.

Any vehicle not having a valid UHCL permit will be ticketed unless special arrangements have been made with University Police to park on campus without such permit.

Lost or stolen parking permits must be reported to the University Police immediately so that a replacement permit may be issued. There is no charge for the first replacement permit, but an administrative fee or replacement of second and subsequent permits may be charged.

Computing Fee

The proceeds from the Computing Fee shall be used to provide students with access to computing facilities for activities and uses that are part of regularly scheduled academic functions of the university, and which are related to instructional activities, lectures, homework projects and provisions of the learning environment.

Extended Access and Support Fee

The University of Houston Board of Regents has authorized the UH System universities to charge a fee to support Distance Education and Off-Campus Instructional programs. The revenue from the Extended Access and Support Fee will support these programs, including Web-enhanced, Web-based courses, and

marketing. The charge will be \$6 per credit hour, up to a maximum of \$54 per semester for all students registering for classes.

Publication and Transcript Fee

A Publication and Transcript Fee of \$15 is required of all students to cover the costs of university publications (Quick Reference Guide, catalogs, etc.) and reproduction of transcripts.

E-Services Fee

An E-Services Fee of \$13 is required of all students to cover the costs of maintaining online and telephone registration and other voice response registration system components.

Student Center Fee

A fee charged for the sole purpose of financing, constructing, operating, maintaining and improving a student center for UHCL. This fee will pay for expanded student organizational space, more informal space for students (i.e., lounges, study rooms, gathering spaces), multifunctional space, space for meditation, recreational/exercise facilities, maintenance and operation of the new building and renovations to existing spaces.

Designated Differential Tuition

The Designated Differential Tuition (DDT) is charged separately by the schools in order to improve and enhance resources available to students.

The School of Business uses its DDT to hire a minimum of four full-time tenure-track faculty in the school. These new faculty will facilitate the school in meeting the faculty sufficiency standards for AACSB International accreditation.

The School of Human Sciences and Humanities uses its DDT to increase and improve resources available by hiring more full-time faculty and improving the instruction of adjunct faculty.

The School of Education uses its DDT to maintain and improve programs by hiring additional faculty and providing student financial support.

The School of Science and Computer Engineering uses its DDT to hire more full-time faculty and teaching assistants and to buy and maintain state of the art equipment for use in labs and classrooms.

Tuition Recovery Fee

Undergraduate students, who were first-time freshman between fall 1999 and summer 2006 that exceed more than 45 semester credit hours beyond their state approved degree plan and undergraduate students, who are first-time freshman starting Fall 2006 on forward that exceed more than 30 semester credit hours beyond their state approved degree plan, are subject to a tuition recovery fee of \$130 per credit hour to

cover the student's educational costs. Students that are affected are Texas residents that have attempted more than 30 credit hours beyond their degree program requirement. For more information contact the Office of Academic Records.

Excessive Undergraduate Hours Three-peat Fee

An additional tuition amount of \$130 will be charged for each undergraduate credit hour for a course taken for the third time at UHCL (\$390 per 3 hour course).

Writing Center Support Fee

The Writing Center Support fee will be used to provide administrative and support services for the Writing Center. Located in the Student Services and Classroom Building in SSCB 2105, this facility offers writing tutoring for all university students, faculty and staff. The charge will be \$9 per semester.

International Education Fee

The International Education Fee of \$2 is assessed to each student in order to provide scholarship support for those who participate in study abroad programs.

INSTALLMENT PAYMENT OF TUITION AND FEES

At the time of original registration UHCL students may pay their tuition and fees in full or they may elect a three-payment option (one half of tuition and fees at time of registration and the remaining one half in two equal installments). There is a \$15 non-refundable fee for the multiple payment plan. The installment plan is not available for summer semesters. Courses added after the original registration period must be paid for when added and cannot be applied to the installment plan. Payments due at the time of registration include:

- One-half of tuition and fees
- Non-refundable fee for installment plan
- Parking Fee
- Alumni donation (optional)
- E-Services Fee
- Late Registration Fee

Subsequent dates of payments will be listed on the fee statement. Students are responsible for all installment payments being made on time. Additional payment notices are not mailed. A \$10 late fee is charged for each late installment. Students who do not meet installment payment deadlines will have their records encumbered until all fees and penalties have been paid. At semester's end, any students who have not fulfilled their financial obligation on the installment contract will have their records encumbered and no grades or transcripts will be issued. There will be a \$50 default fee attached to the existing debt. In order for students to be eligible for enrollment in subsequent semesters and have the encumbrance removed from their records, all penalties and contract balances must be paid in full.

SCHEDULE OF CHARGES AND SPECIAL FEES

The following Schedule of Charges and Special Fees shall apply, where applicable, to all students at UHCL. These tuition and fee charges are assessed according to the number of semester credit hours for which students enroll and are payable at the time of registration. Students are not registered and are not entitled to university privileges until their tuition and fees have been paid in full. If payment is made by check or money order, such check or money order must be payable to the University of Houston-Clear Lake.

The charges quoted are those authorized at the time of publication of this catalog but are subject to change without notice as necessitated by university or legislative actions. Questions should be directed to the Office of the Cashier.

Rebates or Exemptions from Tuition and Fees

The statutes of the state of Texas describe certain instances in which students may be exempted from tuition and/or fees. The various types of exemptions and the Tuition Rebate Program are described below. In the case of exemptions, students have the responsibility to initiate the action of applying for an exemption through the Office of the Cashier and to provide evidence that all conditions required for the exemption have been met. Until such time as the exemption is established, students will be required to pay all tuition and fees. Students should apply to the Office of the Cashier at least one month prior to registration for the term in which they plan to utilize the exemption provision, but in all cases such requests must be received no later than the census date of any semester to be effective for that semester. For more information contact the Office of the Cashier. In the case of a rebate, the student must apply for the rebate at the time of graduation in the Office of Academic Records. Once the rebate is verified by the Office of Academic Records, the refund will be issued by the Office of the Cashier.

Tuition Rebate for Undergraduates

Tuition rebates to a maximum of \$1000 are available for qualified students who have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree as defined by the catalog under which they graduated. Certain restrictions apply:

- Students must have enrolled for the first time in an institution of higher education in the fall of 1997 semester or later.
- Students must be requesting a rebate for work related to a first baccalaureate degree received from a Texas public university.
- Students must have attempted all course work in Texas resident status.

For more information, see the Office of Academic Records. Qualified students must apply for the rebate at the time they apply for graduation

Texas Veterans (Hazlewood Act)

Legal residents of Texas may be exempted from tuition and certain required fees under the Hazlewood Act. Texas veterans must meet the eligibility criteria listed in the Financial Aid section of this catalog. UHCL Hazlewood applications should be

submitted to the UHCL Office of Financial Aid and Veterans Affairs 30 days prior to registration.

Children of Texas Veterans

Exemption from payment of tuition and certain fees extends to children of members of the armed forces who were killed in action or died while in service in World War II or in the Korean conflict or in any subsequent actions, and to orphans of members of the Texas National Guard and the Texas Air National Guard killed since January 1, 1946 while on extended active duty.

Children of Disabled Public Employees

Children of certain eligible firefighters, peace officers, employees of the Texas Department of Criminal Justice and game wardens who have suffered injury resulting in death or disability sustained in the line of duty may, under certain conditions, be exempted from payment of tuition and certain fees.

Deaf or Blind Students

Deaf or blind persons who are Texas residents may, under certain conditions, be exempted from payment of tuition and certain fees.

Children of Prisoners of War or of Persons Missing in Action

Dependent children under 18 years of age, or persons under 25 years of age who receive the majority of their support from their parent(s) may be exempted from the payment of tuition and certain fees if they are the dependent children of any person who is a domiciliary of Texas on active duty in the armed forces of the United States, and who at the time of registration is classified by the Department of Defense as a prisoner of war or as missing in action.

Special Fees

In U.S. Dollars

Alumni Donation	1
Certificate, Teacher	75
Certificate, Professional	75
Computer Use Fee (maximum of \$192 for each semester)	16/hr
Cooperative Education	75
Differential Designated Tuition (BUS) - Undergraduate	10
Differential Designated Tuition (HSH) - Undergraduate	3
Differential Designated Tuition (SCE) - Undergraduate	5
Extended Access Fee	6/hr - 54/max
Duplicate Fee Statement, each	3
Duplicate Diploma	25
E-Services	13
Excessive Undergraduate Hours - 3 Peat (\$390 per 3 hour course)	130/hr
Field trip, each, when required for any given course; variable amount sufficient to defray the cost of the trip.	Variable
Former Student File Reactivation Application (not enrolled for at least one year)	35
Graduation Application (includes diploma but not cap/gown)	65
ID Card	3
International Student Insurance (annual)	850
International Student Application/Evaluation	75
International Student Records Processing (per semester)	65
Internship	30 - 72
Laboratory, per course	Variable
Late Payment	50
Late Registration	50
Library Fee (maximum \$60 per semester)	6/hr
Matriculation (for withdrawal prior to first class day)	15
New Student Orientation	30/1-time
Parking (annual)	85
Parking (per long term)	50
Parking (summer)	35
Returned check charge, per check	20
Special course fee, when required; an amount sufficient to defray the cost of materials and/or supplies required. May include malpractice insurance.	Variable
Student Center Fee	30
Student Service Fee (max of \$180)	33/hr
Transcript/Publication	15
Tuition Recovery	130
Undergraduate Studies Application	35
Writing Center Support	9

Fee Schedule

CR HR	RES UG	NR/F UG	TUI DES UG	TUI DES NR/F UG	ST SVC	P/T FEE	COM USE	LIB FEE
1	50	360	109	143	33	15	16	6
2	100	720	218	286	66	15	32	12
3	150	1,080	327	429	99	15	48	18
4	200	1,440	436	572	132	15	64	24
5	250	1,800	545	715	165	15	80	30
6	300	2,160	654	858	198	15	96	36
7	350	2,250	763	1,001	198	15	112	42
8	400	2,880	872	1,144	198	15	128	48
9	450	3,240	981	1,287	198	15	144	54
10	500	3,600	1,090	1,430	198	15	160	60
11	550	3,960	1,199	1,573	198	15	176	60
12	600	4,320	1,308	1,716	198	15	192	60
13	650	4,680	1,417	1,859	198	15	192	60
14	700	5,040	1,526	2,002	198	15	192	60
15	750	5,400	1,635	2,145	198	15	192	60
16	800	5,760	1,744	2,288	198	15	192	60
17	850	6,120	1,853	2,431	198	15	192	60
18	900	6,480	1,962	2,574	198	15	192	60
19	950	6,840	2,071	2,717	198	15	192	60
20	1000	7,200	2,180	2,860	198	15	192	60
21	1050	7,560	2,289	3,003	198	15	192	60
22	1100	7,920	2,398	3,146	198	15	192	60
23	1150	8,280	2,507	3,289	198	15	192	60
24	1200	8,640	2,616	3,432	198	15	192	60
25	1250	9,000	2,725	3,575	198	15	192	60
26	1300	9,360	2,834	3,718	198	15	192	60
27	1350	9,720	2,943	3,861	198	15	192	60
28	1400	10,080	3,052	4,004	198	15	192	60
29	1450	10,440	3,161	4,147	198	15	192	60
30	1500	10,800	3,270	4,290	198	15	192	60

Fee Schedule Codes

CR HR	Semester Credit Hour	TUIDES	Tuition Designated	P/T FEE	Publication and Transcript Fee
RES	Texas Residents	COM USE	Computing Fee	ID CD	Identification Card
EXT ACC	Extended Access Support	ID EDU	International Education	ST SVC	Student Service
UTL SURCG	Utility Surcharge	ST CENT	Student Center	E-SER	E-Services
NR/F	Non-residents	LIB FEE	Library Fee	UG	Undergraduate

Fee Schedule (continued)

CR HR	ID CD	EXT ACC	INT EDU	ST CENT	E SVCS	WRT CTR	R-UG TOTAL	NR/F UG TOTAL
1	3	6	2	30	13	9	292	636
2	3	12	2	30	13	9	512	1,200
3	3	18	2	30	13	9	732	1,764
4	3	24	2	30	13	9	952	2,328
5	3	30	2	30	13	9	1,172	2,892
6	3	36	2	30	13	9	1,392	3,456
7	3	42	2	30	13	9	1,579	3,987
8	3	48	2	30	13	9	1,766	4,518
9	3	54	2	30	13	9	1,953	5,049
10	3	54	2	30	13	9	2,134	5,574
11	3	54	2	30	13	9	2,309	6,093
12	3	54	2	30	13	9	2,484	6,612
13	3	54	2	30	13	9	2,643	7,115
14	3	54	2	30	13	9	2,802	7,618
15	3	54	2	30	13	9	2,961	8,121
16	3	54	2	30	13	9	3,120	8,624
17	3	54	2	30	13	9	3,279	9,127
18	3	54	2	30	13	9	3,438	9,630
19	3	54	2	30	13	9	3,597	10,133
20	3	54	2	30	13	9	3,756	10,636
21	3	54	2	30	13	9	3,915	11,139
22	3	54	2	30	13	9	4,074	11,642
23	3	54	2	30	13	9	4,233	12,145
24	3	54	2	30	13	9	4,392	12,648
25	3	54	2	30	13	9	4,551	13,151
26	3	54	2	30	13	9	4,710	13,654
27	3	54	2	30	13	9	4,869	14,157
28	3	54	2	30	13	9	5,028	14,660
29	3	54	2	30	13	9	5,187	15,163
30	3	54	2	30	13	9	5,346	15,666

*The University may change tuition rates and other charges without notice when so directed by the Board of Regents. All students are charged, per semester, a Transcript/Publication fee, ID card fee, and Writing Center Support fee. Additional base fees include a Student Center fee of \$30 and an E-Services fee of \$13 for registration purposes. Graduate students within the School of Business will be charged, per semester, a Graduate Programs Research Capability fee of \$57.

REFUND POLICIES

REFUNDS ON WITHDRAWALS

Students who pay tuition and fees for any term and who subsequently cancel their registration through the Office of Academic Records prior to the first day of classes for that term as specified in the academic calendar are entitled to a full refund minus a \$15 matriculation fee and the \$13 E-Services Fee and any other non-refundable fees.

Students who officially withdraw from the university after classes begin may be eligible for a partial refund of tuition and fees. The applicable refund is based upon the courses in which students are enrolled on the date of official withdrawal. Applications for official withdrawal from courses or from the university must be made to the Office of Academic Records, on the telephone registration system or through E-Services prior to the deadline stated in the academic calendar. Withdrawals in writing are effective on date of receipt. Letters can be faxed to the Office of Academic Records at 281-283-2530. The university reserves the right to deduct from the refund any outstanding financial obligations to the university.

In order to obtain a refund of parking fees, the parking permit must be returned to the Office of the Cashier at the time of withdrawal. If the Parking Fee has been paid and the permit has not been issued, the fee statement must be returned to the Office of the Cashier at the time of withdrawal.

No refund will be made to students who leave the university without officially withdrawing. Refunds are made in accordance with this schedule:

Fall and Spring Semesters (Regular Session)

- Prior to the 1st class day - 100%
- On or before the 5th class day - 80%
- 6th through 10th class day - 70%
- 11th through 15th class day - 50%
- 16th through 20th class day - 25%
- 21st class day and thereafter - No Refund

All Semesters (Eight and Nine Week Sessions)

- Prior to the 1st class day - 100%
- On or before the 3rd class day - 80%
- 4th through 6th class day - 50%
- 7th day and thereafter - No Refund

Summer Semester (Three, Four, and Five Week Sessions)

- Prior to the 1st class day - 100%
- On the first class day - 80%
- On the 2nd class day - 50%
- 3rd class day and thereafter - No Refund

Class days, including Saturdays, are counted from the first day that classes begin at the university as indicated in the academic calendar for that semester. Refunds are not made immediately upon official withdrawal. They will be processed after completion of all university registrations for that semester. Refunds will be processed through Higher One.

Refunds on Dropped Courses

Students who drop classes within the first 12 class days of a 15-week session; within the first four class days of an 8-week or 9-week session or within the first two class days of a 3-week, 4-week and 5-week session and who remain enrolled in the university for that semester may be refunded the applicable tuition and fees for classes dropped. No refunds will be made for courses dropped after the 12th class day during a 15-week session, the 4th class day of an 8-week or 9-week session, or the 2nd class day of a 3-week, 4-week and 5-week session. Refunds will be processed through Higher One. UH-Clear Lake has partnered with Higher One to provide disbursement services for financial aid and tuition refunds. The refunds quoted are those authorized at the time of publication of this catalog but are subject to change without notice as necessitated by the university or legislative action.

STUDENT FINANCIAL RESPONSIBILITY

Students must meet financial responsibilities to the university. Writing checks on accounts with insufficient funds and failure to meet all financial obligations are considered a lack of financial responsibility.

Students forfeit check writing and cashing privileges for the balance of the academic year if they write two bad checks (unless due to bank error) to the university for tuition and fees, to the university offices for payment of other university obligations or for check cashing purposes.

Students who have written a bad check to the university (unless due to bank error) will be assessed a \$20 service charge. It is the responsibility of students to present evidence of bank error. Encumbrances and returned checks must be cleared by cash or cashier's check. Returned checks will not be re-deposited. The university will not accept two-party checks for payment or check cashing privileges.

Students must be in good financial standing with the university at all times. Failure to meet financial responsibilities to the university may subject students to withdrawal and disqualification for registration for a subsequent term. Transcripts will not be given to or on behalf of students until all financial responsibilities have been met. Failure to clear outstanding debts could result in the debt being placed for collection procedure and reported to the Credit Bureau of Greater Houston.

ACADEMIC RECORD SERVICES

Official student records reside and are maintained in the Office of Academic Records. Students are responsible for insuring the accuracy of their records. Such records include, but are not limited to, personal information, home address and phone number, degree status, career (level), major and grades.

ACADEMIC RECORD CHANGES

Students wishing to change their major must obtain the Request for Academic Record Change form from the office of the associate dean in the school from which they are earning their degree. Students wishing to change their career (level) or degree status should contact the Office of Academic Records for the appropriate application. Changes made after the census date will be applicable to the next semester.

PERSONAL INFORMATION CHANGES

University records of students' names and addresses are based on information given on the Application for Admission. Subsequent changes must be reported to the Office of Academic Records. Requests for name changes must be accompanied by supporting documentation including driver's license, marriage license, divorce decree or official name change document.

Any communication from the university mailed to the name and address on record is considered to have been properly delivered.

TRANSCRIPTS

Students may request official copies of their transcript from the Office of Academic Records. There is no additional charge for a transcript. Transcript requests must be in writing with the name of the student, student ID or social security number, the number of copies, the address it is to be mailed to or if it will be picked up, a phone number where the student may be reached and the signature of the student whose record is requested. Fax requests will be accepted. The fax number is 281-283-2530. Transcripts can also be requested online through E-Services. Telephone requests or e-mails will not be honored. Students whose permanent records have been placed with a service indicator will be denied transcript services until the specific obligations have been met.

UHCL transcripts contain only academic information and course work pursued at UHCL. Requests are limited to 10 copies per request form.

Transcripts from other institutions submitted to UHCL become the university's property and will not be reproduced and/or mailed to other institutions. Students may not obtain copies of their transcripts from other institutions. Transcripts from other institutions are destroyed five years after the last term of attendance.

GRADE REPORTS

Students can access their semester grades online at www.uhcl.edu/records/eservices. The student's password is required for this confidential access. Grades can also be obtained by requesting a transcript. Grade reports are not mailed.

Grade Discrepancies

Students with suspected grade discrepancies on their grade report should check with the appropriate office of the associate dean for clarification.

POLICY ON RELEASE OF STUDENT RECORDS

The Family Educational Rights and Privacy Act of 1974 is a federal law stating (a) that a written institutional policy must be established and (b) that a statement of adopted procedures covering the privacy rights of students be made available. The law provides that institutions will maintain the confidentiality of student education records.

UHCL accords all the rights under the law to students who are declared independent. No one outside the institution shall have access to, nor will the institution disclose, any information from students' education records without the written consent of students except to personnel within the institution, to officials of institutions in which students seek to enroll, to persons or organizations providing students financial aid, to accrediting agencies carrying out their accreditation function, to persons in compliance with a judicial order and to persons in an emergency in order to protect the health or safety of students or other persons. All these exceptions are permitted under the act.

Within UHCL, only those members individually or collectively acting in students' educational interest are allowed access to student education records. These members include personnel in the office of the president, senior vice president and provost, vice president for administration and finance, deans, associate deans, student services, computing services, cashier, accounting, career and counseling services, student life, health center, financial aid, member of academic, grade and honesty appeal committees and academic personnel within the limitations of their need to know.

At its discretion, the University of Houston-Clear Lake may provide "directory information" to the general public without student consent. Directory information is defined by University of Houston-Clear Lake as follows (within guidelines of the Family Educational Rights and Privacy Act of 1974) : student name, address, telephone number, university e-mail address, verification of date and place of birth, major field of study, dates of attendance, courses attended, classification, hours enrolled, date of graduation, degrees and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports.

Students who do not wish that public information (including their name, address and phone number) be released can go online and select all information to be restricted from release (with the noted exceptions for Release to Publications) according to Family Educational Rights and Privacy Act of 1974 guidelines and policies.

The law provides students with the right to inspect and review information contained in their education records, to challenge the contents of their education records, to have a hearing if the outcome of the challenge is unsatisfactory and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panel to be unacceptable. Information about this inspection and review process can be obtained in the Office of Academic Records.



Students from over 60 countries attend UHCL. Each year they celebrate their diverse cultures during Global Expo.



STUDENT SERVICES

- Associate Vice President
- Career and Counseling Services
- Dean of Students
- Health and Disability Services
- Intercultural and International Student Services
- Student Housing
- Student Life
- Student Publications
- Writing Center

OFFICE OF THE ASSOCIATE VICE PRESIDENT

The Office of the Associate Vice President for Student Services provides support and direction for the offices of Career and Counseling Services, Dean of Students, Health and Disability Services, Intercultural and International Student Services, Student Housing, Student Life, Student Publications and the Writing Center.

This office also provides students with advocacy, information and assistance in all phases of campus life. The Associate Vice President is responsible for interpreting and implementing student life policies, resolving disputes and disciplinary problems and handling student complaints. The rights and responsibilities of students are published in Student Life Policies. Standards of student conduct are enforced to ensure the safety of individuals, protection of property and the continuity of the educational process. Copies of Student Life Policies are available from the offices of the Associate Vice President, Student Life, Dean of Students and online at www.uhcl.edu under the Students tab.

	Office	Phone
Associate Vice President	Bayou 2523	281-283-3025
Career Services	SSCB 3109	281-283-2590
Counseling & Testing Services	SSCB 3103	281-283-2580
Health and Disability Services	SSCB 1301	281-283-2626
Disability Coordinator	SSCB 1302	281-283-2632
Intercultural and International Student Services	SSCB 1203	281-283-2575
Student Housing		281-286-5959
Dean of Students	SSCB 1201	281-283-2567
Student Life	SSCB 1204	281-283-2560
Student Publications	Bayou 1239	281-283-2570
Writing Center	SSCB 2105	281-283-2910

CAREER AND COUNSELING SERVICES

CAREER SERVICES

Career Services assists students in establishing and/or advancing careers in their degree fields and in finding jobs while they are enrolled in school. Some services are available to alumni for a fee. Information on Alumni Career Services is available in SSCB 3.109 or at 281-283-2590. Career Services offers:

- Job search assistance
- Mock interviews and résumé critiques
- Resume referrals with career services registration
- On-line job listings
- On campus interviewing
- Multiple job fairs and networking events
- Cooperative Education

Cooperative Education (Co-op) is a planned learning experience designed to prepare students for careers by integrating work experience with academic study. This program offers:

- Enriched student learning through experience gained from performing actual work assignments and developing professional skills in a work setting.
- Two work plans. The alternating plan allows students to alternate semesters of full-time classes with cooperative education work experiences. The parallel plan allows students to work part-time while attending classes.

Students must be degree seeking and meet academic eligibility requirements as defined by individual schools. When enrolled in a cooperative education course, students will be considered full-time for purposes of enrollment verification, but not for purposes of determining eligibility for veterans' benefits or financial aid.

Before participating in on-campus job interviewing, using job lines or co-op, students are required to complete a Career Services or Co-op registration. Individual assistance is available by appointment and during drop-in hours. All other services are available during office hours from 8:30 a.m. to 7:00 p.m. Monday through Thursday and 8:30 a.m. to 12:00 p.m. on Friday.

COUNSELING AND TESTING SERVICES

Counseling and Testing Services are designed to assist students in improving personal, academic and professional skills related to academic success. The professional staff helps students in meeting these needs by providing short-term individual counseling sessions, seminars, workshops and small group experiences.

- Most services, including individual and group counseling, are free of charge and strictly confidential. The following services and resources are available to UHCL students:
- Individual and group counseling
- Academic skills training
- Entrance Exams (THEA)
- Vocational testing and counseling

DEAN OF STUDENTS

The Office of the Dean of Students (ODOS) provides a variety of programs and services designed to support students in achieving both academic and personal success. The ODOS is committed to fostering human dignity through acts of civility and

respect; providing student-centered services and developing ethical leaders who work to create an inclusive community. The ODOS seeks to create student learning opportunities beyond the classroom that inspire intellectual, personal and civic growth for all students. The office staff serves as both advocates and liaisons for all students and are available to assist faculty, staff and parents in any way possible. Their primary purpose is to provide assistance to students and the university community in the following areas:

- Academic Resources for Student Success
- Campus Information Desk
- Community Building
- Conflict Resolution
- Emergency Resource
- Student Advocacy and Referral
- Student Assistance Center (SAC)
- Student Conduct
- Student Judicial Services
- Student Retention
- Student Success Center

STUDENT ASSISTANCE CENTER

The Student Assistance Center (SAC) is a unit of the Dean of Students Office and provides assistance relating to registration, student financials, admissions, financial aid, student records, transcripts, E-Services, and assistance with resolving academic and administrative issues. SAC provides support and general information to students, faculty, staff, and UHCL constituency.

STUDENT ADVOCACY

The Office of the Dean of Students provides referral and support for students experiencing difficulties. This includes assisting students in resolving concerns and conflicts, making needed referrals, implementing student life policies and resolving disputes and disciplinary problems, including the Academic Honesty Policy.

STUDENT SUCCESS CENTER

The Student Success Center is a comprehensive academic resource for the UHCL student community, which includes peer tutoring, supplemental instruction, and study skill workshops. The focus of the center and its services is to help students enhance their academic skills for a particular course. Moreover, the Center helps students more effectively manage information by using experience and guided practice exercises building confidence and competence in the classroom.

The Student Success Center works cooperatively across the university (i.e. Writing Center, Disability Services, Career and Counseling Services, academic departments,

students, faculty and staff) in an effort to maintain a strong consortium of resources aimed at increasing student success, retention and persistence. The Center is open and free of charge to all UHCL students.

STUDENT TRAVEL POLICY

The University of Houston System has a policy that guides and directs all student travel. This policy, entitled "Travel by Students to Component University Funded Activity" (University of Houston System Administrative Memorandum - 03.E.08), is administered by the Office of the Dean of Students.

The purpose of the policy is stated as follows: This document outlines the policy to minimize risks of liability connected with travel by students of component universities. This policy applies to travel in excess of 25 miles that is undertaken by one or more students presently enrolled in a component university. Travel must be organized and sponsored by the component university and funded by the institution. The vehicles must be owned by the institution or an organization registered at the institution.

Copies of the policy can be obtained upon request at the office, or by accessing the Dean of Students Web site at www.uhcl.edu/deanofstudents.

HEALTH AND DISABILITY SERVICES

HEALTH SERVICES

The Health Center provides a wide range of professional services for UHCL students. It is dedicated to promoting good health and to providing emergency services and short-term medical treatment to any student who becomes ill or injured.

The Health Center has a women's health care clinic and a medical clinic that are supervised by a licensed Family Nurse Practitioner and physicians, which are available on an appointment-only basis. Complete laboratory services and a limited pharmacy are available and students may receive flu shots, immunizations, TB screening and routine injections. Nurses are readily available to answer health questions on a walk-in basis.

Prevention programs include screenings and health education on various medical issues. Acupuncture is available by appointment.

The Health Center encourages student health insurance for all currently enrolled students who are enrolled in 6 or more hours. Literature detailing the approved health insurance plan is available at our office. International students are required to have health insurance and are charged automatically at the beginning of each semester. International students may have this insurance waived if appropriate documentation has been noted.

DISABILITY SERVICES

The goal of Disability Services is to provide full participation and a fully integrated university experience for all members of the campus community. Services include academic accommodations, alternative testing, technological and adaptive resources,

peer mentoring, resource material, scholarships and advocacy. The Coordinator of Disability Services facilitates referrals to other offices, which provide students with counseling, advising, financial assistance and tutoring, as needed. To be eligible for services, a student must have recent comprehensive documentation of disability. Prior to the beginning of the semester, students should contact the Disability Office to ensure the availability of timely and appropriate accommodations.

INTERCULTURAL AND INTERNATIONAL STUDENT SERVICES

The mission of the Intercultural & International Student Services (IISS) Office is to provide leadership, advocacy and support, which facilitates the development of successful, well-rounded, educated and accepting individuals. IISS promotes and enhances awareness of cultural pluralism through programming and serves as a platform that empowers underrepresented, first-generation and international students.

IISS offers a variety of programs and activities at no cost to all UHCL students.

- Student Advocacy - All students with concerns, problems, or students seeking advice may request assistance from the IISS staff. The staff serves as resources and advisors to all individuals and all groups of students, including underrepresented, first generation, marginalized, international, LGBT and women populations.
- Student Ambassador Program - IISS Student Ambassadors serve as peer mentors and advocates for all students.
- Cultural and International Resource Center - IISS maintains a collection of periodicals, books, training manuals, newsletters, audiotapes, and videos on a variety of cultural topics.
- Cultural Programs/Festivals - IISS celebrates diversity on our campus with a variety of cultural programs designed to enhance the campus community members' understanding of different cultural practices, belief, and histories.
- Student Organizations - Staff provide support to ethnic and cultural student organizations and their events.
- External Scholarship Resources - Extensive information on external scholarships is available.
- Volunteer Services - Opportunities are available for students to become active participants in a variety of community services projects.
- Strictly Speaking - This program assists international students in improving their spoken English skills by pairing international students with U.S. students.
- Total Success Plus (TS+) - This is a mentoring program for all students. Selected students are paired with UHCL faculty and staff to provide extra support and encouragement.

ORIENTATION

New International Students Orientation is offered prior to each Fall, Spring and Summer semester. A comprehensive program is offered to all new international students to the university. The orientation provides information regarding health

insurance, visa regulations, cross-cultural adjustment, academic and peer advising. Airport Pickup services are offered for first time international students.

WOMEN'S AND LGBT SERVICES

Women's Services program is offered to women and others interested in women's issues. Programming is designed to promote gender equality and awareness. Advocacy and support are available for female students and others who need it.

The purpose of Women's and Lesbian, Gay, Bisexual and Transgender Services is to create educational programming for and about UHCL's female and LGBT students, staff, and faculty and to be advocates for their needs. Our services and programs are open to all those who are interested in women's and LGBT issues. The women's programming includes increasing awareness of sexual assault, the contributions of women throughout history, and health issues such as breast cancer and heart disease. Our largest women's program is VDAY UHCL "The Vagina Monologues", which raises money for anti-gender violence organizations. The LGBT programming includes a weekly discussion group and activities honoring LGBT History Month and National Day of Silence. We have also established a Safe Zone program which is a faculty and staff program created to identify a network of allies within the university. The faculty and staff members who display the Safe Zone logo have enthusiastically volunteered to be visible resources and advocates for LGBT people and their loved ones on campus.

CELEBRATING OUR ELDERS SCHOLARSHIP PROJECT

Celebrating Our Elders Project awards scholarships to high school and community college students who write essays honoring Hispanic and African-American elders.

UHCL-NCBI CAMPUS AFFILIATE

National Coalition Building Institute's (NCBI) prejudice reduction/conflict resolution model is for students, staff and faculty. This program is a proactive systemic approach to sustain an effective diversity-training program. The training is intended as a university-wide ongoing mechanism for the UHCL community to provide an institutional response to racial and inter-group conflict. This is best accomplished by recruiting and training a leadership team of student leaders, administrators, staff and faculty who act as a fully empowered team to address campus issues.

STUDENT HOUSING

University Forest Apartments is the only housing located on the UHCL campus. This 136-unit student housing facility is a two-story complex, which houses 288 students, faculty and staff. University Forest was built to provide comfortable living while providing students the opportunity to experience on-campus life. Three different types of apartments are available, allowing students to choose different living options. Individual leasing allows students the opportunity to have roommates and the financial security of only having to worry about their own rent. University Forest also

has a twelve member staff that is on-call 24 hours a day to assist residence in any way possible. The caring staff also provides a variety of programming that makes residence at University Forest feel they belong to a great community. University Forest is ideal for students who enjoy meeting lots of people.

To receive information on how to apply, call 281-286-5959 or e-mail UFA@uhcl.edu.

The Student Housing office is open Monday - Thursday 8:30 a.m. - 6:30 p.m., Friday 8:30 a.m. - 5:00 p.m., and Saturday-Sunday 11:00 a.m. - 3:00 p.m.

STUDENT LIFE

The Office of Student Life provides programs and services that enrich and support students' educational experiences by giving them the opportunity to express ideas, develop leadership skills and meet new people. Services provided include locker rentals, student ID cards, ticket sales to various university events and posting approval. The Student Life Office is comprised of the following components.

ORIENTATION

A comprehensive orientation to UHCL is offered prior to each fall and spring semester for both undergraduate and graduate students. New students are strongly encouraged to attend this four-hour program, which addresses such topics as how to register for classes, how to make the most of campus life and how to utilize the available resources. Students are also given the opportunity to tour the campus, as well as meet with faculty, staff and other students. International students are encouraged to attend both this orientation and the New International Student Orientation sponsored by Intercultural and International Student Services.

STUDENT ORGANIZATIONS & STUDENT GOVERNMENT ASSOCIATION

There are approximately 70 student organizations recognized at UHCL, which represent most academic program areas and majors as well as social, recreational and religious interests. The Student Government Association (SGA), with representation from each organization, funds and assists student organizations. The SGA also appoints students to university committees and conveys student concerns and initiatives to the university administration.

The Office of Student Life supports the varied activities of the organizations through leadership development programs, space allocations and fund disbursement. All students are encouraged to participate in the activities of these organizations.

SPECIAL EVENTS PROGRAM

The Special Events Program provides cultural arts and special events, which enhance the artistic environment of the university and the region it serves. Activities include theater, music and dance productions, visual arts exhibitions, distinguished lecturers, Welcome Week Activities and the Chili Cook-Off.

FITNESS CENTER

The UHCL community can be active by becoming a member of the Fitness Zone. The 3,000 square foot fitness center is located in the Student Services-Classroom Building. This center includes aerobic machines and free weight equipment while activities include different athletic tournaments and educational programs.

HONOR SOCIETIES

UHCL's honor societies recognize students' academic excellence and achievement. UHCL honor societies are affiliated with national societies, and invite students to membership based on the nationally recognized standards of their chartering organization. Some societies recognize accomplishments within specific disciplines while Alpha Chi, Phi Kappa Phi and Omicron Delta Kappa honor students from all academic disciplines.

UHCL honor societies are:

Alpha Chi	All Disciplines
Alpha Kappa Delta	Sociology
Alpha Iota (local)	Legal Studies
Alpha Phi Sigma	Criminology
Beta Alpha Psi	Accounting
Beta Gamma Sigma	All Business Disciplines
Financial Management Honor Society	Finance
Kappa Delta Pi	Education
Omicron Delta Kappa	Leadership
Phi Alpha Delta	Pre-Law
Phi Alpha Theta	History
Phi Kappa Phi	All Disciplines
Pi Alpha Alpha	Public Affairs
Psi Chi	Psychology
Sigma Iota Epsilon	Management
Sigma Tau Delta	Literature

STUDENT PUBLICATIONS

Students enrolled in Newspaper Publication and Magazine Publication classes publish the student newspaper and magazine out of the Office of Student Publications. The student newspaper, The Signal, is published throughout the fall and spring semesters to provide news, feature, entertainment and opinion pieces concerning university events and issues. The newspaper serves as a public forum and encourages students, faculty and staff to submit story ideas and comments. The university's literary art magazine, Bayousphere, is produced during the spring semester and published in the fall. The magazine accepts works of fiction, non-fiction, photography, poetry and digital media from students, faculty, staff and members of the community. Both publications have received numerous awards in state and national collegiate competitions from the Texas Intercollegiate Press Association and the Columbia Scholastic Press Association.

WRITING CENTER

The Writing Center, located in SSCB 2105, is an instructional facility designed to assist the university community with writing skills. Peer tutors are trained to work with writers by teaching a range of strategies for understanding assignments, planning texts, organizing discussions, writing strong arguments, revising for meaning, learning documentation styles, and developing editing skills. Tutors use collaborative techniques to explore with writers the requirements and possibilities of academic discourse. The Writing Center also offers COLT, an online tutoring service with phone chat, IM chat, and e-mail response options for currently registered students. For more information, please contact the Writing Center at 281-283-2910 or /writingcenter@uhcl.edu/.



*Located on UHCL campus, the best turn you can make towards
earning your bachelor's degree.*



GENERAL PROGRAM REQUIREMENTS

- Degrees Offered
- Enrollment and Grading Policies
- University Undergraduate Degree Requirements

DEGREES OFFERED

The University of Houston-Clear Lake (UHCL) is authorized by the Texas Higher Education Coordinating Board to confer four degrees in 38 undergraduate majors.

UNDERGRADUATE DEGREES CONFERRED

- Bachelor of Applied Science (BAS)
- Bachelor of Arts (BA)
- Bachelor of Fine Arts (BFA)
- Bachelor of Science (BS)
- Bachelor of Social Work (BSW)

UNDERGRADUATE PLANS OFFERED

School of Business

- Accounting (BS)
- Environmental Management (BS)
- Finance (BS)
- General Business (BS)
- Healthcare Administration (BS)
- Healthcare Services (BAS)
- Legal Studies (BS)
- Management (BS)
- Management Information Systems (BS)
- Marketing (BS)
- Professional Accounting (BS)

School of Education

- Interdisciplinary Studies (BS)
- Early Childhood Education (BAS)

School of Human Sciences and Humanities

- Anthropology (BS)
- Applied Design and Visual Arts (BFA)
- Behavioral Sciences (BS)
- Communication (BA)
- Criminology (BS)

- Fitness and Human Performance (BS)
- Geography (BS)
- History (BA)
- Humanities (BA)
- Literature (BA)
- Political Science (BS)
- Psychology (BS)
- Public Service Leadership (BS)
- Social Work (BSW)
- Sociology (BS)
- Women's Studies (BA)

School of Science and Computer Engineering

- Biological Sciences (BA, BS)
- Chemistry (BA, BS)
- Computer Science (BS)
- Computer Information Systems (BS)
- Computer Systems Engineering (BS)
- Environmental Science (BS)
- Information Technology (BAS)
- Mathematical Sciences (BA, BS)
- Physical Sciences (BS)
- Physics (BS)

STUDENT RESPONSIBILITY

Students are responsible for knowing all degree requirements and enrolling in courses appropriate for their chosen degree programs. Students also are responsible for knowing all university regulations regarding student affairs and course work standards required for study undertaken in the university. While this catalog was prepared on the basis of the best information available at the time, all information including statements of fees, course offerings, admissions and graduation requirements is subject to change without notice or obligation. The most recent information regarding degree requirements and academic standards may be obtained from the appropriate dean's office. Student affairs information may be obtained by contacting the Office of the Dean of Students, or by contacting the individual student services offices.

ENROLLMENT AND GRADING POLICIES

In conjunction with academic performance standards, the policies listed below are utilized by the university in monitoring the academic progress of students.

COURSE LOAD

Students should be aware that academic work will be at advanced levels and should consider individual abilities when determining an appropriate course load. Course load limits may be set as terms of probation or readmission to the university after suspension. The university limits course loads to a maximum of 19 hours during the fall and spring semesters. For the summer semester, the limit is 12 hours.

In evaluating their ability to carry a certain course load, students should consider:

- Time available for class preparation
- Whether an excessive load might endanger academic standing
- Physical and mental stamina
- Financial factors of commuting costs, tuition, fees and personal budget.

Under the Department of Homeland Security (DHS) regulations, international students are required to maintain full-time enrollment during each fall and spring semester. In addition, no more than three credit hours per semester of courses taken online may be counted towards full-time enrollment for F and J student visa holders.

FULL-TIME/PART-TIME STATUS COURSE LOAD

Term	Full-Time	¾ Time	½ Time
Fall and Spring Semesters	12 hours	9 hours	6 hours
Nine-Week Summer Sessions	6 hours	5 hours	3-4 hours
Five-Week Summer Sessions	4 hours	3 hours	1 hour

When enrolled in a cooperative education course, students will be considered full-time for purposes of enrollment verification.

RESIDENT CREDIT

Resident credit is defined in two ways:

- Credit awarded for successful completion of academic work undertaken at UHCL or
- Credit awarded for successful completion of academic work undertaken at another college or university provided that:
 - Students are candidates for degrees at UHCL and
 - Students have written approval of their faculty advisor and their appropriate associate dean before undertaking academic work elsewhere.

Students should be aware that credits earned elsewhere without prior approval from UHCL are not considered credits "earned in residence" for the purpose of fulfilling general degree requirements.

CLASS ATTENDANCE

Regular class attendance is expected of all students. What constitutes an acceptable rate of class attendance is a matter between students and their instructors, although the university expects instructors to maintain reasonable standards. Whenever

instructors determine that students' absences have been excessive, they have the right to request that the appropriate associate dean withdraw the students from the course.

Drop/Withdrawal Mark

Students who drop classes or withdraw from all classes by the deadline date as stated in the academic calendar will receive one of the following grades: WQ (Student-initiated drop, No Evaluation) or WX (Administrative Drop or Withdrawal, No Evaluation). These marks imply no evaluation of students' performance prior to drop/withdrawal. Students may retain auditing privileges with the instructor's consent.

Student-Initiated Withdrawals

Students' applications for official withdrawal from courses or from the university must be made to the Office of Academic Records through E-Services prior to the deadline stated in the academic calendar. Withdrawals in writing can be made by mail or by fax to 281-283-2530 and are effective on the date of receipt. Student-initiated drops and withdrawals are irrevocable. Retroactive drops or withdrawals are not permitted. Students lose all university privileges on the date the withdrawal from the university is effective.

Administrative Withdrawals

The university reserves the right to withdraw students from a class or all classes if, in the judgment of the appropriate university officials, such withdrawals are in the best interests of the students and the university. Students may be withdrawn for reasons of health, irresponsible financial conduct, unacceptable personal conduct, Honesty Code violations or other academic infractions or disregard of official summonses to respond to official requests.

6-Drop Rule

In 2007, the Texas Legislature passed a law (S.B. 1231) which prohibits students enrolling for the first time as a freshman during the fall 2007 academic term or any term thereafter from dropping more than a total of six courses in their entire undergraduate career. This total includes any course a transfer student has dropped at another 2-year or 4-year Texas public college or university. This does not apply to courses dropped prior to the census date (See Schedule of Classes) or to courses for which the student receives an administrative withdrawal noted with a grade of "WX" and does not apply if the student withdraws from the term or session.

Certain exceptions may be made to the limit if the student can show good cause for dropping more than that number, including but not limited to a showing of:

- a severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course;
- the student's responsibility for the care of a sick, injured or needy person if the provision of that care affects the student's ability to satisfactorily complete the course;

- the death of a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's death is considered to be a showing of good cause;
- the active duty service as a member of the Texas National Guard or the armed forces of the United States of either the student or a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's active military service is considered to be a showing of good cause; and
- the change of the student's work schedule that is beyond the control of the student and that affects the student's ability to satisfactorily complete the course.

Students requesting an exemption must complete the 6-Drop Exemption Form and submit it to the Office of Academic Records along with supporting documents and evidence of extenuating circumstances.

Grade Code Associated with the 6-Drop Rule

University of Houston-Clear Lake will award a grade of "WQ" for courses dropped after the census date for the term as listed on the Class Schedule. Students who are administratively withdrawn from courses or students withdrawing from all courses for a term will receive a grade of "WX." The grade of "WX" will also be assigned to courses for which students receive an exemption to the 6-drop limit. The grade of "WX" will not count against the 6-drop rule.

Awarding of Grades once the 6-Drop Limit has been Reached

Once UHCL determines that a student has accrued a total of 6 drops on courses attended at any Texas public colleges and universities, including UHCL, it will not allow that student to drop any additional course at UHCL. Once enrolled for a course, the students with 6 drops can only be awarded A, B, C, D, or F grade by their instructor.

Appeals Process

Any student who wants to appeal the initial decision to deny an exemption to the 6-drop limit for dropping a course may appeal to the Associate Vice President for Enrollment Management for further review. Such appeals must be submitted in writing before the final grades for the course are posted by the instructor.

Students appealing the initial decision can only do so for one of the following reasons:

- To determine whether the process leading to original decision was fair; and
- To determine whether the decision reached regarding the request was based on substantive evidence.

The decision of the Senior Vice President for Academic Affairs and Provost will be final.

Drops that Count towards the Limit

The 6 drop limit applies only to students enrolling for the first time as a freshman during the fall 2007 academic term or any term thereafter at a public college or university in Texas, including UHCL. Drops that count towards the limit are those

for which a student receives a grade of WQ on his/her UHCL transcript as well as any equivalent drops reported on that student's transcript(s) from other Texas public colleges and universities. If a student started college Fall 2007 or thereafter, and then transferred to UHCL from an affected Texas public college or university with six drops that are equivalent of WQ, the student may not drop any additional course at UHCL after the census date for the term. If the student transfers with fewer than six drops, the student may drop the remainder of the allowed drops at UHCL.

DESCRIPTIONS OF LETTER GRADES

- Performance in the range of "A" represents exceptional scholarship and intellectual initiative in accomplishing course goals and objectives.
- Performance in the range of "B" represents solid or significant achievement in accomplishing course goals and objectives.
- Performance in the range of "C" represents average or satisfactory achievement in accomplishing course goals and objectives.
- Performance in the range of "D" represents the minimally acceptable performance in accomplishing course goals and objectives.
- An "F" performance represents unsatisfactory or below minimally acceptable achievement in accomplishing course goals and objectives.

Grades of "+" or "-" are refinements of the letter grades, represent grade point variations and may be used at the discretion of the instructor.

Grading System

Grade Points Per Semester Hour	Grade
4.000	A
3.667	A-
3.333	B+
3.000	B
2.667	B-
2.333	C+
2.000	C
1.667	C-
1.333	D+
1.000	D
0.667	D-
0.000	F
WQ*	Student Initiated Drop, No Evaluation
WX*	Withdrawal or Administrative Drop, No Evaluation

NG*	No Grade Submitted, Contact Instructor
I*	Incomplete-No Credit, unless work is not completed on time, then an F is given
CR*+	Credit
NC*+	No Credit
IP*++	In Progress-No Credit

**These grades are not included in computing the grade point average
+CR/NC awarded only for CLEP, master's option and TexES course work
++IP awarded for some undergraduate internships*

GRADE POINT AVERAGE (GPA)

This average is computed by multiplying the semester hours of each course attempted by the grade points earned in the particular course and then dividing the total number of grade points by the total number of hours attempted excluding those hours for which grades are shown with asterisk (*) above. GPAs will round at three decimals.

Cumulative GPA is based on the grade points earned since admission to UHCL or since the last UHCL degree awarded. All UHCL undergraduate and graduate courses taken by undergraduate or post-baccalaureate students are calculated in the undergraduate GPA. Courses transferred in do not calculate in the UHCL GPA.

INCOMPLETE GRADE AND INCOMPLETE GRADE CONTRACT

A grade of Incomplete ("I") may be given at the discretion of the instructor to students who are making satisfactory progress in a course. Incompletes are typically given for emergency situations which occur after the withdrawal date but prior to the end of the semester, and which prevent the student from completing course requirements. When assigning the grade of "I," instructors provide students with an Incomplete Grade Contract that outlines the work to be accomplished before the "I" can be converted to a final grade, and specifies a deadline date. This contract constitutes an agreement between instructors and students. A grade of "I" must be resolved within the time limit set by instructors; however, such limits may not be extended beyond the grade submission deadline for the next long semester following the semester in which the "I" was assigned. Failure to resolve an "I" will result in its conversion to a final grade of "F" on students' permanent records. An "I" can be converted to a final grade only. A statement denoting the lapse will appear on the transcript.

Students should not re-register for a course to complete a grade of "I." Incomplete grade contracts are submitted to the appropriate associate dean's office.

Students on academic probation, who have outstanding "I" grades, will remain on probation until all incompletes are resolved. "I" grades are not calculated in the GPA. An "I" which has been changed to a grade or has been converted to an "F" will be recorded and academic action taken during the semester of the grade change.

In Progress Grade

Some undergraduate internships require a grade of In Progress until a final grade is earned. The "IP" grade will not automatically convert to "F" if not resolved within a specified time.

Grade Changes

Grade changes are allowed for only one of the following three reasons:

- Removal of an incomplete grade.
- Result of a formal grade appeal or hearing process.
- Correction of instructor error.

Other than removing an incomplete, grades will not be changed on the basis of extra work submitted after final grades are assigned.

Only the course instructor may assign grades for students in a course. Grade changes may be made by the instructor or the associate dean in the absence of the instructor. After one long semester, a grade change submitted by an instructor must be approved by the associate dean for the program in which the course is taught. Grade changes must be filed in the Office of Academic Records within one year after the original grade is posted. Grade changes resulting from the completion of In Progress ("IP") or Incomplete ("I") work may only be initiated by the instructor of record or the associate dean. When the grade change is processed, students will be notified by mail by the Office of Academic Records. Academic action that results from a grade change will be taken during the semester of the grade change. The changed grade will be the final grade used to compute the GPA.

Repeated Courses

If students repeat a course, it is with the understanding that the last grade earned in the course is the one counted toward fulfillment of degree requirements and hours earned. Only the hours and grade points earned on the last attempt will be counted in the Grade Point Average (GPA) calculation and in determining academic standing. With prior approval of the appropriate associate dean, students may repeat courses at another college or university to raise a grade, including "F," earned at UHCL. However, the original grade earned at UHCL will remain a part of the academic record. Courses repeated at other institutions are treated as transfer credit. They will not be considered resident credit and will not be included in the UHCL GPA. Only grades earned on repeated courses taken at UHCL will be counted in the UHCL GPA.

ACADEMIC STANDARDS

The university expects students to meet certain standards of academic performance in order to maintain good standing and degree candidacy. The academic performance standards stated in this catalog apply to all students regardless of the catalog under which they entered the university.

Academic Status

Undergraduate students must maintain a cumulative GPA of 2.000 or better in course work at UHCL. Each school may establish standards beyond the university's minimum cumulative GPA requirement. A minimum of 2.000 cumulative GPA is required to graduate. The last attempt of all course work taken as an undergraduate will be used in calculating the grade point average and determining academic status even when those courses are not counted toward degree requirements.

Academic Probation

Students whose cumulative GPA falls below 2.000 will be placed on academic probation. Students who are on academic probation must earn a minimum 2.000 semester GPA on course work each subsequent semester until the grade point deficiency is removed. Only course work taken at UHCL will be applied toward the grade point deficiency. Students on academic probation, whose cumulative GPA meets minimum requirements, will remain on probation until all incompletes are resolved. Students who leave the university on academic probation will be readmitted on academic probation. Academic probation will be noted permanently on students' academic records.

Academic Suspension

Students who are on academic probation and earn less than a minimum 2.000 semester GPA will be suspended from the university. During academic suspension, students may not enroll, audit or visit classes at the university. Academic suspension will be noted permanently on students' academic records.

Reinstatement

Students who are suspended from the university for the first time may apply for reinstatement after one semester of non-enrollment. Students on suspension for the second time are eligible to apply for reinstatement after one year of non-enrollment. Students who have been suspended three times are suspended indefinitely. All academic suspensions are career specific (UGRD and GRAD). The suspension count is reset to zero for undergraduate students who pursue a UHCL graduate degree. Reinstatement following suspension is not automatic. Students who are eligible and seek reinstatement must submit to the associate dean of the school to which they wish to return a written petition justifying their readiness to resume satisfactory academic work at the university. Students who are non-degree-seeking [major codes NONDEGRUG or NONDEGRPB] petition the Office of the Provost. At the time of application for reinstatement from academic suspension, students desiring to change their major from one school to another must submit a Request for Academic Record Change (ARC) form along with a petition for reinstatement to the associate dean of the school to which they wish to be admitted. Courses taken at another college or university while students are on suspension from UHCL may not fulfill UHCL upper-level degree requirements. Such courses may only be used with special permission from the associate dean. If a student has completed additional lower-level requirements during the suspension, it is advisable to include a transcript with the petition, in addition to having an official transcript sent to the Office of Admissions.

Students petitioning for reinstatement over five years after their last term of attendance at UHCL must also resubmit official transcripts from universities and colleges previously attended. Records from previous institutions are destroyed after five years of academic inactivity.

Petitions for reinstatement must be submitted by the following dates:

Summer Semester	April 1
Fall Semester	July 1
Spring Semester	November 1

Students who have not been enrolled for at least one year must file an admissions application with the Office of Admissions and meet the requirements for readmission of former students after reinstatement has been granted.

If students are allowed to enter the university after academic suspension, they enter on academic probation and will remain in that status until their cumulative GPA meets the minimum requirement of 2.000 for undergraduates. A student who is reinstated must undergo mandatory advising until such time that he/she returns to academic good standing. Disciplinary suspensions are not covered by this policy. For details of the UHCL disciplinary policy, see the Student Life Policy Handbook.

DEAN'S LIST

At the end of each semester, all undergraduate students who earn nine or more credit hours during a fall or spring semester (or six or more credit hours during a summer semester) will be considered for the Dean's List. To be named to the Dean's List, students must be in the top 10 percent of eligible students in their schools, based on semester GPA. Students who receive any form of the grades of "I," "D," "NG," "NC," or "F" during the semester are not eligible for the Dean's List.

UNDERGRADUATE STANDING

Students have junior standing when they have earned 29 or fewer UHCL semester hours. They are classified as seniors when they have earned at least 30 UHCL hours but have not been awarded a bachelor's degree. Post-baccalaureate students have previously earned bachelor's degrees and are enrolled in undergraduate course work at UHCL. These students are considered as undergraduate students for all academic purposes and are not eligible to enroll in graduate courses except under the provision outlined for undergraduate enrollment at the graduate level.

MISSED EXAMINATIONS AND ASSIGNMENTS

Students are expected to be present at all announced examinations, including final examinations. Unless satisfactory alternate arrangements are made with instructors, missed examinations will be considered as failed. Students who must be absent from classes for the observance of a religious holy day (as defined by the Texas Education Code) will be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence. Students needing to reschedule an examination or assignment for a holy day should submit a letter of request or

appropriate form to each instructor within 15 days from the first class day of the semester. An instructor should acknowledge receipt where indicated on the form and return a copy to the student. A new date for taking an examination or completing an assignment missed for a holy day shall be set by the instructor. Should an instructor not honor the request for rescheduling examinations or assignments for holy days by setting reasonable new due dates, students may appeal the decision to their associate dean. The instructor or associate dean may require a letter of verification of the observed holy day from the religious institution.

UNDERGRADUATE ENROLLMENT IN GRADUATE COURSES

Seniors who are degree-seeking students at UHCL and who wish to take graduate courses may qualify and enroll in them subject to these conditions:

- Students must be enrolled in their last six hours of undergraduate work.
- Students must have a cumulative UHCL GPA of at least 3.000.
- Approval of enrollment arrangement must be given by the associate dean of the school in which the student will pursue graduate course work.
- If the courses are used to fulfill undergraduate degree requirements, they may not be used to fulfill subsequent graduate degree requirements.

Undergraduate courses are defined as those courses with course numbers in the 3000 and 4000 range. Graduate courses taken as an undergraduate will only calculate in the undergraduate hours earned and in the undergraduate GPA. Undergraduate and post-baccalaureate non-degree-seeking students are not eligible to enroll in graduate courses.

ACADEMIC APPEALS

Academic appeals include those appeals related to grades and academic programs or degree requirements. Specific instructions are provided below for each type of academic appeal. In all instances, the university expects that every attempt will be made initially to resolve such disputes informally through discussions by all relevant parties prior to initiating formal procedures.

GRADE APPEALS

All appeals relating to specific course grades require that students first seek a satisfactory solution with the instructor. If this is not possible or the instructor cannot be reached, the student must send a written statement detailing the grounds for the appeal to the associate dean of the school in which the grade was earned. This written request must be received by the associate dean within 45 days from the calendar date when grades are available as reported in the UHCL class schedule for that semester. The associate dean will then initiate the appropriate procedures to review the appeal. The student will be notified in writing of the decision. The student may appeal this decision in writing to the dean within 15 working days of notification. The dean's decision is final on all grade appeals.

APPEALS OF ACADEMIC PROGRAM OR DEGREE REQUIREMENTS

All appeals relating to specific program requirements (e.g., residency requirements) require that students submit a written petition to the associate dean of the degree-granting school detailing the grounds for the appeal. The associate dean will respond in writing with a decision. The student may appeal this decision in writing to the dean within 15 working days of notification. The dean's decision is final.

ACADEMIC HONESTY POLICY

Preamble and Code

Academic honesty is the cornerstone of the academic integrity of the university. It is the foundation upon which the student builds personal integrity and establishes a standard of personal behavior. The university can best function and accomplish its mission in an atmosphere of the highest ethical standards. The university expects and encourages all students to contribute to such an atmosphere by observing all accepted principles of academic honesty. This policy is designed to encourage honest behavior and is jointly administered by faculty and students.

HONESTY CODE: The Honesty Code is the university community's standard of honesty and is endorsed by all members of the University of Houston-Clear Lake academic community. It is an essential element of the university's academic credibility. It states:

I will be honest in all my academic activities and will not tolerate dishonesty.

Section I: Responsibilities

Joint Responsibility: Students and members of the faculty are jointly responsible for maintaining the academic integrity of the university by following the Academic Honesty Code and by refusing to participate in or tolerate scholastic dishonesty.

Student Responsibility: All students at the University of Houston-Clear Lake are expected to maintain complete honesty and integrity in all academic work attempted while enrolled at the university. This standard of conduct includes reporting incidents of alleged violation of the honesty policy to the instructor involved or, if necessary, to the appropriate academic dean. Each student acknowledges, by the mere act of turning in work for a grade that he or she has honored the Academic Honesty Code.

Faculty Responsibility: Faculty are responsible for helping students comply with the Academic Honesty Policy by noting the Honesty Code on the class syllabus. Instructors should help minimize student temptation to violate the code by enacting adequate security precautions in the preparation, handling and administering of graded work. Instructors are responsible for discussing incidents of alleged violation of the Honesty Code with the student involved, outlining authorized penalties for violation of the Honesty Code and notifying the student's academic dean of record and the Dean of Students when a determination has been made that a student has violated the Honesty Code, regardless of which type of academic sanction the instructor chooses to administer.

While all students are expected to maintain the highest standards of personal academic honesty, it is recognized that some students may not meet these standards. This policy is designated to address, in a uniform manner, cases of alleged violation of the Honesty Code.

Section II: Violations

Honesty Code Violations: Any conduct or activity by a student intended to earn or improve a grade or receive any form of credit by fraudulent or dishonest means is considered an Honesty Code violation. In addition, engaging in any conduct including the following examples which a reasonable person in the same or similar circumstances would recognize as academic dishonesty is considered a violation. Examples of violations of the Honesty Code include, but are not limited to, the following:

1. Acquiring information:
 - a. Acquiring information for any assigned work or examination from any source not authorized by the professor.
 - b. Working with another person or persons on any assignment or examination when not specifically permitted by the instructor.
 - c. Observing the work of other students during any examination.
 - d. Using, buying, selling, stealing, soliciting, copying or possessing, in whole or part, the contents of an unadministered examination.
 - e. Purchasing, or otherwise acquiring and submitting as one's own work, any research paper or other writing assignment prepared by others.
 - f. Providing information:
 - g. Providing answers for any assigned work or examination when not specifically authorized by the instructor to do so.
 - h. Informing any person or persons of the contents of any examination prior to the time the examination is given.
2. Plagiarism:
 - a. Incorporating the work or idea of another person into one's own work without acknowledging the source of that work or idea.
 - b. Attempting to receive credit for work performed by another person, including papers obtained in whole or part from individuals or other sources.
 - c. Copying copyrighted computer programs or data files belonging to someone else.
 - d. Conspiracy - agreeing with one or more persons to commit any act of academic dishonesty.
3. Fabrication of information:
 - a. Falsifying the results obtained from a research or laboratory experiment.
 - b. Presenting results of research or laboratory experiments without the research or laboratory experiments having been performed.
 - c. Substituting for another student to take an examination or to do any academic work for which academic credit will be received. Changing answers or grades

after an academic work has been returned to the student and claiming instructor error.

- d. Submitting work for credit or taking an examination and employing a technique specifically prohibited by the instructor in that course, even if such techniques would be acceptable in other courses.
4. Abuse of resource materials:
- a. Mutilating, destroying, concealing, stealing or altering any materials provided to assist students in the completion of academic work, including library books, journals, computer files, microfilm and microfiche files, materials placed on reserve by the instructor or any such materials as the instructor may provide or assign.
 - b. Copying any data files or copyrighted computer program(s) for one's own personal use or the use of others.
 - c. Copying without permission of the owner, or mutilating or destroying any copyrighted media, printed or electronic (for example, film, video, music, graphics, art, photography or manuscript).
 - d. Failure to report - failing to report to the instructor any incident in which a student witnesses an alleged violation of the Academic Honesty Code. Details regarding the Academic Honesty Enforcement Procedures, Resolutions, Sanctions and Academic Honesty Council can be found in Student Life Policies in hard copy and on-line at the UHCL Web site and in the Faculty Handbook on-line at the UHCL Web site. Further policies governing alteration or misuse of university documents or furnishing false information to university officials may also be found in Student Life Policies or online at the UHCL Web site.

Records

The dean of students shall retain a copy of all Honesty Code Violation Forms. If the sanction imposed is a final grade penalty, suspension or expulsion, the registrar's office is notified and a record of the notification is maintained in the registrar's office according to the prescribed operating procedures of that office. If the student is found in violation of the Honesty Code and the penalty is anything except suspension or expulsion, the form does not become a part of the student's permanent record or transcript. Instead, it is retained by the dean of students. If the student is found in violation of the Honesty Code and the penalty is suspension or expulsion, the record becomes part of the student's permanent academic file and the notation of "Disciplinary Suspension" or "Disciplinary Expulsion" is placed on the transcript. In the case of suspension, the notation will be removed at the conclusion of the specific suspension period at the written request of the student. In the case of expulsion, the entry is noted permanently.

UNIVERSITY DEGREE REQUIREMENTS

University undergraduate degree requirements include Lower-Level, Core Curriculum and Upper-Level requirements.

LOWER-LEVEL REQUIREMENTS

- Fulfillment of the statutory requirements of the state of Texas including:
 - Six hours of U.S. History* (three hours may be Texas History).
 - Six hours of Constitutions of the United States* and Texas.
- Demonstration of written and oral proficiency by completing six hours of English* composition with grades of "C-" or better. Grades of "D+" or below are not acceptable.
- Completion of:
- Three hours of college-level algebra or higher mathematics.**
 - Three hours of natural science with laboratory.
 - Three hours of humanities.
 - Three hours of social sciences.

If approved, up to 30 hours of earned correspondence, advanced placement, (AP) or College Level Examination Program (CLEP) credit may apply as lower-level credit toward graduation. A maximum of three hours of activity credit may be applied toward graduation.

*Certain English, mathematics, history and government credit may be earned by successful completion of the AP or CLEP examinations. No more than three hours in history and in government may be earned through CLEP.

**The college-level algebra requirement may be satisfied in two ways:

- Completing a three hour lower-level College Algebra or higher mathematics course. Students in HSH must complete three semester hours of College Mathematics for Liberal Arts, College Algebra or a higher mathematics course.
- Achieving an acceptable score on the AP or CLEP examination in college algebra.

CORE CURRICULUM REQUIREMENTS

To assure that all graduating students possess broad intellectual perspectives, students must complete a 42 semester-hour core curriculum before graduation. These requirements are built into students' Candidate Plans of Study. UHCL's core curriculum is designed to assure that graduating students demonstrate competencies in reading, writing, speaking and numerical comprehension and calculation, and that they demonstrate an understanding of historical reasoning, social perspectives and an appreciation of the scientific method and the arts. The 42 semester-hour requirement also complies with the Texas Education Code, Chapter 61, Subchapter S mandates as well as core curriculum rules from the Texas Higher Education Coordinating Board. The following outline describes UHCL core curriculum requirements. The requirements are normally satisfied by course work taken at the lower-level or freshmen/sophomore levels. Where individual schools at UHCL specify particular lower-level courses to fulfill core requirements, the required courses are listed in their Texas Common Course Numbering System form. If a student presents a Field of Study Curricula (FOSC), UHCL will accept the credits and apply them to the degree program.

UPPER-LEVEL REQUIREMENTS

Students must complete an approved Candidate Plan of Study (CPS). This plan must include:

- All requirements of the specific degree program. These requirements are reported in this catalog in each school's section.
- A minimum of 120 hours of applicable lower- and upper-level course credit.
- A minimum of 60 hours of upper-level courses. Correspondence credit cannot be used to fulfill this requirement.
- The final 30 hours of upper-level courses taken in residence.
- A minimum of 12 hours in the major taken in residence.
- A cumulative GPA of 2.000 on course work completed at UHCL with grades of "C" or better on at least 30 hours of resident upper-level work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.
- A minimum of 9 hours of lower-level and upper-level composition course credits.

TIME LIMITATION ON COURSE WORK PRIOR TO ADMISSION

Upper-level credit earned more than seven years prior to the most current admission to undergraduate study at UHCL may not be counted unless approval is granted by the dean of the school. It is the prerogative of the dean to determine 1) whether the courses meet current standards of the discipline, and 2) whether students can demonstrate sufficient retention of the content to apply it.

UHCL core curriculum	School of EDU	School of BUS	School of HSH	School of SCE
Communication	6 Hours: Composition (ENGL 1301 & 1302)	6 Hours: Composition (ENGL 1301 & 1302)	6 Hours: Composition (ENGL 1301 & 1302)	6 Hours: Composition (ENGL 1301 & 1302 or Technical Writing)
Math	3 Hours: College Algebra (MATH 1314) equivalent, OR higher math	3 Hours: College Algebra (MATH 1314) OR higher math	3 Hours: Mathematics for Liberal Arts(MATH 1332)OR College Algebra (MATH 1314), equivalent OR higher math	3 Hours: College Algebra(MATH 1314) OR higher math
Natural Science	3 Hours: Earth/Physical Science 3 Hours: Life Science	6 Hours: Natural Science	6 Hours: Natural Science	6 Hours: Natural Science
Humanities and Visual and Performing Arts	3 Hours: Visual and Performing Arts	3 Hours: Visual and Performing Arts	3 Hours: Visual and Performing Arts	3 Hours: Visual and Performing Arts

Humanities and Visual and Performing Arts (cont'd)	3 Hours: Literature	3 Hours: Other Humanities	3 Hours: Literature	3 Hours: Other Humanities
Social and Behavioral Science	6 Hours: US History(3 hours could be Texas History) 6 Hours: Political Sci (3 hours U.S., 3 hours Texas Government) 3 Hours: World Geog. (GEOG 1301)	6 Hours: US History (3 hours could be Texas History) 6 Hours: Political Sci., (3 hours U.S., 3 hours Texas Government) 3 Hours: Soc/Behavioral Science	6 Hours: US History (3 hours could be Texas History) 6 Hours: Political Sci. (3 hours U.S. 3 hours Texas Government) 3 Hours: Soc/Behavioral Science	6 Hours: US History (3 hours could be Texas History) 6 Hours: Political Sci. (3 hours U.S., 3 hours Texas Government) 3 Hours: Soc/Behavioral Science
ADD'L 6 HOURS	EDU	BUS	HSH	SCE
Communication	3 Hours: Public Speaking	3 Hours: Speech	3 Hours: Speech	3 Hours: Speech
Computer Competency	3 Hours: By satisfying course work or passage of a competency examination	3 Hours: By satisfying course work or passage of a competency examination	3 Hours: By satisfying course work or passage of a competency examination	3 Hours: By satisfying course work or passage of a competency examination

LIMITATION ON BUSINESS COURSES FOR NON-BUSINESS MAJORS

Undergraduate students who are not majors in the School of Business can earn a maximum of 25 percent of the credit toward their degree in courses from the business fields of accounting, decision sciences, economics, finance, information systems, management, marketing and statistics.

ADDITIONAL BACHELOR'S DEGREES

Students possessing a bachelor's degree from UHCL or another accredited institution may earn an additional bachelor's degree in a different major by satisfying the following:

- Fulfillment of UHCL's core curriculum requirements as previously noted. These requirements may be fulfilled through prior course work and/or additional current course work, advanced placement credit, correspondence credit or CLEP credit.
- Completion of an approved CPS subject to the following provisions:
 - Fulfillment of all requirements of the specific degree program
 - Completion of a minimum of 30 hours of upper-level course work which must be taken in residence
- A cumulative GPA of 2.000 on course work completed at UHCL and grades of "C" or better on at least 30 hours of resident upper-level course work. Grades of "C-" or below cannot be applied toward the 30 hours of resident upper-level work.

Students pursuing additional bachelor's degrees will be classified as post-baccalaureate and considered as undergraduates for all purposes including standards for academic performance. Credits earned and applied toward any degree previously earned may not be applied toward an additional bachelor's degree. Students pursuing two or more degrees simultaneously may not apply the same credit to more than one degree.

DOUBLE MAJORS

Students may earn a baccalaureate degree with two majors (i.e., a double major) provided they meet all the following requirements:

- The baccalaureate degree must be the same for both majors (e.g., BA, BS, BBA) and both majors must be in the same school.
- Students must satisfy the school and major degree requirements for their primary major that were in effect at the time they were admitted into the primary major and those for their second major in effect at the time they were admitted into the second major.
- Students may not add a second major to a baccalaureate degree they have already received.
- Students may use no more than six semester hours of major field course work required by the first major to satisfy major field degree requirements in the second major.
- Students must meet minimum grade requirements required by the school for each major.
- Students must complete a minimum of 12 semester hours of advanced work in residence in each major. Students pursuing a double major who complete all degree requirements for one major but not the other may graduate with a single major only after they obtain approval from the dean of the school.

The University of Houston-Clear Lake does not recognize any number of major above two for a single baccalaureate degree. Students who want official university recognition for more than a double major must earn more than one baccalaureate degree.

GRADUATION UNDER A PARTICULAR CATALOG

Degree-seeking students should file Candidate Plans of Study (CPS), normally in the first semester of enrollment. Graduation requirements will be those of the UHCL Catalog in effect when the CPS is signed and dated by the appropriate dean's office and will be effective on that date.

Students transferring within a year directly to UHCL from a Texas public community college may petition the school's associate dean to have the initial CPS use the degree requirements of the catalog in effect when the students began the last period of continuous enrollment at the community college or a subsequent catalog. The effective date of the CPS will be either the date the students began the last period of continuous enrollment at a college prior to transferring to UHCL or January 1 of the academic year of the catalog used.

If students maintain continuous enrollment, they are entitled to graduate under the degree provisions on the CPS. Failure to enroll in and satisfactorily complete at least one course in a 12-month period shall break students' continuous enrollment for the purpose of the CPS. The associate dean may require revision of the CPS of students who have not maintained continuous enrollment. The revision may bring the plan into conformance with provisions of any catalog issued after the effective date of the plan. Students may, with the approval of their advisor and associate dean, amend their CPS to comply with the provisions of catalogs issued after the effective date of a previously filed CPS. When degree requirements change because of changes in standards set by regulatory authorities, licensing authorities or accrediting agencies, CPSs for all students in affected programs may be revised. In such cases, the university will seek to alter the CPS only to the extent required to meet the new standards.

Degree requirements must be completed within seven years from the effective date of the CPS. Exceptions may be granted by the appropriate dean. Undergraduate students exceeding the time limit will automatically come under the provisions of a more recent catalog, the specific edition to be determined by the appropriate dean's office.

Applying for Graduation

Degree candidates must officially apply for graduation in the Office of Academic Records within the first three weeks of the semester in which they plan to graduate, but no later than the date specified in the academic calendar. Students who miss the specified deadline to apply may request to submit a late application for consideration. If approved, there will be a \$20 late fee. To be eligible to apply for graduation, students must have completed or be enrolled in the final courses required to meet graduation requirements. A non-refundable fee of \$65 is required. If students do not graduate at the close of the semester for which they have applied, they will be required to reapply and pay another \$65 fee during the subsequent semester in which they intend to graduate. As there is no graduation ceremony in the summer, students who graduate in August will be eligible to participate in the December ceremony. Diplomas will be mailed to recipients within six weeks after the graduation date. Students who graduate from UHCL must complete a new application and pay \$35 in order to continue taking classes.

Graduation with Honors

Undergraduate students who complete their degree requirements with exceptionally high scholastic averages will be eligible to graduate with honors. Those who are in the top two percent of each school's enrollment of their class will be eligible to graduate summa cum laude; those in the next three percent, magna cum laude; and those in the next five percent, cum laude. The minimum cumulative grade point average for consideration is 3.500. The cumulative grade point average used in determining degree honors includes all hours attempted and grades earned in those courses. As a result, the cumulative grade point average used in determining degree honors may differ from the cumulative grade point average that appears on the student's transcripts which is based only on the grades earned in the last attempt of each course.



Explore your opportunities with Distance Education.



DISTANCE AND OFF-CAMPUS EDUCATION

- General Information
- Course Delivery Formats
- DE Admissions Requirements
- Schedule of Classes
- Registration
- Financial Aid and Scholarships
- Accessible Student Services
- Online Programs
- Off-Campus Programs by Locations

GENERAL INFORMATION

In an attempt to meet this need for flexibility, the university offers classes in a variety of formats and in several convenient locations. Students can opt to complete a bachelor's or master's degree at centers close to their home or office. Alternatively, they can choose to take coursework online. Many of UHCL's degree programs offer Web-enhanced classes. Students and faculty can make use of the online environment to supplement traditional classes - decreasing the amount of time students actually spend in the classroom.

Distance and Off-Campus Education at UHCL facilitates and supports the delivery of UHCL courses, degrees and certificate programs as defined by the UHCL catalog.

COURSE DELIVERY FORMATS

Distance Education (DE) is any instruction that takes place outside the UHCL campus classroom setting. University of Houston-Clear Lake offers students the opportunity to supplement their on-campus coursework. Classes offered through DE are regular UHCL classes taught by UHCL faculty with the same pre-requisites and requirements as classes taken on campus. Classes are offered in a variety of formats that provide options for students:

- Online (Internet) - This format is delivered via the internet using a course management tool called Blackboard with all class instruction delivered and course requirements fulfilled online. No face-to-face instruction and student interaction or face-to-face student group interaction is required. Courses offered online provide an environment for flexible learning and teaching while delivering the same high-quality content as in a traditional setting. UHCL's online classes are NOT open entrance/open exit or traditional correspondence courses. Although students are free to do their work online any time it fits into their weekly schedules, assignments are due as specified in the individual course syllabus.
- Web-enhanced (Hybrid) - With this format, classroom instruction is delivered and course requirements are fulfilled via a combination of face-to-face instruction at the UHCL campus and off-campus sites and online. In a web-enhanced class, an instructor can deliver all instruction online but require students to attend mandatory orientation, class presentations, and in-class examinations. The number

of face-to-face meetings is determined by the instructor and can be found on the footnotes for the class on the UHCL class schedule. The Web-enhanced format is popular both on the UHCL campus and at the off-campus learning centers.

- Off-campus courses - UHCL students have the opportunity to complete degrees close to where they live or work. Courses at our off-campus learning centers may be offered face-to-face in a traditional classroom, online or as a Web-enhanced class.

UHCL is committed to using the most current instructional techniques to ensure comparable learning outcomes between course work delivered in a traditional, Web-enhanced, or online format. It is recommended that students have their own computer with access to the Internet prior to registering for an online class. The university and off-campus centers have fully equipped computer labs that students may use.

DE ADMISSION REQUIREMENTS

Admission requirements are identical to those for students participating in degree programs on the UHCL campus. Students interested in participating in a distance education program must indicate so on the UHCL Application for Admissions. With careful planning and close collaboration with the DE Academic Advisors, students can earn their bachelor's degree in as little as two years. The DE Academic Advisors are available to assist students with the admissions process.

SCHEDULE OF DE CLASSES

Each semester, students have the ability to review course offerings via the online search engine on the UHCL Web site. See CLASS schedule available online at www.uhcl.edu. To search for distance education courses, select your location of choice and or instruction mode of delivery then search. The distance education class schedule can also be found at the DE Web site at www.uhcl.edu/disted.

REGISTRATION

Upon successful completion of the application process, students can register for classes online through E-Services. Tuition and fees can be paid by credit card or students can arrange to make installment payments. Students that register to take classes at an off-campus location must attend classes at that particular location.

FINANCIAL AID AND SCHOLARSHIPS

UHCL provides quick and easy access to Financial Aid and Scholarship information to students at a distance. Eligibility for this assistance is the same as on campus students. All forms, complete list of scholarships, timelines and instructions are available online at the Financial Aid Web site. Financial assistance is available to distance education students, as it would be for on-campus students. Please refer to www.uhcl.edu/finaid for more information.

ACCESSIBLE STUDENT SERVICES

The DE office has developed unique advising procedures to best serve the needs of its students. Advisors are available to assist students via face-to-face appointments,

telephone or e-mail. Academic advising is available at each of our off-campus locations. To schedule an appointment, please call 281-283-3031.

UHCL also provides assistance with the delivery of student services to off-campus and online students, such as:

- Student photo IDs available at off-campus locations
- Academic advising for students in online programs
- Career exploration
- Online writing tutors
- Online Bookstore
- Online Course Support
- Online study skills assessment
- Live chat services with the Student Assistance Center (SAC)
- Online student news publication THE SIGNAL
- Disability services available online and off-campus
- Virtual Library services

Additionally, UHCL E-Mail is the official method of communication between the university and students. Students will receive official UHCL notifications (i.e. financial aid award packages) through their UHCL E-Mail accounts. It is the student's responsibility to check their accounts regularly.

ONLINE PROGRAMS

Bachelors of Science in General Business
Bachelors of Science in Finance
Bachelors of Science in Psychology
Bachelors of Science in Public Service Leadership

OFF-CAMPUS PROGRAMS BY LOCATIONS

UHCL Pearland Campus

1200 Pearland Parkway
Pearland, TX 77581

Programs offered:

Bachelor of Science in Accounting
Bachelor of Science in Behavioral Sciences-General
Bachelor of Science in Criminology
Bachelor of Science in General Business
Bachelor of Science in Interdisciplinary
 Studies with EC-6 Generalist
 Certification
Bachelor of Science in Psychology

Texas Medical Center

2151 West Holcombe

Houston, TX 77030

Programs offered:

Bachelor of Applied Science in Healthcare Services

Bachelor of Science in Healthcare Administration

UHS Sugar Land Center

4000 University Blvd.

Sugar Land, TX 77479

Programs offered: Bachelor of Science in Psychology



Explore your opportunities with Distance Education.





Professor of Management, Lou White, talks with student Kyle Enriquez.



SCHOOL OF BUSINESS

- Accounting
- Environmental Management
- Finance
- General Business
- Healthcare Administration
- Legal Studies
- Management Information Systems
- Marketing
- Professional Accounting

The mission of the School of Business (BUS) at the University of Houston–Clear Lake is to provide quality lifelong education at the junior, senior and master's level for the Houston/Galveston metropolitan population. Undergraduate business programs primarily serve the region's community college systems by providing transfer students the opportunity to complete a four-year degree. Graduate programs serve both full-time students and working professionals in the region. Instruction is designed for small classes and flexible hours and fosters development of business skills with global applicability. Faculty pursue a blend of research contributing to knowledge in professional practice, innovative pedagogy and discipline-based scholarship.

	Office	Phone
Office of Academic Advising	Bayou 2111	281-283-3110
Office of the Dean	Bayou 2239	281-283-3100
Web Site	http://bus.uhcl.edu	

The graduate and undergraduate accounting and business administration degrees in the School of Business are accredited by the AACSB International - The Association to Advance Collegiate Schools of Business. The school's graduate degree in Healthcare Administration is accredited by the Commission on Accreditation of Healthcare Management Education. A variety of undergraduate and graduate degrees are offered in the business and public administration disciplines. Students are eligible to apply for jobs through the Cooperative Education Program, which is designed to prepare students for careers by integrating paid work experience with academic study.

H.B. 1172 requires that students entering an institution in fall 2008 or later may not be required to complete more than the minimum number of semester credit hours required for the baccalaureate degree by the Southern Association of Colleges and Schools (120 semester credit hours) unless the institution determines that there is a compelling academic reason for requiring completion of additional semester credit hours for the degree. All UHCL baccalaureate degrees are in compliance with H.B. 1172 effective fall 2008.

H.B. 1172 does not apply to students enrolling prior to fall 2008 or to degree plans in existence prior to fall 2008. Students requesting new degree plans should be aware that they may risk being charged higher tuition if the new degree plan puts them in violation of exceeding 30/45 semester credit hours required for completion of the degree rule

(H.B. 1172). Furthermore, changing degree plans may disqualify a student from being eligible to receive a tuition rebate upon graduation for completion of the degree with no more than three attempted hours in excess of the minimum number of semester credit hours required to complete the degree under the catalog under which the student graduated.

UNDERGRADUATE REQUIREMENTS FOR ALL BUSINESS AND PUBLIC ADMINISTRATION DEGREES

GENERAL DEGREE REQUIREMENTS FOR BUSINESS AND PUBLIC ADMINISTRATION DEGREES

A minimum of 60 upper-level hours and a total of 120 hours are required for the baccalaureate degree. A minimum GPA of 2.0 or higher is needed to graduate.

Basic Requirements

To assist students in obtaining sufficient background prior to transferring to UHCL, the following curriculum is required:

Accounting Principles ¹	6 hours
Business Law	3 hours
Computer Literacy ²	3 hours
Economic Principles	6 hours
English Composition [must be C or better]	6 hours
Visual and Performing Arts	3 hours
Other Humanities	3 hours
Government (three hours U.S. and three hours US/Texas)	6 hours
History (six hours U.S. or three hours may be Texas)	6 hours
Mathematics (Calculus and Finite Math) ³	6 hours
Natural Science (ASTR, BIOL, CHEM, GEOL, PHYS) ⁴	6 hours
Social Sciences (ANTH, ECON, GEOG, PSYC, SOCI)	3 hours
Speech	3 hours
Total	60 hours

¹Students in the Environmental Management plan may replace the six hours of Accounting Principles with Biology, Geology, Physics, Ecology, Environmental Science or Chemistry beyond the six hours required for admission. Students in the Legal Studies plan may replace Accounting Principles II with a Foreign Language or English beyond the six hours of required composition.

²Students majoring in Management Information Systems must complete Computer Literacy plus 3 hours of Computer Programming.

³Students in Legal Studies and Environmental Management may replace Calculus with College Algebra. Students in the Legal Studies plan ONLY may replace MATH 1324 Finite Math with three hours of English beyond the core requirements or a foreign language.

⁴Students in the Environmental Management plan are required to take six hours of Chemistry.

Many of these preparatory courses are not taught at University of Houston-Clear Lake (UHCL) and must be taken at a community college. Accounting Principles, Economic Principles, College Algebra and Finite Math are only offered at the freshman/sophomore level. Without completion of these specific prerequisites, very few courses required for business plans can be taken at UHCL.

UPPER-LEVEL REQUIREMENTS FOR BUSINESS PLANS (MAJORS)

Upon acceptance as a degree candidate, a student's Candidate Plan of Study (CPS) will be prepared during their first semester. The BUS requires 60 upper-level credits.

The plans in Business Administration prepare students to assume administrative, managerial and professional positions in their respective fields. Undergraduate degrees are offered in accounting, finance, management information systems, healthcare administration, management, marketing and general business.

Core Requirements comprise 33 hours; Plan Requirements vary from 15 to 27 hours, depending upon the specific business plan. Non-Business, BUS and General Electives are added to each CPS as needed to provide a total of at least 60 upper-level hours, as well as 120 total hours required for graduation. No more than six hours of grades in the range of "D+," "D" or "D-" are permitted in upper-level Core Requirements. All courses in Plan Requirements must be completed with a grade of "C-" or better. A minimum GPA of 2.0 or higher is needed to graduate.

Core Requirements for Business Majors

The following courses, or their approved equivalents, together with accounting and economics principles and business law, constitute the business core and are required of all business students:

ACCT 3331	Managerial Accounting ¹
DSCI 3131	Quantitative Methods for Management
DSCI 3231	Statistics I
ECON 3131	Money and Banking
FINC 3331	Business Finance
ISAM 3033	Information Systems for Management
MGMT 3031	Management Theory and Practice
MGMT 4132	Strategic Management
MGMT 4534	Organizational Behavior
MKTG 3031	Marketing: Creating Value for Customers
WRIT 3132	Written Communication in Business

¹All Accounting majors are required to substitute ACCT 3333 Cost Accounting for ACCT 3331. Finance majors may take either ACCT 3331 or ACCT 3333.

Plan Degree Requirements for Business Majors

Accounting Plan Requirements

Undergraduate students majoring in accounting have two options: the bachelor of science degree in Accounting and the integrated bachelor of science/master of science degrees in Professional Accounting. The objective of the bachelor of science degree in Accounting is to provide basic conceptual accounting and business knowledge as a foundation for entry level positions in industry, financial institutions and non-profit organizations, as well as to provide a basis for further study to pursue a career in public accounting.

Plan requirements for the bachelor of science degree in Accounting consist of these courses:

ACCT 3431	Intermediate Accounting I
ACCT 3432	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4431	Auditing I
ACCT 4532	Advance Financial Accounting

Elective Requirements (9 hours)

ACCTElective	(3 hours)
BUSElective	(3 hours)
General Elective	(3 hours)

Integrated B.S. and M.S. in Professional Accounting Plan Requirements

The integrated bachelor of science and master of science degrees in Professional Accounting are designed for focused entering undergraduate students who know they want to meet the requirements to sit for the CPA examination and pursue a professional career in accounting. The objective of the integrated plan is to provide students with the required background to sit for the CPA examination and to provide a basis for exercising judgment in accounting-related and business decisions within administrative, managerial and professional positions as well as enhance rapid career development.

Students must apply to the graduate program, take the GMAT exam and meet all graduate accounting entrance requirements by the first semester of their senior year (i.e., after they have completed their first 36 hours of the integrated plan). In addition, students in the integrated plan will be required to have a cumulative UHCL GPA of at least 3.000 for admission to the M.S. in Professional Accounting. The B.S. in Professional Accounting will not be awarded until all requirements for the M.S. are completed. Students failing to be admitted into the graduate Professional Accounting plan will revert to the 120-hour B.S. in Accounting degree plan and proceed in the normal manner to graduation. Students planning on taking the CPA examination are required to have a 3-semester credit hour ethics course, which has been approved by the Texas State Board of Public Accountancy. ACCT 4436 Ethics for Accountants has been approved by TSBPA and satisfies the ethic course requirement.

The Candidate Plan of Study for the integrated B.S. and M.S. in Professional Accounting will include 117 hours of undergraduate and 33 hours of graduate course work. Plan requirements consist of the following courses:

Undergraduate Courses:

ACCT 3431	Intermediate Accounting I
ACCT 3432	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4431	Auditing I
ACCT 4436	Business Ethics for Accountants
Undergraduate BUS Elective	(3 hours)
Undergraduate General Elective	(3 hours)

Graduate Courses:

ACCT 5234	Corporate Income Tax
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ACCT 5431	Advanced Accounting
ACCT 5432	Accounting for Government & Not-for-Profit Organizations
ACCT 6732	Seminar in Auditing Theory and Practices
LEGL 5131	Legal Concepts for Business Professionals

Graduate Electives:

ACCT Electives	(9 hours) ¹
BUS Electives	(6 hours) ¹
FINC Elective	(3 hours) ¹

¹Course work at the 3000- or 4000-level and graduate foundation courses may not be included in the 18 hours of graduate ACCT, FINC or BUS electives.

Integrated B.S. and M.S. in Professional Accounting Sub-plan in Management Information Systems

Students in the integrated Professional Accounting Plan may complete a sub-plan (concentration) in Management Information Systems by completing the following combination of undergraduate and graduate course work. Plan requirements consist of these courses:

Undergraduate Courses:

ACCT 3431	Intermediate Accounting I
ACCT 3432	Intermediate Accounting II
ACCT 4331	Federal Taxation of Individuals
ACCT 4332	Financial Information Systems
ACCT 4431	Auditing I
ACCT 4436	Business Ethics for Accountants
ISAM 3034	Introduction to Business Programming
Undergraduate General Elective	(3 hours)

Graduate Courses:

ACCT 5234	Corporate Income Tax
ACCT 5431	Advanced Accounting
ACCT 5432	Accounting for Government and Not-for-Profit Organizations
ACCT 6732	Seminar in Auditing Theory and Practice
LEGL 5131	Legal Concepts for Business Professionals

Graduate Electives:

FINC elective	(3 hours)
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Two of the following four courses (6 hours):

ACCT 5333	Fundamentals of Database Design and Development
ACCT 5334	Advanced Database Applications Development
ACCT 5335	Information Systems Audit and Security
ACCT 5336	Systems Analysis and Design

Finance Plan Requirements

The plan in Finance leads to the bachelor of science degree. Plan requirements consist of these courses:

ACCT 3431	Intermediate Accounting I ¹
FINC 3333	Intermediate Financial Management
FINC 3533	Investments
FINC 4331	Contemporary Financial Institutions
FINC 4431	Structure of Financial Statements ²
FINC Electives	(3 hours) To be selected from the following courses:

FINC 3531	Real Estate Investment Analysis
FINC 4531	International Financial Operations
FINC 4631	Treasury Management
FINC 4931	Selected Topics in Finance
General Electives	(9 hours)

¹ Student can take either ACCT 3431 or ACCT 3332.

² Student can take either ACCT 3432 or FINC 4431.

General Business Plan Requirements

The plan in General Business leads to the Bachelor of Science degree. Plan requirements consist of 18 hours in business administration course work with no more than six hours of course work from any one of the following areas: accounting, business and public administration, decision sciences, economics, finance, healthcare administration, information systems, management or marketing, and a minimum of nine hours of general electives.

Healthcare Administration Plan Requirements

The plan in Healthcare Administration leads to the Bachelor of Science degree. Plan requirements consist of these courses:

HADM 3131	Foundations of Healthcare Administration Leadership
HADM 3531	Physician Group Practice Management
HADM 4132	Healthcare Planning and Marketing
HADM 4136	Medical Reimbursement
HADM 4332	Legal Dimensions of Healthcare Administration (or LEGL 3531, 3432, 4532 or 4632)
HADM 4531	Financial Dimensional of Healthcare Administration II
MGMT 3331	Human Resource Management
HADM Elective	(3 hours)
Non-Business Elective	(3 hours)

Healthcare Services Plan Requirements (Pending THECB Approval)

The Bachelor of Applied Science (BAS) is a collaborative partnership with community colleges and employers in the UHCL service area. The program is designed for students holding an associate degree in the allied health professions. Upon their enrollment at UHCL, the program allows incoming students to transfer a significant portion of their vocational/technical credit hours that they earn through their Associates program. However, students enrolled in the BAS will be required to complete the core curriculum as well as professional core at UHCL in order to complete their BAS degree. Five different tracks will be available to students pursuing a BAS degree. Healthcare Services is one of those tracks.

Students possessing AAS degrees have the technical skills required for their health care professions, but their courses do not require them to complete the State of Texas mandated 42-hour undergraduate core curriculum (general education) for a bachelor's degree. This track will be offered at UHCL's Healthcare Administration Department, which is physically based in the Texas Medical Center. This track will allow students with an AAS in the allied health professions to complete a portion of the undergraduate core at the upper-level. The curriculum will save the students valuable time and money, as well as prepare them to advance into an administrative position within their units of healthcare facilities.

Plan Requirements Consist of these Courses (27 hours):

HADM 3131	Foundations of Healthcare Administration Leadership
HADM 3232	Financial Dimensions of Healthcare Administration I
HADM 3333	Healthcare Economics
HADM 3531	Physician Group Practice Management ¹
HADM 4132	Healthcare Planning and Marketing
HADM 4136	Medical Reimbursement
HADM 4236	Hospital Operations ¹
HADM 4332	Legal Dimensions of Healthcare Administration (or LEGL 3531, 3432, 4532 or 4632)
HADM 4431	Human Resource in Healthcare Administration
HADM 4531	Financial Dimensional of Healthcare Administration II

¹Students can select either HADM 3531 Physician Group Practice Management or HADM 4236 Hospital Operations.

Prescribed Elective Courses (9 hours):

PSYC 4332	Introduction to Industrial/Organizational Psychology ²
PSYC 4730	Behavioral Statistics
MGMT 4534	Organizational Behavior ²
MKTG 3031	Marketing: Creating Value for Customers

²Student can select either PSCY 4332 Introduction to Industrial/Organizational Psychology or MGMT 4534 Organizational Behavior.

Management Plan Requirements

The plan in Management leads to the bachelor of science degree. Plan requirements consist of 15 hours of management electives, a minimum of twelve hours of general electives.

Specialization Tracks:

Required prerequisites for all tracks:

MGMT 3031	Management Theory and Practice
MGMT 4534	Organizational Behavior

Leadership Track:

MGMT 4334	Leading Teams
MGMT 4237	Leadership

Plus six (6) hours from the list below:

LEGL 4533	Dispute Resolution
MGMT 3133	Organizational Communication
MGMT 4236	Effective Negotiations
MGMT 4238	Cross-Cultural and International Leadership
MGMT 4332	Organizational Structure and Processes
MGMT 4431	Leadership in a Global Business Environment
MGMT 4536	Organizational Development

Human Resource Track:

MGMT 3331	Human Resource Management
MGMT 3531	Wage and Salary Administration
MGMT 4136	Human Resource Management Information Systems

Plus three (3) hours from the list below:

LEGL 4533	Dispute Resolution
MGMT 3431	Human Resource Planning, Staffing and Selection
MGMT 4333	Collective Bargaining in the Public Sector

MGMT 4531 Industrial Labor Relations
MGMT 4536 Organizational Development

Environmental Management Track:

ENVR 3131 Foundations of Environmental Management
ENVR 4135 Introduction to Environmental Law

Plus an additional six (6) hours from any 4000 level ENVR courses.

Management Information Systems Plan Requirements

The plan in Management Information Systems leads to the bachelor of science degree. The objective of the degree coursework is to prepare students to pursue careers such as business application developer, database application developer, network administrator, web designer, technical support, etc. Plan requirements consist of these courses:

CSCI 3132 Programming with Pascal
CSCI 3134 Software Development with Java
ISAM 3331 Introduction to Business Databases
ISAM 3332 Business Applications Programming with Visual Basic
ISAM 4331 Internet Applications in Business
ISAM 4635 Analysis & Design of Business Systems
ISAM 4636 Introduction to Network Management
ISAM Elective (3 hours)
BUS Elective (3 hours)

Marketing Plan Requirements

The plan in Marketing leads to the bachelor of science degree. Plan requirements consist of these courses:

MKTG 3133 Channel Relationships and Dynamics
MKTG 3531 Marketing Intelligence and Data Management
MKTG 4334 Business Marketing Strategy
MKTG Electives (9 hours)
General or Non-Business Electives (9 hours)

UPPER-LEVEL REQUIREMENTS FOR PUBLIC ADMINISTRATION PLANS (MAJORS)

General Degree Requirements for Public Administration Plans

A minimum of 60 upper-level hours and a total of 120 hours are required for the baccalaureate degree.

These professional plans offer a blending of private and public sector administration. The objective of these plans is to create an understanding of basic administrative skills and an appreciation of the social, economic and political environment of public administration.

Once a student is accepted as a degree candidate, a Candidate Plan of Study (CPS) will be prepared. In some degree plans, sufficient hours of electives are added to the course requirements on the CPS to meet the 60 upper-level hour requirement and/or the 120 total hour requirement.

Undergraduate Candidate Plans of Study in public administration must contain no more than 25 percent of their credit hours from the business fields of accounting,

business and public administration (BAPA), decision sciences, economics, finance, healthcare administration, information systems, management and marketing. A minimum GPA of 2.0 or higher is needed to graduate.

Plan Degree Requirements for Public Administration Plans

Environmental Management

The undergraduate plan in Environmental Management leads to the bachelor of science degree. The objective of the plan is to prepare students for positions involving the management of natural resources in a variety of public and private settings. Students are expected to complete six hours of course work in chemistry before enrolling.

Plan requirements consist of these courses:

CHEM 3333	Environmental Chemistry
DSCI 3231	Statistics I
ENVR 3131	Foundations of Environmental Management
ENVR 4133	Techniques of Environmental Assessment
ENVR 4135	Introduction to Environmental Law
ENVR 4332	Process of Environmental Permitting
ENVR 4333	Introduction to Pollution Control Technology
ENVR 4336	Administrative Practices & Ethical Considerations
MGMT 3031	Management Theory & Practice
MGMT 4537	Government Budget Planning & Analysis
WRIT 3135	Technical Writing

Two of the following five courses (6 hours):

ENVR 4131	Principles of Air Quality
ENVR 4132	Water Management Principles
ENVR 4136	Fundamentals of Hazardous Waste Management
ENVR 4137	Solid Waste Management Principles
ENVR 4334	Health & Safety Management

One of the following five courses (3 hours):

MGMT 3133	Organizational Communication
MGMT 3331	Human Resource Management
MGMT 4431	Leadership in a Global Business Environment
MGMT 4533	International Business Management
MGMT 4534	Organizational Behavior

One of the following seven courses (3 hours):

BIOL 3333	Environmental Biology
CHEM 3233	Organic Chemistry I
CHEM 4535	Environmental Sampling & Monitoring
GEOG 4231	Fundamentals of GIS
GEOL 3333	Environmental Geology
GEOL 4233	Soils in the Environment
INDH 3333	Environmental Safety & Health
	Other pre-approved upper-level science or safety courses

Electives (15 hours):

ENVR Elective	(3 hours)
General Elective	(3 hours)
Non-Business Electives	(9 hours)

Legal Studies

The undergraduate plan in Legal Studies leads to the bachelor of science degree. It is the goal of the Legal Studies program to introduce students to the study of law and the workings of the American Legal system as a foundation for a career as a paralegal professional or the more advanced study of law in a law school environment. The degree program has three principal educational objectives: 1) to educate students in the legal principles that underpin substantive and procedural areas of law such as torts, family law, probate, criminal law, the law of real property, consumer law, and civil litigation; 2) to equip students with the legal research, writing and critical thinking skills necessary to foster their continuing independent study of the law beyond the classroom; and 3) to raise student's awareness and understanding of the important role that the system of trial by jury, the appellate process and dispute resolution play in preserving the governing principles of a democratic society.

Plan requirements consist of these courses:

LEGL 3037	Legal Writing & Appellate Process
LEGL 3133	Introduction to Law & the American Legal System
LEGL 3231	Logic
LEGL 3432	American System of Trial by Jury
LEGL 3531	Legal Research
LEGL 3533	Introduction to Texas Rules of Pre-Trial Civil Procedure
LEGL 4532	Family Law & Procedure
LEGL 4533	Dispute Resolution
LEGL 4534	Property Transactions
LEGL 4535	Criminal Law
LEGL 4536	Torts
LEGL 4539	Estate Planning & Administration

Required Electives (24 hours):

One course to be selected from ACCT, DSCI, ENVR 4135, FINC, HADM, ISAM, MGMT or MKTG rubrics (3 hours);

One course to be selected from ARTS, HIST or HUMN rubrics (3 hours);

Two of the following four courses: WRIT 3035, WRIT 3037, WRIT 3132 or WRIT 3135 (6 hours);

12 hours of general electives.

Political Science

NOTE: The Political Science program has been transferred to the School of Human Sciences and Humanities. Please check their section of the catalog for plan requirements.



Faculty in the School of Business work with students to help them meet their academic goals.





UHCL recognize local scholarship winners and anticipated graduates from its Success Through Education Program, which was created in collaboration with Goose Creek Consolidated ISD and Lee College to offer a seamless path that prepares students for a teaching career. UH-Clear Lake's School of Education Dean Dennis Spuck (center) congratulates the scholars, including (l to r) Jena Cummings, Jennifer Southerly, Elizabeth Rodriguez, Fabiola Avena and Norma Dominguez.



SCHOOL OF EDUCATION

- School of Education
- Interdisciplinary Studies:
 - EC-6 Generalist
 - (Early Childhood Concentration)
 - EC-6 Generalist (Reading Concentration)
 - EC-6 Bilingual Generalist
 - EC-6 ESL Generalist
 - EC-6 Generalist with EC-12 Special Education (All Level)
 - 4-8 Generalist
 - 4-8 ESL Generalist
 - 4-8 Social Studies
 - 4-8 Science
- Bachelor of Applied Science in Interdisciplinary Studies
 - Educator of Young Children
 - Young Children with Disabilities
 - Early Childhood Program Leadership
- Post-Baccalaureate Teacher Certification
 - EC-6 Generalist
 - EC-6 Bilingual Generalist
 - EC-6 ESL Generalist
 - 4-8 Generalist
 - 4-8 English Language Arts and Reading
 - 4-8 English Language Arts and Reading/Social Studies
 - 4-8 Social Studies
 - 4-8 Mathematics
 - 4-8 Science
 - 8-12 English Language Arts and Reading
 - 8-12 History
 - 8-12 Social Studies
 - 8-12 Mathematics
 - 8-12 Life Science
 - EC-12 Special Education

Building on a solid base of liberal arts and general studies, the School of Education (SoE) seeks to produce thoughtful, skilled and humane educators. Numerous plans are available to help students develop into highly qualified professionals.

The SoE offers an extensive choice of certification plans in undergraduate specializations. Many alumni find employment in a variety of educational settings, while others pursue careers in industry, government, independent practice or consulting. Plans in the SoE are fully approved by the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA), and the University of Houston-Clear Lake is accredited by the National Council for Accreditation of Teacher Education (NCATE).

	Office	Phone
School of Education	Bayou 1231	281-283-3600
Center for Professional Development of Teachers	Bayou 1231	281-283-3612
Center for Educational Programs	Arbor 190	281-283-3530
Office of Academic Advising	Bayou 1231	281-283-3615
Office of Educator Certification	Bayou 1231	281-283-3618
Office of State Assessments	Bayou 1231	281-283-3609
Research Center for Language and Culture	Bayou 1325	281-283-3580
Learning Resources Review Center	Bayou 3402	281-283-3900
Office of the Associate Dean	Bayou 1231	281-283-3620
Office of the Dean	Bayou 1237	281-283-3501

Web site	http://www.uhcl.edu/soe
National Council for Accreditation of Teacher Education (NCATE)	http://www.ncate.uhcl.edu
New Teachers Online (NTOL)	http://www.uhcl.edu/soe/ntol
SoE E-mail Address	education@uhcl.edu

In the School of Education we believe that teaching, learning and educational leadership should be learner-centered. Whether we are referring to university pre-service teachers, in-service teachers pursuing advanced studies, others in professional educator roles or the learners influenced by these educators, the focus of teaching and learning is on the learner. The SoE conceptual framework guides the way in which we structure our university courses and degree plans. This is reflected in the SoE Mission Statement quoted below. It is also the central theme that is reinforced in our classes. The vision of the School of Education is a learner-centered community in which success for all students is paramount.

The mission of the School of Education is to prepare outstanding educators and leaders in education through achievement of the highest standards of knowledge, skills and dispositions to assist all students to learn. The mission is accomplished by promoting:

- excellence and innovation in learner-centered teaching and learning for all
- the value and understanding of all types of diversity
- professional and personal integrity
- effective use of technologies
- partnerships with and service to the community
- ongoing assessment for both candidate and program improvement
- research to expand the knowledge base for teaching and learning.

Although each of these is critically central to the goals and directions of the School of Education at the University of Houston-Clear Lake, the first, "...promoting excellence and innovation in learner-centered teaching and learning for all...", is the most succinct statement of what we value as a professional higher education faculty.

ACCOUNTABILITY AND ACCREDITATION

The University of Houston-Clear Lake (UHCL) is accredited by the Southern Association of Colleges and Schools (SACS). Unique to education itself are other accrediting and accountability bodies with strict guidelines and standards that must be met in order for the School of Education (SoE) at UHCL to recommend educators for teaching certificates, supplemental certificates, master teacher certificates and certificates requiring a master's degree. Below is a brief description of the accountability and accreditation measures of the U.S. Department of Education (USDE), the National Council for Accreditation of Teacher Education (NCATE) and the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA), and how our university measures up to those criteria and standards.

DEPARTMENT OF EDUCATION ACCOUNTABILITY

In 1998, Congress reauthorized Title II of the Higher Education Act. The Act established a reporting system for the U.S. Department of Education (USDE) to

collect information annually on the quality of the teacher training programs of states and institutions of higher education. Within Title II, the USDE mandates federal accountability measures to determine how well all higher education institutions prepare teachers, what states require of individuals before they are allowed to teach and how institutions and states are raising their standards to provide "highly qualified" educators. The USDE administers Title II and gathers information from all the states each October for distribution in April of the following year. Institutions are ranked on aggregate and summary pass rates. The rankings show the percentages of program completers who demonstrated subject-matter competency by passing a required state assessment. In Texas, SBEC/TEA collects all data for Title II.

The pass rates of the 2007-2008 academic year cohort of teacher certificate program completers at UHCL were evaluated and compared to the pass rates of the state and national groups of program completers. At UHCL, our students from the 2007-2008 cohort had an overall passing rate of almost 100% on all of their state assessment.

Our pass rates during 2007-2008 included the following:

Basic Skills Assessment	100%
Academic Content Areas	100%
Professional Knowledge	100%
Teaching Special Populations	100%
Summary Pass Rates (Overall)	100%

The Texas statewide pass rates in each of those areas in 2007-2008 included the following:

Basic Skills Assessment	100%
Academic Content Areas	97%
Professional Knowledge	96%
Teaching Special Populations	94%
Summary Pass Rates (Overall)	95%

For a complete summary of all pass rates see the federal Title II reporting Web site and click on, "View State Reports Here" at: <https://title2.ed.gov/default.asp>.

Title II also collected the following numeric data about our students and faculty for the 2007-2008 cohort. Title II requires that all higher education institutions publicly share the following data about their institution:

Students enrolled in teacher preparation programs	663
Students in supervised student teaching (internships)	321
Full-time faculty in professional education of teacher preparation	27
Part-time faculty of teacher preparation	71
Total number of supervising faculty for the teachers preparation program during 2007-2008	99
The student/faculty ratio was	3.24
Average number of hours per week required of students' participation in supervised teaching	24
Total number of required weeks of supervised student teaching (internships)	21
Total number of hours required of a supervised student teacher	504

NCATE ACCREDITATION

NCATE is the largest and most recognized accrediting body for teacher education in the United States. The University of Houston-Clear Lake is one of only 13 Texas

higher education institutions to be accredited by NCATE. NCATE has rigorous academic guidelines for initial and advanced levels of educator certification. The NCATE Board of Examiners conducted a site visit of UHCL in spring 2007, and the NCATE Accrediting Board awarded UHCL continuing accreditation at both the initial and advanced levels. NCATE cited no areas for improvement.

SBEC/TEA ACCREDITATION

The University of Houston-Clear Lake is one of 164 educator preparation programs in the State of Texas that are accredited to recommend educators for certificates. SBEC/TEA implements stringent guidelines and standards for initial and advanced levels of educator certification. These standards are evaluated by the pass rates of our students on the SBEC/TEA state assessments. TEA's last announcement of UHCL's overall final pass rate on all State Assessments was 99%.

The administrative functions for the certification process are conducted by the Educator Certification and Standards Division of the Texas Education Agency (TEA). Licensing authority remains with SBEC/TEA.

POLICY ON PROFESSIONAL DISPOSITIONS

Students who are seeking teacher certification or are enrolled in the SoE are required to read The Statement on Professional Dispositions, which is provided to define the standard of behavior the School of Education expects of its students. Just as students may be withdrawn from their program for not meeting the academic requirements, students may be withdrawn from their program for not meeting the professional disposition standards. The Statement on Professional Dispositions is found at http://prtl.uhcl.edu/portal/page/portal/SOE/Forms/form_files/DISPOSITIONS.pdf.

FIELD EXPERIENCE COURSES

In the School of Education Course Roster there are many courses which have descriptions which end with "Field experiences required." Students in these courses are required to spend part of their time off campus, in most cases, in school classrooms. The State of Texas requires each of these students to pass a criminal background check before being allowed in the classroom for the field experience.

CRIMINAL BACKGROUND CHECKS

As required by Texas Senate Bill 9, the district will conduct a criminal background check on each student before the student is allowed in the school for a field experience. In order for the criminal background check to be conducted, each student must complete all required documentation. Part of the documentation will require that each student provide his/her social security number and driver's license number. If a student does not have a driver's license, then, at the discretion of the school district, other official numbers (visa, passport, etc.) may be required. The criminal background check is conducted for each field-experience course each semester and for each district in which the student is completing a field experience. If a student is

denied access to a district based on the criminal background check, the student cannot get credit for the course. The student will not be able to register for any further field experience course until the situation has been corrected.

CENTERS AND OFFICES

CENTER FOR PROFESSIONAL DEVELOPMENT OF TEACHERS

The School of Education has been designated a Center for Professional Development of Teachers (CPDT). The teacher preparation plan has been restructured to provide extensive school-based experiences for prospective educators. These expanded experiences include a two-semester internship, field-based courses and close cooperation with a number of schools which have been designated as professional development school sites. These sites operate under the philosophy that every staff member is a mentor, providing a rich and supportive environment for the preparation of professional educators. The CPDT coordinates field experiences and works with the Center for Educational Programs (CEP) in providing a wide array of professional development opportunities. The CPDT also provides technological support and professional development.

Field-based experiences and graduate internships take place in a variety of settings in 22 local area school districts. Forty-five schools have been designated as professional development schools (PDS) and provide pre-service internships and professional mentoring. In addition, the SoE has an additional 124 contracts with other businesses and other school districts to provide both graduate internship placement and field experiences.

PROFESSIONAL DEVELOPMENT LABORATORY SCHOOL

The University of Houston–Clear Lake and the Clear Creek Independent School District (CCISD) have entered into a partnership to maintain a professional development laboratory school (PDLS). The PDLS is located in what was McWhirter Elementary School in Webster, Texas, and opened at the beginning of the 2002 - 2003 school year.

The School of Education acts on behalf of the University to oversee the PDLS. UHCL faculty provides instructional leadership, conducts research, and engages in professional development. In addition, some SoE courses are taught at the PDLS. The main focus of the PDLS is to provide educational opportunities for UHCL and CCISD faculty, students, and the school community. Faculty and students interested in being involved in the PDLS should contact the SoE Associate Dean.

CENTER FOR EDUCATIONAL PROGRAMS

The Center for Educational Programs (CEP) provides academic and outreach services to students, faculty, schools, school districts, other educational entities and members of the community. The CEP coordinates the SoE's clinical services, provides facilities and coordination for laboratory experiences, supports a broad range of programs for

children and youth, offers non-credit courses for area educators, assists local schools and school districts in emerging and ongoing professional development activities and promotes and supports various projects of the SoE.

OFFICE OF ACADEMIC ADVISING

This office provides information about the SoE degree requirements, advises all undergraduate and post-degree teacher certification students who seek initial teaching certificates, analyzes transcripts, performs student audits prior to admission to Pre-service Internship I and the Alternative Certification Program (ACP) and prepares degree and certification plans for these students. The office also advises prospective graduate students in the various SoE plans and assigns them faculty advisers.

OFFICE OF EDUCATOR CERTIFICATION

Questions about State educator certification policies and regulations should be directed to this office. It maintains all official certification records for the SoE. This office also approves applications for admission to the Teacher Education Program; audits for practica, graduate internships, the Master's Comprehensive Examination and graduation; recommends students for educator certificates; prepares deficiency plans and tracks Title II data.

OFFICE OF STATE ASSESSMENTS

The Office of State Assessments advises and disseminates information to students about the state exams, called TExES (Texas Examinations of Educator Standards). Candidates must pass their required TExES in order to become public school educators in the state of Texas. This office receives exam scores from the state and records the scores in the appropriate students' files. It also houses and distributes literature pertaining to state assessments, including registration instructions, practice test information, and notification of any changes or updates from the State Board for Educator Certification regarding the TExES. The office offers opportunities for UHCL students and alumni to take practice tests to help prepare them for their actual exam(s). The SoE State Assessments Coordinator networks with UHCL faculty and staff, as well as Educational Testing Services (ETS) and the State Board for Educator Certification (SBEC)/Texas Education Agency (TEA), to ensure accurate testing procedures and requirements.

RESEARCH CENTER FOR LANGUAGE AND CULTURE

This center supports initiatives in research and development of educational programs for students working with second language learners and their families. Funded projects have included teacher training, bilingual counselor training and bilingual administrator training.

LEARNING RESOURCES REVIEW CENTER

This center is jointly sponsored by the Alfred R. Neumann Library and the SoE and houses current children's books furnished by the generosity of publishers and producers of books and materials. The primary function of the center is to encourage review activities.

CERTIFICATION

ALTERNATIVE CERTIFICATION PROGRAM

The UHCL School of Education Alternative Certification Program (ACP), in cooperation with UHCL member school districts, is a training program that provides the opportunity for initial teacher certification students who have earned a bachelor's degree to be employed as full-time teachers while they complete their certification. The length of the program may be from one to three years, depending on the students' qualifications. The UHCL ACP meets the requirements of the U.S. Department of Education's (USDE) definition of "highly qualified" under the No Child Left Behind Law (NCLB). According to the USDE and NCLB, each school district must ensure that all teachers hired who teach Core academic subjects funded by Title I funds are "highly qualified." An uncertified educator is able to meet this "highly qualified" definition by:

- Holding a bachelor's degree or higher from an approved institution
- Being admitted to an SBEC approved ACP
- Passing the content state assessments required for the certification area being sought.

Admission Requirements for Alternative Certification Program

Students must have the following:

- Degree - Must have an earned bachelor's degree or higher from an approved accredited institution. Must be conferred by May for fall entry and August for spring entry into the program.
- State Assessment - Must pass the appropriate TExES content area state assessment.
- UHCL Enrollment - Must be admitted to UHCL by the Office of Admissions before the ACP application deadline in order for the SoE Office of Academic Advising to obtain transcripts from the Office of Admissions to calculate GPA. Enroll as either a Graduate Teacher Certification student or a Post-Baccalaureate Teacher Certification student.
- Teacher Education Program (TEP) Admission - Must be formally admitted by letter to the SoE Teacher Education Program by the end of first 12 months of enrollment in ACP. Admission requires completion of EDUC 4130, SILC 4135, INST 3133; THEA/TASP (Reading 260, Writing 230, Mathematics 230) or an approved master's degree or higher; a college-level public speaking course with "C-" or better or Speech Competency form; a GPA greater than 2.500 overall or in the 60 most recent semester credit hours; completion of a minimum of 12 semester credit hours in the subject-specific content area for the certificate being sought; and

the TEP application form. Submit the TEP application form and all supporting documentation to the SoE Certification Office in B1231.

- GPA - Must have at least a 2.500 overall Grade Point Average (GPA). This overall GPA includes all course work from all collegiate institutions attended - not just UHCL. If students do not have at least a 2.500 overall GPA, then at least a 2.500 GPA in the last 60 hours of course work may be accepted (includes all course work in the semester of the 60th hour).
- Application - Must complete the ACP Application (will be available at the informational meetings with Academic Advising or in the Office of the Center for Professional Development of Teachers (CPDT), B1231-4). Application must be submitted to the CPDT office by the deadline posted on the CPDT bulletin board. The deadline date is based on the paper-based TExES administration schedule. Mailed applications must be postmarked at least 5 days prior to deadline date. Faxes and late applications will not be accepted.
- Fees - \$60 ACP fee, which is paid to the CPDT office, is non-refundable and is valid for 12 months from the date of application. \$120 state assessments fee, which is paid to Educational Testing Service (ETS) during online registration. Partial refunds will be made for state assessments cancelled during regular or late registration periods. No refunds will be made for cancellations after the late registration period.
- Acceptance Letter – A letter of acceptance sent by the CPDT confirming the student has met the above requirements for entry into the UHCL ACP.

The teaching position must be with one of the UHCL CPDT Teacher Center Board member districts. The following is a list of member districts.

Alvin	Angleton	Brazosport	Channelview
Clear Creek	Columbia-Brazoria	Danbury	Deer Park
Dickinson	Friendswood	Galena Park	Galveston
Goose Creek	Hitchcock	Houston	La Marque
La Porte	Pasadena	Pearland	Santa Fe
Sheldon	Texas City		

Qualified Alternative Certification Program Students

Upon acceptance, qualified students will complete the following steps:

- Probationary Certificate – Students must apply online for a Probationary Certificate issued by SBEC/TEA, at <http://www.sbec.state.tx.us/sbeonline> under "Applications and Probationary Certification." There is a \$52 fee for the certificate and a \$42.25 fee for fingerprinting and a background check, both of which are paid online at the SBEC Web site. Students must have a professional fingerprinting service digitally scan their prints and send them to SBEC/TEA. SBEC/TEA will conduct its criminal background check using these scans by running them through the FBI and DPS databases. A maximum of three probationary certificates may be issued by SBEC/TEA per student (one per academic year), and students must reapply for them each year. SBEC/TEA may or may not issue a probationary certificate to anyone formerly on an emergency permit or other permit. Students

should have the school district contact SBEC/TEA if the district has a concern with this issue.

- Alternative Certification Program Fee –A non-refundable fee of \$3,000 (subject to change) will be deducted from each ACP student's annual salary by the school district. This fee supports the administration of the program, the university supervisor, the public school mentor, and the student's release time classroom substitute. Students who require a second or third year to complete the program will have a fee of \$900 deducted from their salary each semester for the same reasons stated above. Three years is the maximum allowed to complete the program. Students will register for the ACP Internship course every semester.
- Certification Plan - Students' transcripts will be analyzed during the first semester at UHCL, and the SoE Office of Academic Advising will create Candidate Plans of Study for all students. (Deficiency plans are not used by the ACP). Students will receive a card in the mail with instructions to come to B1231 to sign the plan. See Post-Baccalaureate Teacher Certification sections of catalog, the bulletin board at B1231 and SoE Web site for additional details on the SoE plans.
- Plan Completion - Students will assume all tuition, fees and other costs for required university course work, and complete all the requirements listed on the plan. Students must then apply for the Standard Classroom Teaching Certificate online and pay SBEC a \$77 fee. UHCL then recommends the students for the certificates at SBEC Online.

GENERAL CERTIFICATION INFORMATION

In accordance with the rules of the State Board of Education, students applying for a teaching certificate in the State of Texas must meet the requirements for a bachelor's degree with an academic major (other than education) or an interdisciplinary academic major. The major must be related to the public school curriculum as defined by Chapter 74 of the Texas Administrative Code.

Students seeking a certification recommendation must have at least a 3.000 overall grade point average (GPA) in Professional Development course work and at least a 2.500 overall GPA in the content area for which the recommendation is sought. Grades of "C-" or better are necessary for all UHCL course requirements. Pre-Service Internship I requires a grade of "B-" or better.

A State Board for Educator Certification rule (Title 19, Part 7, Chapter 249) gives the board the authority to suspend or revoke a teaching certificate or refuse to issue a teaching certificate to a person who has been convicted of a felony or misdemeanor which directly relates to the duties and responsibilities of the teaching profession. For additional actions that may be taken by the board, see Rule 249.15.

STATE ASSESSMENTS INFORMATION

The State Board for Educator Certification (SBEC)/Texas Education Agency (TEA) has developed assessments for each educator certificate, called TExES (Texas Examinations of Educator Standards). All initial certification students must pass at

least two state exams: a content, or generalist, exam, and a pedagogy exam. Students seeking bilingual certification must take either the Texas Oral Proficiency Test (TOPT) or the Bilingual Target Language Proficiency Test (BTLPT) in addition to their content and pedagogy exams. Note: The TOPT will not be administered after August 2010. Students seeking special education certification must take two content exams and a pedagogy exam. To determine which state assessments are required for a certificate, students should check their degree or certification plan, view the SoE bulletin board in the hallway outside Bayou 1231, or ask an SoE Academic Adviser.

Initial certification students at UHCL may register to take their state assessments on any of the test administration dates under the following conditions:

- Students must have an approved degree or certification plan on file in the School of Education that matches the state assessments for which they are registering.
- Students must be formally admitted to the Teacher Education Program.
- Students must be enrolled in or have completed a semester in either TCED 4010 or TCED 4012: Senior Seminar.

Students who meet the above conditions may register for the state assessments by completing the following steps:

- Set up an SBEC account at www.sbec.state.tx.us. This account will follow the student throughout his/her Texas public school educator career, so it should be updated whenever needed, such as for name and address changes.
- Make a note of TEA ID number from SBEC account.
- Log onto the Educational Testing Service (ETS) Web site at www.texas.ets.org and set up a New User account. Use the exact personal information for this account as in the SBEC account. Follow directions for registering for an exam, using TEA ID number retrieved from SBEC account.

All test registrations are to be done online, unless test taker has no way of paying the test fees electronically, in which case registration may be done by telephone.

The following items are available to students to prepare for the state assessments:

- Study Guides. Free preparation manuals for every certification area are available through Educational Testing Service, at <http://www.texas.ets.org>.
- Library. The UHCL Neumann Library has the ETS TExES study guides on reserve and in the stacks for students' use. The library also has TExES study guides other than those published by ETS in the stacks. The curriculum library contains textbooks for all grade levels and most subject areas, which students may find useful in preparing for content exams.
- Review Sessions/Tutoring. Faculty often work with students to help prepare them for the state assessments through individual tutoring sessions.
- Practice Assessments. Practice tests are administered in the courses TCED 4010 and TCED 4012 (Senior Seminar). SoE's Office of State Assessments also gives practice tests several times a year. Contact the SoE Advising Office for more information.

STATE BOARD FOR EDUCATOR CERTIFICATION (SBEC)/TEXAS EDUCATION AGENCY (TEA)

For additional information on State certification, contact SBEC/TEA at their Web site <http://www.sbec.state.tx.us/> or at their Information and Support Center toll-free number, 1-888-863-5880. Any changes made by the State and UHCL in interpreting the rulings on educator certification plans in Texas may supersede the requirements of existing certification plans, degree plans, alternative certification plans or deficiency plans.

APPLYING FOR CERTIFICATION

All students completing requirements for certificates must apply for certification and pay the required fee at the "SBEC Online" Web site: <http://www.sbec.state.tx.us/>. Verification of certification will automatically be issued to an educator electronically by SBEC/TEA as soon as all requirements have been completed.

PLANS WITH TEACHER CERTIFICATION

The SoE has been designated by SBEC as a Center for Professional Development of Teachers (CPDT). The CPDT provides, in collaboration with area school districts, teacher preparation and professional development in partnership schools and promotes integration of technology in public school instruction.

The undergraduate plan in Interdisciplinary Studies leads to the Bachelor of Science degree (BS). Students wishing to pursue this degree may choose one of the following: EC-6 Bilingual Generalist, EC-6 Generalist (Early Childhood Concentration), EC-6 Generalist (Reading Concentration), EC-6 Generalist with EC-12 Special Education (All Level), EC-6 ESL Generalist, 4-8 Generalist, 4-8 ESL Generalist, 4-8 Science or 4-8 Social Studies.

Undergraduate students seeking either 4-8 or 8-12 certification in conjunction with an academic degree in another UHCL school (School of Human Sciences and Humanities or School of Science and Computer Engineering) must seek their degree plan in the appropriate school.

The staff of the SoE Office of Academic Advising advises all students seeking the bachelor's degree in Interdisciplinary Studies, initial certification, supplemental certificates, professional certificates and UHCL certificates. Teacher education students pursuing bachelor's degrees in other schools also must be advised about certification plan requirements by the staff of the SoE Office of Academic Advising. These students should also contact academic advisers in the school in which they are pursuing their degrees.

DEGREE AND EC-6 TEACHER CERTIFICATION REQUIREMENTS

Any student seeking initial teacher certification is required to attempt the Texas Higher Education Assessment (THEA) prior to the end of his/her first semester at UHCL. Any student who has not passed the THEA (see ADMISSION TO THE

TEACHER EDUCATION PROGRAM) or attempted the THEA in the previous long semester will not be permitted to register.

The following EC-6 plans are currently offered in the School of Education at UHCL. Please check with the Office of Academic Advising for the most recent list of certification plans.

- EC-6 Bilingual Generalist
- EC-6 Generalist (Early Childhood Concentration)
- EC-6 Generalist (Reading Concentration)
- EC-6 ESL Generalist
- EC-6 Generalist with EC-12 Special Education (All Level)

IMAX- ALTERNATE ROUTE TO INTERNSHIP II

The Integrated Methods- Applying eXperience (IMAX) program offers an alternate route to Internship II (TCED 4668/4798) for EC-6 Generalist candidates. In the IMAX program candidates must take all required methods courses (LLS 4434, TCED 4231, TCED 4232, and TCED 4233) concurrently with the TCED 4736: Integrated Methods- Applying eXperience (IMAX). If a candidate takes the IMAX route to Internship II, then TCED 4736 replaces TCED 4798. Candidates applying for the IMAX program must have a 3.0 GPA on all of their UHCL courses. See an Academic Advisor for additional information about joining the IMAX program.

B.S. in Interdisciplinary Studies with EC-6 Bilingual Generalist Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of lower-level Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3031 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

SILC 4031
SILC 4130
SILC 4133
SILC 4136

SILC 4531

Pedagogy Courses:

TCED 4231
TCED 4232
TCED 4233
TCED 4738
TCED 4798

Other Required Courses:

ECED 4131
LLS 4131
LLS 4434
LLS 4435
MATH 3032
SPED 4030
TCED 4010
TCED 4033
WRIT 3037

Three hours of upper-level Natural Science¹

¹ In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

B.S. in Interdisciplinary Studies with EC-6 Generalist Certification (Early Childhood Concentration)

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of lower-level Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3031 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

ECED 4031
ECED 4032
ECED 4034
ECED 4131
ECED 4133
ECED 4134
ECED 4335

Pedagogy Courses:

TCED 4231
TCED 4232
TCED 4233
TCED 4668
TCED 4738

Other Required Courses:

LLS 4131
LLS 4434
LLS 4435
MATH 3032
SPED 4030
TCED 4010
TCED 4033
WRIT 3037

Three hours of upper-level Natural Science¹

¹In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

**B.S. in Interdisciplinary Studies with EC-6 Generalist Certification
(Reading Concentration)****Core Requirements:**

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of lower-level Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3031 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

LLS 4131
LLS 4133
LLS 4332
LLS 4434
LLS 4435
LLS 4437
LLS 4531
LLS 4739

Pedagogy Courses:

TCED 4231

TCED 4232
TCED 4233
TCED 4738
TCED 4798

Other Required Courses:

MATH 3032
MATH 3036
SPED 4030
TCED 4010
TCED 4033
WRIT 3037

Three hours of upper-level Natural Science¹

¹In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

B.S. in Interdisciplinary Studies with EC-6 ESL Generalist Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of lower-level Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3031 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

SILC 4032
SILC 4130
SILC 4131
SILC 4132
SILC 4133

Pedagogy Courses:

TCED 4231
TCED 4232
TCED 4233
TCED 4738
TCED 4798

Other Required Courses:

ECED 4131
LLS 4131

LLS 4434
LLS 4435
MATH 3032
SPED 4030
TCED 4010
TCED 4033
WRIT 3037
Three hours of upper-level Natural Science¹

¹In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

B.S. in Interdisciplinary Studies with EC-6 Generalist and EC-12 Special Education (All Level) Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3031 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

SPED 4030
SPED 4131
SPED 4132
SPED 4133
SPED 4231
SPED 4332

Pedagogy Courses:

TCED 4231
TCED 4232
TCED 4233
TCED 4738
TCED 4798

Other Required Courses:

LLS 4131
LLS 4133
LLS 4332
LLS 4434
MATH 3032

TCED 4010
TCED 4033
WRIT 3037
Three hours of upper-level Natural Science¹

¹In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Elementary level (Grades EC-6) teachers must also earn an EC-6 Generalist, 4-8 Generalist or a 4-8 content specific teaching certificate. The UHCL undergraduate program includes the EC-6 Generalist certification. Those following a post-degree teacher certification plan will need to earn an additional certification by taking the appropriate TExES after having completed the UHCL EC-12 Special Education program. Fully certified teachers can register for the additional TExES as "By Exam Only."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12) teachers must also earn the 4-8 Generalist certification, a 4-8 content specific teaching certification, or an 8-12 content specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only."

As of Fall 2008, the federal government is allowing Texas school districts some flexibility in the above requirements by allowing for High Objective Uniform State Standard of Evaluation or "HOUSE" points within the first two years of employment for elementary teachers. For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree, or hours of course work to be considered Highly Qualified. For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's No Child Left Behind (NCLB) representative at 512-463-9374, or view their Web site: <http://www.tea.state.tx.us/nclb/hqteachers.html>. See the section called "Guidance for Implementation of NCLB Highly Qualified Teacher Requirements."

DEGREE AND 4-8 TEACHER CERTIFICATION REQUIREMENTS

The following 4-8 plans are currently offered at UHCL. Please check with the Office of Academic Advising for the most recent list of certification plans.

Grade 4-8 Plans at UHCL

School of Education (SoE):

- Generalist
- ESL Generalist
- Social Studies
- Science

School of Human Sciences and Humanities (HSH):

- English Language Arts & Reading

School of Science and Computer Engineering (SCE):

Mathematics

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>.

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12) teachers must also earn the 4-8 Generalist, a 4-8 content specific, or an 8-12 content specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only." As of Fall 2008, the federal government is allowing Texas school districts some flexibility in this requirement. For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree, or hours of course work to be considered Highly Qualified. For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's No Child Left Behind (NCLB) representative at, 512-463-9374, or view their website: <http://www.tea.state.tx.us/nclb/hqteachers.html>. See the section called "Guidance for Implementation of NCLB Highly Qualified Teacher Requirements."

B.S. in Interdisciplinary Studies with 4-8 Generalist Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SoE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of Natural Science¹

Field of Study courses:

EDUC 1301

EDUC 2301

MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Academic Specializations:

Mathematics:

MATH 3034

MATH 3036

MATH 3037

Natural Science:

Three hours of upper-level course work ¹

Social Studies:

Choose one course from:

GEOG 3137

GEOG 4030

GEOG 4032

GEOG 4033

Choose two courses from:

HIST 3230

HIST 3331

HIST 3332

HIST 3334

HIST 4035

HIST 4036

HIST 4037

HIST 4038

HIST 4133

HIST 4137

HIST 4138

HIST 4139

HIST 4230

HIST 4333

English Courses:

WRIT 3037

Choose one course from:

HUMN 3035

LITR 4231

LITR 4332

LITR 4333

LITR 4535

LITR 4537

LITR 4632

Reading Courses:

LLS 4131

LLS 4435

LLS 4436

LLS 4531

Pedagogy Courses:

TCED 4331

TCED 4332

TCED 4333

TCED 4668

TCED 4738

TCED 4798

Other Required Courses:

SPED 4030

TCED 4012

¹In the 12 hours (Core included) of Natural Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

B.S. in Interdisciplinary Studies with 4-8 ESL Generalist Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SoE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Three hours of Natural Science¹

Field of Study courses:

EDUC 1301

EDUC 2301

MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Academic Specializations Courses:

SILC 4032

SILC 4130

SILC 4131

SILC 4132

SILC 4133

Pedagogy Courses:

TCED 4332

TCED 4333

TCED 4738

TCED 4798

Other Required Courses:

LLS 4131

LLS 4436

LLS 4531

MATH 3034

MATH 3037

SPED 4030

TCED 4012

TCED 4034

WRIT 3037

Choose one course from:

LITR 3334

LITR 3631

LITR 4034

LITR 4132

LITR 4133

LITR 4232

LITR 4233
LITR 4234
LITR 4236
LITR 4237
LITR 4533
LITR 4534
LLS 4435

Three hours of upper-level Natural Science

¹¹In the 12 hours (Core included) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

B.S in Interdisciplinary Studies with 4-8 Science Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SOE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower Level Courses:

CHEM 1411
CHEM 1412
CHEM 2423
Physics Elective

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

Choose one course from:

BIOL 3131
BIOL 3333
BIOL 3335
BIOL 4131

Choose one course from:

BIOL 3031
BIOL 3133
BIOL 3231
BIOL 3733

Choose one course from:

BIOL 3037
BIOL 3431
BIOL 4431

Choose one course from:

BIOL 3134
BIOL 4434
BIOL 4435
BIOL 4436

Choose one course from:

GEOL 3034
GEOL 3035

Pedagogy Courses:

TCED 4332
TCED 4738
TCED 4798

Other Courses:

LLS 4131
LLS 4436
LLS 4531
MATH 3037
MATH 3038
SPED 4030
TCED 4012
TCED 4034
WRIT 3135

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>

B.S. in Interdisciplinary Studies with 4-8 Social Studies Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SoE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Six hours of Natural Science¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

134 School of Education

EDUC 4130
INST 3133
SILC 4135

Academic Specialization:

GEOG 3137
GEOG 4030
GEOG 4032/GEOG 4033
GEOG 4133
HIST 3230
HIST 4035

Pedagogy:

TCED 4331
TCED 4738
TCED 4798

Other Required Courses:

LLS 4131
LLS 4435
LLS 4531
MATH 3037
SPED 4030
TCED 4013
TCED 4034
WRIT 3037

Choose one course from:

HUMN 3031
HUMN 3033
HUMN 3035

One elective course to be selected in consultation with adviser.

¹In the 12 hours (includes Core) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>

B.A. in Literature with 4-8 English Language Arts and Reading Certification

This certificate is offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the HSH Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

Six hours of Natural Science¹

Field of Study Courses:

EDUC 1301

EDUC 2301

MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

HSH General Education Requirements:

WRIT 3037

Academic Specialization:

HUMN 3035

LLS 4131

LLS 4436

LLS 4531

Please see HSH academic adviser for further information regarding the courses below.

LITR 4031

LITR 4130

Choose one course from each of the following areas:

American Literature:

LITR 4135

LITR 4231

LITR 4232

LITR 4233

LITR 4234

LITR 4235

LITR 4332

LITR 4333

British Literature:

LITR 3631

LITR 3632

LITR 3633

LITR 4236

LITR 4237

LITR 4238

LITR 4631

Pre-1700 Literature:

LITR 3631

LITR 3632

LITR 3633

LITR 4236
LITR 4237
LITR 4238
LITR 4631

Three literature electives

Pedagogy:

TCED 4738
TCED 4798

Other Required Courses:

MATH 3037
SPED 4030
TCED 4012
TCED 4034

¹In the 12 hours (includes Core) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>

B.A. in Mathematics with 4-8 Mathematics Certification

This certificate is offered through SoE with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SCE Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SCE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

SCE General Education Requirements:

Calculus II
Six hours of lower or upper-level Natural Science ¹

Field of Study Courses:

EDUC 1301
EDUC 2301
MATH 3033 or MATH 1350

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133
SILC 4135

Academic Specialization Courses:

MATH 3034
MATH 3037
MATH 3131
MATH 4030
MATH 4434

Choose three courses from:

MATH 3035
MATH 3231
MATH 4031
MATH 4132
MATH 4135
MATH 4136
MATH 4231
MATH 4232
MATH 4435

Pedagogy Courses:

TCED 4333
TCED 4738
TCED 4798

Other Courses:

LLS 4131
LLS 4435
LLS 4531
SPED 4030
TCED 4012
TCED 4034
WRIT 3135

¹In the 12 hours (includes Core) of Science, students must have at least one course in each of the following: Biology, Earth Science and Physics/Chemistry/Astronomy.

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam.

Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>

DEGREE AND 8-12 TEACHER CERTIFICATION REQUIREMENTS

The following 8-12 plans are offered at UHCL. Please check with the Office of Academic Advising for the most recent list of certification plans.

Grade 8 - 12 plans at UHCL

School of Human Sciences and Humanities (HSH):

8-12 English Language Arts & Reading

8-12 History

8-12 Social Studies (Geography)

8-12 Social Studies (History)

School of Science and Computer Engineering (SCE):

8-12 Life Sciences

8-12 Mathematics

8-12 Physical Science

B.A. in Literature with 8-12 English Language Arts & Reading Certification

This certificate is offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

Check prerequisites before enrolling in any courses.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the HSH Core courses. Minimum grade requirements are established for lower-level courses.

Contact the HSH Office of Academic Advising for information.

Lower-Level Courses:

Six hours of English Literature beyond Core

EDUC 1301

EDUC 2301

HSH General Education Requirements:

WRIT 3037

Choose one course from:

ANTH 3131

PSYC 3331

PSYC 4131

SOCI 3135

SOCI 4132

SOCI 4232

Choose one course from:

HUMN 3031

HUMN 3033

HUMN 3035

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Academic Specialization Courses:

LLS 4133

LLS 4332

LLS 4531

Please see HSH academic adviser for further information regarding the courses below.

LITR 3631

LITR 4031

LITR 4130

Choose one course from each of the following:

British Literature:

LITR 3632

LITR 3633

LITR 4236

LITR 4237

LITR 4238

LITR 4631

World/Multicultural Literature:

LITR 3334

LITR 4231

LITR 4332

LITR 4333

LITR 4435

LITR 4530

LITR 4531

Choose two courses from the following area:

American Literature:

LITR 4135

LITR 4231

LITR 4232

LITR 4233

LITR 4234

LITR 4235

LITR 4332

LITR 4333

Six hours of Literature Electives

Pedagogy Courses:

LLS 4634

TCED 4738

TCED 4798

Other Courses:

SPED 4030

TCED 4012

TCED 4034

B.A. in History with 8-12 History Certification

This certificate is offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a

listing of the HSH courses.

Minimum grade requirements are established for lower-level courses. Students must complete GEOG 1303 for social and behavioral science Core or take GEOG 3137 at UHCL. Contact the HSH Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

ECON 2301 or ECON 2302

EDUC 1301

EDUC 2301

HIST 2321¹

HIST 2322¹

HIST Elective

HSH General Education Requirements:

WRIT 3037

Choose one course from:

HUMN 3031

HUMN 3033

HUMN 3035

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Academic Specialization:

Please see HSH academic adviser for a list of approved courses.

Choose one course from:

ANTH 3131

PSYC 3331

PSYC 4131

SOCI 3135

SOCI 4132

SOCI 4232

Choose one course from the following:

Latin America or Non-Western History electives

Choose two courses from each of the following areas:

European History electives

American History electives

Choose three History electives

Pedagogy Courses:

TCED 4631

TCED 4738

TCED 4798

Other Courses:

LLS 4531

SPED 4030

TCED 4013

TCED 4034

¹It is suggested that students who do not complete HIST 2321 & 2322 World Civilization I & II take equivalent hours of non-US history at UHCL.

B.S. in Geography with 8-12 Social Studies Certification

This certificate is offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SoE Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SoE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

ECON 2301 or ECON 2302

EDUC 1301

EDUC 2301

Three GEOG/HIST Electives

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Academic Specialization:

GEOG 3137

GEOG 4030

GEOG 4032/GEOG 4033

GEOG 4133

GEOG 4231

GEOG 4136

HIST 3230

HIST 4035

Pedagogy Courses:

TCED 4631

TCED 4738

TCED 4798

Other Courses:

LLS 4531

SPED 4030

TCED 4013

TCED 4034

WRIT 3037

Elective to be selected in consultation with adviser.

Choose one course from:

HUMN 3031

HUMN 3033

HUMN 3035

B.A. in History with 8-12 Social Studies Certification

This certificate is offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

Check prerequisites before enrolling in any courses.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the HSH Core courses.

Minimum grade requirements are established for lower-level courses. Students must complete GEOG 1303 for social and behavioral science Core or nine hours of lower-level electives or take GEOG 3137 at UHCL. Contact the HSH Office of Academic Advising for information.

Lower-Level Courses:

ECON 2301 or ECON 2302
EDUC 1301
EDUC 2301
HIST 2321¹
HIST 2322
HIST Elective

HSH General Education Requirements:

WRIT 3037

Choose one course from:

HUMN 3031
HUMN 3033
HUMN 3035

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization:

HIST 3230

Choose one course from:

ANTH 3131
PSYC 3331
PSYC 4131
SOC 3135
SOCI 4132
SOCI 4232

Choose seven courses from:

HIST 3231
HIST 3232
HIST 3331
HIST 3334
HIST 4035
HIST 4036
HIST 4037
HIST 4133

HIST 4134
HIST 4135
HIST 4136
HIST 4137
HIST 4333
HIST 4334
HIST 4336

Pedagogy:

TCED 4631
TCED 4738
TCED 4798

Other Courses:

LLS 4531
SPED 4030
TCED 4013
TCED 4034

¹It is suggested that students who do not complete HIST 2321 & 2322 World Civilization I & II take equivalent hours of non-US history at UHCL.

B.A. in Biological Sciences with 8-12 Life Sciences Certification

This certificate is offered through SoE with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog for additional information regarding their degrees.

Check prerequisites before enrolling in any courses.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SCE Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SCE Office of Academic Advising for information.

Lower-Level Courses:

CHEM 1411 (4 hours)
CHEM 1412 (4 hours)
CHEM 2423 (4 hours)
EDUC 1301
EDUC 2301
Natural Science Elective

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization:

BIOL 3221
BIOL 3231
BIOL 3411
BIOL 3431

Choose one pair of courses from:
BIOL 3031 and BIOL 3011

BIOL 3133 and BIOL 3113
BIOL 3733 and BIOL 3713
BIOL 4133 and BIOL 4113

Choose one course from:
BIOL 3037
BIOL 4431

Choose one course from:
BIOL 3134
BIOL 4434
BIOL 4435

Choose one course from:
BIOL 3333
BIOL 3131
BIOL 4035

Choose one course from:
BIOL 3335
BIOL 4131

Pedagogy Courses:

TCED 4632
TCED 4738
TCED 4798

Other Courses:

LLS 4531
MATH 3038
SPED 4030
TCED 4012
TCED 4034
WRIT 3135

B.A. in Mathematics with 8-12 Mathematics Certification

This certificate is offered through SoE with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SCE Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SCE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

EDUC 1301
EDUC 2301
MATH 2414
MATH 2318
MATH 2320
MATH elective

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

MATH 3034
MATH 3035
MATH 4030
MATH 4434

Choose four courses from:

MATH 3231
MATH 4031
MATH 4132
MATH 4135
MATH 4136
MATH 4231
MATH 4232
MATH 4235
MATH 4435

Pedagogy Courses:

TCED 4633
TCED 4738
TCED 4798

Other Courses:

LLS 4531
SPED 4030
TCED 4012
TCED 4034
WRIT 3135
6 hours Natural Science

B.S. in Mathematics with 8-12 Mathematics Certification

This certificate is offered through SoE with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SCE Core courses.

Minimum grade requirements are established for lower-level courses.

Contact the SCE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

EDUC 1301
EDUC 2301
MATH 2318
MATH 2414
MATH 2415
MATH 2320

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

MATH 3034
MATH 3035
MATH 4136
MATH 4331
MATH 4434

Choose one course from:

MATH 4232
MATH 4232

Choose four courses from:

MATH 4132
MATH 4133
MATH 4135
MATH 4231
MATH 4232
MATH 4235
MATH 4431
MATH 4435
MATH 4633

Pedagogy Courses:

TCED 4633
TCED 4738
TCED 4798

Other Courses:

LLS 4531
SPED 4030
TCED 4012
TCED 4034
WRIT 3135

B.S. in Physical Sciences with 8-12 Physical Sciences Certification

This certificate is offered through SoE with the degree being offered through the School of Science and Computer Engineering (SCE). Please refer to SCE's portion of the catalog for additional information regarding their degrees.

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the SCE Core courses.

Minimum grade requirements are established for lower-level courses. Contact the SCE Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

CALCULUS I
CALCULUS II
CHEM 2423

EDUC 1301
EDUC 2301

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization Courses:

ASTR 3131
CHEM 3230
GEOL 3035
MATH 3038
PHYS 3011
PHYS 3012
PHYS 3031
PHYS 3032
PHYS 3033

Choose one course from:

CHEM 4732
PHYS 4732

Choose one sub-plan sequence:

Astronomy:

ASTR 3231
ASTR 4132
PHYS 4632

Chemistry:

CHEM 4335
CHEM 4335
CHEM 3234/3224

Geology:

GEOL 3137
GEOL 3333
GEOL 4234

Physics:

PHYS 4231
PHYS 4331
PHYS 4531

Pedagogy Courses:

TCED 4632
TCED 4738
TCED 4798

Other Courses:

LLS 4531
SPED 4030
TCED 4012
TCED 4034

DEGREE AND EC-12 TEACHER CERTIFICATION REQUIREMENTS

The following EC-12 plan is offered at UHCL. Please check with the Office of Academic Advising for the most recent list of certification plans.

School of Human Sciences and Humanities (HSH):
EC-12 Art

The certificates described below are offered through SoE with the degree being offered through the School of Human Sciences and Humanities (HSH). Please refer to HSH's portion of the catalog for additional information regarding their degrees.

B.F.A. in Applied Design and Visual Arts with EC-12 Art Certification

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the HSH Core courses.

Minimum grade requirements are established for lower-level courses. Contact the HSH Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

ARTS 1303
ARTS 1304
ARTS 1311
ARTS 1316
EDUC 1301
EDUC 2301

HSH General Education Requirements:

WRIT 3037

Choose one course from:

HUMN 3031
HUMN 3033
HUMN 3035

Choose one course from:

ANTH 3131
PSYC 3331
PSYC 4131
SOC 3135
SOC 4132
SOC 4232

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Academic Specialization:

ARTS 3136
ARTS 3331
ARTS 3335
ARTS 4038
ARTS 4131

ARTS 4433
ARTS 4439
Art History Elective

Pedagogy:

ARTS 4030
ARTS 4031
TCED 4738
TCED 4798

Other Courses:

LLLS 4531
SPED 4030
TCED 4012

PLANS WITHOUT TEACHER CERTIFICATION

The Bachelor of Applied Science (BAS) degree in Interdisciplinary Studies with a major in Early Childhood Education is a 120 credit hour 2+2 collaborative degree program with the community college Associate of Applied Science degree in Child Development. It is a three track non-certification program including tracks: Educator of Young Children, Young Children with Disabilities and Early Childhood Program Leadership. Course work emphasizes children from birth through age five, although several courses will cover children's learning through the primary grades to meet the needs of persons who also work with the school-age population within their programs and to meet National Association for the Education of Young Children (NAEYC) Teacher Education Accreditation requirements.

Course content will focus on teaching diverse learners, curriculum and assessment, instructional strategies, child development, family and community relations, and leadership skills. It will include multiple opportunities for firsthand field based experiences and will be based on the NAEYC standards for teacher education programs and the EC-6 TExES teacher education standards. The Young Children with Disabilities track will also be based on the Council for Exceptional Children Division of Early Childhood (CEC/DEC) teacher education standards.

BAS in Interdisciplinary Studies with a major in Early Childhood Education – Educator of Young Children Track

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

CDEC 1319¹
CDEC 1356
CDEC 1359¹
CDEC 1413

CDEC 2366
CDEC 2407
CDEC 2326 or CDEC 2328
TECA 1303¹
TECA 1311¹
TECA 1318¹
TECA 1354¹

Upper-Level Courses:

ECED 4035
ECED 4036
ECED 4037
ECED 4230
ECED 4231
ECED 4232
ECED 4233
INST 3133
LLS 4438
SILC 4135
SILC 4138
SPED 4332
WRIT 3037

Practicum:

ECED 4737
ECED 4738

Note: These lower-level courses may have upper-level equivalents. See an Academic Adviser for details.

BAS in Interdisciplinary Studies with a major in Early Childhood Education – Young Children with Disabilities Track

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

CDEC 1319¹
CDEC 1356
CDEC 2326 or CDEC 2328
CDEC 1413
CDEC 2366
CDEC 2407
TECA 1303¹
TECA 1311¹
TECA 1318¹
TECA 1354¹

Upper-Level Courses:

ECED 4035
ECED 4036

ECED 4230
ECED 4231
ECED 4232
ECED 4233
INST 3133
SILC 4135
SILC 4138
SPED 4030
SPED 4332
SPED 4333
WRIT 3035

Practicum:
ECED 4737
ECED 4738

Note: These lower-level courses may have upper-level equivalents. See an Academic Adviser for details.

BAS in Interdisciplinary Studies with a major in Early Childhood Education – Early Childhood Program Leadership Track

Core Requirements:

See the University Undergraduate Degree Requirements section of the catalog for a listing of the Core courses.

Minimum grade requirements are established for lower-level courses. Contact the Office of Academic Advising for information.

Check prerequisites before enrolling in any courses.

Lower-Level Courses:

CDEC 1319¹
CDEC 1356
CDEC 1359¹
CDEC 1413
CDEC 2326
CDEC 2328
CDEC 2366
FMLD 1322
TECA 1303¹
TECA 1311
TECA 1318¹
TECA 1354¹

Upper-Level Courses:

ECED 4035
ECED 4036
ECED 4231
ECED 4232
ECED 4233
ECED 4234
INST 3133
SILC 4135
SILC 4138
SOCI 4238

SPED 4332
WRIT 3035

Practicum:
ECED 4737
ECED 4738

Note: These lower-level courses may have upper-level equivalents. See an Academic Adviser for details.

ADMISSION TO THE TEACHER EDUCATION PROGRAM

In order to enroll in professional development course work, students must be formally admitted to the Teacher Education Program. Admission to the SoE Teacher Education

Program is contingent on the following:

- Achieving the following passing scores on the three sections of the basic skills test (THEA/TASP) before applying to the program: Reading 260, Mathematics 230 and Writing 230. Only THEA/TASP and Quick THEA/Quick TASP will be accepted.
- Participating in the "ABC Workshop Presentation" (online at http://b3308-adm.uhcl.edu/School_of_Education/SoE/ABCWoksp/presentation/ABCWksp.htm).
- Submitting the Teacher Education Program application with all required documents to the Office of Educator Certification. Faxes will not be accepted. The application is online at the end of the "ABC Workshop Presentation."
- Achieving grades of "C-" or better in EDUC 4130, SILC 4135 and INST 3133.
- Completing a college-level public speaking course with a grade of "C-" or better or submitting a Speech Competency form (students are still required to take a public speaking course to meet the Core requirement) signed by a UHCL instructor who has observed the public speaking skills of the students.
- Achieving a GPA ≥ 2.500 overall or in the last 60 semester credit hours. GPA will be calculated by the School of Education after application is submitted.
- Completing a minimum of 12 semester credit hours in the subject-specific content area for the certificate being pursued. This requirement may be waived by achieving a passing score on a TEA-approved content exam (Graduate/Post-baccalaureate Only).
- Being evaluated for certificate appropriateness by completing a written instrument of why the student wants to teach in this area of certification, and what makes the student a good candidate.
- Receiving formal approval of the application for admission to the Teacher Education Program.

Upon admission to the Teacher Education Program, the SoE will establish an initial profile for each student with the State Board for Educator Certification (SBEC). Students should receive an e-mail message from SBEC prompting them to activate their accounts and complete their profiles.

The final authority for admission and retention in the Teacher Education Program resides with the Dean of the SoE.

ADMISSION TO PRE-SERVICE INTERNSHIPS I AND II FOR UNDERGRADUATE STUDENTS

TCED 4738-Pre-service Internship I, TCED 4798-Pre-service Internship II (or TCED 4668-Pre-service Internship II- Generalist) are the capstone experiences for the UHCL-approved Teacher Education Program, and students must enroll in consecutive long semesters (fall/spring or spring/fall) to complete these two experiences. The rules governing TCED 4798 and TCED 4668 are identical. Pre-service Internship I is every Wednesday of the public school semester. Pre-service Internship II is every day of the public school semester. Enrollment in Pre-service Internship I should not be considered until almost all content and basic certification courses have been successfully completed, since the number of semester hours in the Pre-service Internship II semester is restricted to 15 hours. Specific requirements for Pre-service Internships I and II are listed below.

Students must apply for Pre-service Internships I and II through the CPDT. Applications for Pre-service Internships I and II must be received in the CPDT by March 1 for fall and October 1 for spring. Mailed applications must be postmarked by February 24 for fall and September 26 for spring. No faxes or late applications will be accepted. Pre-service Internships I and II are not offered in the summer.

Informational meetings are held in early September and February each year. Dates and times are posted on the bulletin board outside Suite B1231. TCED 4738 Pre-Service Internship I applications are available at the informational meeting, after the informational meeting or by contacting CPDT.

Pedagogy course work must be taken prior to or concurrently with Pre-service Internship I. The Office of Academic Advising will perform audits to establish students' eligibility for these experiences. Audits are work copies only. The degree and/or certification Candidate Plan of Study (CPS) is the official documentation of requirements.

Pre-Service Internship I

All students must meet the following requirements for admission to Pre-service Internship I:

- Formal Admission to the Teacher Education Program. (see above)
- Verification of written and spoken proficiency in English. Evidence of successful completion of speech and composition courses (if the course requires public speaking in English) will satisfy this requirement.
- Pedagogy courses and LLLS 4434 must be satisfactorily completed prior to or taken concurrently with Pre-service Internship I. Students are not allowed to take more than two courses which include field experience concurrently with Internship I. Courses offered before 7:00 p.m. on Wednesdays may not be taken during Internship I, as they may interfere with Internship I course requirements.

- For those certifications requiring TCED 4233, successful completion of MATH 3032 is a prerequisite. For those certifications requiring TCED 4333, successful completion of MATH 3037 is a prerequisite, unless otherwise noted in the catalog. See catalog prerequisites for all pedagogy courses.
- Applications for Pre-service Internship I must be received in the CPDT (B1231-4) before the close of business on March 1 for fall and October 1 for spring. Mailed applications must be postmarked by September 26 for spring and February 24 for fall. If the application deadline falls on a weekend or a university holiday, applications will be accepted before the close of business on the following working day. Faxes and late applications will not be accepted.
- Upon acceptance into TCED 4738, a student will be required to be placed on the district's substitute list. As required by Texas Senate Bill 9, the district will conduct a criminal background check on each student. In order for the criminal background check to be conducted, each student will be required to complete all required documentation. Part of the documentation will require that each student provide his/her social security number and his/her driver's license number. If a student does not have a driver's license number, the state identification number must be provided.

Admission to Pre-service Internship I is contingent upon eligibility for entering Pre-service Internship II the following consecutive long semester. Students will be informed of their public school internship assignment before Pre-service Internship I begins.

Pre-Service Internship II (TCED 4798 or TCED 4668)

Students must meet the following requirements for admission to Pre-service Internship II:

- Successful completion of Pre-service Internship I (grade of "B-" or better).
- Successful completion of all field experiences courses.
- GPA of 3.000 or better in pedagogy courses, with a B- or better in Pre-service Internship I.
- GPA of 2.500 or better in specialization courses with grades of "C-" or better in each.
- Grades of "C-" or better in all other course work at UHCL.
- Successful completion of TCED 4010, TCED 4012 or TCED 4013.
- Maximum course load during Pre-service Internship II is 15 semester hours; therefore, no more than six additional semester hours may be taken during Pre-service internship II, and they must meet no earlier than 7 p.m. See adviser for acceptable course work.
- Applications for Pre-service Internship II must be received in the CPDT (B1231-4) before the close of business on March 1 for fall and October 1 for spring. Mailed applications must be postmarked by September 26 for spring and February 24 for fall. If the application deadline falls on a weekend or a university holiday, applications will be accepted before the close of business on the following working day. Faxes and late applications will not be accepted.

Students denied admission to Pre-service Internships I or II may reapply but must do so by stated deadlines in subsequent semesters.

THECB AIDE EXEMPTION PROGRAM

According to Texas HB 1130, passed in 2001, an educational aide may apply to the Texas Higher Education Coordinating Board (THECB) to be a part of their "Educational Aide Exemption Program." Once approved by THECB, the students may then be allowed by a university to be exempt from enrolling and participating in student teaching. At the University of Houston-Clear Lake (UHCL), this means the Internships I and II experience. The form, "THECB Educational Aide Exemption Program Internship I and II Waiver," must be completed by any educational aide participating in the program who seeks a teaching certificate at UHCL and desires to be exempt from Internships I and II.

THECB Requirements of the Students

Students must have served for at least one year as an educational aide during the five years preceding the start date of the semester they are being exempted from tuition, certain fees and Internships I or II.

Students must have been accepted into THECB exemption program for at least one semester within the five years prior to the start of the semester in which they would have taken Internship I.

As required by Texas Senate Bill 9, students will be required to submit to a criminal background check conducted by the district upon acceptance into and prior to beginning TCED 4737 (THECB Aide Project). In order for the criminal background check to be conducted, each student must provide all required documentation, including his/her social security number and his/her driver's license number. If a student does not have a driver's license, the state identification number must be provided.

UHCL Requirements of THECB Aide Project Students to Waive Internships I and II

- Students must sign the waiver and submit it to B1231 BEFORE enrolling in the final year of their degree plan. Students must have a UHCL undergraduate degree plan on file which includes seeking teacher certification. Students must attach a Verification of Experience form verifying at least one year of the education aide experience within the specified time guidelines. Students must also attach a copy of the THECB letter of acceptance into their aide exemption program.
- Students must be undergraduates at the time the waiver is signed. Students who already hold a bachelor's degree or higher before signing the waiver are not eligible for this program.
- Students must complete an additional 12 semester credit hours of advised UHCL course work to replace Internships I and II. These grades will be calculated into the pedagogy course work, which requires a minimum 3.000 GPA. These 12 hours will include the following courses:

- TCED 4737—THECB Aide Project. This three-hour, five-week course includes one week of observations and four weeks of teaching in the area and level of the certificate being pursued. This course is offered only in the first five-week summer session. The UHCL Director of the Center for Professional Development of Teachers (CPDT) will place the students. Students should attend an informational meeting, which is held in early September and February each year. Dates and times are posted on the bulletin board outside Suite B1231. The applications for TCED 4737 THECB Aide Project are due March 1 and are available at the informational meeting or by contacting the CPDT. Mailed forms must be postmarked by February 24. No faxes or late applications will be accepted. TCED 4737 requires co-enrollment in (or previous completion of a semester in) TCED 4010: Senior Seminar; prior admission to the Teacher Education Program and successful completion of MATH 3032 or MATH 3037 if required on the Candidate Plan of Study (CPS). TCED 4737 will replace Internship I and will require a grade of "B-" or better. Students may only have six hours or less of course work the long semester following TCED 4737. Academic Advising will conduct an audit to determine students' eligibility for TCED 4737.
- TCED 4033-Creating Positive Learning Environments in EC-6 or TCED 4034-Creating Positive Learning Environments in 4-8 and 8-12. (Students with TCED 4033 or TCED 4034 already on their plan must substitute a different 3-hour course, approved by an academic adviser, as part of this 12-hour package).
- Six hours of advised course work.

POST-DEGREE TEACHER CERTIFICATION PLANS

Students seeking initial teacher certification who hold at least a bachelor's degree from an accredited university can choose from two sets of programs. Students wishing to combine their pursuit of initial teacher certification with the pursuit of a master's degree can follow a graduate teacher certification program (see UHCL Graduate Catalog). Students who do not wish to pursue a master's degree can follow a post-baccalaureate teacher certification program. Students pursuing a second bachelor's degree are also considered to be post-baccalaureate students.

Although it is not necessary for students holding at least a bachelor's degree and seeking initial teacher certification to pursue a second bachelor's degree, those who wish to do so must meet the lower-level requirements of the university in addition to requirements for both teacher certification and the second degree, unless such requirements were met in the first bachelor's degree. These lower-level requirements are described in the Core section of the catalog.

POST-BACCALAUREATE TEACHER CERTIFICATION PLANS

To be eligible for admission to a post-baccalaureate teacher certification plan, students must hold a bachelor's degree from an accredited university and meet the university admissions requirements for post-baccalaureate students. Post-baccalaureate students are

considered undergraduate students; therefore, they must maintain undergraduate academic standards and pay undergraduate tuition and fees. Post-baccalaureate teacher certification students are not eligible to enroll in graduate courses, and course work taken toward earning initial teacher certification may not be applied to a master's degree.

Post-Baccalaureate Teacher Certification Plans:

- EC-6 Generalist (Early Childhood Concentration)
- EC-6 Bilingual Generalist
- EC-6 ESL Generalist
- 4-8 English Language Arts and Reading
- 4-8 English Language Arts & Reading/Social Studies
- 4-8 Generalist
- 4-8 Mathematics
- 4-8 Science
- 4-8 Social Studies
- 8-12 English Language Arts and Reading
- 8-12 History
- 8-12 Life Sciences
- 8-12 Mathematics
- 8-12 Social Studies
- EC-12 Special Education (All Level)

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>.

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (grades 7-12) teachers must also earn the 4-8 Generalist, a 4-8 content specific, or an 8-12 content specific teaching certification. Fully certified teachers can register for the additional TExES as "By Exam Only." As of Fall 2008, the federal government is allowing Texas school districts some flexibility in this requirement. For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree, or hours of course work to be considered Highly Qualified. For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's No Child Left Behind (NCLB) representative at, 512-463-9374, or view their website: <http://www.tea.state.tx.us/nclb/hqteachers.html>. See the section called "Guidance for Implementation of NCLB Highly Qualified Teacher Requirements.

Any student seeking initial teacher certification is required to attempt the Texas Higher Education Assessment (THEA) prior to the end of his/her first semester at UHCL. Any student who has not passed the THEA (see ADMISSION TO THE TEACHER EDUCATION PROGRAM) or attempted the THEA in the previous long semester will not be permitted to register.

Post-Baccalaureate Teacher Certification Plan EC-6 Generalist (Early Childhood Concentration)

Check prerequisites before enrolling in any courses.

Required Courses:

ECED 4031
ECED 4032
ECED 4131
ECED 4134
ECED 4335
TCED 4033

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4231
TCED 4232
TCED 4233
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4434
LLS 4435
SPED 4030
TCED 4010

Post-Baccalaureate Teacher Certification Plan EC-6 Bilingual Generalist

Check prerequisites before enrolling in any courses.

Required Courses:

ECED 4131
ECED 4134
SILC 4130
SILC 4133
SILC 4134

Choose one course from:

SILC 4136
SILC 4531

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4231
TCED 4232
TCED 4233
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4434
SPED 4030
TCED 4010

Post-Baccalaureate Teacher Certification Plan EC-6 ESL Generalist

Check prerequisites before enrolling in any courses.

Required:

ECED 4131
ECED 4134
SILC 4130
SILC 4133
SILC 4134

Choose one course from:

SILC 4032
SILC 4132

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4231
TCED 4232
TCED 4233
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4434
SPED 4030
TCED 4010

Post-Baccalaureate Teacher Certification Plan 4-8 English Language Arts and Reading

This plan has a content waiver option based on passing the content state assessments on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

LITR 3631
LITR 4031
LLS 4131
LLS 4435
LLS 4436
LLS 4531

Choose two courses from:

LITR 3334
LITR 3731
LITR 4034
LITR 4035
LITR 4131
LITR 4132
LITR 4133
LITR 4134
LITR 4238
LITR 4331
LITR 4533
LITR 4534
LITR 4535
LITR 4537
LITR 4632

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

SPED 4030
TCED 4012
TCED 4034

**Post-Baccalaureate Teacher Certification Plan 4-8 English Language Arts,
Reading and Social Studies**

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required:

HIST 3230
HIST 4035'
LITR 3631
LITR 4031
LLS 4131
LLS 4434
LLS 4531

Choose two courses from:

LITR 3334
LITR 3731
LITR 4034
LITR 4035
LITR 4131
LITR 4132
LITR 4134
LITR 4134
LITR 4238
LITR 4331

LITR 4533
LITR 4534
LITR 4535
LITR 4537
LITR 4632

Choose two courses from:
GEOG 3137¹
GEOG 4030
GEOG 4136

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4331
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

SPED 4030
TCED 4012
TCED 4034

¹Course has lower-level equivalent.

²Students entering UHCL with GEOG 1303 have met the GEOG 3137 requirement.

Post-Baccalaureate Teacher Certification Plan 4-8 Generalist

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

LITR 3631
LLLS 4435
LLLS 4531
MATH 3037

Choose one course from:
LITR 4031
WRIT 3037

Choose one course from:
GEOG 3137¹
GEOG 4030
GEOG 4032
GEOG 4033

Choose one course from:
HIST 3230
HIST 3331
HIST 3332
HIST 3334
HIST 4035²
HIST 4036
HIST 4037

HIST 4038
HIST 4133
HIST 4137
HIST 4138
HIST 4139
HIST 4230
HIST 4333

Nine hours of upper-level courses required - one course from each of the following areas: Biology, Earth Science and Physics/Chemistry/Astronomy.

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4331
TCED 4332
TCED 4333
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

SPED 4030
TCED 4012
TCED 4034

¹Students entering UHCL with GEOG 1303 have met the GEOG 3137 requirement.

²Course has lower-level equivalent.

Post-Baccalaureate Teacher Certification Plan 4-8 Mathematics

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

CALCULUS I (4 hours)
CALCULUS II (4 hours)
MATH 3034
MATH 3131
MATH 4030
MATH 4434

Choose four courses from:

MATH 3231
MATH 4031
MATH 4132
MATH 4135
MATH 4136
MATH 4231
MATH 4232
MATH 4235
MATH 4435

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133
SILC 4135

Pedagogy:

TCED 4333
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4435
LLS 4531
SPED 4030
TCED 4012
TCED 4034

Post-Baccalaureate Teacher Certification Plan 4-8 Science

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

Botany and lab (4 hours)
Zoology and lab (4 hours)
Physics (4 hours)
BIOL 3037
BIOL 3333
BIOL 3431

Choose one course from:

GEOL 3034
GEOL 3035

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4332
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4435
LLS 4531
SPED 4030
TCED 4012
TCED 4034

Post-Baccalaureate Teacher Certification Plan 4-8 Social Studies

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

GEOG 3137
GEOG 4030

GEOG 4136
HIST 3230
HIST 4035¹

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4331
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4435
LLS 4531
SPED 4030
TCED 4013
TCED 4034

¹Students entering UHCL with GEOG 1303 have met the GEOG 3137 requirement.

²Course has lower-level equivalent.

Post-Baccalaureate Teacher Certification Plan 8-12 English Language Arts and Reading

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required:

LITR 3631
LITR 4031
LLS 4132
LLS 4531
LLS 4532

Choose two courses from:

LITR 3334
LITR 3731
LITR 4034
LITR 4035
LITR 4131
LITR 4132
LITR 4133
LITR 4134
LITR 4238
LITR 4331
LITR 4533
LITR 4534
LITR 4535
LITR 4537
LITR 4632

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133
SILC 4135

Pedagogy:

LLS 4634
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

SPED 4030
TCED 4012
TCED 4034

Post-Baccalaureate Teacher Certification Plan 8-12 History

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

GEOG 3137
HIST 4036
HIST 4133
HIST 4333

Choose two courses from History electives: Please see School of Education academic adviser.

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy:

TCED 4631
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4132
LLS 4531
SPED 4030
TCED 4013
TCED 4034

¹Students entering UHCL with GEOG 1303 have met the GEOG 3137 requirement.

Post-Baccalaureate Teacher Certification Plan 8-12 Life Sciences

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

Botany and lab (4 hours)
Zoology and lab (4 hours)
Chemistry (8 hours)
BIOL 3431
BIOL 4011

BIOL 4031

Choose one course from:

BIOL 3036

BIOL 4738

Choose one course from:

BIOL 3333

BIOL 4131

Prerequisite Courses for Admission to Teacher Education Program

EDUC 4130

INST 3133

SILC 4135

Pedagogy:

TCED 4632

TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4132

LLS 4531

SPED 4030

TCED 4012

TCED 4034

Post-Baccalaureate Teacher Certification Plan 8-12 Mathematics

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

CALCULUS I (4 hours)

CALCULUS II (4 hours)

MATH 3034

MATH 3035

MATH 3131

MATH 4434

Choose five courses from:

MATH 3231

MATH 4031

MATH 4131

MATH 4132

MATH 4135

MATH 4136

MATH 4231

MATH 4232

MATH 4235

MATH 4435

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130

INST 3133

SILC 4135

Pedagogy:

TCED 4633
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4132
LLS 4531
SPED 4030
TCED 4012
TCED 4034

Three hours of scientific programming language (C++, C, Java, Visual BASIC, BASIC, Fortran or Pascal).

Post-Baccalaureate Teacher Certification Plan 8-12 Social Studies

This plan has a content waiver option based on passing the content state assessment on the first attempt. See an SoE adviser for details.

Check prerequisites before enrolling in any courses.

Required Courses:

GEOG 3137¹
GEOG 4132
GEOG 4136
HIST 4036
HIST 4133
HIST 4333

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy Courses:

TCED 4631
TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LLS 4132
LLS 4531
SPED 4030
TCED 4013
TCED 4034

¹Students entering UHCL with GEOG 1303 have met the GEOG 3137 requirement.

**Post-Baccalaureate Teacher Certification Plan EC-12 Special Education
(All-Level)**

Check prerequisites before enrolling in any courses.

Required Courses:

SPED 4030¹
SPED 4131¹
SPED 4132¹
SPED 4133
SPED 4231
SPED 4331
SPED 4332

Prerequisite Courses for Admission to Teacher Education Program:

EDUC 4130
INST 3133
SILC 4135

Pedagogy Courses:

TCED 4738 and TCED 4798 or TCED 4768 and TCED 4769

Other required courses:

LITR 4031² or WRIT 3037²
LLS 4131²
LLS 4434²
LLS 4435
MATH 3031
MATH 3032
TCED 4010
TCED 4033

¹These courses must have been taken after 1997.

²These courses may be waived. See Adviser.

Notes Regarding the No Child Left Behind (NCLB) Highly Qualified Teacher Requirements

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Elementary level (Grades EC-6) teachers must also earn an EC-6 Generalist, 4-8 Generalist or a 4-8 content specific teaching certificate. The UHCL undergraduate program includes the EC-6 Generalist certification. Those following a post-degree teacher certification plan will need to earn an additional certification by taking the appropriate TExES after having completed the UHCL EC-12 Special Education program. Fully certified teachers can register for the additional TExES as "By Exam Only."

To be "Highly Qualified" for employment with an EC-12 Special Education teaching certificate to teach at the Secondary level (Grades 7-12) teachers must also earn the 4-8 Generalist, a 4-8 content specific teaching certification, or an 8-12 content specific. Fully certified teachers can register for the additional TExES as "By Exam Only."

As of Fall 2008, the federal government is allowing Texas school districts some flexibility in the above requirements by allowing for High Objective Uniform State Standard of Evaluation or "HOUSE" points within the first two years of employment for elementary teachers. For secondary teachers, the federal government is allowing use of passing an additional content test or holding an additional academic major, graduate degree, or hours of course work to be considered Highly Qualified. For information pertinent to a Special Education job within a specific school district, contact the Texas Education Agency's No Child Left Behind (NCLB) representative at 512-463-9374, or view their Web site: <http://www.tea.state.tx.us/nclb/hqteachers.html>. See the section called "Guidance for Implementation of NCLB Highly Qualified Teacher Requirements."

GRADUATE TEACHER CERTIFICATION PLANS

To be eligible for admission to a graduate teacher certification plan, students must hold a bachelor's degree from an accredited university and also be pursuing a master's degree.

Students must meet the graduate admissions requirements for both the university and the School of Education. These requirements are described in the graduate plan section of the graduate catalog.

Graduate teacher certification students are considered graduate students; therefore, they must maintain graduate academic standards and pay graduate tuition rates. Some courses listed on the graduate teacher certification plans can also be applied to the pursuit of a master's degree.

ADMISSION TO PRE-SERVICE INTERNSHIPS I AND II

TCED 4738- Pre-service Internship I and TCED 4798- Pre-service Internship II, and TCED 4668- Pre-service Internship II- Generalist are the capstone experiences for the UHCL approved Teacher Education Program, and students must enroll in consecutive long semesters (fall/spring or spring/fall) to complete these two experiences. The rules governing TCED 4798 and TCED 4668 are identical. Pre-service Internship I is every Wednesday of the public school semester. Pre-service Internship II is every day of the public school semester. Enrollment in Pre-service Internship I should not be considered until almost all courses have been successfully completed, since the number of semester hours in the Pre-service Internship II semester is restricted to 15 hours. Specific requirements for Pre-service Internships I and II are listed below.

Students must apply for Pre-service Internships I and II through the CPDT. Applications for Pre-service Internships I and II must be received in the CPDT by March 1 for fall and October 1 for spring. Mailed applications must be postmarked by February 24 for fall and September 26 for spring. No faxes or late applications will be accepted. Pre-service Internships I or II are not offered during the summer.

Informational meetings are held in early September and February each year. Dates and times are posted on the bulletin board outside Suite B1231. TCED 4738 Pre-Service Internship I applications are available at the informational meeting, after the informational meeting or by contacting CPDT.

Pedagogy courses must be taken prior to or concurrently with Pre-service Internship I. The Office of Academic Advising will perform audits to establish students' eligibility for these experiences. Audits are work copies only. The degree and/or certification Candidate Plan of Study (CPS) is the official documentation of requirements.

Pre-Service Internship I

All students must meet the following requirements for admission to Pre-service Internship I:

- Formal admission to Teacher Education Program. (see above).
- Verification of written and spoken proficiency in English. Evidence of successful completion of a speech and composition courses (if the course requires public speaking in English) will satisfy this requirement.
- Pedagogy courses and LLS 5131/LLS 4434 must be satisfactorily completed prior to or taken concurrently with Pre-service Internship I. Students are not allowed to take more than two courses which include field experience concurrently

with Internship I. Courses offered before 7:00 p.m. on Wednesdays may not be taken during Internship I, as they may interfere with Internship I course requirements.

- For those certifications requiring TCED 4233, successful completion of MATH 3032 is a prerequisite. For those certifications requiring TCED 4333, successful completion of MATH 3037 is a prerequisite, unless otherwise noted in the catalog. See catalog prerequisites for all pedagogy courses.
- Applications for Pre-service Internship I must be received in the CPDT (B1231-4) before the close of business on March 1 for fall and October 1 for spring. Mailed applications must be postmarked by September 26 for spring and February 24 for fall. If the application deadline falls on a weekend or a university holiday, applications will be accepted before the close of business on the following working day. Faxes and late applications will not be accepted.
- Upon acceptance into TCED 4738, a student will be placed on the district's substitute list. As required by Texas Senate Bill 9, the district will conduct a criminal background check on each student. In order for the criminal background check to be conducted, each student will be required to provide all required documentation. Part of the documentation will require that each student provide his/her social security number and his/her driver's license number. If a student does not have a driver's license number, the state identification number must be provided.

Admission to Pre-service Internship I is contingent upon eligibility for entering Pre-service Internship II the following consecutive long semester. Students will be informed of their public school internship assignment before Pre-service Internship I begins.

Pre-Service Internship II (TCED 4798 or TCED 4668)

Students must meet the following requirements for admission to Pre-service Internship II:

- Successful completion of Pre-service Internship I (grade of "B-" or better).
- Successful completion of all field experiences courses.
- GPA of 3.000 or better in pedagogy courses, with a grade of B- or better in Pre-service Internship I.
- GPA of 2.500 or better in specialization courses, with grades of "C-" or better in each. Grades of "C-" or better are required for all other course work at UHCL.
- Successful completion of TCED 4010, TCED 4012 or TCED 4013.
- Maximum course load during Pre-service Internship II is 15 semester hours; therefore, no more than six additional semester hours may be taken during Pre-service Internship II, and they must meet no earlier than 7 p.m. See adviser for acceptable course work.
- Applications for Pre-service II Internship must be received in the CPDT (B1231-4) before the close of business on March 1 for fall and October 1 for spring. Mailed applications must be postmarked by September 26 for spring and February 24 for fall. If the application deadline falls on a weekend or a university holiday,

applications will be accepted before the close of business on the following working day. Faxes and late applications will not be accepted.

If students denied admission to Pre-service Internships I or II want to reapply, they must do so by stated deadlines in subsequent semesters.

ADMISSION TO THE TEACHER EDUCATION PROGRAM FOR POST-DEGREE TEACHER CERTIFICATION STUDENTS

In order to enroll in pedagogy course work, students must be formally admitted to the Teacher Education Program. Enrollment in the SoE Teacher Education Program is contingent on the following:

- Achieving the following passing scores on the three sections of the basic skills test (THEA/TASP) before applying to the program: Reading 260, Mathematics 230 and Writing 230, or have earned the equivalent of a U.S. master's or doctoral degree. Only THEA/TASP or Quick THEA/Quick TASP will be accepted.
- Participating in the "ABC Workshop Presentation" (online at http://b3308-adm.uhcl.edu/School_of_Education/SoE/ABCWoksp/presentation/ABCWksp.htm).
- Submitting the Teacher Education Program application with all required documents to the Office of Educator Certification. Faxes will not be accepted.
- Achieving grades of "C-" or better in prerequisite courses EDUC 4130, SILC 4135 and INST 3133. Completing a college-level public speaking course with a grade of "C-" or better, or submitting a Speech Competency form signed by a UHCL instructor who has observed the public speaking skills of the students.
- Achieving a GPA of > 2.500 overall or in the last 60 semester credit hours. GPA will be calculated by the School of Education after application is submitted.
- Completing a minimum of 12 semester credit hours in the subject-specific content area for the certificate being pursued. This requirement may be waived by achieving a passing score on a TEA-approved content exam (Graduate/Post-baccalaureate only).
- Being evaluated for certificate appropriateness by completing a written instrument of why the student wants to teach in this area of certification, and what makes the student a good candidate.
- Receiving formal approval of the application for Admission to the Teacher Education Program.

Upon acceptance to the Teacher Education Program, SoE will establish an initial profile for each student with the State Board for Educator Certification (SBEC). All educator candidates in Texas are required to open an account upon entering a program. Students will receive an e-mail message from SBEC prompting them to activate their accounts and complete their profiles.

The final authority for admission and retention in the Teacher Education Program resides with the Dean of the SoE.

CONTENT COURSES WAIVED FOR POST-DEGREE TEACHER CERTIFICATES

Post-degree teacher certification students who pass the required Academic Specialization state assessment on the first attempt while approved by UHCL may have all of their respective academic specialization course work waived by UHCL, if they are pursuing one of the following certificates:

- 4-8 English Language Arts and Reading
- 4-8 English Language Arts and Reading/Social Studies
- 4-8 Mathematics
- 4-8 Science
- 4-8 Social Studies
- 8-12 English Language Arts and Reading
- 8-12 History
- 8-12 Life Sciences
- 8-12 Mathematics
- 8-12 Physical Science
- 8-12 Social Studies

Important Points to Know:

- If the students do not pass the content area state assessment specified on the plan on the first attempt, then all the academic specialization courses will remain on the plan and must be completed before certification recommendation will be made by UHCL.
- The following teaching certificate programs are NOT included in the course waiver policy: EC-6 Bilingual Generalist, EC-6 Generalist (Early Childhood Concentration), EC-6 ESL Generalist, EC-12 Special Education.
- For the 4-8 Generalist program only: For each domain (English, Mathematics, Science and Social Studies) passed by the students on the first attempt on the 4-8 Generalist state assessment, the respective content courses will be waived.



Assistant Professor in Humanities, Shreerhka Subramanian (left) and Assistant Professor of Women's Studies and Psychology, Kim Case (right), present the award for top Women's Studies student to Angela Miller (center).



SCHOOL OF HUMAN SCIENCES AND HUMANITIES

- Anthropology
- Applied Design and Visual Arts
- Behavioral Sciences - General
- Communication
- Criminology
- Fitness and Human Performance
- Geography
- History
- Humanities
- Literature
- Political Science
- Psychology
- Public Service Leadership
- Social Work
- Sociology
- Women's Studies

Teacher certification degrees include the following. Information on requirements can be found under the specific degree.

Applied Design and Visual Art with EC-12 Art Certification

Geography with 8-12 Social Studies Concentration

History with 8-12 History Certification

History with 8-12 Social Studies Certification

Literature with 4-8 English Language Arts and Reading Certification

Literature with 8-12 English Language Arts and Reading Certification

HSH also offers the following school-based certificates. Information on requirements can be found with their degree.

Applied Behavior Analysis (see Psychology)

Graphic Design (see Applied Design and Visual Arts)

Public Service Leadership

Women's Studies

The School of Human Sciences and Humanities (HSH) is dedicated to the study of people. The school fosters the liberal arts and encourages practical preparation for occupations.

Instead of many separate departments, there are two interrelated clusters: Human Sciences (HS) and Humanities and Fine Arts (HFA). Within these plans, students may develop either a broadly interdisciplinary plan of study or one that is more narrowly focused, resembling traditional departmental majors. With the help of faculty advisers, students develop the plans most appropriate to their interests and goals.

HUMAN SCIENCES

Plans in the Human Sciences are designed to help students explore a number of significant issues: to understand one's self in relation to others; to distinguish what is genuinely personal from what is societal; to help in the difficult processes of value

formation and critical thinking; to come to a more subtle appreciation of collective ideals and notions of the good life, the nature of happiness and how to secure it; and to cope intelligently with the complexities and problems of modern society.

Plans in the Human Sciences have strong theoretical and applied orientations. As these plans seek better understanding of self and society, they are equally intended to prepare students for a variety of professional careers, such as work in human service agencies, scientific research and college teaching.

Programs in Human Sciences include Anthropology, Behavioral Sciences - General, Criminology, Fitness and Human Performance, Geography, Political Science, Psychology, Public Service Leadership, Social Work and Sociology.

HUMANITIES AND FINE ARTS

The plans in Humanities and Fine Arts bring together complementary studies in literature, history, art, philosophy, language and communication. These disciplines comprise the liberal arts curricula of the university and students in all areas of study are strongly encouraged to complement their educations by enrolling in liberal arts courses.

Humanities and Fine Arts courses are designed to be intellectually stimulating and challenging; to develop clarity of thought, speech and writing; to encourage the formation of enlightened attitudes and values; and to develop both the critical and creative capabilities of students.

Degrees in the Humanities and Fine Arts include Applied Design and Visual Arts, Communication, History, Humanities and Literature.

ADMISSION INTO A HSH DEGREE PLAN

Records for degree-seeking undergraduate students are processed by the Office of Admissions and forwarded to the dean's office for faculty assignment and completion of the degree plan.

Most of the School's degrees are 120 credit hour programs. Exceptions to this new 120-hour rule include the Bachelor of Social Work (123 hours), the Bachelor of Fine Arts in Applied Design and Visual Arts with EC-12 Art Certification (127 hours), the Bachelor of Science in Geography with 8-12 Social Studies Certification (127 hours), the Bachelor of Arts in History with 8-12 History Certification (127 hours), the Bachelor of Arts in History with 8-12 Social Studies Certification (127 hours), the Bachelor of Arts in Literature with 4-8 Certification (127 hours) and the Bachelor of Arts in Literature with 8-12 Certification (127 hours).

Students who transfer to UHCL from a college or university in Texas should have completed a minimum of 54 credit hours, including the 42-hour Texas Core Curriculum. Students who arrive with 60 credit hours, including the Texas core curriculum, will complete their degrees by taking 60 hours at UHCL. Students who arrive with fewer than 60 credit hours will be required to take more courses at UHCL to complete the 120-hour requirement.

Requirements for each HSH degree plan are detailed in the following pages.

Academic advising is a key component of students' success. Students should meet with their community college advisers in their first semester to create a transfer plan for moving to UHCL. This will help to ensure that students can complete their plans of study with 120 hours of course work. Once accepted at UHCL, students must receive academic advising prior to enrolling in courses. Otherwise, students may end up taking more than 120 credit hours to complete their degrees.

Information on HSH degree plans and advising schedules can be obtained from the HSH Advising Office.

	Office	Phone
Office of Academic Advising	Bayou 1539	281-283-3333
Office of the Dean	Bayou 1529	281-283-3300
Dir., Texas Dept. of Criminal Justice Program	Bayou 1617	281-283-3420

For more information about Human Sciences and Humanities go to <http://www.uhcl.edu/hsh>

ENGLISH PROFICIENCY REQUIREMENT

All degree-seeking undergraduate students enrolled in the School of Human Sciences and Humanities are required to demonstrate proficiency in written English. This requirement is fulfilled by passing the course in Advanced Writing (WRIT 3037) with a grade of "C" or better (grades of "C-" or below are not acceptable). In exceptional cases, the recommendation of three full-time faculty members who teach WRIT 3037 will exempt students from this requirement. Students are urged to fulfill the English proficiency requirement during the first semester of study.

ANTHROPOLOGY (BACHELOR OF SCIENCE)

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum	42 hours
General Electives:	18 hours

Elective courses in anthropology, sociology and humanities are recommended.

Upper-Level Course Work (60 hours)

This degree requires at least 60 hours of upper-level credit. A minimum of 48 hours of upper-level credit must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

General Education Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

Three semester hours in WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in Western Tradition I and II and Basic Texts III: Non-Western Tradition:

HUMN 3031, HUMN 3033 and HUMN 3035 or

Three semester hours in Basic Texts (HUMN 3031, HUMN 3033 or HUMN 3035) and one of the following courses:

ARTS 3831	West Art: Prehist thru Middle Ages
ARTS 3832	West Art: Ren to Contemp
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Six semester hours in statistics and research methodology are required. This requirement is ordinarily met by taking one of the following three options:

The two-semester sequence PSYC 4631/4632 Research Design and Statistical Measurement I and II or PSYC 4730 Behavioral Statistics and PSYC 4731 Social Science Research Techniques or SOCI 4834 Statistics and SOCI 4835 Research Methods

These courses should be taken in the first year.

Three hours of overview in anthropology:

ANTH 3131	Contemporary Cultural Anthropology
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Six hours of overview and core courses in psychology and sociology (one course from psychology and one course from sociology) selected from the following:

PSYC 3331	Theories of Personality
PSYC 4131	Social Psyc
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure
SOCI 4232	Theories of Society

A minimum of six hours from the following subject courses in anthropology:

ANTH 3532	Pol and Econ Anth
ANTH 4031	Studies in Cultural Diversity
ANTH 4431	Women in Society
ANTH 4432	Human Rights and Social Justice
ANTH 4531	Families, Communities, and Globalization
ANTH 4532	World Prehistory and Archeology
ANTH 4634	Visual Anthropology

A minimum of six hours from the following area courses in anthropology:

ANTH 3535	Topics in Asian Studies
ANTH 3537	Peoples of Africa
ANTH 3538	Toics in Middle Eastern Societies
ANTH 4333	Peoples of Mex & Cen Amer
ANTH 4334	Native Americans

Anthropology Elective: Three hours of any ANTH course.

Six hours of courses to fulfill the diversity requirement. At least three hours must be in either Anthropology or Sociology.

ANTH 3535	Peoples of Asia
ANTH 3537	Peoples of Africa
ANTH 4031	Studies in Cultural Diversity
ANTH 4333	Peoples of Mexico & Central Amer
ANTH 4431	Women in Society
PSYC 4038	Introduction to Women's Studies
PSYC 4334	Psychology of Women
PSYC 4536/SOCI 4536	The Aging Experience
PSYC 4931	Selected Topics in Psyc: African American Psychology

SOCI 3532	Urban Sociology
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4535	Minorities in America

General Electives 15 hours¹

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

APPLIED DESIGN AND VISUAL ARTS (BACHELOR OF FINE ARTS)

The undergraduate plan in Applied Design and Visual Arts leads to the Bachelor of Fine Arts (BFA). Its flexibly structured program prepares students for professional careers and graduate studies while supporting liberal arts traditions in the School of Human Sciences and Humanities. This distinguished plan includes an international exchange with faculty and students in Europe and Central America. The degree leads to careers and teaching positions in graphic design, studio art, lens media (photography and video), visual communication, art history and all-level (EC-12) teaching certification. Students often choose the plan to develop creativity and capacity for critical thinking about visual culture.

There are three distinct and interrelated disciplines within the Applied Design and Visual Arts plan: Studio Art and Art History, Graphic Design, and EC-12 Teacher Certification. The Art and Art History Sub-Plan prepares students for the technical and theoretical challenges of the professional art world. The Graphic Design Sub-Plan prepares students for the intense visual requirements of today's computer-based design industry. The Teacher Certification Sub-Plan prepares students to teach art at any level from early childhood through high school.

To earn the BFA degree, students take a minimum of 120 credit hours (127 credit hours are required for those pursuing the BFA with EC-12 certification). At the lower level (freshman and sophomore years), students will complete 60 credit hours. Upon transferring to UHCL in their junior year, students will select the BFA sub-plan that best satisfies their academic, professional and artistic goals. Students then take 60 credit hours of upper-level course work to complete the degree.

PREPARATION FOR ADMISSION TO THE BFA PROGRAM

Due to the highly specialized nature of the BFA, some preparation in Applied Design and Visual Arts at the lower level is strongly recommended before admission to the program. Students who apply to the BFA program without the lower level preparation in art may still be admitted. However, additional course work at the lower level may be necessary to acquire the foundational skills and knowledge required for success in junior-and senior-level Applied Design and Visual Arts courses. Upon admission to UHCL and the BFA plan, students are assigned to a faculty advisor. Together, students and advisors develop a plan of study that meets plan requirements and students' goals.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Students who pursue the BFA with EC-12 certification should refer to that section of this catalog for required lower-level course work.

Recommended lower-level course work for the Studio and Graphic Design sub-plans include:

Texas Core Curriculum 42 hours

Required Lower-Level Course Work

ARTS 1311 Design I 3 hours

Recommended Lower-Level Course Work (15 hours)

ARTS 1303 Art History I 3 hours

ARTS 1304 Art History II 3 hours

ARTS 1312 Design II 3 hours

ARTS 1316 Drawing I 3 hours

ARTS 1317 Drawing II 3 hours

Recommended lower-level course work requirements may be fulfilled by approved upper-level equivalents at UHCL. Students lacking these entry requirements must meet with a faculty advisor to determine appropriate substitutions.

Upper-Level Course Work (60 hours)

Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

General Education Requirements (9 hours)

All students in the School of Human Sciences and Humanities are required to complete the General Education Requirements. All nine hours of the General Education Requirements listed below must be passed with a grade of "C" or better (grades of "C-" or below are not acceptable).

WRIT 3037 Advanced Writing

Choose one course from the following:

HUMN 3031 Basic Texts I

HUMN 3033 Basic Texts II

HUMN 3035 Basic Texts III

Choose one course from the following:

ANTH 3131 Contemporary Cultural Anthropology

PSYC 3331 Theories of Personality

PSYC 4131 Social Psychology

SOCI 3135 Sociological Thinking

SOCI 4132 Social Structure: Class, Power & Status

SOCI 4232 Theories of Society

Degree Requirements

In addition to these General Education Requirements, students seeking a Bachelor of Fine Arts in Applied Design and Visual Arts must complete a minimum of 51 hours in upper-level arts courses - 27 hours of which must be taken in residence.

STUDIO ARTS SUB-PLAN REQUIREMENTS

HSH General Education Requirements (9 hours)

GROUP I: ART HISTORY (6 hours)

ARTS 4637 Modern Art
ARTS 4--- (4000-level art history elective)

GROUP II: STUDIO CORE A (12 hours)

ARTS 3330 Color
ARTS 3136 Sculpture
ARTS 3335 Intermediate Painting
ARTS 4332 Life Drawing

GROUP III: STUDIO CORE B (6 hours)

Select two of the following:

ARTS 4131 Photography
ARTS 4431 Advanced Printmaking
ARTS 4439 Computer Imaging

GROUP IV: STUDIO CAPSTONE (3 hours), required last spring semester before graduation:

ARTS 4735 Senior Seminar in Art

GROUP V: AREA CONCENTRATION ELECTIVES (24 hours)

Together, students and faculty advisors develop a plan of study that meets program requirements and students' goals.

Concentration in Art History within the Studio Arts Sub-Plan

BFA students may concentrate in Art History through the Studio Art Sub-Plan. The concentration is designed for motivated individuals interested in competitive graduate programs in art history, working towards teaching positions in art history and the humanities at community colleges and universities and entry positions as curatorial interns at museums and art galleries.

Concentration Requirements: Twenty-one hours specializing in Art History

Art History Core (6 hours)

ARTS 4637 Modern Art
ARTS 4639 Studies in Non-Western Art

GROUP I: ART HISTORY (6 hours) Choose 2 of the following

ARTS 4631 Renaissance Art
ARTS 3832 Western Art: Renaissance to Contemporary
ARTS 4635 Impressionism

GROUP 2: ART HISTORY (6 hours) Choose 2 of the following

ARTS 4638 Contemporary Art
ARTS 4730 Topics in Contemporary Art
ARTS 4539 Gender and Identity in the Visual Arts
ARTS 4537 History and Theory of Photography
ARTS 4538 History of Graphic Design

GROUP 3: ART HISTORY (3 hours)

ARTS 4--- 4000 Level Art History Elective

Behavioral Sciences-General (Bachelor of Science)

The undergraduate plan in Behavioral Sciences leads to the bachelor of science (BS) degree. This plan allows students to combine courses in anthropology, psychology and sociology according to their interests and goals. The philosophy behind this interdisciplinary approach is recognition that human behavior is too complex to be fully covered by one academic discipline. Students are assigned a faculty adviser upon admission to the plan; the faculty adviser works with the students to select appropriate courses.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum	42 hours
General Electives:	18 hours

Psychology, sociology and anthropology as well as additional courses in these areas are strongly recommended.

Upper-Level Course Work (60 hours)

This degree requires at least 60 semester hours of upper-level work. A minimum of 48 hours of upper-level work must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

At least 30 hours of the degree plan, including 12 hours of courses in the behavioral sciences, must be taken in residence at UHCL.

General Education Requirements

The following nine hours must be completed with grades of "C" or better.

Grades of "C-" or below are not acceptable.

Three semester hours in WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition:

HUMN 3031, HUMN 3033 and HUMN 3035 OR

Three semester hours from HUMN 3031, HUMN 3033 or HUMN 3035 and one of the following courses:

ARTS 3831	West Art: Prehist thru Middle Ages
ARTS 3832	West Art: Ren to Contemp Art
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Six semester hours in statistics and research methodology are required. This requirement is ordinarily met by one of the following three options:

The two-semester sequence PSYC 4631/4632 Research Design and Statistical Measurement I and II or

PSYC 4730 Behavioral Statistics and PSYC 4731 Social Science Research Techniques or SOCI 4834 Statistics and SOCI 4835 Research Methods

These courses should be taken in the first year.

Nine hours (one course in psychology, one course in sociology and one course in anthropology) selected from the following behavioral sciences overview and core courses.

ANTH 3131	Contemp Cultural Anth
PSYC 3331	Theories of Personality
PSYC 4131	Social Psyc
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure
SOCI 4232	Theories of Society

Six hours of courses to fulfill the diversity requirement. At least three hours must be in either Anthropology or Sociology.

ANTH 3535	Topics in Asian Studies
ANTH 3537	Peoples of Africa
ANTH 4031	Studies in Cultural Diversity
ANTH 4333	Peoples of Mexico & Central Amer
ANTH 4431	Women in Society
PSYC 4038/ SOCI 4038/ WMST 4038	Introduction to Women's Studies
PSYC 4334	Psychology of Women
PSYC 4536/ SOCI 4536	The Aging Experience
SOCI 3532	Urban Sociology
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4535	Minorities in America

Six hours selected from the following courses in psychology:

PSYC 3231	Learning
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
PSYC 4134	Child Psychology or
PSYC 4135	Adolescent Psychology
PSYC 4136	Brain and Behavior
PSYC 4531	Abnormal Psychology
PSYC 4832	Cognitive Psychology

Six hours selected from the following courses in anthropology:

ANTH 3532	Political & Economic Anth
ANTH 3535	Peoples of Asia
ANTH 3537	Peoples of Africa
ANTH 4031	Studies in Cultural Diversity
ANTH 4333	Peoples of Mex & Cen Am
ANTH 4431	Women in Society
ANTH 4432	Hum Rights & Social Justice
ANTH 4531	Families, Communities, and Globalization

Six hours selected from the following courses in sociology:

SOCI 3132	Criminology
SOCI 3335	Deviance
SOCI 3532	Urban Sociology
SOCI 4131	Social Psychology
SOCI 4233	Religion in Society
SOCI 4234	Organizations in Society
SOCI 4335	Social Change
SOCI 4538	Family and Society

General Electives 12 hours¹

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

GRAPHIC DESIGN SUB-PLAN

The Graphic Design Sub-Plan leads to a BFA in Applied Design and Visual Arts. This Sub-Plan prepares students for the rigorous specialization of today's fast-paced design industry. The Graphic Design profession requires students to think critically while at the same time having technical expertise in their chosen area of focus.

General Education Requirements (9 hours)

Sub-Plan Requirements:

Group I : Required Core (18 hours)

ARTS 4433	Graphic Design
ARTS 4439	Digital Photography I
ARTS 4538	History of Graphic Design
ARTS 4332	Life Drawing
ARTS 3330	Color
ARTS 4----	4000-Level Art History Elective

GROUP II: STUDIO CAPSTONE (3 hours), required last spring semester before graduation:

ARTS 4735	Senior Seminar in Art
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GROUP III: AREA CONCENTRATION ELECTIVES (30 hours)

Together, students and faculty advisors develop a plan of study that meets program requirements and students' goals.

GRAPHIC DESIGN CERTIFICATE

Undergraduate students concentrating in computer-based Graphic Design are eligible for a certificate in Graphic Design. The Graphic Design Certificate is designed for motivated individuals concentrating in the competitive field of design.

Certificate Requirements:

Fifteen hours specializing in computer-based Graphic Design

Students must take the following two courses:

ARTS 4433	Graphic Design
ARTS 3137	Advertising Design

In addition, three additional courses must be taken from the following list:

ARTS 4434	Web Design
ARTS 4437	Illustration
ARTS 4439	Digital Photography I
ARTS 4530	3D Computer Modeling
ARTS 4532	Digital Video
ARTS 4739	Arts Internship

APPLIED DESIGN AND VISUAL ARTS WITH EC-12 ART CERTIFICATION (BFA)

The BFA in Applied Design and Visual Arts with EC-12 Art Certification leads to a BFA in Applied Design and Visual Arts. The teacher certification prepares students to teach art at any level from early childhood through high school.

Lower-Level Course Work (60 hours)

Due to the dual specialization of EC-12 Teacher Certification, students are required to take the following lower-level course work before admission to UHCL.

Texas Core Curriculum 42 hours

Students should take ARTS 1303, Art History I, as part of the 42-hour core Required Lower-Level Course Work

ARTS	Studio Elective	3 hours
ARTS 1304	Art History II	3 hours
ARTS 1311	Design I	3 hours
ARTS 1316	Drawing I	3 hours
EDUC 1301	Intro to Education	3 hours
EDUC 2301	Intro to Special Education	3 hours

HSH General Education Requirements (9 hours)

All students in the School of Human Sciences and Humanities are required to complete the General Education Requirements. All nine hours of the General Education Requirements listed below must be passed with a grade of "C" or better (grades of "C-" or below are not acceptable).

WRIT 3037 Advanced Writing

Choose one course from the following:

HUMN 3031	Basic Texts I
HUMN 3033	Basic Texts II
HUMN 3035	Basic Texts III

Choose one course from the following:

ANTH 3131	Contemporary Cultural Anthropology
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure: Class, Power & Status
SOCI 4232	Theories of Society

Prerequisite Courses for Admission to Teacher Education Program

EDUC 4130	Theories of Educational Psychology
INST 3133	Survey of Instructional Technologies
SILC 4135	Theories of American Pluralism

Academic Specialization

ARTS 3136	Sculpture
ARTS 3331	Intermediate Drawing
ARTS 3335	Intermediate Painting
ARTS 4038	Crafts Design and History
ARTS 4131	Photography
ARTS 4433	Graphic Design
ARTS 4439	Digital Photography I
ARTS 4----	4000 Level Art History Elective

Pedagogy

ARTS 4030	Methods in Elementary Art Education
ARTS 4031	Methods in Secondary Art Education
TCED 4738	Pre-Service Internship I
TCED 4798	Pre-Service Internship II

Education Courses

LLS 4531	Reading in Content Subjects
SPED 4030	Survey of Exceptionalities
TCED 4012	Senior Seminar II

COMMUNICATION (BACHELOR OF ARTS)

The undergraduate plan in Communication leads to the bachelor of arts (BA) degree and is designed to prepare students for careers in corporate or public communication. Communication majors are instructed in both written and visual communication. The program exposes students to a broad range of communication skills to reflect today's era of integrated media and includes credit-based internships to provide students with work experience in the field.

A minimum of 120 semester hours of applicable college credits is required for the bachelor's degree in Communication. The Communication curriculum requires 60 upper-level credit hours and 60 lower-level credit hours. Because degree plans are subject to change, all students should meet with their faculty adviser during their first semester at UHCL to sign a Candidate Plan of Study in order to secure the degree plan in place at the time of their enrollment.

Entrance and Exit Requirements

Students in the Communication Plan must take the Grammar-Spelling-Punctuation (GSP) test and score 70 or better. Students may take the test as many as three times, but this must be done within the students' first two long semesters. Students' senior year will include an on-site internship. The semester-long experience gives students an opportunity to gain valuable work experience in the field of communication and teaches them how to build a professional portfolio using a collection of their best written and graphic work. Students must pass the GSP test before they can enroll in the internship course. Please visit the Communication Web site, <http://hsh.uhcl.edu/comm>, for additional information about the GSP test/tutorial/test dates as well as advice regarding course recommendations and lower-level transfer requirements.

Upper-Level Course Work (60 hours)**General Education Requirements (9 hours)**

All nine hours of the general education requirements listed below must be passed with a grade of "C" or better (grades of "C-" or below are not acceptable).

It is recommended that students take WRIT 3037 Advanced Writing their first semester at UHCL.

WRIT 3037 Advanced Writing

Choose one course from the following:

HUMN 3031	Basic Texts I
HUMN 3033	Basic Texts II
HUMN 3035	Basic Texts III

Choose one course from the following:

ANTH 3131	Contemporary Cultural Anthropology
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure: Class, Power & Status
SOCI 4232	Theories of Society

REQUIRED COURSES

Core Requirements (33 hours)

ARTS 4439 Digital Photography I and COMM 3231: Writing for the Media represent basic communication, visual and writing skills that must be met prior to enrolling in any subsequent classes requiring these courses as prerequisites. Both courses require a grade of "C" or better (grades of "C-" and below are not acceptable).

ARTS 4439	Digital Photography I
COMM 3230	Integrated Marketing Communication
COMM 3231	Writing for the Media (unless a similar course has been taken previously)
COMM 3531	Mass Media and Society (unless a similar course has been taken previously)
COMM 3532/3535	Media Law OR Communication Ethics
COMM 3534	Gathering Information
COMM 4434	Web Design* (Prerequisite: ARTS 4439 or an equivalent course)
COMM 4538	Desktop Publishing* (Prerequisite: ARTS 4439)
COMM 4565	Media Production* - 6 hours (Prerequisites: COMM 3231 and COMM 3534)
COMM 4739	Communication Internship* (Prerequisite: Students must first pass the GSP test. Internships are available year round. An internship may be taken in the student's last or second-to-last semester. Internships may also be taken a second time as an elective. In rare cases, students may need to forego the internship. Such requests must be presented in a written petition to the faculty).

*It is important that students pay attention to all prerequisites as they are strictly enforced. In instances where permission of the instructor is sought to waive the prerequisite, permission must be obtained prior to registration.

Communication Electives (9 hours)

Choose three courses from the following list of communication electives:

ARTS 4433	Graphic Design
ARTS 3137	Advertising Design (Prerequisite: ARTS 4433 and ARTS 4439 or permission of instructor)
COMM 3533	Understanding Advertising
COMM 3536	Advertising Procedure
COMM 4031	Global Issues in Film
COMM 4232	Public Relations Writing (Prerequisite: COMM 3231 or equivalent and COMM 3230)
COMM 4233	Speech Communication
COMM 4435	Advanced Web Design (Prerequisite: COMM 4434)
COMM 4436	Flash Animation (Prerequisites: ARTS 4433, ARTS 4439 and COMM 4434)
COMM 4530	3D Computer Modeling (Prerequisite: ARTS 4433 and ARTS 4439)
COMM 4531	3D Animation (Prerequisite: COMM 4530)
COMM 4532	Photojournalism (Prerequisite: ARTS 4439)
COMM 4533	Editing (Prerequisite: COMM 3231 or equivalent)

COMM 4534	Video Production and Editing (Prerequisite: ARTS 4439)
COMM 4535	Advanced Video Production and Editing (Prerequisite: COMM 4534)
COMM 4536	Magazine Publication
COMM 4831	Project Management
COMM 4839	Independent Study in Communication
COMM 4931	Selected Topics in Communication

These classes may also be taken as communication electives: A second Communication Internship can be taken as an independent study with permission of the instructor. Media Production may be repeated as an independent study with the permission of the instructor. Media Law or Communication Ethics, whichever class the student did not take to count toward his/her core requirement, can be taken as an elective.

General Electives (9 hours)¹

Students may use general electives to complete their 60 hours of upper-level credit. Courses may be selected from the communication skills/electives courses listed above that were not previously selected, but choices are not limited to the field of communication. Related courses outside of the communication curriculum in which students may be interested, but are also not limited to, include:

ARTS 4131	Photography I
ARTS 4132	Advanced Photography (Prerequisite: ARTS 4131 or equivalent)
ARTS 4532	Digital Video
MKTG 3031	Marketing: Creating Value For Customers (the prerequisite will be waived for COMM)
MKTG 3331	Integrated Marketing Communications (Prerequisite: MKTG 3031)
HIST 4236	Reel America I
HIST 4237	Reel America II

¹ Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

CRIMINOLOGY (BACHELOR OF SCIENCE)

The undergraduate plan in Criminology leads to the bachelor of science (BS) degree.

The academic goal of the plan is to provide students with an understanding of crime: why it occurs, how it is measured and how it might be controlled. An additional goal is to help students develop the skills needed to obtain successful careers within the criminal justice system or advance in their current careers.

Lower-Level Course Work

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work includes:

Texas Core Curriculum	42 hours
Introduction to Criminal Justice	3 hours
Introduction to Psychology	3 hours
Introduction to Sociology	3 hours
General Electives	9 hours

Upper-Level Course Work

General Education Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

Three semester hours in WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition: HUMN 3031, HUMN 3033 and HUMN 3035 or

Three semester hours in Basic Texts (HUMN 3031, HUMN 3033 or HUMN 3035) and one of the following courses:

ARTS 3831	West Art: Prehist thru Middle Ages
ARTS 3832	West Art: Ren to Contemp Art
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Six semester hours in statistics and research methodology are required. This requirement is ordinarily met by taking *CRIM 4834 Statistics and CRIM 4835 Research Methods or equivalent. These courses should be taken in the first year.

Three semester hours in a course on minorities:

CRIM 4335	Race and Justice
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Fifteen hours of the overview courses in criminology:

CRIM 3132	Criminology
CRIM 4133	Juvenile Delinquency
CRIM 4331	Prison and Society
CRIM 4334	Criminal Law
CRIM 4338	Policing in Society

Three hours of the overview courses in sociology selected from the following:

SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure
SOCI 4232	Theories of Society

Three hours in anthropology:

ANTH 3131	Contemporary Cultural Anthropology
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Three hours in psychology selected from the following:

PSYC 4531	Abnormal Psychology
PSYC 4131	Social Psychology

Six additional hours in Criminology:

A three hour capstone class in Criminology:

CRIM 4930	Contemporary Issues in Criminology ¹
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General Electives: 9 hours.²

¹The capstone course requires the prior completion of at least 80 credit hours and at least four courses in criminology.

²Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

*Pending Coordination Board approval

FITNESS AND HUMAN PERFORMANCE (BACHELOR OF SCIENCE)

The undergraduate plan in Fitness and Human Performance leads to the bachelor of science (BS) degree. Students in this course of study will prepare for a career in physical therapy, health promotion, corporate fitness and/or exercise testing, exercise prescription or exercise direction. Although no specific prerequisite must be met prior to admission to the plan, a background in biological and social sciences is strongly recommended. Students interested in the FHP Pre-Physical Therapy Sub-Plan must possess or acquire specific course requirements not available at UHCL (see the Pre-Physical Therapy Sub-Plan section for further information).

Lower-Level Course Work (60 hours)

Recommended lower-level course work includes:

Texas Core Curriculum 44 hours

(As part of the Core, prospective Fitness and Human Performance majors must take General Biology I and II)

General Electives: 16 hours

Upper-Level Course Work (60 hours)

General Education Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

Three semester hours in WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition: (HUMN 3031, HUMN 3033 and HUMN 3035) or

Three semester hours in Basic Texts (HUMN 3031, HUMN 3033 or HUMN 3035) and one of the following courses:

ARTS 3831 West Art: Prehist thru Middle Ages

ARTS 3832 West Art: Ren to Contemp Art

LITR 3334 Mythology

PHIL 3331 Ethics

PHIL 3433 Phil and Knowledge

PHIL 4134 The Great Philosophers I

PHIL 4135 The Great Philosophers II

DEGREE REQUIREMENTS

All students seeking the bachelor of science degree in Fitness and Human Performance must complete 33 upper-level hours in the plan and nine hours in one of two specialized sub-plans: Exercise Science, Health Promotion or Pre-Physical Therapy. There are also nine hours of general education courses that are required by the School of Human Sciences and Humanities.

All undergraduate Fitness and Human Performance majors must pass a comprehensive final examination to satisfactorily complete the HLTH 4739 Internship course.

Core Requirements (33 hours)

HLTH 3031	Hlth, Emer Care & First Aid
HLTH 3135	Health Promotion Programs
HLTH 3739	Undergraduate Practicum
HLTH 4031	Physiology of Exercise
HLTH 4032	Biomechanics
HLTH 4033	Nutrition, Fitness & Wght Control
HLTH 4034	Principles of Physical Fitness
HLTH 4035	Seminar in Sports Medicine
HLTH 4037	Peak Performance
HLTH 4038	Resistive Exercise: Theory & Practice
HLTH 4739	Internship

Sub-Plans (choose one)

Exercise Science (9 hours)

BIOL 3037	Cell Biology
BIOL 3713	Human Anatomy Lab
BIOL 4431	Biochemistry I
BIOL 4435	Hum Phys
HLTH 3136	Applied Kinesiology
HLTH 4931	Sel Topics in Health
PSYC 4631/	Res Design & Stat Meas I & II (6 hours)
PSYC 4632	OR
PSYC 4730	Behavioral Statistics
	AND
PSYC 4731	Soc Sci Research Techn
BIOL 3733	Human Anatomy
BIOL 4421	Lab for Physiology
BIOL 4432	Biochemistry II
BIOL 4437	Cellular Physiology
PSYC 4136	Brain and Behavior

Health Promotion (9 hours)

HLTH 4931	Selected Topics in Health
PSYC 3231	Learning
PSYC 3334	Drugs & Behavior
PSYC 4134	Child Psychology
PSYC 4332	Industrial/Organizational Psyc
PSYC 4536	The Aging Experience
PSYC 4730	Behavioral Statistics
	AND
PSYC 4731	Soc Sci Research Techn

General Electives: 9 hours¹

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

PRE-PHYSICAL THERAPY SUB-PLAN

The FHP Plan has an articulation agreement with the Physical Therapy Plan at UTMB Galveston. FHP students completing this sub-plan have the opportunity to move directly into the Physical Therapy Plan at UTMB if they meet and follow the specifics of

the articulation agreement. The following is the specific curriculum students must follow.

Core Curriculum:

Introduction to Psychology
College Algebra
Physics (8 hrs)
Chemistry (8 hrs)
General Biology (8 hrs)
Introduction to Sociology
Speech

Core Curriculum (FHP):

Same as listed above in the B.S. section of this catalog except that HLTH 3135 be replaced with HLTH 3136 for Pre-Physical Therapy Plan students.

Pre-PT Sub-Plan

Required Courses:

BIOL 4435, 4421

PSYC 4631, 4632 or 4730, 4731

Special Notes for Pre-PT Students:

- A 3.00 GPA must be maintained for admission to UTMB's PT Plan.
- A 3.00 GPA must be maintained for all science and math courses.
- No grade below a "C" will be accepted by UTMB's PT Plan for any course.
- A member of the UHCL Fitness and Human Performance faculty must provide a letter of recommendation.
- A letter of recommendation must be provided by the physical therapist that served as the student's on-site internship supervisor for the HLTH 4739 course.
- Prior to enrolling in the UTMB PT Plan, students must proceed through the normal admissions and enrollment procedures.
- UHCL FHP contact is: Dr. Terry Dupler, 281-283-3389, dupler@uhcl.edu

GEOGRAPHY (BACHELOR OF SCIENCE)

The undergraduate plan in Geography leads to the Bachelor of Science degree. The Bachelor of Science in Geography degree plan is designed for students seeking a broad understanding of the connections between peoples and places. Majoring in Geography prepares students for specialized careers as well as graduate study. The degree plan incorporates both field and technical training opportunities, utilizing the latest geographic techniques and technologies including Geographic Information Systems. Within the degree, there are two tracks: Geography, and Geography with 8-12 Social Studies Certification.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Required lower-level course work for this degree includes:

Texas Core Curriculum	42 hours
General Electives	18 hours

Upper-Level Course Work (60 hours)

This degree requires at least 60 hours of upper-level credit. A minimum of 48 hours of upper-level credit must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

General Education Requirements

Eighteen hours in Geography are required:

GEOG 3137	Global Geography
GEOG 4030	Geography of the United States & Canada
GEOG 4033	Geography of Texas
GEOG 4132	Human Geography
GEOG 4133	Modern Physical Geography
GEOG 4136	Economic Geography or GEOG 4135 Political Geography

Six hours of any additional Geography are required.

Nine hours of Skills Courses are required:

GEOG 4231	Fundamentals of Geographic Information Systems
SOCI 4834	Statistics
WRIT 3037	Advanced Writing

Eighteen hours of Interdisciplinary Courses are required:

Anthropology (3 hours) selected from the following:

ANTH 3535	Peoples of Asia
ANTH 3537	Peoples of Africa
ANTH 4031	Studies in Cultural Diversity
ANTH 4333	Peoples of Mexico and Central America
ANTH 4431	Women in Society

History (3 hours) any course.

Humanities and Fine Arts Requirement (6 hours) selected from the following rubrics:

- Arts (ARTS)
- Communication (COMM)
- Humanities (HUMN)
- Literature (LITR)
- Philosophy (PHIL)

Science (3 hours) selected from the following rubrics:

- Astronomy (ASTR)
- Biology (BIO)
- Chemistry (CHEM)
- Environmental Science (ENSC)
- Geology (GEOL)

Sociology/Psychology (3 hours) selected from the following courses:

SOCI 4132	Social Structure
SOCI 4232	Theories of Society
PSYC 4131	Social Psychology

Nine elective hours are required. Consult with your adviser ¹

¹ Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degree.

GEOGRAPHY WITH 8-12 SOCIAL STUDIES CERTIFICATION (BS)

NOTE: This degree requires 127 credit hours.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Required lower-level course work for this degree includes:

Texas Core Curriculum	42 hours
ECON 2301 or ECON 2302	3 hours
EDUC 1301 and EDUC 2301	6 hours
General Electives	9 hours

Upper-Level Course Work (67 hours)

This degree requires 67 hours of upper-level credit. A minimum of 48 hours of upper-level credit must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

General Education Requirements

Fifteen hours in Geography are required:

GEOG 3137	Global Geography
GEOG 4030	Geography of the United States & Canada
GEOG 4032	Geography of Latin America or GEOG 4033 Geography of Texas
GEOG 4133	Modern Physical Geography
GEOG 4136	Economic Geography

Six hours of Skills Courses are required:

GEOG 4231	Fundamentals of Geographic Information Systems
WRIT 3037	Advanced Writing

Nine hours of Interdisciplinary Courses are required:

HIST 3230	Ancient World
HIST 4035	Texas and the Borderlands

HUMN (3 hours) selected from

HUMN 3031	Basic Texts in Western Tradition I
HUMN 3033	Basic Texts in Western Tradition II
HUMN 3035	Basic Texts in Non-Western Tradition

Nine hours of Prerequisite Courses for Admission to the Teacher Education Program are required:

EDUC 4130	Theories of Educational Psychology
INST 3133	Survey of Instructional Technologies
SILC 4135	Theories of American Pluralism

Fifteen hours of Pedagogy Courses are required:

TCED 4631	Methods in Secondary Social Studies
TCED 4738	Pre-Service Internship I
TCED 4798	Pre-Service Internship II (nine hour course)

Ten hours of Additional Education Courses are required:

LLS 4531	Reading in Content Subjects
SPED 4030	Survey of Exceptionalities
TCED 4010	Senior Seminar I (one hour course)
TCED 4034	Creating Positive Learning Environments in 4-8 and 8-12

Three Elective hours are required. Consult with your advisor.

HISTORY (BACHELOR OF ARTS)

The undergraduate plan in History leads to the bachelor of arts (BA) degree. The plan is broadly conceived to include all aspects of human development and heritage: political, social, religious, cultural or philosophical. The undergraduate degree plan in History is not limited to history courses but should draw from the entire range of related offerings including anthropology, art, government and economics.

Students who plan to teach history and/or government in secondary school should select this plan area. For additional information contact the HSH Advising Coordinator.

There are no specific prerequisites for admission to the plan other than a strong academic record and a lively interest in how ideas, institutions, societies and individuals change and have changed over time.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work includes:

Texas Core Curriculum	42 hours
HIST 2321/HIST 2322: World Civilization I&II	6 hours
HIST Electives	6 hours
GEOG 1303: World Geography	3 hours
ECON 2301: Principles of Macroeconomics	3 hours

Upper-Level Course Work (60 hours)

General Education Requirements (9 hours)

All students in the School of Human Sciences and Humanities are required to complete the General Education Requirements. All nine hours of the General Education Requirements listed below must be passed with a grade of "C" or better (grades of "C-" or below are not acceptable).

WRIT 3037 Advanced Writing

Choose one course from the following:

HUMN 3031	Basic Texts I
HUMN 3033	Basic Texts II
HUMN 3035	Basic Texts III

Choose one course from the following:

ANTH 3131	Contemporary Cultural Anthropology
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure: Class, Power & Status
SOCI 4232	Theories of Society

Degree Requirements

In addition to the general education requirements in Humanities and Fine Arts, students seeking the bachelor of arts degree in History must successfully complete at least 30 semester hours in history, of which at least 24 hours must be upper-level and at least 18 hours in residence. Students must complete at least two upper-level courses in the History of Europe (could include HIST 3230: Ancient World), one course in History of Latin American (offered fall/spring only), two courses in the History of the United States and nine hours of History electives. Among the courses available may be

HIST 4931: Selected Topics in History, which covers European or United States history.

Students preparing for law school should consult the Pre-Law description under the Humanities section of this catalog. Students who plan to teach social science (history and/or government) in the secondary school must have dual advisement in both the subject field(s) and education and must file a certification plan with the School of Education.

This plan also includes 27 hours of General Electives. Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

HISTORY WITH 8-12 HISTORY CERTIFICATION (BA)

Note: This degree requires a minimum of 127 credit hours.

Core Requirements

See core curriculum of the catalog for a listing of the HSH required Core courses. Minimum grade requirements are established for lower-level courses. Candidates must complete GEOG 1303 for social and behavioral science Core or take GEOG 3137 at UHCL. Students must also take ECON 2301 or ECON 2302. HIST 2321/2322: World Civilization I & II, while not required, are highly recommended. Contact the HSH Office of Academic Advising for information.

Lower-Level Courses

ECON 2301 or ECON 2302
EDUC 1301 and 2301

HSH General Education Requirements

WRIT 3037

Choose one course from:

HUMN 3031
HUMN 3033
HUMN 3035

Choose one course from:

ANTH 3131
PSYC 3331
SOC 3135
PSYC 4131
SOC 4132
SOC 4232

Prerequisite Courses for Admission to Teacher Education Program

EDUC 4130
INST 3133
SILC 4135

Academic Specialization

Please see HSH academic adviser for a list of approved courses.

Choose one course from the following:

Latin America History electives (offered fall/spring only).

Choose two courses from each of the following areas:

European History electives

American History electives

Select three History electives

Pedagogy

TCED 4631

TCED 4738

TCED 4798

Other Courses

LLS 4531

SPED 4030

TCED 4012

TCED 4034

HISTORY WITH 8-12 SOCIAL STUDIES CERTIFICATION (BA)

Note: This degree requires a minimum of 127 credit hours.

Core Requirements

See core curriculum of the catalog for a listing of the HSH required Core courses.

Minimum grade requirements are established for lower-level courses. Candidates must complete GEOG 1303 for social and behavioral science core or take GEOG 3137 at UHCL. Students must also take ECON 2301 or ECON 2302. HIST 2321/2322:

World Civilization I & II, while not required, are highly recommended. Contact the HSH Office of Academic Advising for information.

Lower-Level Courses

ECON 2301 or ECON 2302

EDUC 1301 and EDUC 2301

HSH General Education Requirements

WRIT 3037

Choose one course from:

HUMN 3031

HUMN 3033

HUMN 3035

Choose one course from:

ANTH 3131

PSYC 3331

SOCI 4132

PSYC 4131

SOCI 3135

SOCI 4232

Prerequisite Courses for Admission to Teacher Education Program

EDUC 4130

INST 3133

SILC 4135

Academic Specialization

HIST 3230

Choose seven courses from:

HIST 3231
HIST 4035¹
HIST 4134
HIST 4333
HIST 3232
HIST 4036
HIST 4135
HIST 4334
HIST 3331
HIST 4037
HIST 4136
HIST 4336
HIST 3334
HIST 4133
HIST 4137

Pedagogy

TCED 4631
TCED 4738
TCED 4798

Other Courses

LLS 4531
SPED 4030
TCED 4012
TCED 4034

¹Equivalent to lower-level course. If lower-level equivalent taken at community college, students must choose another elective.

HUMANITIES (BACHELOR OF ARTS)

The undergraduate plan in Humanities leads to the bachelor of arts (BA) degree. Its broad-based liberal arts curriculum prepares students for graduate study in the humanities as well as for professions that require the ability to think analytically and communicate effectively. This degree is a springboard to careers in law, journalism, editing, technical writing, library work, publicity, public relations, corporate communications, advertising and many others. Students often choose Humanities to develop their creativity and capacity for reflection and critical thinking.

Humanities disciplines include arts, communication, history, humanities, literature and philosophy. A separate Pre-Law Sub-Plan within the degree prepares students for entry into law school. For additional information about the degree, contact the HSH Advising Coordinator.

We encourage all students to take WRIT 3037, part of the general education requirements for the BA in Humanities, in their first semester of course work at UHCL. The 9-hour core in the degree program (Basic Texts I, II and III) examines key texts in the western and non-western traditions. Additionally, students choose to follow three of ten 9-hour Paths. The Paths include courses from many areas in the humanities. Additionally, students complete three hours of Senior Seminar, a capstone course required of all HUMN majors. Three elective hours in human sciences and 12 elective hours from any discipline complete the 60-hour, upper-level degree plan.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work includes:

Texas Core Curriculum 42 hours
General Electives: 18 hours

Recommended foundation courses for this Plan include PHIL 1301 Introduction to Philosophy; three hours in Literature; three hours in Anthropology, Sociology or Psychology; three hours in Communication; three hours in History; three additional hours of electives.

Upper-Level Course Work (60 hours)

Degree Requirements

WRIT 3037 Advanced Writing (3 hours; must be passed with a grade of "C" or better, grades of "C-" or below are not acceptable)

Human Sciences Requirement:

One elective Human Sciences course (3 hours)

One course from the following list (3 hours)

ANTH 3131 Contemporary Cultural Anthropology
PSYC 3331 Theories of Personality
PSYC 4131 Social Psychology
SOC 3135 Sociological Thinking
SOC 4132 Social Structure: Class, Power & Status
SOC 4232 Theories of Society

Required Core (9 hours)

HUMN 3031 Basic Texts in the Western Tradition I
HUMN 3033 Basic Texts in the Western Tradition II
HUMN 3035 Basic Texts III: Non-Western Tradition

Required Capstone (3 hours): HUMN 4735 Senior Seminar

Twelve hours of general electives from any discipline.

THE PATHS (27 HOURS)

Select three of the following ten 9-hour Paths; elect at least one Philosophy course within these Paths.

Consult adviser for assistance in assigning specific courses to Paths.

Many courses apply to several different Paths.

The humanities rubrics include: ARTS, COMM, HIST, HUMN, LITR, PHIL. No more than 15 hours may be from any one rubric. (Off campus only: No more than 18 hours may be from any one rubric.)

Paths to the Modern World: Path 1

Choose three courses.

Subject matter: Pre-Renaissance and Renaissance history, literature and art history; Asian art history; philosophy courses such as logic, ethics, philosophy of knowledge and ancient Greek philosophy.

Examples: Chaucer, Shakespeare, Ancient World, Renaissance and Reformation, Mythology, Logic.

The Modern and Post-Modern World: Path 2

Choose three courses.

Subject matter: Post-Renaissance European history, literature and art history; American history, literature and art history; philosophy courses such as logic, ethics, philosophy of knowledge and contemporary issues in philosophy.

Examples: Tragedy, Modern Britain, Contemporary American Literature, U.S. since 1945, Modern Art.

Creative Works: Path 3

Choose three courses.

Subject matter: Studio arts, crafts, art education, photography, creative writing, literary criticism and movement.

Examples: Sculpture, Watercolors, Crafts Design and History, Workshop in Poetics, Photography.

Women's Studies: Path 4

Choose three courses. (HUMN 4732 Seminar in Women's Studies required)

Subject matter: Courses dealing with women and women's issues.

Examples: Women in American History, Women in Literature, Women in European History.

American Studies: Path 5

Choose three courses.

Subject matter: American art history, history, literature and philosophy.

Examples: American Minority Literature, Civil War and Reconstruction, Women in American History, American Art.

Communication and Technology: Path 6

Choose three courses.

Subject matter: Writing, speech, film, public relations, graphic design, the Internet, the media, advertising, history of communications.

Examples: Technical Writing, Written Communications in Business, Speech courses, applied graphic design courses, history of communication.

Film: Path 7

Choose three courses.

Subject matter: Any course involving film or the making of film.

Examples: Film as Literature, Digital Video, Reel America I and II, U.S. History through Film.

Latino/Latina Studies: Path 8

Choose three courses.

Subject matter: Courses dealing with Hispanic and Latin American issues.

Examples: Texas and the Borderlands, History of Mexico, American Minority Literature, Women of Color.

Religious Studies: Path 9

Choose three courses.

Subject matter: Any course involving religious studies.

Examples: Philosophy of Religion, The Holocaust, Mythology, Renaissance Art, History of the Renaissance and Reformation.

Detours and Connections: Path 10

Choose three courses.

Subject matter: This is an Electives Path. Students select nine hours from the entire range of Humanities courses offered. (At least six hours must be outside the two other selected Paths.)

¹ Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

PRE-LAW SUB-PLAN

The Pre-Law Sub-Plan leads to a bachelor of arts (BA) in Humanities. Law school and the legal profession require the ability to think analytically and communicate well and rapidly, especially in writing. These skills are fostered by the Pre-Law Sub-Plan: a broad-based humanities curriculum grounded in an understanding of society and government.

Degree Requirements

Human Sciences and Humanities Requirements (9 hours)

WRIT 3037	Advanced Writing	3 hours
HUMN 3031	Basic Texts I	
or		
HUMN 3033	Basic Texts II	
or		
HUMN 3035	Basic Texts III	3 hours

Recommended Human Sciences Requirement (3 hours)

ANTH 3131	Contemporary Cultural Anthropology
SOCI 4132	Social Structure: Class, Power & Status
SOCI 4232	Theories of Society

PSYC 3331 and PSYC 4131 also meet the Human Sciences Requirement

Humanities Degree Requirement

24 hours in Humanities distributed as follows:

Humanities (6 hours)

Select second course from the Basic Texts Series: HUMN 3031, HUMN 3033 or HUMN 3035 (3 hours)

Complete *HUMN 4735 Senior Seminar (3 hours)

Communication (3 hours)

Select one course from the following group:

WRIT 3132	Written Comm in Business
COMM 3531	Mass Media and Society
COMM 3532	Media Law
COMM 4233	Speech Communication: Theory and Practice

History (6 hours)

Select two courses. Especially recommended:

HIST 3331	Medieval Europe
HIST 4035	Texas and the Borderlands
HIST 4133	Civil War & Reconstruction
HIST 4134	Growth of Industrial America
HIST 4135	America 1919-1945
HIST 4136	America Since 1945
HIST 4234	U.S. Labor History
HIST 4338	Modern Britain

Literature (6 hours)

Select two courses. Especially recommended:

LITR 3631	Shakespeare
LITR 4130	Literary Studies: Genres & Critical Perspectives
LITR 4131	Literary Theory
LITR 4238	Rise & Dev. of Eng Novel
LITR 4332	Am. Minority Literature
LITR 4530	Masterpieces of 19th C. European Literature
LITR 4531	Masterpieces of 20th C. European Literature
LITR 4537	Women in Literature

Philosophy (6 hours)

Select two courses. Especially recommended:

PHIL 3231	Logic
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Human Sciences Requirement for Pre-Law Sub-Plan (9 hours)

Select three courses from the following group:

ANTH 3131	Contemp Cultural Anth
ANTH 4431	Women in Society
CRIM 3335/SOCI 3335	Deviance
SOCI 3531	Political Sociology
SOCI 4131	Social Psychology
SOCI 4332	Sociology of Law
SOCI 4132	Soc Structure: Class, Power and Status
ANTH 3532	Pol & Econ Anth
ANTH 4432	Hum Rights & Soc Just
CRIM 3132/SOCI 3132	Criminology
CRIM 4332	Social Problems and the Legal System
SOCI 3532	Urban Sociology
SOCI 4535	Minorities in America

Electives: (12 hours)

Select four courses. Choose from HSH, Legal Studies and Political Science courses.

Recommended courses include any Legal Studies courses and:

CRIM 4133/SOCI 4133	Juvenile Delinq
CRIM 4135/SOCI 4135	The Death Penalty
CRIM 4334/SOCI 4334	Criminal Law
POLS 3331	Legislative Process
POLS 3532	Public Policy
POLS 4133	Civil Liberties in America
POLS 4135	Judicial Process
POLS 4535	Political Philosophy
SOCI 4232	Theories of Society
SOCI 4238	Social Conflict & Mediation
SOCI 4331	Prison and Society
SOCI 4333	Crisis Intervention
SOCI 4432	Hum Rights & Soc Just
WMST 4136	Women and the Law

*Pending Coordinating Board approval

General Electives: 3 hours¹

¹ Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

LITERATURE (BACHELOR OF ARTS)

The undergraduate plan in Literature leads to the bachelor of arts (BA) degree.

Students in the plan may select from a wide range of courses in American, English, European or comparative literature. Students who plan to teach English in secondary

schools should select this plan area. For information, contact the HSH Advising Coordinator.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work includes:

Texas Core Curriculum	42 hours
General Electives:	18 hours

Recommended courses include 6 hours of British, American or World Literature Survey; 3 hours in Communications; 3 hours in Philosophy; 3 hours in Fine Arts; and 3 hours of additional free electives.

Upper-Level Course Work (60 hours)

Degree Requirements

General Education Requirements (9 hours)

All students in the School of Human Sciences and Humanities are required to complete the General Education Requirements. All nine hours of the General Education Requirements listed below must be passed with a grade of "C" or better (grades of "C-" or below are not acceptable).

WRIT 3037 Advanced Writing

Choose one course from the following:

HUMN 3031	Basic Texts I
HUMN 3033	Basic Texts II
HUMN 3035	Basic Texts III

Choose one course from the following:

ANTH 3131	Contemporary Cultural Anthropology
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure: Class, Power & Status
SOCI 4232	Theories of Society

LITERATURE REQUIREMENTS

In addition to general education requirements in Humanities and Fine Arts, students seeking a bachelor of arts degree in Literature must complete 30 hours of college literature courses-24 hours of which must be upper-level and 18 hours of which must be taken in residence. HUMN 3031, HUMN 3033, HUMN 3035, LITR 4031 and writing courses are not included as part of the 30 hour requirement, with the exception of upper-level creative writing courses such as LITR 3731. Within the 24-hour upper-level minimum, each students must complete:

- LITR 4130: Literary Studies: Genres and Critical Perspectives
- Three hours of American literature (recommended: LITR 4135 The American Novel, LITR 4232 The American Renaissance, LITR 4233 American Realism and Naturalism, LITR 4234 American Literature: Modernism);

- Six hours of British literature, three hours of which must be pre-1700 (for example: LITR 3631 Shakespeare, LITR 3632 16th and 17th century English literature, LITR 4631 Chaucer).
- Three hours of World/Multicultural literature, for example: LITR 3334 Mythology, LITR 4231 Early American Literature, LITR 4332 American Minority Literature, LITR 4333 American Immigrant Literature, LITR 4435 Medieval Literature, LITR 4530 Masterpieces of 19th C. European Literature, LITR 4531 Masterpieces of 20th C. European Literature. HUMN 3035 Basic Texts III Non-Western Tradition also fulfills the World/Multicultural requirement. It cannot, however, be counted toward the required 24 hours of upper-level LITR courses.
- Three hours of a pre-1800 literature course, for example: LITR 3631 Shakespeare, LITR 3632 16th and 17th Century English Literature, LITR 3633 Restoration and 18th Century Literature, LITR 4231 Early American Literature, LITR 4631 Chaucer. Students wishing to teach must follow the 4 to 8 or 8 to 12 Literature Language Arts Plans.
- Six hours of Literature electives
- General Electives 27 hours¹

¹ Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

LITERATURE WITH 4-8 ENGLISH LANGUAGE ARTS & READING CERTIFICATION (BA)

Note: This degree requires a minimum of 127 credit hours.

Lower-Level Course Work (54 hours)

ENGL 1301	Composition and Rhetoric I	3 hours
ENGL 1302	Composition and Rhetoric II	3 hours
MATH 1314	College Algebra	3 hours
Natural Science courses		12 hours
Visual & Performing Arts course (Music preferred)		3 hours
Any Lower-Level Literature course		3 hours
HIST 1301	U.S. History to 1877	3 hours
HIST 1302	U.S. History 1877 to Present	3 hours
GOVT 2301	National, State and Local Government I	3 hours
GOVT 2302	National, State and Local Government II	3 hours
GEOG 1303	World Regional Geography	3 hours
Public Speaking course		3 hours
Computer Competency course		3 hours
EDUC 1301	Introduction to Education	3 hours
EDUC 2301	Introduction to Special Education	3 hours

Upper-Level Course Work (73 hours)

Plan Requirements

LLS 4131	Survey of Reading	3 hours
LLS 4531	Reading in Content Subjects	3 hours

HUMN 3035	Basic Texts III: Non-Western Traditions	3 hours
LITR 4031	Principles of Composition	3 hours
LITR 4130	Literary Studies: Genres and Critical Perspectives	3 hours
Any Pre-1800 Literature course		3 hours
Any American Literature course		3 hours
Two British Literature courses, one of which must be pre-1700		6 hours
Literature electives		6 hours
EDUC 4130	Theories of Educational Psychology	3 hours
WRIT 3037	Advanced Writing	3 hours
INST 3133	Survey of Instructional Technologies	3 hours
TCED 4010	Seminar I	1 hour
SILC 4135	Theories of American Pluralism	3 hours
SPED 4030	Survey of Exceptionalities	3 hours
MATH 1350/3033	Structure of Number Systems	3 hours
MATH 3037	Fundamentals of Informal Geometry and Statistical Analysis	3 hours
LLS 4434	Reading and Writing for EC-6 in 4-8 and EC-6	3 hours
TCED 4034	Creating Positive Learning Environments	3 hours
TCED 4738	Pre-Service Internship I	3 hours
TCED 4798	Pre-Service Internship II	9 hours

To be "Highly Qualified" for employment to teach at the Elementary level (Grades EC-6) teacher candidates must pass an EC-6 Generalist or 4-8 Generalist TExES exam. Candidates may take a TExES Generalist exam after completing an initial certification program. Fully certified teachers may register for the additional TExES as "By Exam Only" at the ETS test registration website. Then they may apply at the SBEC/TEA website as "Certification by Examination" to add the Generalist certificate. Contact TEA's NCLB office for further information at 512-463-9374 or <http://ritter.tea.state.tx.us/taa/stanprog012210a.html>

LITERATURE WITH 8-12 ENGLISH LANGUAGE ARTS & READING CERTIFICATION (BA)

Note: This degree plus certification requires a minimum of 127 credit hours.

Lower-Level Course Work (54 hours)

ENGL 1301	Composition and Rhetoric I	3 hours
ENGL 1302	Composition and Rhetoric II	3 hours
MATH 1314	College Algebra	3 hours
Natural Science courses		6 hours
Visual & Performing Arts course	(Music preferred)	3 hours
Literature electives		9 hours
HIST 1301	U.S. History to 1877	3 hours
HIST 1302	U.S. History 1877 to Present	3 hours
GOVT 2301	National, State and Local Government I	3 hours
GOVT 2302	National, State and Local Government II	3 hours
GEOG 1303	World Regional Geography	3 hours

Public Speaking course		3 hours
Computer Competency course		3 hours
EDUC 1301	Introduction to Education	3 hours
EDUC 2301	Introduction to Special Education	3 hours

Upper-Level Course Work (73 hours)

HSH General Education Requirements

WRIT 3037	Advanced Writing	3 hours
HUMN 3031 or 3033 or 3035	Basic Texts course	3 hours

Human Sci Req - Choose one: (3 hours)

ANTH 3131	PSYC 3331	PSYC 4131
SOCI 3135	SOCI 4132	SOCI 4232

Plan Requirements

LLS 4133	Corrective and Remedial Reading	3 hours
LLS 4332	Diagnostic and Prescriptive Reading	3 hours
LLS 4531	Reading in Content Subjects	3 hours
LITR 3631	Shakespeare	3 hours
LITR 4031	Principles of Composition	3 hours
Any American Literature course		3 hours
Any British Literature course		3 hours
Any World/Multi-Cultural Literature Course		3 hours
LITR 4130	Literary Studies: Genres and Critical Perspectives	3 hours
LITR electives		6 hours
EDUC 4130	Theories of Educational Psychology	3 hours
TCED 4010	Senior Seminar I	1 hour
SILC 4135	Theories of American Pluralism	3 hours
SPED 4030	Survey of Exceptionalities	3 hours
INST 3133	Survey of Instructional Technologies	3 hours
Pedagogy		
LLS 4634	Methods in Secondary English/Lang Arts	3 hours
TCED 4034	Creating Positive Learning Environments in 4-8 and 8-12	3 hours
TCED 4738	Pre-Service Internship I	3 hours
TCED 4798	Pre-Service Internship II	9 hours

POLITICAL SCIENCE (BACHELOR OF SCIENCE)

The undergraduate plan in Political Science offers a Bachelor of Science degree. The Political Science plan is for students to gain theoretical skills, analytical skills, practical skills, administrative competence, and communication abilities that are valued in a wide continuum of potential exciting career paths. These range from opportunities in federal, state, and local government; law; business; nonprofit organizations and agencies; campaign management; survey research; journalism; and college teaching.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum 42 hours
General Electives 18 hours

Electives in Political Science courses are highly encouraged.

Upper-Level Course Work (60 hours)

General Requirements (9 hours)

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

- Three semester hours in WRIT 3037 Advanced Writing
- Six semester hours selected from Basic Texts (HUMN 3031, HUMN 3033, and HUMN 3035), OR
- Three semester hours in Basic Texts (HUMN 3031, HUMN 3033, and HUMN 3035) and one of the following courses:

ARTS 3831 West Art: Prehist thru Middle Ages
ARTS 3832 West Art: Ren to Comtemp Art
LITR 3334 Mythology
PHIL 3331 Ethics
PHIL 3433 Phil and Knowledge
PHIL 4134 The Great Philosophers I
PHIL 4134 The Great Philosophers II

Core Political Science Requirements (21 hours)

*POLS 3031 Contemporary Issues in Political Science
POLS 3331 Legislative Process
*POLS 4432 International Relations
POLS 4534 Comparative Political Systems
PSYC 4631 Research Design & Stat Measurement I
PSYC 4632 Research Design & Stat Measurement II
*POLS 4630 Senior Seminar

Note: Students may substitute PSYC 4730/4731 for PSYC 4631/4632.

Political Science students are encouraged to structure their plan of study to reflect the themes within the discipline. The current themes are: (1) American Political Studies, (2) International and Comparative Political Studies, (3) Race and Ethnic Political Studies, and (4) Law and Society. These themes have been developed to help students better prepare their degree plan for career and/or graduate educational goals.

American Political Studies (at least 6 hours)

*POLS 3332 State and Local Government
POLS 3532 Public Policy
*POLS 3631 Politics and Film
POLS 4134 Chief Executive
*POLS 4137 Voting and Elections
POLS 4531 Public Administration
POLS 4535 Political Philosophy

International and Comparative Political Studies (at least 6 hours)

*POLS 4536 Political Economy

GEOG 4135	Political Geography
HIST 4139	Modern Latin America
HIST 4336	Modern Europe
ANTH 3532	Political & Economic Anthropology
ANTH 4432	Human Rights & Social Justice

Race and Ethnic Political Studies (at least 6 hours)

*POLS 4132	Race and Ethnic Politics
SOCI 4535	Minorities in America
CRIM 4335	Race and Justice
ANTH 4031	Studies in Cultural Diversity
ANTH 4431	Women in Society

Law and Society (at least 3 hours):

POLS 4133	Civil Liberties in America
POLS 4135	Judicial Process
LEGL 3133	Intro to Law & the Amer Legal System
CRIM 4334	Criminal Law
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law

*Pending Coordinating Board approval

General Electives (9 hours are required; Consult with your advisor). Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

CERTIFICATES

Students may receive a certificate in any theme of study. Those completing 12 credit hours with a 'B' or better in any given theme will be awarded a certificate. Students may be awarded certificates in multiple themes.

PSYCHOLOGY (BACHELOR OF SCIENCE)

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum	42 hours
Introduction to Psychology	3 hours
General Electives:	15 hours

Additional courses in psychology as well as sociology, anthropology, biology and women's studies are recommended.

Upper-Level Course Work (60 hours)

This degree requires at least 60 hours of upper-level credit. A minimum of 48 hours of upper-level credit must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

General Education Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

Three semester hours in WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition:

HUMN 3031, HUMN 3033 and HUMN 3035 or

Three semester hours in Basic Texts HUMN 3031, HUMN 3033 or HUMN 3035 and one of the following courses:

ARTS 3831	West Art: Prehist thru Middle Ages
ARTS 3832	West Art: Ren to Contemp Art
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Six semester hours in Statistics and Research Methodology are required. This requirement is ordinarily met by taking the two-semester sequence PSYC 4631/PSYC 4632 Research Design and Statistical Measurement I and II or PSYC 4730 Behavioral Statistics and PSYC 4731 Social Science Research Techniques or equivalent. These courses should be taken in the first year.

Psychology Overview Course

PSYC 3135	Psychological Thinking
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Anthropology Overview Course

ANTH 3131	Cont Cultural Anthropology
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Sociology Overview Course (choose one of the following)

SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure
SOCI 4232	Theories of Society

Diversity requirement (6 hours selected from the following; at least 3 hours must be SOCI or ANTH)

ANTH 3535	Topics in Asian Studies
ANTH 3537	Peoples of Africa
ANTH 4031	Studies in Cultural Diversity
ANTH 4333	Peoples of Mexico and Central America
ANTH 4431	Women in Society
PSYC 4038	Introduction to Women's Studies
PSYC 4334	Psychology of Women
PSYC 4536/ SOCI 4536	The Aging Experience
PSYC 4931	Selected Topics in Psychology: African American Psychology
SOCI 3532	Urban Sociology
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4535	Minorities in America

Psychology Required One-hour Courses:

PSYC 3011	Careers in Psychology
PSYC 3012	Writing in Psychology
PSYC 4111	Psychology Capstone

PSYC 3011 (Careers in Psychology) must be taken in the first semester. During the first year students should take PSYC 3012 (Writing in Psychology), PSYC 3135 (Psychological Thinking), PSYC 4631 and PSYC 4632 (Research Design and

Statistical Measurement I and II) or PSYC 4730 (Behavioral Statistics) and PSYC 4731 (Social Science Research Techniques). During the final semester students should take PSYC 4111 (Psychology Capstone).

Psychology Core Courses

18 hours from the courses listed below with at least two courses from Group A and at least two courses from Group B.

Group A

PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
PSYC 4134	Child Psychology or
PSYC 4135	Adolescent Psychology
PSYC 4332	Introduction to Industrial/Organizational Psychology
PSYC 4531	Abnormal Psychology

Group B

PSYC 3231	Learning
PSYC 4133	Tests and Measurements
PSYC 4136	Brain and Behavior
PSYC 4832	Cognitive Psychology

¹ General Electives: 9 hours

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

CERTIFICATE IN APPLIED BEHAVIOR ANALYSIS (UNDERGRADUATE)

The Applied Behavior Analysis Certificate is designed for individuals who would like to complete the coursework¹ required to sit for the Board Certified Assistant Behavior Analyst exam. Students wishing to receive this certificate must formally apply. Additional information can be obtained by contacting the faculty coordinator. The certificate will be granted upon completion of the following courses with a grade of "B-" or better:

PSYC 3231	Learning	3 hours
PSYC 4231	Applied Behavior Analysis I	3 hours
PSYC 4232	Applied Behavior Analysis II	3 hours

¹To qualify to sit for the exam, students must also fulfill a supervised experience requirement. More information can be found at www.bacb.com.

PUBLIC SERVICE LEADERSHIP (BACHELOR OF SCIENCE)

This plan is designed for students looking for career preparation as leaders in public service organizations. Public service leaders can be teachers, trainers or they may be officials in municipal departments such as fire fighting or policing or persons interested in serving in public office. The purpose of the plan is to provide individuals with knowledge and skills in such areas as managerial principles, leadership, conflict resolution and organizational communication.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum 42 hours

General Electives: Recommended courses include

Introductory Psychology and Introductory Sociology. 18 hours

Upper-Level Course Work (60 hours)

Degree Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

WRIT 3037 Advanced Writing

Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition:

HUMN 3031, HUMN 3033 and HUMN 3035 OR

Three semester hours in Basic Texts (HUMN 3031, HUMN 3033 or HUMN 3035) and one the following courses:

ARTS 3831 West Art: Prehist thru Middle Ages

ARTS 3832 West Art: Ren to Contemp Art

LITR 3334 Mythology

PHIL 3331 Ethics

PHIL 3433 Phil and Knowledge

PHIL 4134 The Great Philosophers I

PHIL 4135 The Great Philosophers II

Six semester hours in statistics and research methodology are required. This requirement is ordinarily met by taking the two-semester sequence PSYC 4631/PSYC 4632 Research Design and Statistical Measurement I and II or PSYC 4730 Behavioral Statistics and PSYC 4731 Social Science Research Techniques or equivalent. These courses should be taken in the first year.

Three of the following five courses (9 hours):

PSYC 3331 Theories of Personality OR PSYC 4131 Social Psychology

SOCI 4132 Social Structure OR SOCI 4232 Theories of Society

ANTH 3131 Contemporary Cultural Anthropology

CRIM 3132 Criminology

*POLS 3031 Contemporary Issues in Political Science

The following 24 hours are required for this degree:

FRAD 4238 Social Conflict and Mediation

FRAD 4433 Public Service Management

FRAD 4434 Public Service Leadership

FRAD 4435 Strategic Planning

FRAD 4437 Managerial Issues in Diversity

*FRAD 4438 Crisis Management

*FRAD 4439 Ethics in Public Leadership

COMM 3230 or WRIT 3132 Integrated Marketing Communication or Written

Communication in Business

The same titled class with either a PSYC or SOCI rubric also counts toward the certificate.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Candidates to the BSW Plan must have completed:

Texas Core Curriculum 42 hours

Within the Texas Core, students must have completed Human Biology, or General Biology or Anatomy and Physiology as three hours of their Natural Science requirement. Students must take SOCI 1301 Introduction to Sociology as their Social and Behavioral Science Texas Core Requirement.

Students must take PSYC 2301 Introduction to Psychology. Students are encouraged to take Spanish, introduction to Economics and other general electives emphasizing multicultural studies totaling 15 hours.

Upper-Level Course Work (63 hours)¹

ADMISSION TO THE BSW PLAN

Applications are available from the HSH Advising Office and BSW faculty. Students may apply to the BSW Plan subsequent to their admission to the University, completion of a review of their transcripts, and upon completion of plan prerequisites: SWRK 4031-Introduction to Social Work and SWRK 4034-Professional Issues and Ethics in Social Work. Prospective and current students should note that the BSW Plan is accredited through the Council on Social Work Education. Multiple criteria are used in the admissions process including GPA, letters of recommendation, an autobiographical statement and faculty observation of students in the classroom. An interview may also be required as part of the admissions process.

Ordinarily students must have an undergraduate GPA of at least 2.50 in course work taken prior to applying to the BSW Plan. However, applicants will be considered who lack a 2.50 GPA, but who have had recent academic success.

BSW DEGREE REQUIREMENTS

BSW Professional Foundation courses, including prerequisites, must be completed with grades of "C" or better. Grades of "C-" or below do not count toward graduation requirements. Social Work majors must maintain a minimum 2.50 grade point average in Foundation courses, including prerequisites.

Prerequisites:

SWRK 4031 Introduction to Social Work
SWRK 4034 Issues and Ethics in Social Work

BSW PROFESSIONAL FOUNDATION COURSES

Once admitted to the BSW Plan, students must complete the following BSW Professional Foundation courses:

SWRK 4134 Diversity and Human Dev Through the Life Cycle (HBSE)
SWRK 4137 Social Welfare Policy and Services

SWRK 4138	Social Work Practice I: Practice with Individuals
SWRK 4139	Social Welfare Policy Analysis
SWRK 4234	Oppression, Diversity and Social Justice
SWRK 4238	Social Work Practice II: Practice with Groups & Families
SWRK 4338	Social Work Practice III: Practice with Organizations & Communities
SWRK 4633	Research Methods
SWRK 4730	Behavioral Statistics
SWRK 4169/SWRK 4269	Social Work Internship I/II

Students may choose to complete SWRK 4134, SWRK 4137, SWRK 4234, and SWRK 4730 prior to being fully admitted to the program. All other core classes are closed to those who aren't full admitted to the program.

Students must also complete the following requirements:

Six hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III:

Non-Western Tradition: (HUMN 3031, 3033 and HUMN 3035) or

Three semester hours in Basic Texts (HUMN 3031, HUMN 3033 or HUMN 3035)

and one of the following courses:

ARTS 3831	West Art: Prehist thru Mid Ages
ARTS 3832	West Art: Ren to Contemp Art
LITR 3334	Mythology
PHIL 3331	Ethics
PHIL 3433	Phil and Knowledge
PHIL 4134	The Great Philosophers I
PHIL 4135	The Great Philosophers II

Upper-Level Writing Requirement:

WRIT 3037	Advanced Writing
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Psychology Requirement (Select one of the following):

PSYC 3231	Learning
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
PSYC 4334	Psychology of Women
PSYC 4531	Abnormal Psychology
PSYC 4832	Cognitive Psychology

However, students interested in a Women's Studies Certificate must select

PSYC 4334	Psychology of Women.
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Sociology requirement:

SOCI 4132	Social Structure: Class, Status & Power
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Anthropology requirement:

ANTH 3131	Contemporary Cultural Anthropology
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However, students interested in a Women's Studies Certificate should instead select the following course:

ANTH 4431	Women in Society
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BSW AND CERTIFICATE IN WOMEN'S STUDIES OPTION

Students pursuing a BSW degree who would also like to receive an undergraduate certificate in Women's Studies should enroll in the following courses: WMST 4038, PSYC 4334 and one of the following Anthropology options: ANTH 4431, ANTH

4031: Studies in Cultural Diversity: Women of Color or ANTH 4031: Studies in Cultural Diversity: Latina/Latin American Feminisms. Students will need to complete the online "Undergraduate Certificate Registration Form" which is found on the UHCL Women's Studies Web site. It is recommended that interested students meet with social work faculty to make plans for completing the Women's Studies Certificate.

¹The Bachelor of Social Work Plan requires a minimum of 123 credit hours.

SOCIOLOGY (BACHELOR OF SCIENCE)

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work for this degree includes:

Texas Core Curriculum 42 hours
General Electives: 18 hours

Recommended courses include:

SOCI 1301 Introduction to Sociology
SOCI 1306 Social Problems
SOCI 2301 Marriage and Family
SOCI 2319 Multicultural Studies
PSYC 2301 General Psychology

One additional Sociology course

Upper-Level Course Work (60 hours)

This degree requires at least 60 hours of upper-level credit. A minimum of 48 hours of upper-level credit must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

General Education Requirements

The following nine hours must be completed with grades of "C" or better. Grades of "C-" or below are not acceptable.

- Three semester hours in WRIT 3037 Advanced Writing
- Six semester hours selected from Basic Texts in the Western Tradition I and II and Basic Texts III: Non-Western Tradition: HUMN 3031, HUMN 3033 and HUMN 3035
or
- Three semester hours in Basic Texts(HUMN 3031, HUMN 3033 or HUMN 3035) and one of the following courses:

ARTS 3831 West Art: Prehist thru Middle Ages
ARTS 3832 West Art: Ren to Contemp Art
LITR 3334 Mythology
PHIL 3331 Ethics
PHIL 3433 Phil and Knowledge
PHIL 4134 The Great Philosophers I
PHIL 4135 The Great Philosophers II

Six hours from the following overview courses in sociology:

SOCI 3135 Sociological Thinking
SOCI 4132 Social Structure: Class, Power and Status
SOCI 4232 Theories of Society or SOCI 4832 Honors Theories of Society

Six hours selected from the following courses in anthropology and psychology (must take one course in each discipline):

ANTH 3131 Contemporary Cultural Anth
PSYC 3331 Theories of Personality
PSYC 4131 Social Psychology
PSYC 4531 Abnormal Psychology

Three (or, in the case of honors classes, four) hours of the following statistics courses in sociology:

SOCI 4834 Statistics or
SOCI 4830 Honors Statistics and SOCI 4810 Honors Statistics Lab

Three (or in the case of honors classes, four) hours of research methods courses in sociology:

SOCI 4835 Research Methods or
SOCI 4831 Honors Research Methods and SOCI 4811 Honors Research Methods Lab

Six hours on diversity from the following list of courses. At least three hours must be in Sociology.

ANTH 3535 Topics in Asian Studies
ANTH 3537 Peoples of Africa
ANTH 4031 Studies in Cultural Diversity
ANTH 4333 Peoples of Mex & Cen Amer
ANTH 4431 Women in Society
PSYC 4038 Introduction to Women's Studies
SOCI 4136 Women and the Law
SOCI 4137 Race and the Law
SOCI 4534 Race and Ethnic Relations
SOCI 4535 Minorities in America

A minimum of 12 hours selected from the following core courses.

SOCI 3132 Criminology
SOCI 3335 Deviance
SOCI 3531 Political Sociology
SOCI 3532 Urban Sociology
SOCI 4136 Women and the Law
SOCI 4137 Race and the Law
SOCI 4233 Religion in Society
SOCI 4234 Organizations in Society
SOCI 4238 Social Conflict and Mediation
SOCI 4332 Sociology of Law
SOCI 4534 Race and Ethnic Relations

Sociology students are also encouraged to structure their plans of study to reflect concentrations within the discipline. The following concentrations have been developed by the Sociology faculty to help students better plan for their career and/or graduate educational goals.

Honors Studies Concentration (all of the following must be completed)

SOCI 4832 Honors Theories of Society
SOCI 4830 Honors Statistics
SOCI 4810 Honors Statistics Lab
SOCI 4831 Honors Research Methods and
SOCI 4811 Honors Research Methods Lab

Urban Studies Concentration (must successfully complete three of the following courses):

SOCI 3531	Political Sociology
SOCI 3532	Urban Sociology
SOCI 4132	Social Structure: Class, Power and Status
SOCI 4534	Race and Ethnic Relations
SOCI 4535	Minorities in America

Legal Studies Concentration (must successfully complete three of the following courses):

SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4238	Social Conflict and Mediation
SOCI 4332	Sociology of Law

Work and Occupations Concentration (must successfully complete three of the following courses):

SOCI 4131	Social Psychology
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4234	Organizations in Society
SOCI 4238	Social Conflict and Mediation

Diversity Concentration (must successfully complete three of the following courses):

SOCI 3532	Urban Sociology
SOCI 4136	Women and the Law
SOCI 4137	Race and the Law
SOCI 4534	Race and Ethnic Relations
SOCI 4535	Minorities in America

Criminology Concentration (must successfully complete three of the following courses):

SOCI 3132	Criminology
SOCI 3335	Deviance
SOCI 3531	Political Sociology
SOCI 4332	Sociology of Law

Women's Studies Concentration (must successfully complete three of the following courses):

SOCI 4038	Introduction to Women's Studies
SOCI 4136	Women and the Law or
SOCI 4431	Women in Society
WMST 4131	Latinas in the United States
WMST 4132	Women of Color
WMST 4337	Violence Against Women

¹General Electives: 15 hours

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees. The number of hours of general electives will also vary for students taking SOCI 4810 Honors Statistics Lab and SOCI 4811 Honors Research Methods Lab.

WOMEN'S STUDIES (BACHELOR OF ARTS)

The Baccalaureate program in Women's Studies provides a multidisciplinary education, offering courses that span both the humanities and social sciences. No prerequisites are required. The objective of this program is to expose students to a broad range of issues relating to the study of women and gender, and to teach students to reflect critically and analytically on these topics. A parallel focus of this program is to relate women's issues to analyses of ethnicity, race, class and sexual orientation, among other social factors, both within the U.S. and globally. The degree includes an optional sub-plan in Latina/Latino Studies.

Lower-Level Course Work (60 hours)

Students will ordinarily be expected to complete 60 hours of lower-level credit prior to coming to UHCL. Recommended lower-level course work includes:

Texas Core	42 hours
Curriculum	
General Electives:	18 hours

Elective courses in anthropology, psychology, sociology, humanities and women's studies are recommended.

Upper-Level Course Work (60 hours)

General Education Requirements

All nine hours must be completed with a grade of "C" or better. Grades of "C-" and below are not acceptable.

WRIT 3037	Advanced Writing	3 hours
HUMN 3035	Basic Texts III	3 hours

HSH Overview Requirement (choose one course): 3 hours

ANTH 3131	Cont Cult Anth
HUMN 3031	Basic Texts I
HUMN 3033	Basic Texts II
PSYC 3331	Theories of Personality
PSYC 4131	Social Psychology
SOCI 3135	Sociological Thinking
SOCI 4132	Social Structure
SOCI 4232	Theories of Society

Women's Studies Foundation Courses (9 hours required):

WMST 4038	Introduction to Women's Studies
WMST 4132	Women of Color
WMST 4732	Seminar in Women's Studies

Women's Studies Core Courses (15 hours):

Choose five courses from the following:

ANTH 4431/ SOCI 4431	Women and Society
HIST 4238	Women in American History
HIST 4330	History of Feminism
HIST 4438	Women in European History
HLTH 4334	Women's Health
WMST 4131	Latinas in the United States+
WMST 4133	Women and Gender in Latin America+

WMST 4134	Latina and Latin American Feminisms
WMST 4136	Women and the Law
WMST 4334	Psychology of Women
WMST 4337	Violence Against Women
WMST 4537	Women in Literature

Diversity Requirement (6 hours):

Global - choose one course from:

ANTH 3535	Topics in Asian Studies
ANTH 3537	Peoples of Africa
ANTH 4333	Peoples of Mexico/Central Amer+
ARTS 4639	Studies in Non-Western Art
HIST 4137	Studies in Latin Amer History+
HIST 4138	Colonial Latin America+
HIST 4139	Modern Latin America+
HIST 4230	History of Mexico+

U. S. Requirement-choose one course from:

ANTH 4334	Native Americans
HIST 3334	Studies in Native Amer History
LITR 4332	American Minority Literature
PSYC 4536	The Aging Experience
SOCI 4137	Race and the Law
SOCI 4535	Minorities in America

General Electives: 21 hours¹

Students interested in Women's Studies Research are encouraged to take WMST 4839 Independent Study in Women's Studies as a general elective.

+These courses will count toward an optional sub-plan in Latina/Latino Studies.

¹Students entering UHCL with more than or less than the expected 60 hours of transfer credits will take a different number of general electives to complete their degrees.

WOMEN'S STUDIES CERTIFICATE

Women's Studies is an interdisciplinary curriculum administered by the School of Human Sciences and Humanities. Women's Studies courses offer challenging new perspectives by exploring the special contributions of women and the impact of gender in a variety of academic disciplines. Women's Studies is a support area in plans such as literature, history, humanities, anthropology, sociology and psychology. Courses fulfill plan requirements in several of these areas.

Students also may complete a certificate in this area.

Inquiries should be addressed to the convener of Women's Studies.

Certificate Requirements

Undergraduate: Nine hours of Women's Studies courses in any combination.

One of the following courses is highly recommended:

WMST 4038	Introduction to Women's Studies
WMST 4732	Seminar in Women's Studies

Other Women's Studies courses are identified in the course roster.



UHCL's Art Gallery holds exhibits throughout the year featuring Houston-area faculty, guest artists and UHCL graduate and bachelor of fine arts student shows.





*“Having an advanced physics degree, put me a step ahead of the game with greater job security and prompt promotion opportunities.”
Jacob Collins –Aerospace Engineer, NASA, Class of 2005.*



SCHOOL OF SCIENCE AND COMPUTER ENGINEERING

- Biological Sciences
- Chemistry
- Computer Engineering
- Computer Information Systems
- Computer Science
- Environmental Science
- Information Technology
- Mathematical Science
- Physics
- Physical Sciences

The School of Science and Computer Engineering (SCE) offers high quality academic degrees consistent with the role of a regional public university. Plans within the school prepare graduates to enter fields in natural sciences, mathematics, computing and computer engineering. Individuals in the school's plans are expected to develop skills in problem solving, independent study and critical thinking, and to be able to adapt knowledge to new situations and to the benefit of society. Students in these plans attain a sense of professional values and ethics as well as knowledge and skills relevant to their specific subject area. This sense of professional responsibility is essential if society is to benefit from the interfaces with advanced technology and science.

The school supports research and development directed toward producing new knowledge and identifying additional applications of existing knowledge. Dissemination of scientific knowledge through publications and presentations is encouraged, as well as professional service to local, regional, national and international communities.

The School of Science and Computer Engineering has three divisions; the Division of Computing and Mathematics, the Division of Engineering and the Division of Natural Sciences. The faculty of each division aspires to a professional model that includes balance among the components of the SCE mission: teaching, research and service.

The Division Chair of Computing and Mathematics coordinates the plans in Computer Information Systems, Computer Science, Information Technology and Mathematical Science. The undergraduate degree plans in Computer Science and Computer Information Systems are accredited by the Computer Accreditation Commission of ABET, Inc.

The Division Chair of Engineering coordinates the plans in Computer Engineering, and Systems Engineering. Support areas include telecommunications, robotics, control systems, industrial modeling, mathematical modeling and petrochemical processes. The undergraduate degree plan in Computer Engineering is accredited by the Engineering Accreditation Commission of ABET, Inc.

The Division Chair of Natural Sciences coordinates the plans in Biological Sciences, Chemistry, Environmental Science, Physics and Physical Sciences. Sub-plans or specialization areas include physiology/pre-health, cell/molecular, ecology/microbiology, biotechnology, environmental chemistry, environmental geology, environmental biology, industrial hygiene and safety. The Chemistry Program has complete accreditation from the American Chemical Society (ACS).

STANDARDS AND REQUIREMENTS FOR DEGREES IN THE SCHOOL OF SCIENCE AND COMPUTER ENGINEERING

ADMISSION INTO A DEGREE PLAN

Following admission to the university, students' transcript evaluations are forwarded to the Office of Student Advising. Some undergraduate plans require that faculty admissions committees review the students' files and determine whether students will be accepted into degree plans. Students are notified of their admission status by the associate dean. Once accepted to a degree plan, students meet with academic advisers and faculty who assist students in completing a Candidate Plan of Study (CPS). The CPS delineates specific requirements of a study area and must be completed during the semester of acceptance into a degree plan.

In general, for an undergraduate degree at University of Houston- Clear Lake, no more than 12 hours of course work taken prior to completion of a CPS may be applied toward any degree in the school. These hours, along with the hours accumulated during the semester the CPS is being finalized, will be evaluated for acceptance by the faculty advisor and approved by the associate dean.

REQUIREMENTS FOR UNDERGRADUATE PLANS

Undergraduate students are required to satisfy the university undergraduate degree requirements described earlier in this catalog. Students pursuing bachelor of arts degrees or bachelor of science degrees must complete a minimum of 120 semester hours.

Courses noted on the CPS as academic core courses must be completed with a grade of "C-" or better. Some plans may require a grade of "C" or better in courses taken in the academic core.

DIVISION OF COMPUTING AND MATHEMATICS

Students desiring to study in the computing sciences may choose any one of five undergraduate plans. Applicants should consult the chair of the division for additional information.

REQUIREMENTS AND STANDARDS FOR PLANS IN COMPUTING AND MATHEMATICAL SCIENCE

Undergraduate Admission Requirements

An SCE admission committee reviews all applications. Students entering any of the undergraduate computer science and computer information systems plans should have a cumulative GPA of 2.500 (four-point grade scale) or better in lower-level or transfer courses. Students with a GPA of less than 2.500 are encouraged to provide a written statement or additional material that will assist the admission committee in determining the individual's potential for success in upper-level courses.

Core Requirements

All core courses require a grade of "C-" or better.

UNDERGRADUATE COMPUTING DEGREES

Computer Information Systems

The plan in Computer Information Systems (CIS) leads to a bachelor of science (BS) degree. This plan prepares students to hold technical, administrative and management positions in the analysis, design, implementation, maintenance, operation and management of computer-based information systems. It is based on a broad general education and upper-level studies in computer science and other areas related to information systems, such as management, communication and accounting.

The mission of the Computer Information Systems program is to prepare students for technical administrative and management careers in the analysis, design, implementation, maintenance, support, operation and management of computer information systems.

Computer Information Systems: Program Educational Objectives

The program educational objectives of the CIS program strike a balance between theory and practice of computer science and information systems. This balance satisfies both regional and national needs. Students graduating from the CIS program are equipped with not only sound technical knowledge and skills, but also understanding of the Information Systems (IS) environments.

- Computer Information Systems graduates will be competent in core foundations of Information Systems, Computing and Mathematics.
- Computer Information Systems graduates will understand the role of IS and be able to work effectively within Information Systems environments.
- Computer Information Systems graduates will be able to apply techniques in broad Information Systems areas, including database, networking, systems administration, and Web application development.
- Computer Information Systems graduates will be able to apply information systems knowledge and practices and systems analysis and design techniques for developing and managing Information Systems.
- Computer Information Systems graduates will be able to communicate and collaborate effectively and professionally in teams and with persons in various information systems roles.
- Computer Information Systems graduates will be aware of the need for life-long learning and will be conscious of ethical, social, global, legal, security-related and professional issues related to information systems.

The CIS program at the University of Houston-Clear Lake is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

Computer Information Systems: Basic Requirements

Students must complete the following courses or their equivalents in preparation for upper-level study:

Accounting

3 hours

Business Calculus or Calculus I	3-4 hours
*Statistics	3 hours
*Principles of Management or Management Theory and Practice	3 hours
Economics	3 hours
Three additional hours of Accounting or Economics	3 hours
*Computer Programming in Pascal or Visual Basic	3 hours
*Computer Programming in C or C++	3 hours

*Courses available at UHCL.

Computer Information Systems: Core Requirements

(42 Hours)

Students must meet these core requirements or approved upper-level substitutes:

CINF 3231	IS Theory & Practice
CINF 3331	Business Data Communications
CINF 4230	Web Application Development
CINF 4234	Modern Systems Analysis and Design
CINF 4634	Computer Systems Administration
CINF 4838	Senior Projects in CIS
CSCI 3134	Software Development with Java
CSCI 3234	Advanced Software Development
CSCI 3331	Computer Organization & Assembly Language
CSCI 3333	Data Structures
CSCI 4333	Design of Data Base Systems
DSCI 3131	Quantitative Methods for Mgmt
MATH 3331	Discrete Mathematics
SWEN 4432	Software Engineering

Note: Lower-level credit given for any of the above courses may require students to take additional approved technical electives to satisfy the plan requirements.

Computer Information Systems: Technical Electives

(18 Hours)

Business electives* (6 hours)

Note: The elected courses should not have major overlap with CSCI or CINF courses listed in the student's CPS. For example, ISAM 3331 (Intro. To Business Databases), ISAM 4331 (Internet App in Business) and ISAM 4635 (Analysis & Design of Business Systems) are NOT appropriate business electives for CIS students.

CINF/CSCI/CENG/SWEN courses* (6 hours)

A communication course **

WRIT 3132 Written Communications in Business (3 hours) or

COMM 4233 Speech Communication: Theory and Practice

Approved elective: CSCI, CINF or WRIT 3135 (3 hours)

*The specific courses beyond the core requirements to be included in the Candidate Plan of Study (CPS) will be selected by students with the approval of the faculty adviser.

**This requirement is in addition to the technical writing course requirement of SCE.

Web Application and E-Commerce Sub-plan

Students interested in developing a sub-plan in web applications and E-commerce should consider the following as electives:

CSCI 4135	Adv Software Dev with .Net Framework and C#
CINF 4334	Electronic Commerce

Computer Systems and Security Sub-plan

Students interested in developing a sub-plan in computer systems and security should consider the following as electives:

CSCI 4134	Adv Software Design with Java
CSCI 4132	Network Protocols
CSCI 4534	Operating Systems
CINF/CSCI 4233	Computer Security

Telecommunications Sub-plan

Students interested in developing a sub-plan in telecommunications should consider the following as electives:

CSCI 4132	Network Protocols
CENG 4231	Telecom Switching Systems
CENG 4131	Telecom Net Devices

Computer Information Systems: Suggested Plan of Study

The following study plan for the four regular semesters is recommended as a typical example for incoming full-time CIS students. Individual study plans may vary as long as the prerequisite structures are satisfied. Students should seek the advice of their assigned faculty adviser and set up their Candidate Plan of Study (CPS) as early as possible.

Semester 0 (3 credits):

CSCI 3134	Software Dev with Java
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Semester 1 (15 credits):

CSCI 3234	Advanced Software Development
CINF 3231	IS Theory & Practice
MATH 3331	Discrete Mathematics
Business elective	
COMM elective	

Semester 2 (15 credits):

CINF 3331	Business Data Communications
CINF 4234	Modern Systems Analysis and Design
CSCI 3331	Computer Organization & Assembly Language
CSCI 3333	Data Structures
SWEN 4432	Software Engineering

Semester 3 (15 credits):

CINF 4230	Web App Develop
CSCI 4333	Design of Database Sys
CINF/CSCI/CENG/SWEN	elective
Business Electives	
DSCI 3131	Quant Methods for Management

Semester 4 (12 credits):

CINF 4838	Senior Project in CIS
CINF/CSCI/CENG/SWEN	elective
CINF/CSCI/CENG/SWEN	elective
CINF 4634	Computer Sys Admin

Computer Science

The plan in Computer Science (CS) leads to a bachelor of science (BS) degree. This plan emphasizes the development of the skills and analytical abilities necessary to specify, design and develop computer-based solutions to complex systems problems. Students receive extensive instruction in software and hardware principles; in scientific, industrial and commercial applications; and in the supporting mathematical tools. The curriculum allows students to develop a broad background in computer science areas relating to system and application software development.

The mission of the undergraduate Computer Science program is to prepare students for productive careers in computing by providing an excellent and diverse environment for learning, research, and practice of computing theories, computer applications and software development.

Computer Science: Program Educational Objectives

The program educational objectives of the CS program strike a balance between theory and practice of computer science. Students graduating from the CS program are equipped with not only sound technical knowledge and skills, but also strong computer science fundamentals.

- Computer Science graduates will be competent in the fundamentals of computer science.
- Computer Science graduates will be competent in core foundation of mathematics, the sciences and engineering related to Computer Science.
- Computer Science graduates will be competent in analyzing, designing and implementing solutions to computing problems systems in a wide range of application areas using modern tools and techniques necessary for computing practices.
- Computer Science graduates will be able to communicate and collaborate effectively and professionally in teams and with persons in various computer science roles.
- Computer Science graduates will be aware of the need for life-long learning and will be conscious of ethical, social, global, legal, security and professional issues related to computing.

The Computer Science program at the University of Houston-Clear Lake is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

Computer Science: Basic Requirements

Students must complete the following courses or their equivalents in preparation for core requirements:

*Linear Algebra	3 hours
Calculus I & II	8 hours
*Ordinary Differential Equations	3 hours
*Calculus Based Physics with lab	8 hours
General Chemistry with lab	4 hours
*Computer Programming in C or C++	3 hours

* Courses available at UHCL that can be taken while concurrently enrolled in a Community College.

Computer Science: Core Requirements

(48 Hours)

Students must take the following courses or their approved substitutes:

CENG 3112	Lab for Digital Circuits
CENG 3132	Digital Circuits
CENG 3311	Lab for Telecom & Networks
CENG 3331	Intro to Telecom & Networks
CENG 3511	Lab for Computer Architecture
CENG 3531	Computer Architecture
CSCI 3134	Software Dev with Java
CSCI 3231	Numerical Methods
CSCI 3234	Advanced Software Development
CSCI 3331	Comp Organization & AssemblyLang.
CSCI 3333	Data Structures
CSCI 3532	Adv Data Struc & Algorithms
CSCI 4333	Design of Database Systems
CSCI 4534	Operating Systems
CSCI 4838	Senior Project in Computer Science
MATH 3331	Discrete Math
MATH 3334	Prob & Stat for Sci & Eng
SWEN 4432	Software Engineering

Computer Science: Required Electives

(12 Hours)

In addition to the core requirements, students must also take the following:

CSCI courses	6 hours
Approved CSCI, CINF or other related electives	6 hours

Computer Science: Suggested Plan of Study

The following study plan for four regular semesters is recommended as a typical example for incoming full-time CS students. Individual study plans may vary as long as the prerequisite structures are satisfied. Students should seek the advice of their assigned faculty adviser and set up their Candidate Plan of Study (CPS) as early as possible. The plan includes 48 hours of required core and 12 hours of required electives. Students must take all courses or their approved substitutes.

Semester 0 (7 credits):

CENG 3132 / CENG 3112	Digital Circuits and Laboratory
CSCI 3134	Software Dev with Java

Note: The above courses should be taken before the start of the junior year at UHCL (no later than summer of sophomore year).

Semester 1 (Junior Year - 13 credits):

CENG 3331 / CENG 3311	Intro to Telecom & Networks and Laboratory
CSCI 3234	Advanced Software Development
CSCI 3331	Computer Organization and Assembly Language
MATH 3331	Discrete Mathematics

Semester 2 (Junior Year - 16 credits):

CENG 3531 / CENG 3511	Computer Architecture
CSCI 3333	Data Structures
CSCI 3231	Numerical Methods
MATH 3334	Prob & Stat for Sci & Eng
SWEN 4432	Software Engineering

Semester 3 (Senior Year - 12 credits):

CSCI 3532	Advanced Data Structures and Algorithms
CSCI 4333	Design of Database Systems
Approved CSCI, CINF or other related elective	
Approved CSCI, CINF or other related elective	

Semester 4 (Senior Year - 12 credits):

CSCI 4534	Operating Systems Approved
CSCI, CINF or other related elective	
Approved CSCI, CINF or other related elective	
CSCI 4838	Senior Project in Computer Science

INFORMATION TECHNOLOGY

The plan in Information Technology (IT) leads to the bachelor of applied science (BAS) degree. This plan prepares students in a variety of IT careers such as systems administrator, network administrator, computer specialist, database manager, database administrator, computer technician, computer security manager, computer systems manager, web designer and developer, etc. within commercial, industrial, educational and governmental institutions. The curriculum allows students to develop a broad background in information technology with a balance of theory and hands-on practical experience.

INFORMATION TECHNOLOGY: BASIC REQUIREMENTS

Applicants for the BAS in Information Technology should have completed these courses in preparation for core requirements:

Statistics	3 hours
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* Courses available at UHCL.

INFORMATION TECHNOLOGY: CORE REQUIREMENTS (39 HOURS)

Students must meet these core requirements or approved upper-level substitutes.

ITEC 4133*	Emerging Information Technologies
ITEC 4335*	Database Development and Administration
ITEC 4831*	Computer Forensics
ITEC 4838*	Senior Projects for Information Technology
CINF 3131	Programming with Visual Basic
CINF 3231	Information Systems Theory & Practice
CINF 3331	Business Data Communications
CINF 4234	Modern Systems Analysis and Design
CINF 4634	Computer Systems Administration
CSCI 3134	Software Development with Java
CSCI 3033	Concepts of Data Structures
MGMT 3031	Management Theory and Practice
WRIT 3135	Technical Writing

* Pending Coordinating Board approval

Note: Lower-level credit given for any of the above courses may require students to take additional approved technical electives to satisfy the plan requirements.

INFORMATION TECHNOLOGY: TECHNICAL ELECTIVES (21 HOURS)

Sub-plan electives* (9 hours)

Approved electives* (12 hours)

*The specific courses beyond the core requirements to be included in the Candidate Plan of Study (CPS) will be selected by students with the approval of the faculty adviser.

Note: Up to six hours of electives can be transferred from community colleges with the approval of the faculty adviser.

INFORMATION TECHNOLOGY SUB-PLANS

Students must select one of the following two sub-plans in Information Technology.

WEB DESIGN AND DEVELOPMENT SUB-PLAN

Students interested in developing a sub-plan in web design and development must select three out of these four courses:

CINF 4230	Web Application Development
CINF 4334	Electronic Commerce
ARTS 4439	Computer Imaging
ARTS 4434	Web Design

Students are also encouraged to take ARTS 4435 Advanced Web Design as one of the approved electives.

IT MANAGEMENT AND ADMINISTRATION SUB-PLAN

Students interested in developing a sub-plan in IT management and administration must take:

*ITEC 4635 Network Administration

In addition, they must take two of the following three courses:

MGMT 3133	Organizational Communication
CSCI 4233	Computer Security
CSCI 4333	Design of Database Systems

MATHEMATICAL SCIENCE

The plan in Mathematical Science leads to the bachelor of arts (BA) or bachelor of science (BS) degree. The undergraduate degree is designed to prepare the student for a career in industry or education, or to prepare the student for graduate study in mathematics, statistics, operations research or other mathematically based disciplines. The plan includes courses in both the classical foundations of mathematics and the modern concern with numerical issues spawned by the computer.

Students who are seeking teaching certification will follow the degree plan and certification on notated pages. Please consult the School of Education for 4-8 degree and certification as well as for 8-12 degree and certification.

Basic Preparation for the BA Degree in Mathematical Science

(20-21 hours)

Applicants for the BA in Mathematical Science should have completed these courses in preparation for core requirements:

Calculus I,II	8 hours
*Calculus III	3-4 hours
*Natural Science	6 hours
*Scientific Programming Language	3 hours

*Courses available at UHCL.

Core Requirements

(12 hours)

If lower-level credit is given for any of the following courses, additional upper-level course work selected from the list of electives will be required. In addition to the three-semester calculus sequence, students must complete the following courses:

MATH 3131	Introduction to Linear Algebra
MATH 4030	Introduction to Modern Algebra and Number Theory
MATH 4131	Ordinary Differential Equations & Applications
MATH 4434	Introduction to Probability

Additional Requirements

(9 Hours)

The remainder of required hours are selected from the following:

MATH 4031	History of Math Sciences
MATH 4132	Number Theory
MATH 4135	Numerical Analysis & Its Applications
MATH 4136	Math Software Applications
MATH 4231	Predicate Logic
MATH 4232	Introduction to Abstract Algebra
MATH 4235	Theory of Models & Applications
MATH 4435	Introduction to Statistics

General elective WRIT 3135 Tech. Writing if ENGL 2311 not taken.

Basic Preparation for BS Degree

(20-21 Hours)

Applicants for the BS in Mathematical Science should have completed these courses in preparation for plan core requirements:

Calculus I, II	8 hours
*Calculus III	3-4 hours
*Natural Science	6 hours
*Scientific Programming Language	3 hours

*Courses available at UHCL.

Core Requirements

(18 Hours)

If lower-level credit is given for any of the following courses, additional upper level course work selected from the list of electives will be required. In addition to the three-semester calculus sequence, students must complete the following courses:

MATH 3131	Introduction to Linear Algebra
MATH 4131	Ordinary Differential Equations/Applications
MATH 4232	Introduction to Abstract Algebra or
MATH 4435	Introduction to Statistics
MATH 4136	Math Software Applications
MATH 4331	Advanced Calculus
MATH 4434	Intro to Probability

Additional Requirements

(9 Hours)

The remainder of required hours is selected from the following:

MATH 4132	Number Theory
MATH 4133	Introduction to Topology
MATH 4135	Numerical Analysis & Its Applications
MATH 4231	Predicate Logic
MATH 4232	Introduction to Abstract Algebra
MATH 4235	Theory of Models and Applications
MATH 4431	Introduction to Analysis
MATH 4435	Introduction to Statistics
MATH 4633	Functions of a Complex Variable

General elective WRIT 3135

Tech. Writing if ENGL 2311 not taken.

DIVISION OF ENGINEERING

COMPUTER ENGINEERING

The plan in Computer Engineering leads to the bachelor of science (BS) degree. This engineering plan is accredited by ABET, Inc. and emphasizes the study of large and small computer systems for industrial, scientific and business applications. Computer hardware and software concepts, along with engineering-level mathematics, prepare students for jobs in computer-based industries as well as for admission into the graduate plan in Computer Engineering.

The culminating experience for a student in this plan is CENG 4625 / CENG 4626 Senior Projects. Students desiring to complete this plan in 4 years should concurrently enroll at UHCL after completing 30 semester hours at the transfer institution.

The mission of the Computer Engineering plan is to provide students instruction in the pragmatic application of core knowledge by which they can specify, design and develop large and small computer systems for industrial and scientific purposes. There is an emphasis on microcomputer-based embedded systems. The curriculum includes sub-plans in software engineering and telecommunications.

The education objectives of the Computer Engineering program are:

- as practicing engineers, shall apply core knowledge (mathematics, science and engineering) to specify, design, develop, and test computer systems, including the

ability to work effectively on multidisciplinary teams and to communicate effectively to achieve objectives.

- as practicing engineers, shall have demonstrated the capability to solve engineering problems, using modern tools and techniques, drawn from a range of technical specialties (telecommunications and networking, digital controls, and real-time systems) that are consistent with the needs of our industrial constituents and the expertise of the faculty.
- as practicing engineers, shall exercise professional and ethical responsibilities.
- as practicing engineers, shall successfully demonstrate the mastery of higher order thinking skills including quantitative and qualitative analysis, synthesis and evaluation of information, argumentation, problem solving and creativity.
- serve communities, make significant contributions to society and consider the impact of engineering solutions in a global and societal context.
- participate in lifelong learning experiences in the professional community.

Computer Engineering Requirements

Admission Requirements

Students entering the undergraduate Computer Engineering (CENG) plan should have a cumulative GPA of 2.500 (four-point grade scale) or better in lower level or transfer courses. Students with a GPA of less than 2.500 are encouraged to provide a written statement of additional material that will assist the admission committee in determining the individual's potential for success in upper level courses.

Core Plan Requirements

All core courses require a grade of "C-" or better.

Basic Requirements

Students seeking a degree in Computer Engineering must have completed these courses or their equivalents in preparation for upper-level study:

General Chemistry	4 hours
*Ordinary Differential Equations	3 hours
Calculus I & II	6 hours
*Calculus III	3 hours
*Calculus Based Physics	8 hours
*Programming with C	3 hours
*Linear Algebra	3 hours

*Courses available at UHCL.

Core Course Requirements

(54 hours)

CENG 3112	Lab for Digital Circuits
CENG 3113	Lab for Linear Circuits
CENG 3114	Lab for Adv Linear Circuits
CENG 3132	Digital Circuits
CENG 3133	Linear Circuits
CENG 3134	Advanced Linear Circuits
CENG 3311	Lab for Telecom/Networks
CENG 3331	Intro to Telecom/Networks

CENG 3511	Lab for Computer Architecture
CENG 3531	Computer Architecture
CENG 3624	Intro to Engineering
CENG 4113	Lab for Microprocessor Interfacing
CENG 4133	Microprocessor Interfacing
CENG 4331	Analysis & Design of Linear Sys
CENG 4534	Digital System Design
CENG 4625 / CENG 4626	Senior Projects
CSCI 3331	Computer Organization & Assembly Language
CSCI 3333	Data Structures
MATH 3331	Discrete Mathematics
MATH 3334	Probability & Statistics for Scientists & Engineers
SENG 4130	Intro to Systems Engineering
SWEN 4432	Software Engineering

An additional 12 hours of technical electives in CENG/CSCI/SWEN are required.

Computer Engineering: Sub-plan in Software Engineering

Students interested in software engineering should select from the following courses as their required technical electives:

CSCI 3233	Object - Oriented Design and Programming
CSCI 3532	Adv Data Structure & Algorithms
SWEN 4433	Software Engineering Tools
SWEN 4435	Introduction to Personal Software Process

Computer Engineering: Sub-plan in Telecommunications

Students interested in careers involving telecommunications and networks should take the following courses as their required technical electives:

CENG 3135/3115	Introduction to DSP and Lab
CENG 4131	Telecom Networking Devices
CENG 4231	Telecom Switching Systems
CSCI 4132	Network Protocols

Computer Engineering: Sub-plan in Signals and Controls

Students interested in careers involving signal processing and control systems should take the following courses as their required technical electives:

CENG 3135/3115	Introduction to DSP and La
CENG 4135	DSP Applications
CENG 4632	Digital Control Design
CSCI 3231	Numerical Methods

DIVISION OF NATURAL SCIENCES

BIOLOGICAL SCIENCES

The plan in Biological Sciences leads to the bachelor of science (BS) or bachelor of arts (BA) degree. This plan is designed to prepare students for advanced study, technical positions in environmental or biomedical research or teaching. The Physiology/Pre-Health sub-plan within the BS plan is particularly applicable to students preparing for medical or dental school or other health-related professions.

The BA in Biological Sciences is designed primarily for students interested in teaching biology at the middle or high school level.

Requirements for the BA Degree in Biological Sciences

Basic Requirements

Applicants for the BA in Biological Sciences must have completed these courses in preparation for upper-level study:

Chemistry with lab (including 4 hours of organic (with lab)	12 hours
Biology (including labs)	8 hours

Core Requirements

The course of study for the BA in Biological Sciences requires 60 semester hours, which includes 31 hours of core courses, plus 29 hours of designated electives in the sciences (BIOL, CHEM, ENSC or GEOL) or other areas as approved by the faculty advisor.

Students must complete the following core courses with grades of "C" or better (grades of "C-" or below are not acceptable) in the Biological Sciences at UHCL.

Environment (BIOL 3333, BIOL 3131 or BIOL 4035)	3 hours
Population (BIOL 4131 or BIOL 3335)	3 hours
Anatomy & Lab (BIOL 3031 & BIOL 3011 or BIOL 3133 & BIOL 3113 or BIOL 3733 & BIOL 3713 or BIOL 4133 & BIOL 4113)	4 hours
Physiology (BIOL 4434 or BIOL 4435 or BIOL 3134)	3 hours
Microbiology & Lab (BIOL 3231 & BIOL 3221)	5 hours
Cellular Biology (BIOL 3037 or BIOL 4431)	3 hours
Genetics & Lab (BIOL 3431 & BIOL 3411)	4 hours

Required support courses:

Statistics (MATH 3038)	3 hours
Technical Writing (WRIT 3135, if not completed at lower level)	3 hours

BA Degree in Biological Science sub-plan in General Biology (29 hours)

In addition to the required core courses, students in the General Biology sub-plan must complete an additional 29 hours of designated elective courses. These courses may be selected from list below or other courses from lists above; or as approved by faculty advisor; these courses must be completed with grades of "C-" or better:

BIOL 3036 Development of the Sciences	BIOL 4135 Biology Practicum
BIOL 3334 Environ & Public Health Microbiology	BIOL 4233 Field Biology
BIOL 4237 Plant Identification	BIOL 4819, 4829, 4939 Independent Study
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective
CHEM xx3x Approved Elective	ENSC xx3x Approved Elective
GEOL xx3x Approved Elective	Elective xx3x Approved Elective

BA in Biological Science sub-plan for Teacher Certification

In addition to the required core courses for the BA in Biological Sciences, students in the Teacher Certification sub-plan must complete courses offered in the School of Education and must have dual advisement in both the subject field (Biological

Sciences) and education. Please refer to the School of Education section of the catalog for the appropriate coursework for grades 4-8 or 8-12 teaching preparation.

Requirements for the BS Degree in Biological Sciences

Basic Requirements

Applicants for the BS in Biological Sciences must have completed these courses in preparation for upper-level study:

General Chemistry (including lab)	8 hours
Physics (including lab)	8 hours
Calculus	4 hours
Biology (including lab)	8 hours

Core Requirements

The course of study for the BS in Biological Sciences requires 60 semester hours, which include 28 hours of core courses, plus 32 hours of required courses and designated electives within their chosen specialization area. All designated electives must be approved by the faculty advisor.

Students must complete the following core courses with grades of "C" or better (grades of "C-" or below are not acceptable) in the Biological Sciences.

Core courses for the BS Degree in Biological Sciences (28 hours)

BIOL 4431	Biochemistry I	3 hours
BIOL 4422	Laboratory for Biochemistry	2 hours
BIOL 3431	Genetics	3 hours
BIOL 3411	Genetics Laboratory	1 hour
CHEM 3233, 3234, 3224	Organic Chemistry I & II, Lab	8 hours
BIOL 4131	Ecology	3 hours
MATH 3038	Computational Statistics	3 hours
BIOL 4728	Seminar in Biology	2 hours
WRIT 3135	Technical Writing (if not completed at lower level)	3 hours

Five Specialization Areas are available to students pursuing the BS degree in Biological Sciences. In all cases, prerequisites for any course must be satisfied prior to enrollment in the course. Students must complete the required courses for each Specialization Area with grades of "C" or better (grades of "C-" or below are not acceptable). Designated Elective Courses must be completed with grades of "C-" or better. Specialization Areas in Biological Science

Cell/Molecular/Biotechnology Specialization Area (32 Hours)

Required courses (12 hours):

BIOL 4432	Biochemistry II	3 hours
BIOL 4437	Cellular Physiology	3 hours
BIOL 4438	Developmental Biology	3 hours
BIOL 4531	Molecular Biology	3 hours

Choose one of the following courses (3 hours):

BIOL 4435	Human Physiology
BIOL 4434	Comparative Animal Physiology
BIOL 3134	Plant Physiology

Choose one of the following courses with lab (4 hours):

BIOL 3733 & BIOL 3713 Human Anatomy & Lab
 BIOL 3031 & BIOL 3011 Comparative Animal Morphology & Lab
 BIOL 3133 & BIOL 3113 Plant Anatomy & Lab

Choose 4-5 of the following Designated Elective Courses or other courses from list above (13 hours)

BIOL 4332 Histology	BIOL 4436 Pathophysiology
BIOL 4522 Molecular Biology Lab	BIOL 4535 Tissue Culture
BIOL 4523 Lab for Biotechnology	BIOL 4631 Immunology
BIOL 4524 Eukaryotic Gene Expression Lab	BIOL 4731 Cancer Biology
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective
BIOL 4819, 4829, 4839 Independent Study	Elective xx3x Approved Elective

Physiology/Pre-Health Specialization Area (32 Hours)

Required courses (20 hours):

BIOL 4432	Biochemistry II	3 hours
BIOL 4435 & BIOL 4421	Human Physiology & Lab	5 hours
BIOL 3733 & BIOL 3713	Human Anatomy & Lab	4 hours
BIOL 3231 & BIOL 3221	Fundamentals of Microbiology & Lab	5 hours
BIOL 4631	Immunology	3 hours

Choose one of the following courses: (3 hours)

BIOL 4437	Cellular Physiology
BIOL 4436	Pathophysiology
BIOL 4531	Molecular Biology

Choose 3 of the following Designated Elective Courses or other courses from list above (9 hours):

BIOL 4332 Histology	BIOL 3335 Epidemiology
BIOL 4235 Environmental Toxicology	BIOL 4438 Developmental Biology
BIOL 4523 Lab for Biotechnology	BIOL 4731 Cancer Biology
CHEM 4639 Food Science & Nutrition	HLTH xx3x Approved Elective
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective
BIOL 4819, 4829, 4839 Independent Study	BIOL xx2x Biology Lab Course
Elective xx3x Approved Elective	

Ecology/Microbiology/Aquatic & Marine Biology Specialization Area (32 Hours)

Required courses (18 hours):

Physiology (BIOL 4434 or BIOL 3134)	3 hours
Anatomy & Lab (BIOL 3031 & BIOL 3011 or BIOL 3133 and BIOL 3113)	4 hours
Microbiology & Lab (BIOL 3231 & BIOL 3221)	5 hours
Environmental Biology (BIOL 3333)	3 hours
Field Biology (BIOL 4233)	3 hours

Choose two of the following courses: (6-7 hours)

BIOL 3131	Marine Biology
BIOL 4235	Environmental Toxicology
BIOL 4133 & BIOL 4113	Biology of Fishes & Lab
BIOL 3334	Environmental & Public Health Microbiology
BIOL 4x3x	Plant Development

Choose 3 of the following Designated Elective Courses or other courses from list above (7-8 hours):

BIOL 4237 Plant Identification	BIOL 3335 Epidemiology
BIOL 4035 Ecology of the Amazon	BIOL 4631 Immunology
BIOL 4437 Cellular Physiology	BIOL 4523 Lab for Biotechnology
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective
BIOL 4819, 4829, 4839 Independent Study	BIOL xx2x Biology Lab Course

Plant Biology Specialization Area (32 Hours)

Required courses (16 hours):

BIOL 3133 & BIOL 3113	Plant Anatomy & Lab	4 hours
BIOL 3134	Plant Physiology	3 hours
BIOL 4432	Biochemistry II	3 hours
BIOL 4437	Cellular Physiology	3 hours
BIOL 4x3x	Plant Development	3 hours

Choose one of the following courses: (3 hours)

BIOL 4531	Molecular Biology
BIOL 4237	Plant Identification
BIOL 3333	Environmental Biology

Choose 4-5 of the following Designated Elective Courses or other courses from list above (13 hours):

BIOL 4524 Eukaryotic Gene Expression Lab	BIOL 4x3x Plant Tissue Culture
BIOL 4522 Molecular Biology Laboratory	BIOL 4035 Ecology of the Amazon
BIOL 4819, 4829, 4839 Independent Study	BIOL 4135 Biology Practicum
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective

Forensic Biology Specialization Area (33 Hours)

Required courses (29 hours):

BIOL 3231 & BIOL 3221	Microbiology & Lab	5 hours
BIOL 3733 & BIOL 3713	Human Anatomy & Lab	4 hours
BIOL 4443 or BIOL 4435	Animal or Human Physiology	3 hours
BIOL 4x3x	Forensic Biology	3 hours
CHEM 4x3x	Forensic Chemistry	3 hours
CHEM 4x3x	Quantitative Analysis	3 hours
BIOL 4235	Environmental Toxicology	3 hours
CRIM 3132	Criminology	3 hours
BIOL 4x2x	Forensics Seminar (replaces BIOL 4238 from Biology core course list)	2 hours

Choose two of the following Designated Elective courses: (6 hours)

CHEM 4635 Analytical Chemistry I	CHEM 4636 Instrumental Analysis
CRIM 4334 Criminal Law	CRIM 4330 Criminal Investigation
BIOL 4819, 4829, 4839 Independent Study	BIOL 4135 Biology Practicum
BIOL 4931 Topics Courses	BIOL xx3x Approved Elective

Pre-Health Professions Students

Pre-Health Professions students (e.g., medical, dental, physician assistant, physical therapy or nursing) are advised that most health professional schools require the following courses; however, students are responsible for determining the specific requirements of those medical schools selected for application:

General Chemistry	One year with laboratory
Organic Chemistry	One year with laboratory
General Physics	One year with laboratory
Calculus	One half year
Biology	Two years, one with laboratory

Requests for letters of recommendation from the Pre-Health Profession Evaluation Committee must be in the Premedical Advisor's office no later than the third Monday in September. UHCL Pre-health Advisory Committee Web page:
<http://www.uhcl.edu/sce/HPAC>

Biology Scholars Plan - Linked BS-MS Degree Plans in Biology

The Biology Scholars Plan combines the BS degree plan in Biology with MS degree plans in Biology or Biotechnology with the intention of allowing highly motivated and qualified students to complete both the BS and MS degrees in biology in a time and cost efficient manner. Students in the plan may take up to four courses at the graduate level in their senior year if they have completed the required course prerequisites. These graduate credit hours may be applied toward either the BS or MS degree, but not both. Additionally, students in the Scholars Plan are expected to begin a graduate research project early in their studies. After admission to the Scholars Plan and successful completion of the BS degree in Biology, the Biology Program Graduate Admissions committee will consider waiving the Graduate Record Examination (GRE) requirement for admission into the Biology Graduate Program.

Biology Scholars Plan Application Requirements:

- Applicants may apply for admission to the program during their sophomore, junior, or senior year in college.
- Applicants must declare themselves to be Biology majors immediately upon admission.
- Applicants must have completed a minimum of 12 credit hours in Mathematics/Science coursework at the lower level, including a minimum of 8 credit hours in biology, and have a cumulative Mathematics/Science GPA of 3.5.
- Applicants must provide a letter of recommendation from a science faculty advisor familiar with the student's coursework.
- Applicants must interview with the Scholars Plan Admissions Committee.
- After admission, successful continuation in the Scholars Plan will require students to:
- Maintain an overall GPA of 3.0 and Mathematics/Science GPA of 3.0. Failure to maintain these averages will result in a one-semester probation period during which the student must improve his/her cumulative GPA to 3.0, and their Mathematics/Science GPA to 3.0.

- Participate in a research project as an Independent Study course under the supervision of a graduate faculty advisor during the senior undergraduate year.
- Enroll in the Biology Graduate Program upon completion of the requirements for the BS degree.
- Successfully complete a research project as an Independent Study or graduate thesis under the supervision of a graduate faculty advisor as part of their MS degree coursework.

Students who fail to meet any of these requirements will be dropped from the Scholars Plan, but may continue to pursue the BS or MS degree in biology. Students who are dropped from the Scholars Program, but who wish to continue to pursue the MS degree, must meet the standard application requirements for admission to the Biology Graduate Program.

At the completion of the requirements for each degree the student will be awarded the BS and MS degrees in Biological Sciences. A notation will be made on the student's transcript indicating they have completed the Biology Scholars Plan.

In the event a student is unable to complete the entire program of study, they are assured the BS degree in Biology upon completion of the requirements for that degree. In the event a student fails to complete the MS degree requirements, graduate level classes taken while in the program may be applied toward the BS degree.

Option for Certificate in Biotechnology

A student may work toward a Certificate in Biotechnology, which requires the completion of at least seven biology laboratory courses at UHCL. The certificate option targets students who are working toward or have already completed a BS degree and wish to add course work that will be focused on the biotechnology field. Training in these laboratories will prepare students for careers in academic, industrial, biomedical, clinical, state/federal or environmental areas.

Prerequisites

Students who are currently majoring in biology, environmental science or chemistry, or who have already completed a bachelor's degree, must have completed introductory biology (6 hours), general chemistry (8 hours), organic chemistry (8 hours) and calculus as general prerequisites. In addition, students must have completed or be currently enrolled in the following courses: biochemistry, cell biology or cell physiology, genetics, animal/human/plant physiology and microbiology.

Current UHCL students (degree-seeking BS or MS students or post-baccalaureate non-degree seeking students) who wish to participate in the certificate option must be in good academic standing, maintain a minimum 2.500 GPA in the laboratory courses and be advised by a faculty member in the Biology program.

Core Requirements

A minimum of seven laboratory courses must be completed for the Certificate in Biotechnology.

The following three core courses are required:

BIOL 4522	Molecular Biology Laboratory
BIOL 4523	Laboratory for Biotechnology
BIOL 4524	Laboratory for Eukaryotic Gene Expression

At least four of the following courses are required:

BIOL 3221	Laboratory for Fundamentals of Microbiology
BIOL 3713	Human Anatomy Laboratory
BIOL 4225	Environmental Toxicology Laboratory
BIOL 4931	Topic: Histological Techniques
BIOL 4421	Laboratory for Physiology
BIOL 4535	Tissue Culture
BIOL 4819,4829, 4839	Independent Study (up to 6 hours total)

CHEMISTRY

Plans in Chemistry lead to the bachelor of arts (BA) or bachelor of science (BS) degrees. The Chemistry Program has completed evaluation and assessment by the American Chemical Society (ACS), and is on the ACS list of approved chemistry programs nationwide. Therefore students may now obtain ACS-certified BS degrees in chemistry if they complete the appropriate curriculum. Students enrolled in the Chemistry plan may choose from high quality content courses in all of the traditional areas of Organic, Analytical, Physical and Inorganic Chemistry, as well as in the closely related fields of Biochemistry and Environmental Chemistry. Moreover, students are encouraged to further enhance their studies by undertaking research with one of the Chemistry plan's faculty in any of these areas. In regard to such research, it should be noted that during the past nine years the Chemistry plan has received endowments from the Welch Foundation in the form of a Chemistry Departmental Research Grant. Those funds have been expended in support of the research efforts carried out by the plan's faculty during the training of students. This grant has just been renewed through the year 2011. The Chemistry plan also has an endowment from the Zeon Chemicals Company.

All chemistry courses taken at UHCL more than one year prior to being admitted to the Chemistry plan are subject to faculty review before being accepted for degree credit. Further information on the Chemistry plan is available from the Chair of Chemistry.

The BA degree is recommended for students preparing for careers in interdisciplinary areas such as medicine, secondary school teaching, patent law or environmental science. Students seeking a career in secondary school teaching must also file a certification plan with the School of Education. The BS degree is designed to meet the needs of students planning careers as professional chemists and is recommended as preparation for graduate training or for a career in the chemical industry.

Requirements for the BA Degree in Chemistry

Basic Requirements

Students seeking a BA degree in Chemistry must meet the following minimum requirements or equivalents before being admitted.

General (Freshman) Chemistry I & II with laboratory	8 hours
Calculus I (Differential Calculus)	3 hours
College Physics I and II with laboratory	8 hours
Introduction to Computer Programming (e.g., BASIC, FORTRAN, C or PASCAL)	3 hours

242 School of Science and Computer Engineering

In all cases above, evidence of completion of the course with a grade of "C-" or better is required.

Core Requirements

Students seeking a BA degree in Chemistry must successfully complete the following courses or their equivalents:

Organic Chemistry (CHEM 3233, CHEM 3234, CHEM 3224)	8 hours
Analytical Chemistry (CHEM 4635, CHEM 4636, CHEM 4622)	8 hours
Physical Chemistry (CHEM 3230 or CHEM 4231)	3 hours
Inorganic Chemistry (CHEM 4335, CHEM 4325)	5 hours
Instrumental Analysis (CHEM 4637)	3 hours
Chemistry Seminar (CHEM 4732)	3 hours
Quantitative Chemical Analysis (CHEM 4733)	3 hours
Mathematics (MATH 3038 or MATH 3131)	3 hours
Advanced CHEM elective (approved by faculty adviser)	3 hours

A minimum of 15 hours in the CHEM rubric must be successfully completed at UHCL. For successful completion of any core requirement or chemistry elective, a grade of "C-" or better must be attained.

Elective chemistry courses for BA:

Advanced Organic Chemistry (CHEM 4638)
Advanced Spectra Analysis (CHEM 4731)
Food Chemistry & Nutrition (CHEM 4639)
Environmental Sampling & Monitoring (CHEM 4535)
Lab for Environmental Analysis (CHEM 4521)
Biochemistry (CHEM 4431)
Chemical Origins (CHEM 4131)
Handedness in Science, Medicine and Origin of Life (CHEM 4135)
Environmental Chemistry (CHEM 3333)

Requirements for the BS Degree in Chemistry

Basic Requirements

Students seeking the BS degree in Chemistry must meet the following requirements before being admitted.

General (Freshman) Chemistry I and II with lab	8 hours
Calculus I and II	8 hours
*Calculus-based Physics with lab	8 hours
Introduction to Computer Programming (e.g., BASIC, FORTRAN, C or PASCAL)	3 hours

*Course available at UHCL.

In all cases above, evidence of completion of the course with a grade of "C-" or better is required.

Core Requirements

(43 Hours)

Students seeking the BS degree in Chemistry must successfully complete the following courses or their equivalents:

Organic Chemistry (CHEM 3233, CHEM 3234, CHEM 3224)	8 hours
Analytical Chemistry (CHEM 4635, CHEM 4636, CHEM 4622)	8 hours
Physical Chemistry (CHEM 4231, CHEM 4232, CHEM 4222)	8 hours
Inorganic Chemistry (CHEM 4335, CHEM 4325)	5 hours

Chemistry Seminar (CHEM 4732)	3 hours
Math for Physical Chemistry and Biochemistry (CHEM 4130)	3 hours
Biochemistry (CHEM 4431)	3 hours
Instrumental Analysis (CHEM 4637)	3 hours
Advanced Organic Chemistry (CHEM 4638)	3 hours
Advanced Spectroscopic Analysis (CHEM 4731)	3 hours
Undergraduate Research (CHEM 4729)	2 hours

A minimum of 18 hours in the CHEM rubric must be successfully completed at UHCL. For successful completion of any core requirement or chemistry elective, a grade of "C-" or better must be attained.

Elective courses for BS:

Quantitative Chemical Analysis (CHEM4733)
Food Chemistry & Nutrition (CHEM 4639)
Environmental Sampling & Monitoring (CHEM 4535)
Lab for Environmental Analysis (CHEM 4521)
Biochemistry (CHEM 4431)
Handedness in Science, Medicine and Origin of Life (CHEM 4135)
Environmental Chemistry (CHEM 3333)

One Specialization Area is available to students pursuing the BS degree in Chemistry. In all cases prerequisites for each course must be satisfied prior to enrollment in the course. Students in the Specialization Area must complete the required courses with grades of "C" or better (grades of "C-" or below are not acceptable).

Required courses for Forensic Chemistry Specialization Area

Forensic Chemistry (CHEM 4633)	3 hours
Forensic Biology (BIOL 4335)	3 hours
Criminology (CRIM 3132)	3 hours

Elective courses:

Criminal Investigation (CRIM 4330)	3 hours
Criminal Law (CRIM 4334)	3 hours
Environmental Sampling and Monitoring (CHEM 4535)	3 hours
Environmental Toxicology (BIOL 4235)	3 hours
Quantitative Chemical Analysis (CHEM 4733)	3 hours

ENVIRONMENTAL SCIENCE

The plan in Environmental Science leads to the bachelor of science (BS) degree. This plan seeks through an interdisciplinary approach to prepare students for opportunities in the private sector and in governmental agencies where environmental issues are being addressed. Graduates of the plan will also be prepared to pursue further academic training in Environmental Science. Students may also prepare for the professional certification examinations in Industrial Hygiene and Safety.

Students must specialize in one of the following areas: Environmental Biology, Environmental Chemistry, Environmental Geology, Industrial Hygiene or Safety.

Requirements for the BS Degree in Environmental Science

Basic Requirements

Applicants for the BS in Environmental Science must have completed the following courses (grade of C- or better) in preparation for upper-level study:

Chemistry I, II	8 hours
Calculus I	3 hours
College Physics I, II	8 hours
Technical Writing	3 hours

In addition to the above requirements, at least 12 hours in science (biology, chemistry, physics and/or geology) must be completed before admission to the Environmental Science plan. Other courses specific to the specialization area (e.g., Biology I, II for those specializing in Environmental Biology or Environmental Chemistry; and Anatomy and Physiology for those specializing in Industrial Hygiene or Safety) should also be completed.

Core Requirements

(Must be completed with a grade of "C-" or better)

Organic Chemistry I	3 hours
Environmental Chemistry	3 hours
Environmental Biology	3 hours
Environmental Geology	3 hours
Environmental Health and Safety	3 hours
Statistics (MATH 3038 or Equivalent)	3 hours
Internship, Co-Op, Independent Study, Seminar or Adv. Studies	3 hours

Required Courses or their equivalents for sub-plans in Environmental Science

(Must be completed with a grade of "C-" or better)

Environmental Biology

BIOL 3334	Environmental and Public Health Microbiology	3 hours
BIOL 4131	Ecology	3 hours
BIOL 4235	Environmental Toxicology	3 hours
BIOL 4434	Comparative Animal Physiology	3 hours
CHEM 4521	Lab for Environmental Analysis	2 hours
CHEM 4535	Environmental Sampling & Monitoring	3 hours

Environmental Chemistry

CHEM 3230	Survey of Physical Chemistry	3 hours
CHEM 3234	Organic Chemistry II	3 hours
CHEM 4521	Lab for Environmental Analysis	2 hours
CHEM 4532	Water Chemistry and Water Pollution	3 hours
CHEM 4535	Environmental Sampling & Monitoring	3 hours
CHEM 4635	Analytical Chemistry I	3 hours
CHEM 4636	Analytical Chemistry II	3 hours
CHEM 4536	Soil and Groundwater Remediation	3 hours

Environmental Geology

GEOL 3631	Photogeology	3 hours
GEOL 4222	Laboratory for Geomorphology	2 hours
GEOL 4234	Geomorphology	3 hours

GEOL 4235	Sedimentation and Stratigraphy	3 hours
GEOL 4531	Hydrogeology	3 hours
CHEM 4521	Lab for Environmental Analysis	2 hours
CHEM 4535	Environmental Sampling & Monitoring	3 hours

Industrial Hygiene

INDH 3131	Industrial Health and Hygiene	3 hours
INDH 3332	Principles of Professional Safety	3 hours
INDH 4131	Noise and Hearing Conservation	3 hours
INDH 4133	Industrial Ventilation	3 hours
INDH 4135	Industrial Radiological Health	3 hours
INDH 4231	Ergonomics, Human Factors and Workspace Design	3 hours
INDH 4232	I H Sampling and Analysis	3 hours
BIOL 4235	Environmental Toxicology	3 hours

Safety

INDH 3131	Industrial Health and Hygiene	3 hours
INDH 3332	Principles of Professional Safety	3 hours
INDH 3430	Techniques of Safety Eng & Analysis	3 hours
INDH 4231	Ergonomics, Human Factors and Workplace Design	3 hours
INDH 4232	I H Sampling and Analysis	3 hours
INDH 4136	System Safety and Accident Investigation	3 hours
*INDH 4233	Hazardous Material & Emergency Management	3 hours
*INDH 4234	Fire Safety Engineering	3 hours
INDH 4333	Construction & General Industry Safety	3 hours

Additional required electives must be selected in consultation with a faculty advisor and shall be completed with grades "C-" or better. In all cases, prerequisites for each course must be satisfied. A maximum of six hours of environmental management courses may be included.

PHYSICAL SCIENCES

Requirements for the BS Degree in Physical Sciences

The B.S. in Physical Sciences is designed for students interested in teaching physical sciences. Students will complete 18 credits of chemistry, 15 credit hours of physics, 3 hours of geology and 3 hours of astronomy. They must complete 3 hours of seminar, either physics (PHYS 4732) or chemistry (CHEM 4732). Students who plan to pursue a teaching career must have dual advisement in both the subject field (Physical Sciences) and education. Please refer to the School of Education section of the catalog for the appropriate grades 8-12 degree and certification

Basic Requirements (20 Hours)

	Calculus I and II	8 hours
	General Chemistry I and II	8 hours
CHEM 3233 & CHEM 3224	Organic Chemistry I with Lab	4 hours

Physical Science Core (33 Hours)

ASTR 3131	Modern Astronomy	3 hours
CHEM 3230	Survey of Physical Chemistry	3 hours
CHEM 3234	Organic Chemistry II	3 hours
GEOL 3035	Fundamental of Earth Science	3 hours

MATH 3038	Computational Statistics	3 hours
PHYS 3031 & PHYS 3011	University Physics I with Lab	4 hours
PHYS 3032/ & PHYS 3012	University Physics II with Laboratory	4 hours
PHYS 3033 & PHYS 3013	Modern Physics with Lab	4 hours
PHYS 4632	Astroparticle Physics	3 hours
PHYS 4732	Modern Physics Research Seminar	3 hours
Or		
CHEM 4732	Chemistry Seminar	

PHYSICS

The plan in Physics leads to the bachelor of science (BS) degree at the undergraduate level. Our location and the connections our faculty have with NASA and allied aerospace industry allow UHCL to offer students unique research opportunities. The Houston-Galveston area is a thriving center for many science-intensive industries, from aerospace to petrochemical; thus, the demand for professionals with knowledge of physics is high. Local industries in Houston provide a huge potential to employ physics bachelors in addition to the increasing demand for physics teachers in high schools. This demand is also expected to grow dramatically over the next decade. An undergraduate degree in Physics would enable the students to progress into graduate programs in Physics, Astronomy or Engineering. Students may select electives in areas of particular interest.

Requirements for the BS Degree in Physics

Basic Requirements

Students seeking a BS degree in the Physics should complete the following requirements before seeking admission to the plan:

Calculus I & II	8 hours
Programming Language Course (e.g., C, C++, Fortran, Java)	3 hours
General Chemistry I and II with laboratories	8 hours
Technical Writing	3 hours

Core Requirements

(36 hours)

PHYS 3031 & 3011	University Physics I with Lab
PHYS 3032 & 3012	University Physics II with Lab
PHYS 3033 & 3013	Modern Physics with Lab
PHYS 4131	Mathematical Methods for Physicists I
PHYS 4132	Mathematical Methods for Physicists II
PHYS 4231	Intermediate Mechanics
PHYS 4331	Principles of Electromagnetism
PHYS 4432	Principles of Quantum Mechanics
PHYS 4531	Thermodynamics & Fluid Mechanics
PHYS 4839	Independent Study in Physics
PHYS 4732	Modern Physics Research Seminar

In addition to the core requirements, the student, in consultation with a faculty advisor, selects 12 hours of approved SCE science electives.



*Students enjoy a meal together at University Forest Apartments,
located just off campus.*



ROSTER OF COURSES

Accounting - ACCT	Industrial Hygiene and Safety - INDH
Anthropology ANTH	Information Systems Administration and Management - ISAM
Arts - ARTS	Information Technology - ITEC
Astronomy and Space Science - ASTR	Instructional Technology - INST
Biology - BIOL	Legal Studies - LEGL
Business and Public Administration - BAPA	Literacy, Language, and Library Science - LLS
Chemistry - CHEM	Literature - LITR
Communication - COMM	Management - MGMT
Computer Engineering - CENG	Marketing - MKTG
Computer Information Systems - CINF	Mathematics - MATH
Computer Science - CSCI	Military Science - MSCI
Criminology - CRIM	Philosophy - PHIL
Decision Sciences - DSCI	Physics - PHYS
Early Childhood Education - ECED	Political Science - POLS
Economics - ECON	Psychology - PSYC
Education - EDUC	Social Work - SWRK
Environmental Management - ENVR	Sociology - SOCI
Environmental Science - ENSC	Software Engineering - SWEN
Finance - FINC	Spanish - SPAN
Fire Services Administration - FRAD	Special Education - SPED
Geography - GEOG	Studies in Language and Culture - SILC
Geology - GEOL	Systems Engineering - SENG
Health - HLTH	Teacher Education - TCED
Healthcare Administration - HADM	Women's Studies - WMST
History - HIST	Writing - WRIT
Humanities - HUMN	

ACCOUNTING COURSES

ACCT 3331: Managerial Accounting

Analysis of cost systems and preparation of cost statements. Management use of cost statements for control and financial reporting. Cannot be taken for credit by accounting majors.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

ACCT 3333: Cost Accounting

Intensive examination of cost systems, cost behavior, approaches to cost statements, implications for managerial planning and financial reporting.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

ACCT 3431: Intermediate Accounting I

Study of the concepts and procedures underlying the measurement and reporting of financial information.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

ACCT 3432: Intermediate Accounting II

Continuation of the study of concepts and procedures underlying the measurement and reporting of financial information.

Prerequisite: ACCT 3431 or equivalent.

ACCT 3433: Intermediate Accounting III

Complex financial accounting topics including statements of cash flow, earnings per share, financial statements analysis, interim and segment reporting, partnerships, states and trust and international issues.

Prerequisite: ACCT 3432 or equivalent.

ACCT 4331: Federal Taxation of Individuals

An analysis of the federal income tax laws as they apply to individuals.

Prerequisite: Six semester hours of Principles of Accounting or equivalent.

ACCT 4332: Financial Information Systems

Design and operation of contemporary accounting information systems, including control concepts and reporting responsibilities.

Prerequisites: ACCT 3431 and ISAM 3033 or equivalent.

ACCT 4431: Auditing I

An introduction to auditing theory and standards, with emphasis on the attest function, professional ethics and responsibilities, audit risk concepts and audit planning.

Prerequisite: ACCT 3432 or equivalent, Prerequisite or corequisite: ACCT 4332 or equivalent.

ACCT 4432: Government and Not-for-Profit Accounting

The course covers the government and not-for-profit environment, fund accounting, budgeting, revenue and expenditure recognition, and financial reporting requirements.

Prerequisite: ACCT 3432 or equivalent.

ACCT 4433: Understanding Financial Statements

Selected advanced topics in financial accounting and introduction to financial statement analysis. Decision-making and analytical skills needed to interpret financial information will be emphasized.

Corequisite/Prerequisite: ACCT 4532 or equivalent.

Prerequisite: ACCT 3432 or equivalent.

ACCT 4434: Oil and Gas Accounting

Exploration and production activities of a petroleum company are examined from both a financial and tax accounting standpoint.

Prerequisite: ACCT 3431 or equivalent.

ACCT 4435: Software Applications in Auditing

This course is designed to provide the student with a solid foundation in using various software tools to improve and enhance the audit of financial statements. Students will learn about and have practical experience with manipulating raw data to unlock the useful audit information contained in the raw data. The course will use the tools to perform data extraction, analysis, and sampling. The course will also briefly cover using the tools for fraud detection and prevention.

Prerequisite: ISAM 3033 and ACCT 3431 or equivalents, Corequisite/Prerequisite: ACCT 4332 or equivalent.

ACCT 4436: Business Ethics for Accountants

The objective of this course is to provide the student with an educational background in what constitutes ethical conduct in business and accounting. It will provide a framework for making ethical decisions in a student's professional career in accounting. Requires reading and comprehending complex case problems and the use of critical thinking skills to determine a solution. Solutions must be presented in writing in a coherent and grammatically correct manner. Expertise in accounting is required as the cases involve some forensic work to determine what happened and what should have happened.

Prerequisites: ACCT 3431 and ACCT 3432, or ACCT 5133 and ACCT 5134, or equivalents.

ACCT 4532: Advanced Financial Accounting

Accounting for the acquisition and consolidation of domestic and foreign concerns, foreign currency translations and remeasurement; accounting for branches, governmental agencies and other not-for-profit entities.

Prerequisite: ACCT 3432 or equivalent.

ACCT 4533: Federal Taxation of Corporations

Examination of federal income tax laws as they apply to corporations and shareholders. Includes an examination of Subchapter S corporation.

Prerequisite: ACCT 4331 or equivalent.

ACCT 4631: International Accounting

Examination of international accounting problems from the perspective of managerial accounting and financial reporting.

Prerequisite: ACCT 3431 or equivalent.

ACCT 4739: Internship in Accounting

Supervised work experience each week in an approved accounting firm, governmental agency, or business. Written work as required by sponsoring faculty member.
Prerequisite: 15 hours of upper-level credit, approval of associate dean and faculty chair, and sponsoring faculty member.

ACCT 4839: Independent Studies in Accounting

Independent directed study in Accounting.
Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

ACCT 4931: Selected Topics in Accounting

Identified by specific title each time course is offered.

ANTHROPOLOGY COURSES

ANTH 3131: Contemporary Cultural Anthropology

The comparative study of culture as manifested in technology, language, personality and religion and in the social, economic and political organization of societies.

ANTH 3532: Political and Economic Anthropology

Examines the methods and theories used by anthropologists to understand political and economic systems in traditional and developing societies.

ANTH 3535: Topics in Asian Studies

Investigation of social and cultural diversity of Asian societies. Focuses on religion, economy, politics and social structure. Topics vary; may be repeated for credit with permission of instructor.

ANTH 3537: Peoples of Africa

Investigation of ethnicity, social organization, politics and religion of Africa.

ANTH 3538: Topics in Middle Eastern Societies

Investigation of the social and cultural diversity of Middle Eastern societies. Focuses on religion, economy, politics and social structure. Topics vary; may be repeated for credit with permission of instructor.

ANTH 3631: Food and Culture

Explores relationship between food and culture from an anthropological perspective.

ANTH 4031: Studies in Cultural Diversity

Critical examination of cultural diversity as expressed in formations of ethnicity, race, class, nationalism and gender. Topic may vary; may be repeated for credit with permission of instructor.

ANTH 4333: Peoples of Mexico and Central America

Surveys anthropological approaches to regions of Mexico, Central America and US-Mexico border. Particular attention paid to gender and women's issues, as well as race and class.

ANTH 4334: Native Americans

Examines social and cultural diversity of indigenous peoples of North America from an anthropological and historical perspective.

ANTH 4430: Cultural Study Abroad

Course exposes students to culture, history, religion and politics of another country. Involves foreign travel, and includes prerequisite of semester long course focusing on study abroad country.
Prerequisite: Permission of instructor.

ANTH 4431: Women in Society

A cross-cultural study of the environment, biological and cultural factors in the division of labor; and assignment of roles, male and female. "Women's Studies Course". (Crosslisted with SOCI 4431).

ANTH 4432: Human Rights and Social Justice

Exploration of conceptions of human rights and of recent attempts to reconcile such conceptions in the context of globalization and from the perspective of social justice.

ANTH 4531: Families, Communities, and Globalization

Examines ideas of family, race, gender, and relatedness in transnational and cross-cultural perspective. Draws on case studies and theories from anthropology and other fields.

ANTH 4532: World Prehistory and Archaeology

Examines the basic methods and theories used by archaeologists to explore human evolution and prehistory.

ANTH 4533: Archaeological Investigation

Methods for archaeological research design, survey, excavation and analysis. May be repeated for credit.

ANTH 4534: Archaeology of Ancient Civilizations

Exploration of the origins, organization and decline of ancient complex societies in the Old and New Worlds, from an anthropological perspective.

ANTH 4633: Historical Archaeology

Use of survey, excavation and analysis of material remains to amplify written records of Colonial and Early American societies.

ANTH 4634: Visual Anthropology

Study of anthropology through the visual media, specifically film and still photography.

ANTH 4839: Independent Study in Anthropology

Independent Study in Anthropology. Permission of instructor required.

ANTH 4931: Selected Topics in Anthropology

Identified by specific title each time course is offered.

ARTS COURSES

ARTS 3030: Drawing for Non-Art Majors

Exploration of drawing media, composition and space relationships using recognizable forms.

ARTS 3031: Photography for Non-Art Majors

Exploration of basic methods and processes of the photographic medium; designed for non-art majors. Topics include use of camera and techniques for taking better photographs.

ARTS 3136: Sculpture

A study of three dimensional forms as related to techniques, processes, aesthetics and other materials.

ARTS 3137: Advertising Design

Prerequisites: ARTS 4433 and ARTS 4439 or permission of instructor.

Survey of image techniques used in the field of advertising. Design projects requiring various computer techniques. Previously established design skills are required. Access to a Digital SLR camera is desirable.

ARTS 3231: Ceramics

Study of ceramic design as related to tools, materials and processes; hand building and potter's wheel.

ARTS 3330: Color

Understanding of color properties and relationships through studio practices. Topics include color systems, fundamental vocabulary for analyzing and identifying color, color phenomena, color theorists and use of color by various artists and designers.

ARTS 3331: Intermediate Drawing

Principles of space relationship and composition using recognizable forms through color pastel drawings.

ARTS 3335: Intermediate Painting

Prerequisite: ARTS 3331 Intermediate Drawing.

Principles of space relationship and composition using recognizable forms through oil, acrylic or watercolor painting.

ARTS 3431: Intermediate Printmaking

Exploration of printmaking techniques in intaglio, chine-colle etching, woodcuts/linocuts and monotypes.

ARTS 3631: Fibers

History, design and techniques of woven and non-woven fiber forms. May be repeated for credit.

ARTS 3831: Western Art: Prehistory Through the Middle Ages

Language, form and meaning of visual culture in ancient Mesopotamia and Egypt, Graeco-Roman antiquity and medieval Europe within constructions of society, culture, religion, politics.

ARTS 3832: Western Art: Renaissance to Contemporary

Patterns of innovation, change and continuity in Western art theory and practice from Renaissance and Baroque to rise of Trans-Atlantic modernism and contemporary global pluralism.

ARTS 4030: Methods in Elementary Art Education

Examines trends in theory and practice for EC-6 Curriculum, instructional techniques and classroom management are addressed. Practicum experiences required.

ARTS 4031: Methods in Secondary Art Education

Explores research, theory and practice for grades 6-12. Curriculum development, instructional techniques and classroom management methods are applied. Field experience required.

ARTS 4038: Crafts Design and History

Study of crafts history, design and techniques; projects in paper, fibers, clay and other media. May be repeated for credit.

ARTS 4039: Fibers Studio

Supervised projects in woven and non-woven techniques with emphasis on color and design. May be repeated for credit.

ARTS 4131: Photography

Designed for studio majors and serious professionals. Exploration of basic methods and processes of the photographic medium. Examines foundations of photography for communication and documentation.

ARTS 4132: Advanced Photography

Further exploration of photography as artistic medium. Emphasis will be on concept, furthering craft and introduction of color photography. May be repeated for credit.

Prerequisite: ARTS 4131 or equivalent.

ARTS 4133: Digital Photography II

Prerequisite: ARTS 4439 or permission of instructor.

Exploration of photography and photographic processes in the digital realm. Emphasis on larger scale art and conceptual projects. Students should have access to a digital SLR camera. Topics may vary. Course may be repeated for credit.

ARTS 4136: Process Sculpture

Study of three-dimensional forms through wood and metal fabrication, and bronze casting. May be repeated for credit with permission of instructor.

Prerequisite: ARTS 3136 or permission of instructor.

ARTS 4233: Advanced Ceramics

Ceramics workshop with emphasis on individual projects. May be repeated for credit.

Prerequisite: ARTS 3231 or permission of instructor.

ARTS 4234: Raku

An ancient Japanese firing technique radically different from the traditional approach. Materials, tools and techniques unique to this process will be discussed and practiced. This course may be repeated for credit.

ARTS 4331: Advanced Drawing

Principles of space relationship and composition through color pastel drawings, collage drawings and mixed media works on paper. May be repeated for credit with permission of the instructor.

Prerequisite: ARTS 3331 or equivalent.

ARTS 4332: Life Drawing

Prerequisite: ARTS 3331 Introduction to techniques of proportion and accuracy in drawing the human form.

Students work from live model in pencil, pastel and charcoal in both detailed and gesture drawings Topics vary; may be repeated for credit.

ARTS 4335: Advanced Painting

Prerequisites: ARTS 3331 and ARTS 3335 or equivalent.

Principles of space relationship and composition through oil, acrylic, watercolor, collage and mixed media painting. May be repeated for credit.

ARTS 4431: Advanced Printmaking

Exploration of printmaking techniques of intaglio, chine-colle, etching, woodcuts/linocuts and monotypes. May be repeated for credit.

Prerequisite: ARTS 3431 or equivalent.

ARTS 4433: Graphic Design

Overview of practices of graphic design. Presentations on contemporary design techniques. Design projects in vector drawing using Adobe Illustrator. Previous art design and computer skills desirable.

ARTS 4434: Web Design

Creating and publishing Web pages using HTML. Study of formal design elements, theories, audience analysis and usability as students apply the Web to serve as a communication tool.

Prerequisite: ARTS 4439 or permission of instructor.

ARTS 4435: Advanced Web Design

Prerequisite: ARTS 4434 or permission of instructor.

Study of advanced techniques in Web page construction, including Web animation, dynamic HTML and site management. Also covers audience and usability testing.

ARTS 4437: Illustration

Prerequisites: ARTS 4433 and ARTS 4439, or permission of instructor.

Survey of professional illustration techniques. Computer projects utilizing various techniques including, but not limited to, rotoscoping, typography and photo-illustration. Access to a Digital SLR desirable.

ARTS 4438: Computer Graphics

Introduction to fundamentals of computer-based graphic design. No programming or prior computer experience required.

ARTS 4439: Digital Photography I

Introduction to computer-based photography. Projects include digital camera techniques and computer collages using Adobe Photoshop. Previous computer skills desirable. Access to digital SLR camera strongly recommended.

ARTS 4530: 3D Computer Modeling

3D modeling techniques for animation, images and 3D computer sculptures. How to build 3D models. Modeling techniques used in 3D software applications. Texture mapping and lighting in a 3D environment. Prerequisites: ARTS 4433 or permission of instructor.

ARTS 4532: Digital Video

Explores basic methods and processes of video production using non-linear editing equipment. Emphasizes concept development, experimentation, and artistic expression. Helpful for students to have a working knowledge of video cameras and basic editing skills.

ARTS 4533: 3D Animation

Fundamental principles of animation. Introduces students to 3D computer animation techniques including key framing, path animation, non-linear animation and hierarchical animation. Covers story boarding and animation project planning.

Prerequisite: ARTS 4530.

ARTS 4537: History and Theory of Photography

Study of history and function of photography from its development in the fine arts to present-day signification of mechanical and digital reproduction.

ARTS 4538: History of Graphic Design

History of graphic design from inception of written communication to postmodern design and digital revolution.

ARTS 4539: Gender and Identity in the Visuals Arts

History, theory and criticism in relation to issues of gender, sexuality and identity in the visual arts. Traces artistic contribution of women. Explores the "waves" of feminist movement and/or identity/gender constitution. "Women's Studies Course." Topics vary; may be repeated for credit with permission of instructor.

ARTS 4631: Renaissance Art

Italian and Northern Renaissance art through lens of Renaissance humanism, patronage and society. Major artists such as Donatello, Masaccio, Botticelli, Leonardo, Raphael, Michelangelo, Titian, Jan van Eyck, Durer.

ARTS 4634: Studies in Western European Art

Major post-Renaissance movements from 1600 to 1850: Art of the Baroque and Rococo periods, Neoclassicism, Romanticism. Topics vary; may be repeated for credit with permission of instructor.

ARTS 4635: Impressionism

Spectacle of modern life and artistic avant-gardism in Second Empire Paris, its suburbs and resort areas by artists such as Manet, Monet, Renior, Degas, Casatt; the American idiom by Chase, Hassam and others.

ARTS 4637: Modern Art

Modernity, modernism, fantasy, enigma in early 20th-century European and American art and architecture by such masters as Picasso, Matisse, Kandinsky, Mondrian, Duchamp, Dali, Magritte, Kahlo, Brancusi, Frank Lloyd Wright, Le Corbusier, O'Keeffe.

ARTS 4638: Contemporary Art

Art theory and criticism – postmodernist discourses. Understanding and interpreting are since 1950. Follows the movements and relevant key figures in Abstract Expressionism, Pop Art, Situationists, Dada, Fluxus, Minimalism, Conceptualism, Performance Art, etc.

ARTS 4639: Studies in Non-Western Art

Studies in the art, aesthetics and cultural politics of India, China, Japan, Africa and the Americas. Topics vary; may be repeated for credit with permission of instructor.

ARTS 4631: Renaissance Art

Italian and Northern Renaissance art through lens of Renaissance humanism, patronage and society. Major artists such as Donatello, Masaccio, Botticelli, Leonardo, Raphael, Michelangelo, Titian, Jan van Eyck, Durer.

ARTS 4730: Topics in Contemporary Art

Concentrated study in single topic pertaining to contemporary art (post-WW2 period). Topics vary – including media (for example, sculpture), themes (such as multicultural issues) and movements (such as Performance Art). May be repeated for credit with permission of instructor.

ARTS 4735: Senior Seminar in Art

Required capstone course for Arts majors. Prepares students for graduate and professional engagement from several perspectives: portfolio and slide presentations; successful resume and grant writing; interviewing prospective exhibition venues; learning logistics of exhibiting artworks, including transportation, installation and publicity.

ARTS 4739: Arts Internship

Supervised on-site internship in art or design capacity
Prerequisite: Permission of instructor.

ARTS 4819, 4839: Independent Study in Art

Independent study in art. Approval of instructor required. May be taken for 1 or 3 hours of credit.

ARTS 4931: Selected Topics in Art

Identified by specific title each time course is offered.

ASTRONOMY AND SPACE SCIENCE COURSES

(See Also Physics)

ASTR 3031: Life in the Universe for Non-Science Majors

Non-Scientists' version of the highly popular Astrobiology and Origins courses taken by scientists. Non-technical account of origin of the universe, origin and evolution of life and possibilities for finding life on other planets, including the Search for Extra-Terrestrial Intelligence. Ideal fun elective for all non-scientists, but cannot be counted as physical science elective for purposes of teacher certification.

ASTR 3131: Modern Astronomy

Introduction to the history and development of astronomy; telescope optics; laws of planetary motion; planetary structures, atmospheres and surfaces; the sun; elements of astrophysics; stellar structure and evolution; galactic structure and evolution; cosmology. Some telescope observation sessions as "seeing" permits. Not available for graduate credit in Physics.

ASTR 4131: Universal Origins

Origin of the universe, the Earth and life.
Pre-requisites: General Chemistry, and University or College Physics.

ASTR 4132: Principles of Astrobiophysics

Overview of the search for life in the universe, including origin and evolution of habitable planets in the solar system and beyond.
Pre-requisites: General Chemistry, and University or College Physics.

ASTR 4931: Selected Topics in Space Science

Identified by specific title each time course is offered.

BIOLOGY COURSES

*Pending Coordinating Board approval

BIOL 3011: Laboratory for Comparative Animal Morphology

Corequisite: BIOL 3031. Laboratory course comparing the anatomical structure of animals from various phyla. Involves dissection of laboratory specimen.

BIOL 3031: Comparative Animal Morphology

Investigations of structural similarities and differences of major invertebrate and vertebrate phyla. Lecture and laboratory instruction. Corequisite: BIOL 3011.

BIOL 3033: The Environment

An introduction to ecosystems, populations and human impacts on the environment. Not for biology or environmental science majors.

BIOL 3036: Development of the Sciences

Concepts, techniques, practices and philosophy of science, Illustrated with historical and contemporary examples. Biology majors may use only as an unrestricted elective.

BIOL 3037: Cell Biology

An introduction to fundamental principles of cell structure and function.

Prerequisites: General biology, general chemistry.

BIOL 3113: Laboratory for Plant Anatomy

Corequisite: BIOL 3133. Two laboratory hours each week.

BIOL 3131: Marine Biology

Study of marine organisms and their environment. One or more weekend or weekday field trips and limited laboratory exercises are required.

Prerequisite: General biology.

BIOL 3133: Plant Anatomy

Corequisite: BIOL 3113. Structures, tissues and cells of vegetative and reproductive organs of land plants related to concepts of growth, differentiation and organization function and evolutionary history.

Prerequisite: General biology.

BIOL 3134: Plant Physiology

Physiological processes of plants.

Prerequisites: General biology, general chemistry.

BIOL 3221: Laboratory for Fundamentals of Microbiology

Corequisite: BIOL 3231. Six laboratory hours per week.

BIOL 3231: Fundamentals of Microbiology

Corequisite: BIOL 3221. A comprehensive study of microbial organisms including their isolation, culture, identification and importance to man.

BIOL 3333: Environmental Biology

The impacts of pollution, anthropogenic activities and other stresses on ecosystem structure and function.

Course designed for science majors.

BIOL 3334: Environmental and Public Health Microbiology

Identification and control of microorganisms important in protecting public health.

Prerequisite: General biology.

BIOL 3335: Epidemiology

A study of the causes and clinical methods of controlling disease in large populations.

BIOL 3336: Neuropsychology Practicum

Laboratory investigation of brain/ behavior relationships in the rat. Readings from primary research literature, lab experiments and research reports.

Prerequisite: Permission of instructor.

BIOL 3411: Genetics Laboratory

Corequisite: BIOL 3431. Laboratory investigations demonstrating principles of transmission, molecular and population genetics.

BIOL 3431: Genetics

Prerequisites: General biology, general chemistry. The principles of genetics, include transmission genetics, molecular genetics and evolution of populations.

BIOL 3713: Human Anatomy Laboratory

Corequisite: BIOL 3733. The structure of the human body will be studied using anatomical models, preserved tissue specimens and computer programs.

BIOL 3733: Human Anatomy

Corequisite: BIOL 3713. Fundamentals of human anatomy emphasizing an organ systems approach to the study of the human body. Lecture and demonstration.

BIOL 4011: Laboratory Methods in Life Sciences

Corequisite: BIOL 4031. Three laboratory hours per week.

BIOL 4031: Methods in Life Science

Recent developments in plant and animal physiology, ecology and environmental science; emphasis on teaching biology from a contemporary standpoint.

Prerequisite: General biology; corequisite: BIOL 4011.

BIOL 4032: Survey of Disease

Prerequisites: General biology and general chemistry. Detailed study of diseases affecting humans.

BIOL 4035: Ecology of the Amazon

Study of the physical, chemical and ecological aspects of the Amazon flooded forest. Students completing course qualify for discounted optional ecology study trip to the Amazon flooded forest areas of Brazil.

BIOL 4113: Laboratory for Biology of Fishes

Corequisite: BIOL 4133. Laboratory course on identification, anatomy, morphology and ecology of fish. Weekend or weekday field trips and collections required.

BIOL 4121: Laboratory for Ecology

Prerequisite or corequisite: BIOL 4131. Four laboratory hours per week. Conduct experiments on population growth, competition and predation to test theoretical models; construct life tables.

BIOL 4131: Ecology

Theoretical study of organisms, populations and communities related to their environments.

BIOL 4133: Biology of Fishes

Systematic study of freshwater and marine fishes, including evolution, ecology, life history and economics of important species.

Prerequisite: General Biology, Co-requisite: BIOL 4113.

BIOL 4135: Biology Practicum

Practical experience at an off-campus facility, such as aquarium, rainforest park, wetlands center or Galveston Bay Agency. Requires pre-acceptance interview, minimum of 10 hours of work per week and approval of instructor.

BIOL 4225: Environmental Toxicology Laboratory

Theory and practice in aquatic toxicity testing using EPA standard methods.

Prerequisite: BIOL 4235 or equivalent.

BIOL 4233: Field Biology

Field methods for the study of ecological systems. Fieldwork and laboratory are required.

BIOL 4235: Environmental Toxicology

Prerequisites: Twelve hours in biology and chemistry. Physiological and systemic interactions of environmental pollutants with plants and animals.

BIOL 4237: Plant Identification

Taxonomic study of herbaceous and woody plants of SE Texas.

BIOL 4332: Histology

A microscopic study of animal tissues including the theories of fixation and staining of clinical samples.

Prerequisite: BIOL 3037 or BIOL 4437.

***BIOL 4335: Forensic Biology**

Theory and techniques used in biological investigations of crimes, including toxicological, genetic and DNA analysis.

Prerequisite: BIOL 3431 and BIOL 4431.

BIOL 4421: Laboratory for Physiology

Laboratory exercises demonstrating physiological processes.

Prerequisite: BIOL 4434 or 4435.

BIOL 4422: Laboratory for Biochemistry

Prerequisite or corequisite: BIOL 4431. One hour of lecture and three hours of laboratory per week.

BIOL 4431: Biochemistry I

Study of cellular biochemical components and metabolism.

Prerequisite: Organic chemistry.

BIOL 4432: Biochemistry II

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisite: BIOL 4431 or equivalent.

BIOL 4434: Comparative Animal Physiology

Prerequisites: General biology, general chemistry. Study of organ functions in major invertebrate and vertebrate phyla.

BIOL 4435: Human Physiology

Prerequisites: General biology, general chemistry. This course will introduce basic and advanced principles of human physiology. The study of physiology will be presented using an integrated systems approach. Lectures on topics ranging from physiology of the nervous system to human reproduction will be presented.

BIOL 4436: Pathophysiology

This course will study the abnormal physiology characteristic of diseases in humans. A physiological systems approach will be taken.

Prerequisite: BIOL 4435 or equivalent.

BIOL 4437: Cellular Physiology

Cell structure and function; emphasis on cytological, biochemical, genetical and developmental perspectives.

Prerequisite: Biochemistry.

BIOL 4438: Developmental Biology

Prerequisites: BIOL 3431 and BIOL 4437 or BIOL 3037. Embryology, tissue differentiation, cell determination and pattern formation at both descriptive and molecular level. Emphasis on animal systems with additional examples from plants and protists.

BIOL 4522: Molecular Biology Laboratory

Prerequisite or corequisite: BIOL 4531. Laboratory methods and techniques in molecular biology. Four laboratory hours per week.

BIOL 4523: Laboratory for Biotechnology

Prerequisites: BIOL 4422, BIOL 4432. Current methods used in biotechnological industry and research as applied to medical, biological, agricultural and environmental aspects. Students will learn modern techniques used in genetic engineering, DNA sequencing, gene cloning, etc.

BIOL 4524: Laboratory for Eukaryotic Gene Expression

Laboratory course designed to provide practical training in current gene expression studies including the isolation, quantification and handling of RNA, cDNA synthesis, RT-PCR and quantitative PCR. Microarrays and RNAi techniques will be discussed.

Prerequisite: BIOL 4531.

BIOL 4531: Molecular Biology

General principles of molecular biology with an emphasis on gene functions in eukaryotic systems, disease at the genetic level and evolution of the gene.

Prerequisite: Genetics or Biochemistry or equivalent.

BIOL 4534: Introduction to Bioinformatics

Introduction to bioinformatics, experimental sources of biological data, databases and servers operating systems (including Windows and Unix) and internet tools.

BIOL 4535: Tissue Culture

Students will learn how to manipulate cells in culture and develop laboratory skills in DNA transfection, gene expression, Luciferase assays and western blots.

Prerequisite: BIOL 4422 or equivalent.

BIOL 4631: Immunology

Prerequisites: BIOL 3431, BIOL 4431. Basic theory of humoral and cellular immune mechanisms.

BIOL 4728: Seminar in Biology

Study of objectives, methods and culture of biological science. Literature surveys, presentations and research papers are required.

BIOL 4731: Cancer Biology

Cancer, genetics and heredity: prevention, detection and treatment of cancer.

Prerequisite: BIOL 3431 or BIOL 4531 or equivalent.

BIOL 4732: Biology of Aids

The biological aspects of AIDS, including cellular and molecular descriptions of immune systems and the AIDS virus, HIV.

BIOL 4819, 4829, 4839: Independent Study in Biology

Prerequisite: Approval of instructor, chair and associate dean.

BIOL 4931: Selected Topics in the Biological Sciences

Identified by specific title each time course is offered.

BUSINESS AND PUBLIC ADMINISTRATION COURSES

BAPA 3231: Logical Analysis

Development of critical thinking skills based on an investigation of traditional approaches to correct and incorrect reasoning.

BAPA 4636: Entrepreneurship and Small Business Consulting

Prerequisites: ACCT 3331, FINC 3331, MGMT 3031 and MKTG 3031 or equivalents. Application of classroom concepts, theories and principles from all business disciplines to active operating small businesses or new business ventures. This course will qualify as a management or marketing elective.

BAPA 4915; 4935: Coop Education in Business

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of the Director of Cooperative Education. Educational paid work assignment by a student in the field of his or her career interest and course of study. A technical report will be required at the end of the semester. Qualifies as a general or BUS elective.

CHEMISTRY COURSES

*Pending Coordinating Board approval

CHEM 3030: Chemistry for Non-Science Majors

This course is for students who wish to gain a descriptive understanding of Chemistry applicable to everyday living. Not for BIOL, CHEM, ENSC or Physical Sciences majors.

CHEM 3031: Life in the Universe for Non-Science Majors

Origin of the Universe, origin and evolution of life and the possibilities for finding life on other planets, including the search for extra-terrestrial intelligence.

CHEM 3032: Food and Nutrition Sciences for Non-Science Majors

Understanding the nature of food and functions of food constituents, food safety and how nutrients affect health.

CHEM 3224: Laboratory for Organic Chemistry

Prerequisite or corequisite: CHEM 3234. Laboratory principles and practices in organic chemistry. Three hours laboratory and one half hour lecture each week.

CHEM 3230: Survey of Physical Chemistry

Prerequisites: General Chemistry I, II, Calculus I, College Physics I, II. Appropriate for students pursuing the BA in Chemistry or a BS in Environmental Science. An overview of physical chemistry, thermodynamics, molecular structure, spectroscopy.

CHEM 3233; 3234: Organic Chemistry I, II

Not available for credit to students with more than three hours of organic chemistry. Principles of organic chemistry based on a mechanistic approach to understanding the relationship of structure to reactivity in organic compounds.

Prerequisite: General chemistry.

CHEM 3333: Environmental Chemistry

Chemical processes and reactions related to chemical pollution problems and their control in the atmosphere, soils and waters.

Prerequisite: General chemistry.

CHEM 4222: Laboratory for Physical Chemistry

Prerequisite or corequisite: CHEM 4231. Laboratory principles and practice in physical chemistry. Six laboratory hours each week.

CHEM 4130: Chemical Calculations

Prepares chemistry and biology students for math they will encounter in Physical Chemistry and Biochemistry, using examples geared to these subjects.

CHEM 4131: Chemical Origins

Prerequisites: General Chemistry and University or College Physics. Origin of the universe and the chemical elements, pre-biotic chemistry and the origin of life.

CHEM 4132: Principles of Astrobiochemistry

Overview of the search for life in the universe, including chemical signatures of life on other planets.

Prerequisites: General Chemistry and University or College Physics.

***CHEM 4135: Handedness in Science**

Prerequisites: General Chemistry and University or College Physics. Suitable for chemists, physicist and biologist (especially pre-med). Handedness (chirality) in chemistry, biology, pharmaceuticals and medicine. Origin of chirality: Is it a feature of fundamental physics? Use of chirality to detect life on other planets.

CHEM 4231, 4232: Physical Chemistry I, II

Prerequisites: General Chemistry I, II, Calculus I, II and calculus-based Physics I, II and CHEM 4130. CHEM 4231 and CHEM 4232 may be taken in any order: Physical Chemistry (PC) I is not a prerequisite for Physical Chemistry II. PCI covers thermodynamics and kinetics. PCII covers quantum mechanics and spectroscopy.

CHEM 4325: Advanced Lab for Inorganic Chemistry

Laboratory principles and basic manipulation skills used during the preparation and characterization of inorganic compounds.

Prerequisite: CHEM 3224, CHEM 4231 or CHEM 3230.

CHEM 4335: Inorganic Chemistry

Prerequisite or corequisite: CHEM 3230 or CHEM 4231. Concepts and systems of inorganic chemistry; atomic structure, molecular structure and bonding, ionic crystals, solid state defects and coordination compounds.

CHEM 4422: Laboratory for Biochemistry

Prerequisite or corequisite: CHEM 4431. Laboratory principles and practices in cellular biochemistry. One hour of lecture and 3 hours of laboratory per week.

CHEM 4431: Biochemistry I

Study of cellular biochemical components and metabolism.

Prerequisite: Organic chemistry, CHEM 4130 strongly recommended.

CHEM 4432: Biochemistry II

Regulation and control of intermediary metabolism. Introduction to biochemical genetics.

Prerequisite: CHEM 4431.

CHEM 4521: Laboratory for Environmental Analysis

Prerequisite or corequisite: CHEM 3333. Experimental methods for sampling and analysis of environmental samples using modern instruments. Hands-on laboratory and field experiments. One hour of lecture and 3 hours of laboratory per week.

CHEM 4532: Water Chemistry and Water Pollution

Prerequisites: General chemistry, Organic Chemistry I. Study of chemical equilibria in natural waters, water quality parameters, water sampling, important water pollutants and their fate.

CHEM 4535: Environmental Sampling and Monitoring

Principles and techniques of environmental sampling for air, water, soil and hazardous wastes. EPA standard methods for environmental analysis using biological, chemical and instrumental techniques.

Prerequisite: MATH 3038.

CHEM 4536: Soil & Groundwater Remediation

Chemical, biological, geological principles and applications of various remediation techniques commonly used to clean up contaminated soils and groundwater.

Prerequisite: CHEM 3333.

CHEM 4622: Laboratory for Analytical Chemistry

Prerequisites or corequisites: CHEM 4635; 4636. Gravimetric, volumetric and simple instrumental methods of analysis. Six laboratory hours each week.

***CHEM 4633: Forensic Chemistry**

Provides students training in drug chemistry, chemistry of addiction, arson investigation, chemistry of explosives, poisons, estimating the time of death. Prerequisites: CHEM 3233, CHEM 3234.

CHEM 4635: Analytical Chemistry I

Emphasizes quantitative analysis using titrations, gravimetric techniques and elementary instruments.

Prerequisite: CHEM 3234.

CHEM 4636: Analytical Chemistry II

Emphasis on qualitative organic analysis and an introduction to instrumental analysis.

Prerequisite: Analytical Chemistry I.

CHEM 4637: Instrumental Analysis

Principles and practices of modern analytical instrumentations. Emphasis on hands-on experience in chemical analysis using UV-VIS, IC, ICP, GC, GC-MS, LC-MS, HPLC and NMR. Lecture, laboratory instruction and supervised project on unknown chemicals.

Prerequisite: CHEM 4635.

CHEM 4638: Advanced Organic Chemistry

Advanced mechanistic study of the relationship between structure and reactivity in organic chemistry.

Prerequisite: CHEM 3233, 3234 or equivalent.

CHEM 4639: Food Chemistry and Human Nutrition

Designed for science students. Understanding the nature of food constituents including proteins, lipids, carbohydrates, vitamins, minerals and molecular functions of the food constituents, food safety and how nutrients affect pathogenesis and health. Critically review information, claims and fads as pertaining to nutrition and health.

Prerequisite: General chemistry or biology course.

CHEM 4729: Undergraduate Research

Prerequisites: Approval of a faculty member under whose direction the research will be carried out, the chemistry program chair and the dean.

CHEM 4730: Industrial Chemistry: Process and Environment

Survey of industrially-important processes which are based on naturally-occurring or petroleum-derived organic materials. A component of the course involves Environmental Protection, such as the Clean Air and the Toxic Substances Control.

Prerequisite: Organic Chemistry.

CHEM 4731: Advanced Spectroscopic Analysis

Prerequisites: Analytical, organic and inorganic chemistry. Designed for students seeking advanced analytical studies through practical spectra analysis.

CHEM 4732: Chemistry Seminar

The selection, study and formal presentation of topics from the chemical literature.

Prerequisite: Approval of instructor.

***CHEM 4733: Quantitative Chemical Analysis**

Designed for students seeking advanced analytical studies through Quantitative Chemical Analysis.

Prerequisite: CHEM 4635.

CHEM 4819, 4839: Independent Study in Chemistry

Prerequisites: Approval of instructor, chair and associate dean.

CHEM 4915: Cooperative Education Work Term

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education. Educational paid work assignment by a student in the field of career interest and course of study. A technical report is required at the end of the semester. (Specific requirements are noted in the Cooperative Education catalog description.)

CHEM 4931: Selected Topics in Chemistry

Identified by specific title each time course is offered.

COMMUNICATION COURSES

*Pending Coordinating Board approval

COMM 3230: Integrated Marketing Communication

Overview of persuasive communication as it pertains in theory and practice to integrated marketing, public relations and advertising.

COMM 3231: Writing for the Media

Journalistic writing, including fact gathering, news and feature writing styles, advertising, public relations and freelance writing.

COMM 3531: Mass Media and Society

Examination of historical and modern communications environment, focusing on development and impact of online, broadcasting and print industries as well as related conceptual issues of media ethics, law, economics and effects theory.

COMM 3532: Media Law

Examination of legal issues pertinent to the professional communicator, including First Amendment freedoms, defamation, privacy, copyright and obscenity.

COMM 3533: Understanding Advertising

Study of consumer advertising from several perspectives: persuasive communication strategies, new product launches, ad execution, advertising effects and ad evaluation.

COMM 3534: Gathering Information

Research techniques in which students identify and collect information from libraries, archives, databases, the Internet and interviews. The gathered information is then used to write magazine articles, reports and strategic studies.

COMM 3535: Communication Ethics

Exposes students to a range of ethical principles and case studies with the ultimate goal of helping them work out their own professional standards and commit to them.

***COMM 3536: Advertising Procedure**

Study of consumer advertising from several perspectives: historical forces, advertising agency operations, and successful campaign. Students learn about targeting demographics, innovative advertising methods, and how to identify and collect information.

COMM 4031: Global Issues in Film

Film studies course in which global issues in a digital society are addressed using critical/cultural studies approaches. Focuses on world-wide cultural differences to foster knowledge and understanding of diversity issues.

COMM 4232: Public Relations Writing

Prerequisites: COMM 3230 and COMM 3231 or an equivalent course.

Develop in-depth understanding of techniques used in public relations; integrate strategic, problem-solving approach to PR writing task and improve writing and presentation skills used in PR.

COMM 4233: Speech Communication: Theory and Practice

Introduction to theory and application of Speech Communication including public speaking, critical listening skills, ethics, argumentation, group presentations and use of visual supporting materials.

COMM 4434: Web Design

Prerequisite: ARTS 4439 or permission of instructor.

Fundamentals of Web design, including graphical editors, basic layouts, colors and accessibility standards.

COMM 4435: Advanced Web Design

Prerequisites: ARTS 4439 and COMM 4434 or permission of instructor.

Students will create client-based projects using HTML, XHTML and CSS. Introduction to Javascript.

***COMM 4436: Flash Animation**

Prerequisites: ARTS 4433, ARTS 4439, and COMM 4434.

Instruction in 2D animation, Flash Timeline and Objects, Action Script, user interactivity and publishing files.

COMM 4530: 3D Computer Modeling

Prerequisites: ARTS 4433 and ARTS 4439 or permission of instructor. 3D modeling techniques for animation, images and 3D computer sculptures. How to build 3D models. Modeling techniques used in 3D software applications. Texture mapping and lighting in a 3D environment.

COMM 4531: 3D Animation

Fundamental principles of animation. Introduces students to 3D computer animation techniques including key framing, path animation, non-linear animation and hierarchical animation. Covers storyboarding and animation project planning.

Prerequisite: COMM 4530.

COMM 4532: Photojournalism

Exploration of photography as a form of journalistic storytelling. Includes study of technical and emotional aspects of photographs, as well as techniques in Photoshop.

Prerequisite: ARTS 4439.

COMM 4533: Editing

Techniques for correcting and refining articles for publication, broadcast or other media release.

Prerequisite: COMM 3231.

COMM 4534: Video Production and Editing

Develops basic understanding of the technology behind video production as an information medium using non-linear editing equipment. Emphasis on concept, news worthiness, technique and effect on audience.

***COMM 4535: Advanced Video Production and Editing**

Prerequisite: COMM 4534 Video Production and Editing.

Advanced editing tools such as Final Cut Pro time line, Garageband, Live Type, and DVD Pro.

COMM 4536: Magazine Publication

Laboratory course covering magazine production. Will produce general UHCL student news magazine for the Web (fall semester) or literary art magazine (spring semester).

COMM 4538: Desktop Publishing

Coverage of theory and technology related to creation of graphic products for offset printing. Includes examination of Photoshop, Illustrator, In Design and other software applications.

Prerequisite: ARTS 4439.

COMM 4565: Media Production

Prerequisite: COMM 3231 and COMM 3534 (or equivalents).

Laboratory course covering media production. Transferable skills learned will be used to produce print and online editions of the UHCL student newspaper.

COMM 4611: Communication Portfolio

Exit course for Communication curriculum. Showcases a student's best work, both textual and graphic, from previous semesters. NOTE: This course is included as part of the communication internship. Students enrolled in COMM 4739 do not have to register for portfolio separately.

COMM 4739: Communication Internship

A supervised, onsite internship in a communication capacity.

COMM 4831: Project Management

Examines organization, planning, and implementation of activities related to a project. Provides practical knowledge on managing project scope, schedule and resources.

COMM 4839: Independent Study in Communication

Independent study in communication. Permission of instructor required.

COMM 4931: Selected Topics in Communication

Identified by a specific title each time course is offered.

COMPUTER ENGINEERING COURSES

*Pending Coordinating Board approval

CENG 3112: Lab for Digital Circuits

Corequisite: CENG 3132. Laboratory experiments using digital logic and small scale integrated circuits.

CENG 3113: Lab for Linear Circuits

Corequisite: CENG 3133. Laboratory experiments demonstrating AC/DC circuits. Experiments using lumped constants and integrated circuits will be stressed.

CENG 3114: Lab for Advanced Linear Circuits

Corequisite: CENG 3134. Experiments emphasizing the design and analysis of linear lumped-constant circuits.

CENG 3115: Lab for Introduction Digital Signal Processing

Corequisite: CENG 3135. Laboratory experiments in Digital Signal Processing.

CENG 3132: Digital Circuits

Corequisite: CENG 3112. Applications of point set theory and Boolean Algebra to the analysis and design of asynchronous and synchronous digital circuits.

CENG 3133: Linear Circuits

Prerequisites: 6 hours Calculus, University Physics II; co-requisite: CENG 3113. Basic electrical concepts; network theorems; circuit laws; resistance, capacitance, inductance, operational amplifiers, response of RC, RL and RLC circuits to initial conditions and constant forcing functions. Steady-state and transient analysis. Introduction to S-domain circuit analysis. Integration of computer applications using SPICE and MATLAB.

CENG 3134: Advanced Linear Circuits

Prerequisites: CENG 3133/3113; corequisite: CENG 3114. Polyphase AC circuit analysis and design, network and passive and active analog filter design using MATLAB and SPICE, time and frequency domain analysis utilizing Fourier series and Fourier analysis techniques.

CENG 3135: Introduction to Digital Signal Processing

Prerequisites: Calculus I, II and C Programming; Corequisite: CENG 3115. Sinusoids, spectrum representation, sampling and aliasing, FIR and IIR digital filters. Laboratory instruction.

CENG 3311: Lab for Telecommunications and Networks

Corequisite: CENG 3331. Laboratory experiments in digital and data communications.

CENG 3331: Introduction to Telecommunications and Networks

Introduction to data communications, error detecting/correcting codes, multiplexing, circuit and packet switching and local area networks.

Prerequisite: CENG 3132; corequisite: CENG 3311.

CENG 3511: Lab for Computer Architecture

Prerequisites: CENG 3132, 3112; corequisite: CENG 3531. Laboratory experiments for Computer Architecture Design and Interfacing.

CENG 3531: Computer Architecture

Control logic, addressing, registers, instructions, memory units, arithmetic elements, interrupts and input-output structures.

Prerequisite: CENG 3132; corequisite: CENG 3511.

CENG 3624: Introduction to Engineering

Introduction to engineering concepts including problem solving, the design process, engineering tools and topics in ethics. Laboratory instruction.

***CENG 3731: Microcontroller Programming**

Microcontroller, assembly language programming and embedded system applications.

Prerequisite: CSCI 3133 or equivalent.

CENG 4113: Lab for Microprocessor Interfacing

Corequisite: CENG 4133. Laboratory experiments interfacing the Intel microcomputer to peripherals, memory, and other devices.

CENG 4131: Telecommunications Networking Devices

Modems, multiplexers, data communications network analysis, bridges, routers, client/server concepts and NOS software.

Prerequisite: CENG 3331.

CENG 4133: Microprocessor Interfacing

Corequisite: CENG 4113. Techniques for interfacing microcomputers to peripherals, memory and other devices.

Prerequisite: CENG 3531; prerequisite or corequisite: CSCI 3331.

CENG 4135: Digital Signal Processing Applications

Prerequisites: CENG 3115, CENG 3135. Fundamental concepts in Digital Signal Processing applications with algorithmic implementations using Texas Instruments, DSPs and XILINX Field Programmable Gate Arrays.

CENG 4231: Telecommunications Switching Systems

Introduction to switching systems, digital switching, ISDN and ATM networking. Laboratory instruction.

Prerequisite: CENG 3331 or equivalent.

CENG 4331: Analysis and Design of Linear Systems

Discrete time signals and systems, z-transforms and transfer functions, state space analysis, introduction to digital signal processing and digital filter design using conventional and convolutional techniques, applications from communications and control theory. Computer solutions using MATLAB and SPICE.

Prerequisites: Ordinary Differential Equations and basic circuit analysis.

CENG 4431: Computer System Reliability and Safety

Computer reliability and safety models and metrics, redundancy and recovery techniques, fault tree analysis.

Prerequisites: MATH 4434 or equivalent, SWEN 4432.

CENG 4534: Digital System Design

Combinational and sequential circuit design of digital systems using a hardware description language. Laboratory instruction.

Prerequisite: CENG 3132 or equivalent.

CENG 4625, 4626: Senior Projects

Project course requiring each student to complete a project approved by the instructor. The student must submit a written final report and give an oral presentation to faculty and students. Laboratory instruction.

Prerequisite: final year before graduation or permission of instructor.

264 Roster of Courses

CENG 4632: Digital Control Design

Analysis and design of digital control systems with applications critical systems.

Prerequisite: CENG 4331.

CENG 4819, 4839: Independent Study in Computer Engineering

Prerequisites: Approval of instructor, chair and associate dean.

CENG 4915: Cooperative Education Work Term

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education. Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.)

CENG 4931: Selected Topics in Computer Engineering

Identified by specific title each time course is offered.

COMPUTER INFORMATION SYSTEMS COURSES

*Pending Coordinating Board approval

CINF 3131: Programming With Visual Basic

Programming with Visual Basic with emphasis on object-oriented programming and the users of integrated development environments. Data types, control structures, functions, subroutines, files, classes and controls. Development using the .Net framework. Laboratory instruction.

CINF 3231: Information Systems Theory and Practice

Introduction to the theory and practice of information systems. Development, application and management of IS. Hardware and software issues for IS. Ethical, social and security related issues of IS. IS environments. Laboratory instruction.

Prerequisite: A high level programming language.

CINF 3331: Business Data Communications

Introduction to business data communications. WANs, LANs and Internet concepts. A survey of data communications with emphasis on the impact of digital technology on the operation, management and economics of computer information systems.

CINF 3931: Topics in Computer Information Systems

Identified by specific title each time course is offered. Laboratory instruction.

CINF 4038: Topics in Computer Information Systems-Non-Majors

Identified by specific title each time course is offered. Not to be taken by majors in computing program. Laboratory instruction.

CINF 4230: Web Application Development

Survey of languages, tools and techniques for Web Application Development, HTML, XHTML, CSS, JavaScript, Dynamic HTML, Server-side web development using .Net Framework with ASP.Net and C#, Perl CGI programming with Perl, XML. Laboratory instruction.

Prerequisites: CSCI 3133, CSCI 3134, CSCI 3333.

CINF 4233: Computer Security

Introduction to encryption, decryption and cryptographical protocols; security components; security policies and mechanisms in computer applications, computer systems and networks; legal/ethical issues in computer security. Laboratory instructions.

Prerequisites: CSCI 3331, CSCI 3532.

CINF 4234: Modern Systems Analysis and Design

Key concepts and principles of systems analysis; Techniques and tools of the systems analysis methodology; Current issues of systems analysis and business process reengineering.

Prerequisite: CINF 3231.

CINF 4334: Electronic Commerce

Key concepts and principles of e-commerce; importance of e-commerce in the global economy; technological elements of the infrastructure of e-commerce; business and social factors associated with the success or failure of e-commerce; critical thinking to strategize and plan technology based solutions to achieve business goals.

Prerequisites: CINF 4230 or approval of instructor.

CINF 4819, 4839: Independent Study in Computer Information Systems

Prerequisites: Approval of instructor, chair and associate dean.

CINF 4634: Computer Systems Administration

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example. Laboratory instruction.

Prerequisite: CSCI 3333.

CINF 4838: Senior Project in Computer Information Systems

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students develop a significant computer application for a realistic project in CIS that emphasizes the entire software lifecycle. Professional behavior, ethics and teamwork will be developed. Students prepare written reports and give oral presentations. Laboratory instruction.

Prerequisites: CSCI 4333 and SWEN 4432.

CINF 4915: Cooperative Education Work Term

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.)

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CINF 4931: Advanced Topics in Computer Information Systems

Identified by specific title each time course is offered. Laboratory instruction.

COMPUTER SCIENCE COURSES

*Pending Coordinating Board approval

CSCI 3033: Concepts of Data Structures

An introduction to the concepts of data structures for non-computing majors, including records, tables, linked lists, stacks and queues. Abstract data types, recursion, searching, sorting and an introduction to binary trees. Not to be taken by computing and engineering majors. Laboratory instruction.

Prerequisite: Programming in C.

CSCI 3131: Programming With Visual Basic

Programming with Visual Basic with emphasis on object-oriented programming and the uses of integrated development environments. Data types, control structures, functions and subroutines, files, classes, controls. Development using the .NET framework. Laboratory instruction.

CSCI 3132: Programming in Pascal

Programming with the Pascal programming language with emphasis on structural programming techniques. A study of Pascal including control structures, functions and procedures, arrays, records, I/O, sequential files and relative files. Software development including analysis, design, coding, implementation, testing and documentation. Laboratory instruction.

CSCI 3133: Programming With C

Programming techniques with the C programming language, emphasis on modular design, data abstraction and encapsulation using ANSI C. Use of all features of C including arrays, pointers, structures, prototypes, separate compilation and the C-preprocessor. Development of generic functions and study of portability issues. Laboratory instruction.

Prerequisite: Pascal or Ada.

CSCI 3134: Software Development With Java

Software development with the Java programming language and the Java class libraries. Design of applets and standalone Java applications. Laboratory instruction.

Prerequisite: C, Pascal or Ada.

CSCI 3231: Numerical Methods

Taylor series and error analysis, interpolation, solution of linear and non-linear equations, least squares, integration of functions and differential equations. Programming assignments. Laboratory instruction.

Prerequisites: Calculus, linear algebra, ordinary differential equations and programming in C, Pascal, Ada or Java.

CSCI 3233: Object-Oriented Design and Programming

Basic elements of object-oriented technology including classes, their attributes, methods and relations to other classes, objects, classification and inheritance, encapsulation, polymorphism, object-oriented analysis, design and programming assignments in C++ language under UNIX. Laboratory instruction.

Prerequisite: Programming in C or Java.

CSCI 3234: Advanced Software Development

A review of OOP paradigm (encapsulation, inheritance and polymorphism) and advanced software development topics and techniques, including GUI components and event driven programming. Prerequisites: CSCI 3134 or equivalent Object Oriented Program course or appropriate grade on the AP Computer Science Exam.

CSCI 3331: Computer Organization and Assembly Language

Basic elements of computer hardware and software, data representations, instruction formats and addressing modes, assembly language instructions, programming techniques in assembly language, macro assemblers, link-loaders, functions of operating systems and input/output programming and peripherals. Laboratory instruction.

Prerequisite: Programming in C.

CSCI 3333: Data Structures

Advanced programming techniques and data structures including arrays, linked lists, queues and stacks. Abstract data types, recursion, searching and sorting, binary trees, hashing techniques and elementary algorithm design and analysis. Laboratory instruction.

Prerequisite: CSCI 3133, CSCI 3234 and Java.

CSCI 3432: Ada Programming Language

Introduction to the Ada programming language. Emphasis on the systematic design of software in the Ada environment. Laboratory instruction.

CSCI 3532: Advanced Data Structures and Algorithms

Binary trees, trees, graph theory, finite state automata, external storage devices, sequential and direct file organizations, file processing techniques, hashing, B-trees, external sorting, P and NP problems, algorithmic analysis. Laboratory instruction.

Prerequisites: MATH 3331 and CSCI 3333 or equivalent.

CSCI 3632: Artificial Intelligence Programming Languages

An introduction to AI programming languages. Programming assignments in LISP and PROLOG. Laboratory instruction.

Prerequisite: CSCI 3333.

CSCI 3931: Selected Topics in Computing

Identified by specific title each time course is offered.

CSCI 4033: Concepts of Database Systems

An introduction to the concepts of database systems for non-computing majors, including modeling and implementation of database systems, data models, relational models, database languages, relational algebra, SQL, normalization theory and Web database connectivity. Not to be taken by computing and engineering majors. Laboratory instruction.

Prerequisite: CSCI 3033.

CSCI 4037: Computing Essentials

Modern computing software tools and information technologies taught in a practical, hands-on manner. Topics covered: word processing, databases, spreadsheets, presentation software, computer programming, the Internet and development of home pages using HTML and other tools. Emphasis is on the development and application of computer skills to the student's program area. Laboratory instruction. Not for credit for computing science majors.

CSCI 4038: Topics in Computer Science - Non Majors

Identified by topics each time the course is offered. Not to be taken for credit by majors in computing programs. Laboratory instruction.

CSCI 4132: Network Protocols

Data communications systems software concepts; computer network architecture; ISO model. Laboratory instruction.

Prerequisites: CSCI 3331 and CENG 3331.

CSCI 4134: Advanced Software Design With Java

Advanced software design with the Java programming language, including multi-threaded applications, exception handling, network programming, Java Beans, security issues and advanced AWT usage. Laboratory instruction.

Prerequisite: CSCI 3134 or equivalent.

CSCI 4135: Advanced Software Development With .Net Framework and C#

In depth study of the managed environment provided by .NET Framework and its use in developing advanced windows applications utilizing OOP concepts and techniques. Includes GUI issues, event and exception handling, multi-threading, networking, collections, file and database access as well as an introduction to ASP.NET, Web Forms and Web Services.

Prerequisites: CSCI 3333 and CSCI 3233 or CSCI 3134 or equivalent.

CSCI 4230: Web Application Development

Survey of languages, tools and techniques for Web application development, HTML, XHTML, CSS, JavaScript, dynamic HTML, Server-side web development using .Net Framework with ASP.NET and C#, Perl, CGI programming with Perl, XML. Laboratory instruction.

Prerequisites: CSCI 3133, CSCI 3134, CSCI 3333.

CSCI 4233: Computer Security

Introduction to encryption, decryption and cryptographical protocols; security components; security policies and mechanisms in computer applications, computer systems and networks; legal/ethical issues in computer security. Laboratory instruction.

Prerequisites: CSCI 3331 and CSCI 3532.

CSCI 4333: Design of Database Systems

Design of database systems, data description and manipulation languages, data models, entity-relationship model, relational model, SL, relational algebra, normalization theory, DBMS, Internet, database design, data flow diagrams, and implementation of database systems. Laboratory instruction.

Prerequisite: CSCI 3333.

CSCI 4530: Computer Graphics and Interface Design

Two-dimensional graphics algorithms, point and coordinate transformations, animation on graphics terminals and systems. Laboratory instruction using Solaris X-Windows-environment.

Prerequisites: Calculus I, Linear Algebra.

CSCI 4531: Advanced Programming in Unix

Program development in a multiprocessing environment, including; process and file system data structures, process control, synchronization and communication between concurrent processes, shared memory, threads and signals. Advanced input/output mechanisms such as asynchronous I/O and memory mapped I/O. Library functions including system function and database library routines. Laboratory instruction.

Prerequisites: CSCI 3133 or equivalent and CSCI 3333.

CSCI 4534: Operating Systems

Analysis and design of basic operating systems concepts, including multiprocessing, interprocess communication and synchronization, scheduling, file systems, memory management, input/output and deadlock. Examples drawn from real operating systems including Unix and Windows NT. Laboratory instruction.

Prerequisites: CSCI 3331, CSCI 3333, CENG 3531 or equivalents and senior standing.

CSCI 4632: Computer Game Programming: Theory and Practice

Applying a fourth generation game engine and language on designing and developing 2D and 3D real-time multimedia simulations and games for education, training, robotics and entertainment. Laboratory instruction.

Prerequisite: Previous programming experience in a high level language.

CSCI 4634: Computer Systems Administration

Administration of computers and their operating systems, both as stand-alone and in network topologies. Unix is used as an example. Laboratory instruction.

Prerequisite: CSCI 3333.

CSCI 4819, 4839: Independent Study in Computer Science

Prerequisites: Approval of instructor, chair and associate dean.

***CSCI 4831: Computer Forensics**

Introduction to the topics of computer crime and computer forensics. Students will learn different aspects of computer crime and ways in which to protect, uncover and understand digital evidence. Students will gain experience using hardware and software tools to perform rudimentary investigations. Laboratory instruction.

CSCI 4838: Senior Project in Computer Science

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students develop a significant computer application for a realistic project. Emphasis will be on practical experience on all phases of constructing a computer solution. Professional behavior, ethics and teamwork will be developed throughout the project. Students prepare written reports and give oral presentations. Laboratory instruction.

Prerequisites: CSCI 3532 and SWEN 4432.

CSCI 4915: Cooperative Education Work Term

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.)

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

CSCI 4931: Selected Topics in Computer Science

Identified by specific title each time course is offered.

CRIMINOLOGY COURSES

*Pending Coordinating Board approval

CRIM 3132: Criminology

Theories of causation; patterns and social response. (Crosslisted with SOCI 3132).

CRIM 3335: Deviance

Theories of the existence of deviance in society; management of spoiled identities. (Crosslisted with SOCI 3335).

CRIM 4133: Juvenile Delinquency

Individual and community aspects of juvenile delinquency; theories of causes and modes of control. (Crosslisted with SOCI 4133).

CRIM 4135: The Death Penalty

History and development of capital punishment as a social institution. Focus on issues such as deterrence, discrimination and execution of innocent prisoners. (Crosslisted with SOCI 4135).

CRIM 4330: Criminal Investigation

Review of methods and techniques used by investigators to chronologically reconstruct a crime in order to arrest the criminal offender.

CRIM 4331: Prison and Society

Correctional institutions in the United States; analysis of their changing roles and functions. (Crosslisted with SOCI 4331).

CRIM 4332: Social Problems and the Legal System

Course focuses on the confrontation between individual rights and welfare of society. Issues are examined from perspectives of sociological, philosophical and legal theories.

CRIM 4333: Probation and Parole

Exploration of alternatives to incarceration, emphasizing the major community-based activities of probation and parole. Includes discussion of intermediate punishments, restitution programs, house arrest and electronic monitoring of offenders.

CRIM 4334: Criminal Law

Survey of structure and philosophy of criminal law; topics include criminal liability, criminal defenses and types of offenses. (Crosslisted with SOCI 4334).

CRIM 4335: Race and Justice

Analysis of crime rates in United States and involvement of racial groups through theoretical exploration and practices in and out of the justice system.

CRIM 4337: Organized Crime

Examines organized criminal groups, such as the "mafia" and other criminal groups worldwide. Applies historical, economic, political and legal perspectives. Emphasizes victimless crime, labor rackets and extortion. Covers special governmental commissions and legislative reforms.

CRIM 4338: Policing and Society

Critical analysis of role and function of American law enforcement including historical development and evolution, contemporary police organizations, individual officers and relationship between police and community. Coverage of objectives of police: law enforcement, service, order maintenance and crime prevention.

***CRIM 4834 Statistics**

Introductory course in statistics in criminology. Topics include both basic descriptive and inferential statistics.

CRIM 4835: Research Methods

Introductory course in research methods in criminology. Topics include theory and measurement, designing and conducting research and data collection and analysis.

CRIM 4839: Independent Study in Criminology

Prerequisite: Approval of advisor and independent study director.

CRIM 4930: Contemporary Issues in Criminology

Course assesses students' skills in theory, research and subject content. Explores the many opportunities provided by degree in Criminology.

Prerequisites: Completion of at least 80 credits and at least four courses in Criminology.

CRIM 4931: Selected Topics in Criminology

Identified by specific title each time course is offered.

DECISION SCIENCES COURSES

DSCI 3331: Quantitative Methods for Management

Introduction to quantitative techniques for management; probability, inventory and production models, linear programming, queuing, replacement models, Markov analysis and network models. Previously taught as DSCI 3131; credit may not be received for both courses.

Prerequisite: DSCI 3231 or equivalent.

DSCI 3231: Statistics I

Introduction to probability and statistics; descriptive measures, probability distribution, sample statistics, estimation, confidence intervals, tests of hypotheses, chi-square, F-distribution, linear regression and correlation.

Prerequisites: College algebra and finite math.

DSCI 3232: Statistics II

Statistical inference, decision-making, prediction, sample design, significance tests, experimental design, non-parametric methods, decision theory, multiple regression and correlation, time series and index numbers.

Prerequisite: DSCI 3231 or equivalent.

DSCI 4531: Forecasting Systems

Techniques for forecasting; time series, statistical methods and analysis of error.

Prerequisite: DSCI 3231 or equivalent.

DSCI 4839: Independent Studies in Decision Sciences

Independent directed study in Decision Sciences.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

DSCI 4931: Selected Topics in Decision Sciences

Identified by specific title each time course is offered.

EARLY CHILDHOOD EDUCATION COURSES

ECED 4031: Historical and Recent Trends in Early Childhood Programs

Historical, societal, political and economic factors that influence progressive early childhood programs and child services. Field experiences required.

ECED 4032: Developing Competence in Young Children

Focus on the interrelationships among the content areas, skills, concepts and practices that support early competence in young children. Integration of national and state teaching standards into curriculum planning is featured. Field experiences required.

Prerequisites: INST 3133 (for EC-4 students only) and TCED 4033 (For EC-6 students only).

ECED 4033: Child Guidance & Classroom Management for Young Children

Theories and strategies for guiding the behavior of young children (birth to age 5) inside and outside the classroom environment. Focus will be on effective strategies for behavior management including the role of problem solving, the classroom community and family involvement. Field experiences required.

ECED 4034: Nutrition, Health and Safety

Study of nutrition, health, safety and related activities, including skill development in management of issues, guidelines and practices in nutrition, community health, hygiene and safety. Integration of these principles applies to a variety of EC-4 settings. Field experiences required.

ECED 4035: Literacy Development Birth- Age 5

This course will cover language and literacy development for children ages birth through age 5 including the beginning stages of reading and writing development, oral language development, parent involvement in literacy learning and appropriate curriculum for young children's literacy development. Field experience required.

ECED 4036: Assessment of Young Children Birth- Age 5

This course will cover formal and informal assessment strategies appropriate for children ages birth through age 5. Assessment for children's cognitive, social, physical and motor development for curriculum planning will be addressed as well as identifying children with developmental needs. Field experience required.

ECED 4037: Mathematics and Science for Young Children Birth-Age 5

This course will cover mathematics and science concepts, as well as content methods and strategies for children birth-age five. Field experience required.

ECED 4131: Reading Development in Young Children

Focus on early language and literacy development of young children. Oral language development, beginning reading and writing strategies and family literacy are featured. Field experiences required.

Prerequisites: LLS 4131 and LLS 4435.

ECED 4133: Developmental Theories of Young Children

Focus on historic and current theories of children's learning and development.

ECED 4134: Observational/Developmental Assessment of Young Children

Evaluation and uses of developmental and cognitive assessment instruments and their theoretical bases will be explored. Students will develop informal assessments of the intellectual, language, social, physical and motor development of young children. Field experiences required.

Prerequisite: ECED 4032.

ECED 4230: Play

Focus on philosophy, research and applications of modern play and environments for play. Influences of play on child development, cognition, culture and overall health. The role of play in the early childhood curriculum will be emphasized. Field experiences required.

ECED 4231: Infants and Toddlers

Overview of human development from prenatal stages through the first two years of life. Emphasis is placed on the interrelationship of cognitive, physical, social and emotional development in a variety of contexts and cultures. Appropriate curriculum and environment for infants and toddlers will be emphasized. Field experiences required.

ECED 4232: Cultural Awareness for Young Children

Focus on impact of diversity on development of young children. The influence of culture and social class on children's socialization and cognition will be discussed. Research and theories to support the development of minority children will be emphasized. Field experiences required.

Prerequisite: SILC 4135.

ECED 4233: Preschool Curriculum

Overview of integrated curriculum for children ages 3-5 including appropriate content, methodology, environment, materials and resources. Field experiences required.

ECED 4234: Advanced Administration of Programs for Young Children

This course will build upon the content in the two lower courses in program administration. It will focus on issues related to effective leadership and supervision, including adult learning theory, staff development, curriculum development and program accreditation. Relevant laws and standards relating to young children and program management will also be featured. Field experiences required.

ECED 4332: Early Childhood Special Education

A study of atypical development in infants and young children with a focus on educational planning and programming. Field experiences required.

Prerequisite: SPED 4030 or SPED 5030.

ECED 4333: Advanced Early Childhood Special Education

This course will extend key topics in early childhood special education presented in the SPED/ECED 4332 course, specifically strategies and techniques used by practitioners in early childhood special education settings serving children birth to age 5. The research-based topics will include sign language, picture exchange, communication systems, portfolios, social scripts/videos, music therapy, as well as other advanced strategies and techniques used in settings with young children with communication/language needs, social/behavioral needs, and cognitive needs. Field experiences required.

ECED 4335: Children and Families

Social contexts in which a child develops, the relationships of individuals in these social contexts and the interaction within and between cross-cultural contexts. Field experiences required.

ECED 4737: Practicum I

Supervised field experience in an educational setting with young children and families.

ECED 4738: Practicum II

Supervised field experience in a program that gives students an experience with children and families in a second setting related to their track in the program.

Prerequisite: ECED 4737.

ECED 4839: Independent Study in Early Childhood Education

Prerequisites: Approval of instructor and Associate Dean.

ECED 4931: Selected Topics in Early Childhood Education

Identified by title each time course is offered.

ECONOMICS COURSES

ECON 3131: Money and Banking

The role of money and the banking system in the economy; monetary theory and policy and international monetary conditions.

Prerequisite: Principles of economics.

EDUCATION COURSES

EDUC 4030: School and Community

Historical, legal and philosophical foundations of education in American society.

EDUC 4130: Theories of Educational Psychology

A study of major theories of learning, motivation, cognition and moral development as they apply to professionals and learners, including constraints imposed by law and social policy and tradition.

EDUC 4132: Professional Seminar

Ethical, legal and multicultural considerations in teaching. Emphasis on professional responsibilities of teachers, legally, ethically and within ethnically diverse cultures. Field experiences required.

Prerequisite: Admission to Teacher Education Program.

EDUC 4839: Independent Studies in Education

Prerequisites: Approval of instructor and Associate Dean.

EDUC 4931: Selected Topics in Education

Identified by specific title each time course is offered.

ENVIRONMENTAL MANAGEMENT COURSES

ENVR 3131: Foundations of Environmental Management

Presentation, analysis and application of the principles of managing human interaction with the environment.

ENVR 4131: Principles of Air Quality Management

Analysis of practices and technology for the control of atmospheric pollution.

Prerequisites: Introductory chemistry, ENVR 3131 or equivalents.

ENVR 4132: Water Management Principles

Principles of effective water resources management; national and state water resource practices.

Prerequisites: Introductory chemistry, ENVR 3131 or equivalents.

ENVR 4133: Techniques of Environmental Assessment

Familiarization with and basic critique of environmental impact assessment, environmental auditing and other decision and planning tools.

Prerequisite: ENVR 3131 and ENVR 4135 or equivalents.

ENVR 4135: Introduction to Environmental Law

Application of legal concepts and systems to environmental issues; basic federal and state environmental legislation.

ENVR 4136: Fundamentals of Hazardous Waste Management

A survey of social and technical aspects of current management and remediation practices.

ENVR 4137: Solid Waste Management Practices

A study of the management practices and technology used for non-hazardous solid waste collection, treatment, disposal and reuse.

ENVR 4331: Environmental Public Policy

Current environmental issues: problems, causes, alternative solutions and economic and health implications.

ENVR 4332: The Process of Environmental Permitting

A practical survey of the permits and procedures used by environmental agencies for regulatory control.

ENVR 4333: Introduction to Pollution Control Technology

An introduction to the technical aspects of pollution control including principles, equipment applications, manpower and energy requirements and economic factors.

Prerequisite: ENVR 3131 or equivalent.

ENVR 4334: Health and Safety Management

A survey of the technology and practices employed by management in providing a healthy and safe working environment.

ENVR 4336: Administrative Practice and Ethical Issues

The study of administrative agencies and their structure and authority; practical considerations when interacting with administrative agencies on environmental issues; ethical issues in environmental management.

ENVR 4819; 4839: Independent Studies in Environmental Management

(Variable credit, 1 or 3 semester hours.) Independent directed study in Environmental Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

ENVR 4931: Selected Topics in Environmental Management

Identified by specific title each time course is offered.

ENVIRONMENTAL SCIENCE COURSES

ENSC 3033: Integrated Environmental Sciences

Study of human influences on the biological, chemical and physical environment. For non-science majors only.

ENSC 4632: Environmental Science Seminar

Students will survey the literature, give presentations and prepare research papers in environmental science. Satisfies the environmental science program core requirement.

ENSC 4739: Internship in Environmental Science

Supervised work experience in an approved industrial firm or governmental agency. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit; approval of faculty advisor and associate dean.

ENSC 4819, 4829, 4839: Independent Study in Environmental Science

Prerequisites: Approval of instructor, chair and associate dean.

ENSC 4915: Cooperative Education Work Term

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.)

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

ENSC 4931: Topics in Environmental Science

Identified by specific title each time course is offered.

FINANCE COURSES

FINC 3031: Personal Finance

Practical financial management of personal money matters; budgeting insurance, taxes, borrowing, saving, investing and retirement and estate planning. This course will not meet the finance elective requirement for finance majors.

FINC 3331: Business Finance

Fundamental tools and techniques in financial planning; working capital management, capital budgeting; cost of capital; dividend theory, mergers and business failures.

Prerequisites: Principles of accounting, principles of economics and DSCI 3231 or equivalent.

FINC 3333: Intermediate Financial Management

Advanced principles and practices in the financial administration of business enterprises.

Prerequisite: FINC 3331 or equivalent.

FINC 3336: Risk Management

Techniques for managing pure risks for individuals and small businesses, and the characteristics of life, health, and property insurance are studied.

Prerequisite: FINC 3331 or equivalent.

FINC 3531: Real Estate Investment Analysis

Analytical foundations of evaluating real estate investments and exploration of the methods of financing such investments.

FINC 3533: Investments

Personal investments in bonds, mortgages, stocks and other securities; financial statements and credit.

Prerequisite: FINC 3331 and FINC 3333 or equivalents.

FINC 4331: Contemporary Financial Institutions

Management policies of commercial banks, savings and loan associations, credit unions, finance companies and other financial intermediaries.

Prerequisite: FINC 3331 or equivalent.

FINC 4431: Structure of Financial Statements

Evaluation of the structure of financial statements and their use in financial decision-making.

Prerequisites: FINC 3331; ACCT 3431 or ACCT 3332; or equivalents.

FINC 4531: International Financial Operations

International transactions and financial flows; balance of payments, foreign exchange market, worldwide commercial policy and financing.

Prerequisite: FINC 3331 or equivalent.

FINC 4532: Seminar in International Finance

Field experience involving meetings with financial officers of companies operating outside of the United States.

Discussions will involve matters relating to the financing of international business activities and operating in a non-American business environment.

FINC 4536: Income Taxation

An analysis of the federal income tax laws as they apply to individuals and the financial planning process. (Crosslisted with ACCT 4331.)

Prerequisites: FINC 3331 and Principles of Accounting, or equivalents.

FINC 4631: Treasury Management

Short-term asset and liability management, including the issues essential to the day-to-day management of cash flows associated with the operating cycle of a firm.

Prerequisite: FINC 3331 or equivalent.

FINC 4733: Retirement and Benefits Planning

Examination of the various retirement vehicles, group life and health programs, and government required benefits. Integration into an overall financial planning process is emphasized.

Prerequisites: FINC 3331 and FINC 3533 or equivalents.

FINC 4736: Estate Planning

Examination of federal and state laws concerning the distribution of assets in an estate. Significant attention is made to tax minimization strategies.

Prerequisites: FINC 3331 and FINC 3533 or equivalents.

FINC 4739: Internship in Finance

Six hours of supervised work experience each week in an approved financial institution or firm.

Prerequisites: 15 hours of upper-level credit and approval of program director.

FINC 4839: Independent Studies in Finance

Independent directed study in Finance.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

FINC 4931: Selected Topics in Finance

Identified by specific title each time course is offered.

FIRE SERVICES ADMINISTRATION COURSES

*Pending Coordinating Board approval

FRAD 4238: Social Conflict and Mediation

Examines theories of social conflict and application of dispute resolution/mediation techniques within fire service organizations.

FRAD 4433: Public Service Management

Overview of basic theories of administrative organization, relationships and behavior. How to structure, manage, direct and control units within fire service organizations.

FRAD 4434: Public Service Leadership

Examination of determinants and consequences of effective and ineffective leadership in fire service organizations.

FRAD 4435: Strategic Planning

Strategic planning and facilitation of organizational change in fire service organizations.

FRAD 4436: Organizational Communication

Examination of general communication processes and dynamics within fire service organizations.

FRAD 4437: Managerial Issues in Diversity

Explores what managers in Fire Services Administration need to know about diversity and minority/majority relations.

***FRAD 4438: Crisis Management**

Examines crisis management from a broad holistic systems perspective covering theories and analysis of crisis management, practice of crisis management process and handling of community crisis stress.

***FRAD 4439: Ethics in Public Leadership**

Examination of the unique ethical challenges faced by leaders with an emphasis on building ethical competency.

GEOGRAPHY COURSES

GEOG 3137: Global Geography

Analysis of physical, economic and political patterns of different world regions.

GEOG 4030: Geography of the United States and Canada

Analysis of the interrelationships among physical, cultural, economic and political patterns of the United States and Canada including the State of Texas.

GEOG 4031: Urban Geography

Examination of the interrelationships among physical geography and urbanization, the internal land utilization of cities, urban historical geography and central place theory.

GEOG 4032: Geography of Latin America

Analysis of the physical, cultural, economic and political patterns of Latin America and its relationship to other world regions.

GEOG 4033: Geography of Texas

Analysis of the diverse cultural, economic, environmental and political patterns of Texas. Exploration of the state's regional characteristics and of the spatial relationships with areas outside the state.

GEOG 4034: Principles of Map Reading and Interpretation

A wide variety of maps including cognitive, thematic, topographic, weather and computer generated (GIS) maps are surveyed from the points of view of their interpretations and applications. Attention will be directed also to the history of cartography, the interpretation of air photos and NASA images and statistical graphs. No drafting background or artistic ability needed.

GEOG 4131: Historical Geography

An introduction to historical geography as a subfield of geography with an emphasis on the evolving patterns of land use and settlement in the United States from the pre-colonial period to the present.

GEOG 4132: Human Geography

Stresses the importance of human/environment relationships to a global society. Focuses on the world distribution of natural and human resources as they interrelate and provide character to places.

GEOG 4133: Modern Physical Geography

An identification of the geographical dimensions of ecosystems and earth's physical characteristics as it relates to the process, distribution patterns and implications for humans.

GEOG 4134: Geographic Concepts and Skills

Geographic concepts and skills which are connected with the new social studies curriculum and the appropriate teaching models, strategies and assessment.

Prerequisites: GEOG 3137, GEOG 4132 and GEOG 4133.

GEOG 4135: Political Geography

The interrelationship between political activities and spatial distributions of world regions. Topics include the concept of state, political core regions, international spheres of influence and confrontations, boundaries and contemporary issues and problems.

GEOG 4136: Economic Geography

An analysis of the world distribution of fundamental occupations and commodities.

GEOG 4231: Fundamentals of Geographic Information Systems

An interdisciplinary introduction to the fundamentals of GIS as a method of organizing, displaying and analyzing spatial data. The course also provides an introduction to basic cartographic conventions.

GEOG 4232: Problems in Geographic Information Systems

A course designed specifically for advanced GIS students who will identify, interpret, analyze and evaluate a geographical problem.

Prerequisites: GEOG 3137, GEOG 4132 and GEOG 4133.

GEOG 4233: Advanced Geographic Information Systems

Analytical aspects of spatial data, analysis and modeling. Theoretical and applied aspects are examined through a series of practical exercises and assignments.

Prerequisites: GEOG 3137, GEOG 4132 and GEOG 4133.

GEOG 4839: Independent Studies in Geography

Prerequisites: Approval of instructor and Associate Dean.

GEOG 4931: Selected Topics in Geography

Identified by specific title each time course is offered.

GEOLOGY COURSES

(*After the title denotes courses required for any certification in Earth Science).

*Pending Coordinating Board approval

GEOL 3034: Fundamentals of Planetary Geology*

Study of the origins and evolution of Earth, Mercury, Venus, Mars and the Moon. Physical processes essential to understanding geology are stressed. Laboratory exercises included. Suitable for non-majors.

GEOL 3035: Fundamentals of Earth Science*

Study of basic physical and chemical processes that form the ocean-atmospheric system. Natural and anthropogenic factors that affect global climate change are also studied. Suitable for non-majors.

GEOL 3037: Introduction to Geographical Information Systems

Fundamentals of Geographical Information System (GIS), including principles and products of GIS. Hardware, software, data and various applications are covered. Hands-on, in-class laboratories, using ArcView are an integral part of the course.

GEOL 3137: Mineralogy and Petrology

Formation, identification and geologic and economic significance of minerals and igneous, metamorphic and sedimentary rocks. Laboratory exercises included.

Prerequisites: GEOL 3034 or equivalent and inorganic chemistry.

GEOL 3333: Environmental Geology*

Relationships between human activities and the geological environment. Includes study of natural hazards, natural resources and waste disposal in the geologic environment. Suitable for non-majors.

GEOL 3631: Photogeology

Application of aerial photography including shuttle, to the geologic environment.

Prerequisites: GEOL 3034, 4234 and 4222.

GEOL 4011: Laboratory for Earth Science*

Laboratory exercises which investigate the principles of geology, oceanography, meteorology and astronomy.

Prerequisites: GEOL 3035, 4234, 4222.

GEOL 4131: Geology of Texas

Geological evolution of Texas including physiographic provinces, landforms and subsurface structure.

Prerequisite: GEOL 3034 or equivalent.

GEOL 4222: Laboratory for Geomorphology*

Corequisite: GEOL 4234. Laboratory exercises focusing on the identification and evolution of landforms along with concepts of geologic and topographic mapping.

GEOL 4233: Soils in the Environment

Study of the environmental aspects of soils including expansive soils, clay minerals, soil contamination and subsurface pathways for pollutants. Laboratory and fieldwork included.

Prerequisite: Chemistry.

GEOL 4234: Geomorphology

Corequisite: GEOL 4222. Origin and evolution of landforms; geomorphic cycles, physiographic provinces, application of maps, aerial photographs and quantitative methods to geomorphology. Laboratory exercises included.

Prerequisite: GEOL 3034 or equivalent.

GEOL 4235: Sedimentation and Stratigraphy

Origins, depositional environments and internal structures of sedimentary rocks. Principles of stratigraphy and bio-stratigraphy, evolution of modern stratigraphic nomenclature. Fields trips required.

Prerequisite: GEOL 3034 or equivalent.

GEOL 4236: Oceanography

The course emphasizes the application of geologic principles to the study of the marine environment and associated physical, chemical and biological processes. Topics covered include coastal processes, ocean resources, ocean management and human interaction with oceans.

Prerequisite: GEOL 3035 or equivalent.

***GEOL 4237: Natural Disasters**

This course studies the topics of mass wasting, flooding, earthquakes, hurricanes and others, and evaluates various natural disaster data and statistics. It provides a forum to discuss, describe and improve our understanding of human interactions with the physical environment.

GEOL 4335: Advanced Gis

Course emphasizes project design, advanced query techniques and cartographic output. Topics covered include importing and exporting datasets and graphic files, data classification methods and geographic analysis.

Prerequisite: GEOL 3037 or equivalent.

GEOL 4531: Hydrogeology

Comprehensive study of hydraulic characteristics of soil, rocks, aquifers, rivers and lakes with application to environmental and water resource planning concerns. Topics covered include hydrological cycles, aquifer testing, contaminant transports in various geological media, water resources management and others. Laboratory exercises included.

Prerequisite: GEOL 3035 or equivalent.

***GEOL 4536: Soil and Groundwater Remediation**

Chemical, biological, geological principles and applications of various remediation techniques used to clean up contaminated soils and groundwater. Prerequisite: CHEM 3333.

GEOL 4819, 4839: Independent Study in Geology

Prerequisites: Approval of instructor, chair and associate dean

GEOL 4931: Selected Topics in Geology

Identified by specific title each time course is offered.

HEALTH COURSES

HLTH 3031: Health, Emergency Care and First Aid

Emergency care for victims of sudden illness or injury; etiology of accidents; current safety concerns and practices. Basic Red Cross and CPR competencies.

HLTH 3135: Health Promotion Programs

The purposes, methods and objectives of health promotion programs in business and industry.

HLTH 3136: Applied Kinesiology

The study of functional anatomy with relevance to the kinesiology of exercise, exercise movements and sports participation.

HLTH 3739: Undergraduate Practicum

Ten hours of supervised work experience each week in an approved exercise testing laboratory.

Prerequisites: Completion of or concurrent enrollment in HLTH 4031, HLTH 4032, HLTH 4034, HLTH 4035.

HLTH 4031: Physiology of Exercise

Study of the physiological bases of exercise with emphasis on the adaptation of the systems of the body to stress.

HLTH 4032: Biomechanics

Biomechanical analysis of human motion based on anatomical, physiological and mechanical principles. Role of mechanics in human performance and muscle skeletal injuries.

HLTH 4033: Nutrition, Fitness and Weight Control

Study of the relationship among nutrition, exercise and weight control and their role in health and performance. Techniques for dietary analysis.

HLTH 4034: Principles of Physical Fitness

Role of exercise in the development of health and fitness. Techniques for exercise prescription, injury prevention, strength, cardiovascular endurance and flexibility. Laboratory participation required.

HLTH 4035: Seminar in Sports Medicine

Approaches to injury prevention by conditioning and utilization of proper equipment. Diagnosis and rehabilitation of common sports injuries. Laboratory exercises required. (Crosslisted with HLTH 6032).

HLTH 4036: Health Psychology

The biopsychosocial approach to health, illness and medical care with special attention given to health problems and issues having a major behavioral component including stress.

HLTH 4037: Peak Performance

How to improve performance by enhancing strength, flexibility, speed, power, agility and coordination. Varying content. May be repeated for credit with permission of instructor.

HLTH 4038: Resistive Exercise: Theory and Practice

Laboratory and lecture activities relating to appropriate training techniques for traditional, Olympic and rehabilitative strength exercises. The development of advanced periodization models.

HLTH 4334: Women's Health

Survey of current issues in Women's health and fitness using a life-span perspective. "Women's Studies Course."

HLTH 4739: Internship

Work related learning experience in the application of exercise health promotion programs to teaching, clinical or research activities. Permission of instructor required.

Prerequisites: Completion of or concurrent enrollment in HLTH 3739, HLTH 4031, HLTH 4032, HLTH 4034, HLTH 4035.

HLTH 4839: Independent Study in Health

Individual projects and activities in development of skills related to health.

Prerequisite: Approval of independent study director.

HLTH 4931: Selected Topics in Health

Identified by specific title each time course is offered.

HEALTHCARE ADMINISTRATION COURSES

HADM 3131: Foundations of Healthcare Administration Leadership

The administration of health care services and basic principles of organization for patient care including financial, manpower and systems development and control considerations in meeting health requirements at community, state, regional and national levels. This course is also an examination of leadership in healthcare administration.

HADM 3232: Financial Dimensions of Healthcare Administration I

This course is designed to teach the student the ability to understand and analyze the financial performance of healthcare organizations and various techniques associated with financial decisions required in the operation of various healthcare entities. Also, the student shall learn the various aspects of finance which determines the financial results of a healthcare organization.

HADM 3333: Healthcare Economics

The purpose of this course is to familiarize students with the terminology and theory of health economics and to apply these tools to current issues in health policy and healthcare management. Emphasis will be placed on reading and analyzing recent articles in journals and newspapers that relate to health economics.

HADM 3531: Physician Group Practice Management

Acquaints the student with the management issues of physician group practice including insurance billing, personnel management, marketing, patient relations, financial management, venture planning, risk management, retirement planning, physician agreements, practice valuation, managed care, Medicare/Medicaid and legal/tax/professional liability.

Prerequisite: HADM 3131 or equivalent.

HADM 4132: Healthcare Planning and Marketing

A review of concepts of planning and marketing and their application to the delivery of health care, assessment of community health needs and resources planning in an ambulatory or clinical environment.

Prerequisites: HADM 3131 and MKTG 3031, or equivalents.

HADM 4133: Health Policy

Analysis of health policymaking, health policy and contemporary issues in health policy with emphasis on the U.S.

HADM 4136: Medical Reimbursement

Acquaints the student with medical terminology, procedure coding, diagnosis coding, medical management and documentation.

Prerequisite: HADM 3131 or equivalent.

HADM 4137: Healthcare Ethics, Values, and Social Responsibilities

This course provides the student exposure to ethical issues in healthcare administration as well as business ethics, biomedical and research ethical issues, services to be offered, and distribution and allocation of resources. Additionally, this course will address important ethical issues and problems facing the U.S. health system.

HADM 4138: Managed Care

Acquaints the student with managed care terminology, contracting for providers and payors, utilization review, case management, direct contracting, benefits structuring and organization structure.

Prerequisite: HADM 3131 or equivalent.

HADM 4236: Hospital Operations

Concepts and methods needed to operate in a hospital. It will also provide an understanding of the impact of licensing, regulation, finance and billing, supply, operation, the different professions, risk management, compliance, engineering and physical plant, and labor relations activities in healthcare institutions, with an emphasis on organization, effectiveness, productivity, and profitability.

HADM 4332: Legal Dimensions of Healthcare Administration

Legal aspects of the doctor-patient-nurse-other health professional relationships; individual, corporate and institutional liability and responsibility.

Prerequisite: HADM 3531 or equivalent.

HADM 4431: Human Resources in Healthcare Administration

Concepts and methods needed to plan, forecast, recruit, train, develop, maintain, and evaluate health manpower.

HADM 4432: Introduction to Long Term Care Administration

To develop an understanding of the Long-Term Care Industry by exploring industry trends, management strategies, governance and market influences and organizational development.

HADM 4433: Introduction to Public Health

Provides the student a comprehensive introduction to the essential concepts, values, principles, and practice of public health and the relationship of public health to the complex U.S. health care delivery system.

Familiarizes the student with public health practice in a number of settings including government, private sector, and community organizations. Addresses important health issues and problems facing the US public health system.

HADM 4531: Financial Dimensions of Healthcare Administration II

Analysis of the financial framework within which health care organizations and facilities operate; sources and flow of funds, cost information systems and capital budgeting.

Prerequisites: FINC 3331 and HADM 3131, or equivalents.

HADM 4739: Internship in Healthcare Administration

Supervised field experience with an approved public or private health facility or physician clinic.

Prerequisites: HADM 4136 and approval of program director.

HADM 4839: Independent Studies in Healthcare Administration

Independent directed study in Healthcare Administration.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

HADM 4931: Selected Topics in Healthcare Administration

Identified by specific title each time course is offered.

HISTORY COURSES

Note: 1. Courses marked with (+) may be taken to satisfy the statutory American History requirement. 2. Art History courses are listed under ARTS.

HIST 3230: Ancient World

Surveys the development of early civilizations from Mesopotamia and Egypt through Greece and the fall of Rome in the West.

HIST 3231: Ancient Greece

A study of classical Greece with particular attention to cultural, social and political developments.

HIST 3232: Ancient Rome

Intellectual, social, political and cultural developments in the history of the ancient Roman Republic and Empire (c.300 B.C.E. to 476 C.E.).

HIST 3331: Medieval Europe

The birth and first flowering of a truly European civilization urban society and an agricultural economy.

HIST 3332: Renaissance and Reformation

Economic, political, intellectual and religious developments in Europe from 1300 to 1600.

HIST 3334: Studies in Native American History

History of indigenous peoples of the Americas from the fifteenth through the twentieth centuries, especially of the contacts between these people and European culture and societies and of their relations with colonial and national societies. Areas and cultures will vary; may be repeated for credit with permission of instructor.

HIST+ 4033: Studies in African American History

Issues and developments in African American history from 1619 to present. Topics vary; may be repeated for credit with permission of instructor.

HIST+ 4035: Texas and the Borderlands

Survey of the history of Texas and the southwestern borderlands from the beginning of European colonization to the present.

HIST+ 4036: Colonial America

Examines the genesis of American values by tracing the development of colonial institutions such as the family, the church, the school and slavery.

HIST+ 4037: The New American Nation

Emergence and development of a distinctly American society, politics and national identity.

HIST+ 4038: Antebellum America

A study of the United States from 1820 to 1860 with special emphasis on social and political developments.

HIST+ 4039: The U.S. West

Survey of the West as both historical place and site of national myth from first contact between European and Native American peoples to present.

HIST+ 4133: Civil War and Reconstruction

The experience of Americans from the 1840s to the 1870s; their attempts to reconcile sectional and national identities.

HIST+ 4134: Growth of Industrial America

Early growth of industrial capitalism and America's social and political response to it from the Civil War to World War I.

HIST+ 4135: U.S., 1919-1945

Focus on modernization of life in U.S. and survey of crises of Great Depression and World War II.

HIST+ 4136: U.S. Since 1945

Focus on U.S. Cold War political history and domestic upheavals of 1960s and 1970s.

HIST 4137: Studies in Latin American History

Surveys important issues and regions in Latin America. Variable content. May be repeated for credit with permission of instructor.

HIST 4138: Colonial Latin America

Examines history of Latin America during period of indigenous self-rule and colonial period.

HIST 4139: Modern Latin America

Survey of development of Latin America from 19th century to the present.

HIST 4230: History of Mexico

Survey of history of Mexico from Spanish conquest to the present.

HIST+ 4234: U.S. Labor History

Major changes in the U.S. economy, production technology and social movements rooted in workplaces from 19th century to the present.

HIST+ 4236: Reel America I

Analysis of films and historical materials from the first half of the 20th century. Focus on cultural and social history; may include Women's Studies content.

HIST+ 4237: Reel America II

Analysis of films and historical material since 1945. Focus on cultural and social history. May include Women's Studies content.

HIST+ 4238: Women in American History

The psychological, social and economic forces that contributed to the subordinate status of women in American society and an examination of the feminist response. "Women Studies Course."

HIST 4239: The Vietnam War in Film

Examines the Vietnam War in US film. Consists of class discussion drawn from film, memoirs, popular culture and historical background. Traces intersection of fact and fiction, following the Vietnam War.

HIST 4330: History of Feminism

A survey of the development of those reform movements and individuals who shaped the growth of feminism in the 19th and 20th century U.S. and the world. May focus on a particular aspect of historical feminism. "Women Studies Course." Topic may vary; may be repeated for credit with instructor's consent.

HIST 4333: Studies in Non-Western History

Surveys selected periods and areas in Asia, the Middle East or Africa. Variable content. May be repeated for credit with permission of instructor.

HIST 4334: Revolutionary Europe

The Scientific Revolution and Enlightenment tradition, the French and Industrial Revolutions; the birth of ideologies and state building.

HIST 4336: Modern Europe

An examination of the major developments within European culture, politics, society and thought since 1815.

HIST 4338: Modern Britain

Britain since the Industrial Revolution: the Empire, Victorian and twentieth century society.

HIST 4339: Holocaust: History, Literature and Film

Examination of Holocaust from historical, psychological and sociological perspectives.

HIST 4438: Women in European History

The psychological, social and economic forces that contributed to the subordinate status of women in European society and an examination of feminist response. "Women Studies Course."

HIST 4832: Studies in the History of War

Explores nature of combat and home front during war and societal change and cultural remembrance afterward. Course may focus on single major war. Topics vary; may be repeated for credit with permission of instructor.

HIST 4839: Independent Study in History

Independent study in history.

Prerequisite: Approval of independent study director.

HIST 4931: Selected Topics in History

Identified by specific title each time course is offered.

HUMANITIES COURSES

*Pending Coordinating Board approval

HUMN 3031: Basic Texts in Western Tradition I

The synthesis and continuity of Biblical, Greek, Roman and Medieval European roots of Western culture to the Reformation, Hebrew Testament, Homer, Plato, Aristotle, Virgil, New Testament, St. Augustine, Dante, Aquinas, Luther and Calvin.

HUMN 3033: Basic Texts in Western Tradition II

Major dynamics of Western culture since the Renaissance. Reformation and the rise of science. Authors such as Galileo, Luther, Shakespeare, Voltaire, Darwin, Marx, Freud and Sartre.

HUMN 3034: Arts and the Child

Exploration of visual art, theatre, music and dance as they relate to children's aesthetic growth.

HUMN 3035: Basic Texts III: Non-Western Tradition

Touchstones of literature and art from non-western cultures such as those of Asia, Africa, the Middle East and Native America.

HUMN 4038: Introduction to Women's Studies

General information on the wide range of issues related to the status of women. "Women's Studies Course." (Crosslisted with PSYC 4038, SOCI 4038, WMST 4038).

HUMN 4236: Studies in Film

Overview of film texts from a topical, generic or historical perspective. Includes introduction to theory. Topics vary. May be repeated for credit with instructor permission.

HUMN 4732: Seminar in Women's Studies

An advanced course in Women's Studies, designed to acquaint the student with contemporary issues in feminist scholarship across the disciplines. (Crosslisted with HUMN 5732, PSYC 4732, PSYC 5732).

Prerequisite: Any previous Women's Studies course.

***HUMN 4735: Senior Seminar**

Prerequisites: 24 credit hours of course work at UHCL including WRIT 3037 and two of the following courses: HUMN 3031, HUMN 3033, or HUMN 3035.

Required capstone for Humanities majors. Encourages students to synthesize their liberal arts experiences. Seminar focuses interdisciplinary studies around a single theme or topic. Topics vary. May be repeated for credit.

HUMN 4739: Internship

A supervised onsite internship in an approved setting. Permission of instructor required.

HUMN 4839: Independent Study in Humanities

Independent study in Humanities.

Prerequisite: Approval of independent study director.

HUMN 4915: Cooperative Education

Educational paid work assignment by a student in the field of his or her career interest and course of study. Academic supervision and a report required.

HUMN 4931: Selected Topics in Humanities

Identified by a specific title each time the course is offered.

INDUSTRIAL HYGIENE AND SAFETY COURSES

*Pending Coordinating Board approval

INDH 3034: Safety, Health and Liability in Schools

Safety and health principles and practice as applied to schools. Includes hazard recognition and control in field, laboratory and classroom environments, emergency response, regulations, guidelines and teacher liability. Science majors may use only as an unrestricted elective.

INDH 3131: Industrial Health and Hygiene

General review of industrial health. Basic principles of industrial hygiene investigation. Physical and chemical hazards in the industrial workplace. Workplace environmental control.

INDH 3133: Laboratory Safety

Basic principles of industrial safety as applied to laboratory operations. Review and control of hazards associated with the industrial, academic, and research laboratories will be discussed. Laboratory safety concepts and safety program development will be presented.

INDH 3332: Principles of Professional Safety

Includes how to organize and administer effective safety programs. Looks at future trends for business and industry and what changes the safety professional must keep abreast of in economic, environmental, regulatory and technical advances affecting their field.

INDH 3333: Environmental Safety and Health

Principles and concepts of environmental health and safety including essential information related to the recognition, evaluation and control of occupational and environmental hazards.

INDH 3430: Techniques of Safety Engineering and Analysis

Practical application of basic engineering skills in the identification, evaluation and control of industrial hazards. Emphasis is on effective solution to safety design and operational problems and application of the Safety Precedence Sequence in the selection of hazard control measures.

INDH 4131: Noise and Hearing Conservation

Anatomy and physiology of the human ear; sound propagation and the mechanism of hearing loss; federal and state noise regulations; noise measurement and analysis; establishing a hearing conservation and noise control program in industry.

INDH 4133: Industrial Ventilation

General principles of ventilation, dilution ventilation, comfort ventilation; heat-cold stress control, hood design, air contaminant control; testing ventilation systems and industrial ventilation guidelines.

INDH 4134: Personal Protective Equipment

Basic design and use of commonly used protective equipment in industry with emphasis on respiratory protection principles including approaches to training and instruction for proper usage.

INDH 4135: Industrial Radiological Health

Non-calculus based presentation of the principles of ionizing radiation and non-ionizing intended to provide basic competency in radiation protection through an understanding of the nature, uses, health effects, measurement and control of radiation.

INDH 4136: System Safety & Accident Investigation

The course handles applications of system safety techniques in the industrial work environment and accident investigation theory and practice. Review of loss control management concepts, risk management, S & H training acceptance of risk, identification and initiation of corrective actions, pre-accident planning, emergency response, collection of evidence, analysis of information, investigation, organization, management and report writing.

INDH 4231: Ergonomics, Human Factors and Workspace Design

Ergonomics. Use of biological and engineering principles to design a safe and efficient workplace environment including biomechanics, anthropometry, heat and cold stress, vibration, pressure, illumination, work station and tool design and the presentation of visual, auditory and other sensory forms of information.

INDH 4232: Industrial Hygiene Sampling and Analysis

Sampling and analysis for common occupational hazards including principles of calibration, laboratory and field management techniques. Laboratory included.

***INDH 4233: Hazardous Materials and Emergency Management**

This course studies hazardous material storage, handling, effects and use as well as the most effective ways to respond to hurricanes, terrorist attacks and/or hazmat spills. It provides information to students as to how to deal with officials, how to establish command & control, coordinate communications, evacuate people and perform clean up. The course also includes emergency management, preparedness, local, state and federal government emergency management; as well as disaster relief organizations.

***INDH 4234: Fire Safety Engineering**

This course studies fire science, causes, prevention, inspection, etc. This includes purpose; definition; fire prevention activities, extinguishment, detection, hazards, fire behavior, fire causes, types of construction including structural features, flame spread, occupancy and fire load; inspection techniques; conducting inspections.

INDH 4333: Construction and General Industry Safety

This covers safety and health principles in the construction and general industries as well as OSHA policies, procedures and standards. Special emphasis is placed on those areas that are most hazardous in construction and general industry.

INDH 4431: Advanced Studies in Industrial Hygiene and Safety

Approval of faculty advisor and associate dean. The selection, study and formal presentation of topics in Industrial Hygiene and Safety based on advanced field, laboratory, library research study, supervised work experience in an approved industrial firm or government agency or educational work assignments. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit.

INDH 4739: Internship in Industrial Hygiene and Safety

Supervised work experience in an approved industrial firm or government agency. Written and oral reports required.

Prerequisites: 15 hours of upper-level credit; Approval of faculty advisor and associate dean.

INDH 4839: Independent Study in Industrial Hygiene and Safety

Prerequisites: Approval of instructor, chair and associate dean.

INDH 4915: Cooperative Education Work Term

Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the Cooperative Education Catalog description.)

Prerequisites: Approved Candidate Plan of Study, completed cooperative education file and approval of associate dean and Director of Cooperative Education.

INDH 4931: Selected Topics in Industrial Hygiene and Safety

Identified by specific title each time course is offered.

INFORMATION SYSTEMS ADMINISTRATION AND MANAGEMENT COURSES

ISAM 3033: Information Systems for Management

Fundamentals of information systems to assist management in the operation and control of complex organizations.

ISAM 3034: Introduction to Business Programming

The course is a study of fundamental programming concepts used in the design, development, and management of business application programs; it includes program design methodologies, control techniques, and the implementation of programs using a high-level, business-oriented language.

ISAM 3331: Introduction to Business Databases

Prerequisite/co-requisite: ISAM 3033 or equivalent. Brief overview of database concepts (hierarchical, network, relational, normalization, etc.) used in the design of business databases; use, control, management and manipulation of simple business databases (such as sales, inventory, customer, employee, general ledger, etc.) with a database management system. Includes numerous hands-on class projects.

ISAM 3332: Applications Programming With Visual Basic

This course is designed to allow students to learn how to develop windows applications using Microsoft's latest most popular programming language and server technologies. Microsoft's latest Visual Basic, ADO (ActiveX Data Objects) and Microsoft SQL Server are used to help students master the fundamentals required to create programs from scratch. This course will introduce students to the important Graphical User Interface Concepts and programming constructs (Windows Forms, Labels, Textboxes, Buttons, Mouse-Event Handling, Menus, ListBoxes, ComboBoxes, Control Structures, Procedures, Arrays and Exception Handling), object-oriented (Classes, Inheritance and Polymorphism) and Database connectivity features of Visual Basic.

ISAM 4331: Internet Applications in Business

The role of Internet, Intranets, and Internet tools in business; design and development of business-oriented Internet applications using HTML, scripting languages and HTML-based automated tools.

ISAM 4332: Advanced Internet Applications in Business

An advanced-level course on Internet applications development. It offers programming knowledge of the Web using latest tools and technologies. Topics include: client-side scripts, server-side scripts, Web forms processing, XML document processing, DTD and EHTML, ASP.NET and HTML controls, Web-Database applications, etc. The course is mainly focused on hands-on projects.

ISAM 4632: Advanced Business Databases

Use, management and manipulation of advanced business databases (such as sales, inventory, customer, employee, general ledger, etc.) with a complex database management systems. Includes numerous hands-on class projects.

Prerequisite: ISAM 3331 or equivalent.

ISAM 4635: Analysis and Design of Business Systems

Introduction to systems concepts, systems analysis and design techniques, methods used to analyze information systems requirements of business systems; methods used to design, evaluate and implement business systems. Includes numerous hands-on class projects.

Prerequisite: ISAM 3331 or equivalent.

ISAM 4636: Introduction to Network Management

Brief overview of network hardware, protocols and installation; management of network users and groups; use, installation, control and security of network-based business applications; management of network printing. Includes numerous hands-on class projects.

Prerequisite: ISAM 3033 or equivalent or senior standing.

ISAM 4637: Advanced Network Protocols

This course covers network technology topics such as VLANs, trunking technologies, VLAN trunking protocols, link aggregation control protocols, spanning tree protocol; principles of address management using ARP, RARP, BOOTP and DHCP protocols; different routing protocols such as RIP and IGRP, EIGRP in vector distance category protocols and OSPF in link state protocols; application layer protocols such as HTTP, DNS, SMTP, POP, IMAP, SNMP, FTP and their implementations on Windows and Unix platforms; and computer network security topics such as VPNs, NAT/PAT and IPSEC. The course includes an extensive hands-on component.

Prerequisite: ISAM 4636 or equivalent.

ISAM 4739: Internship in Management Information Systems

Supervised work experience related to management information systems with an approved business, industrial firm, or governmental agency; written and oral reports as required.

Prerequisite: Bachelor's degree candidacy, completion of at least 18 hours of BS in MIS required computing courses, and approval of academic advisor, faculty chair and associate dean.

ISAM 4839: Independent Studies in Information Systems

Independent directed study in Information Systems.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

ISAM 4931: Selected Topics in Information Systems

Identified by specific title each time course is offered.

INFORMATION TECHNOLOGY COURSES

*Pending Coordinating Board approval

***ITEC 4133: Emerging Information Technology**

An introduction to the key trends, assessment and usage of emerging information technology in terms of technical architecture, infrastructure and application. Laboratory instruction.

Prerequisite: CINF 4231 or approval of instructor.

***ITEC 4335: Database Development and Administration**

An introduction to the design, implementation and use of relational database in solving problems and an introduction to general issues in database administration. Laboratory instruction.

Prerequisite: A programming language.

***ITEC 4635: Network Administration**

This course will examine fundamental Linux and TCP/IP networking concepts, learn to use remote administration services and tools, configure routers, DHCP and other network protocols and learn basic network troubleshooting tools and techniques. Prerequisites: CSCI 4634, CINF 4634.

***ITEC 4831: Computer Forensics**

Introduction to the topics of computer crime and computer forensics. Students will learn different aspects of computer crime and ways in which to protect, uncover and understand digital evidence. Students will gain experience using hardware and software tools to perform rudimentary investigations. Laboratory instruction.

***ITEC 4819, 4839: Independent Study in Information Technology**

Approval of instructor, chair and associate dean.

***ITEC 4831: Senior Project in Information Technology**

May be taken only during the final semester before graduation. Registration is restricted to students with an approved Candidate Plan of Study. Students design and implement a solution to a realistic IT project. Emphasis will be on practical experience, professional behavior, ethics and teamwork. Students prepare written reports and give oral presentations. Prerequisite: CINF 4634.

***ITEC 4915: Cooperative Education Work Term**

Approved Candidate Plan of Study, completed cooperative education file and approval of Associate Dean and Director of Cooperative education. Educational paid work assignment by a student in the field of career interest and course of study. A technical report will be required at the end of the semester. (Specific requirements are noted in the cooperative Education Catalog description).

INSTRUCTIONAL TECHNOLOGY COURSES

*For definition of "Basic computer literacy" go to <http://soe.uhcl.edu/ComputerLiteracy>.

INST 3133: Survey of Instructional Technologies

Combines hands-on lab assignments and discussions through a student-centered approach. Students work with faculty to identify technology-related learning requirements, learning strategies and assessment criteria based on students' prior skills and interests. Students gain experience in the application of productivity tools, educational software, presentation graphics, multimedia and telecommunication technologies.

Prerequisite: Basic computer literacy*.

INST 4535: elearning

Apply internet knowledge and skills to design and develop learning environments on the Internet. Apply current research-based strategies for effective Web-enhanced learning and the assessment of that learning. Demonstrate safe, legal and healthy use of the Internet.

Prerequisite: Basic computer literacy*.

INST 4537: Multimedia for Instruction

Introduces students to topics of multimedia for the Web. Students will learn how to plan a multimedia Web site and design the user interface. Focus is on five multimedia elements: text, graphics, animation, sound, and video. Participants will design multimedia elements appropriate for integration in online learning environments.

INST 4635: Web Development

Examines the design, development and distribution of electronic documents. Participants will learn the basic components of how Web documents are created, various design approaches for a variety of user-friendly tools for web page development, how to include eye-catching graphics, interactive multimedia components and sophisticated programming in a Web page.

Prerequisite: Basic computer literacy*.

INST 4839: Independent Study in Instructional Technology

Prerequisites: Approval of instructor and Associate Dean.

INST 4931: Selected Topics in Instructional Technology

Identified by title each time course is offered.

LEGAL STUDIES COURSES

LEGL 3037: Legal Writing and Appellate Process

If a student has not completed LEGL 3531, they may be considered for enrollment in this course if they pass a qualifying exam given by the course instructor before enrolling in the course. Principles of legal drafting and case analysis; preparation of legal documents and the rules of appellate process.

Prerequisite: LEGL 3531 is recommended.

LEGL 3133: Introduction to Law and the American Legal System

Overview of the American legal system and the structure of law and legal institutions in the United States.

LEGL 3231: Logic

An investigation of traditional approaches to correct and incorrect reasoning.

LEGL 3432: American System of Trial By Jury

This course provides an analysis of process of trial by jury from the initial examination of the jury panel through closing arguments. Emphasis will be placed on the preparation of a case to be tried in small claims court.

LEGL 3517: Internet Legal Research

This course concentrates on Web browsers and Web search and indexing tools and will focus on the content of primary and secondary materials on the Internet.

LEGL 3531: Legal Research

The law library, research, briefing and case preparation through the use of digests, encyclopedias and other research sources.

LEGL 3533: Introduction to the Texas Rules of Civil Procedure

This course will cover the rules of civil procedure that govern the drafting of the plaintiff's original petition through the drafting of discovery.

LEGL 4532: Family Law and Procedure

Study of the fundamental principles of the law of family relations, divorce, adoption, custody, marriage, juvenile, etc.; includes analysis of family law procedures, appropriate forms and pleadings.

LEGL 4533: Dispute Resolution

Analysis of the various methods of resolving disputes between citizens outside the traditional adversarial system.

LEGL 4534: Property Transactions

Study of the fundamental principles and procedures of law related to the acquisition, control and disposition of property.

LEGL 4535: Criminal Law

This course will deal with the substantive law of crime and punishment.

LEGL 4536: Torts

Study of the principles of the law of torts focusing on learning the causes of action, the elements of each and how to recognize the causes of action given certain facts.

LEGL 4537: Criminal Procedure

This course will deal with the law of arrest through trial and conviction and the constitutional protection involved in the process.

LEGL 4538: Business Transactions

Analysis of the fundamental principles and procedures related to incorporation, partnership, leases, contracts, bonding, negotiable instruments, sales, mortgage liens, insurance, bankruptcy, etc.

LEGL 4539: Estate Planning and Administration

This course is designed to introduce the broad subject of estate planning including basic will preparation, and the drafting of statutory form powers of attorney, medical directives, and medical powers of attorney. The various forms of estate administration in Texas will be studied.

LEGL 4631: Texas Consumer Law

An analysis of the principle consumer protection statutes in Texas and related federal laws. Special emphasis will be placed on The Texas Deceptive Trade Practices Act.

LEGL 4632: Elder Law

This course will focus on a variety of legal issues related to the aging of America. The Texas law of guardianship will be reviewed in depth including the state specific certification requirements to become a registered professional guardian.

LEGL 4633: Information and Document Assembly Systems for the Legal Environment

Fundamentals of the operation of document assembly programs using Pro-Doc.

LEGL 4635: Mock Trial

Students enrolled in this course are required to prepare for and compete in the undergraduate Annual Intercollegiate Mock Trial Competition sponsored by the American Mock Trial Association.
Prerequisite: LEGL 3432 or equivalent.

LEGL 4636: Mock Mediation

Students enrolled in this course are required to prepare for and compete in the undergraduate Annual Intercollegiate Mediation Tournament sponsored by the American Mock Trial Association.
Prerequisite: LEGL 4533 or equivalent.

LEGL 4717; 4737: State Bar - Cle

Students enrolled in this course must register for and attend at their own expense a State Bar of Texas sponsored or sanctioned continuing legal education program approved by the course instructor. Research and writing assignments must be completed following attendance at the approved CLE course.

LEGL 4739: Internship in Legal Studies

Supervised field experience with an approved agency or office. Written and oral reports required.
Prerequisite: Approval of faculty advisor and program director.

LEGL 4819; 4839: Independent Studies in Legal Studies

(Variable credit, 1 or 3 semester hours.) Independent directed study in Legal Studies.
Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

LEGL 4931: Selected Topics in Legal Studies

Identified by specific title each time course is offered.

LEGL 5131: Legal Concepts for the Business Professional

This course examines the legal implications of business transactions and will be of particular value to students seeking degrees in accounting, finance and business. Explores legal issues emphasized by the AICPA and other national professional organizations.

LEGL 5931: Research Topics in Legal Studies
Identified by specific title each time course is offered.

LITERACY, LANGUAGE AND LIBRARY SCIENCE COURSES

LLS 4131: Survey of Reading

Theories and approaches to teaching reading from emergent to proficient reading including word recognition skills, phonemic awareness, vocabulary development, comprehension, materials and methods for structuring of reading programs.

LLS 4132: Literacy Issues of Secondary Students

Theories and approaches for teaching reading in intermediate and high school. Field experiences required.

LLS 4133: Corrective and Remedial Reading

Study of neurophysiology and psychology in treating disabled readers, including dyslexia and related disorders. Evaluation of strategies of correction and remediation. Field experiences required.

Prerequisites: Six hours of LLS and concurrent enrollment in LLS 4332.

LLS 4332: Diagnostic and Prescriptive Reading

Diagnostic evaluation of readers; remedial approaches to vocabulary, comprehension, word identification, phonemic awareness and fluency. Field experiences required.

Prerequisites: Six hours of LLS and concurrent enrollment in LLS 4133.

LLS 4434: Reading & Writing for EC-6

Application of theories and strategies for teaching the language arts for EC-6. Field experiences required.

LLS 4435: Survey of Children's Literature

Survey of literature for children focusing on titles appropriate for grades EC-8 students.

LLS 4436: Teaching Language Arts in the 4-8 Classroom

Application of theories and strategies for teaching the language arts for 4-8 grade students. Field experiences required.

LLS 4437: Multicultural Literature

Survey of multicultural literature for children focusing on titles which reflect the diverse cultures and exceptionalities in the EC-8 classroom.

LLS 4438: Selecting Literature for the Very Young Child

Survey of literature for very young children focusing on titles appropriate for children from birth to age five.

LLS 4531: Reading in Content Subjects

Survey of current reading and writing development in content subjects.

LLS 4532: Young Adult Literature and Reading

Selection and use of literature for young adults, focusing on titles appropriate for students in grades 8-12.

LLS 4634: Methods in Secondary English/Language Arts

Implementation of instructional plans and teaching strategies. Review of current research, theories and exemplary practices of teaching secondary English/Language Arts. Field experiences required.

Prerequisite: Admission to Teacher Education.

LLS 4739: Practicum in Clinical Reading

Practices of diagnosing reading difficulties, grouping techniques and clinical evaluations; 3 hours each week in a reading laboratory setting using selected materials and reading aids. Field experiences required.

Prerequisites: 12 hours of Reading course work including LLS 4133 and LLS 4332 or equivalent and approval of instructor and Associate Dean.

LLS 4839: Independent Study in Reading

Prerequisites: Approval of instructor and Associate Dean.

LLS 4931: Selected Topics in Reading

Identified by specific title each time course is offered.

LITERATURE COURSES

Please note: Additional writing courses are listed under COMMUNICATION.

LITR 3334: Mythology

Great myths and their reworkings in literature.

LITR 3631: Shakespeare

Shakespeare's major plays and their production in the theatre of the English Renaissance.

LITR 3632: 16th and 17th Century English Literature

Selections from writers such as Wyatt, Marlowe, Spenser, Jonson, Donne, Herrick, Crashaw, Vaughan, Milton and Marvell. (Shakespeare not included).

LITR 3633: Restoration and 18th Century Literature

Although mainly British, selections will be concentrated generically: poetic satire (Pope), comedy of manners (Congreve), lyric poetry (Smart), prose satire (Swift), biography (Boswell), novel (Richardson).

LITR 3731: Creative Writing

A practical seminar in writing fiction, poetry or drama. Some theory. Emphasis on critical discussion of participants' work.

LITR 4031: Principles of Composition

Advanced study of the principles of composition with emphasis on grammatical theory and analysis, discourse theory and the cognitive, rhetorical and linguistic aspects of writing; emphasis on recent developments in theory.

LITR 4034: Workshop in Poetics

The language, formal strategy and mechanical techniques of poetry. A practical sense of how poems work. Designed for teachers, readers and writers of poetry.

LITR 4035: Film as Literature

Understanding films through the languages of film (shots, montage, framing, lighting, sound, genre, classical Hollywood and avant-garde). Film interpretation and critique.

LITR 4130: Literary Studies: Genres and Critical Perspectives

Introduction to the close study of literary and dramatic texts and issues affecting interpretation.

LITR 4131: Literary Theory

Theories about the nature of verbal art and the relationship between literature and reality.
Prerequisite: LITR 4130.

LITR 4132: Modern American and English Poetry

Myth and epic, the personal poem, expressionism, neoromanticism; such poets as Yeats, Auden, Stevens and Frost.

LITR 4133: Modern and Contemporary Drama

A century of national and international playwrights from Henrik Ibsen and Anton Chekhov to Sam Shepard and August Wilson; realism, symbolism, expressionism, theatre of the absurd.

LITR 4134: The Modern Novel

Major works of such novelists as Conrad, Joyce, Faulkner, Mann, Garcia-Marquez.

LITR 4135: The American Novel

Focus on development of form, style and theme in American fiction; major and lesser-known novelists over two centuries.

LITR 4231: Early American Literature

Multicultural voices of Native America, Spanish America and African America; early dominant cultures of Puritans and Founding Fathers; spoken traditions, cultural history and emergence of early modern literature.

LITR 4232: The American Renaissance

The Transcendentalists, historical fiction, tragic critiques of America and poetry; writers such as Emerson, Thoreau, Cooper, Hawthorne, Melville, Poe and Whitman.

LITR 4233: American Realism and Naturalism

Literature of social observation and criticism, psychological realism, effect of social and natural science on literary form, literature of American folkways. Authors may include Twain, Wharton, Crane.

LITR 4234: American Literature: Modernism

Literary experimentation, avant-gardes, literature as expression of social and cultural dislocation or as search for order. Authors may include Eliot, Fitzgerald, Faulkner.

LITR 4235: Contemporary American Literature

Readings among the diverse writings of recent decades; topics addressed may include developments in traditional narrative, conformity and counter-culture, postmodernism, the re-imagining of ethnic, gender, or national identity. Authors may include Morrison, Pynchon and Rich.

LITR 4236: The Romantic Movement in English Literature

The major romantic poets and novelists: Blake, Byron, Brontë, Scott and others.

LITR 4237: Victorian Literature

Major Victorian essayists and poets; literary responses to industrialization, empire and class struggle.

LITR 4238: Rise and Development of the English Novel

Representative novelists from the last three centuries: Defoe to Dickens to D. H. Lawrence.

LITR 4331: Contemporary Poetry

Poetry in English after 1950, American or transnational focus; may include such figures as Lowell, Ginsberg, Rich, Heaney, Walcott.

LITR 4332: American Minority Literature

Classic and contemporary texts from America's ethnic and gender minorities: African Americans, Native Americans, Mexican Americans, women and others.

LITR 4333: American Immigrant Literature

America's most fundamental narrative of immigration—the "American Dream" and its variations—told in voices from the Pilgrims through Jewish, European, Asian, Central American and Caribbean writers at turn of twentieth and twenty-first centuries.

LITR 4435: Medieval Literature

Romance, lyric, fabliau, epic, play and story. Selections from such medieval masters as Dante, the Gawain, Tristan and Beowulf poets, Boccaccio and Chrétien de Troyes. Texts will be read in translation.

LITR 4530: Masterpieces of 19th Century European Literature

Revolutionary literary and philosophical works from 19th-century European tradition; includes such writers as Balzac, Flaubert, Nietzsche, Marx, Dostoevski, Austen, Dickens, Blake, Turgenev.

LITR 4531: Masterpieces of 20th Century European Literature

Important 20th-century works which address problems of modern existence, the citizen, the writer. Selections from such writers as Kafka, James, Woolf, Stevens, Freud, Proust, Conrad, Mann.

LITR 4533: Tragedy

The dimensions of tragic experience as expressed in Western literature.

LITR 4534: Comedy

The comic view of the human predicament as seen in writers such as Aristophanes, Moliere, Wilde and others.

LITR 4535: The Literature of Adolescence

Growing up: variance and continuity in depictions of adolescence by American and other writers.

LITR 4537: Women in Literature

Heroines from Eve to Molly Bloom; literature constructs the female; emphasis on nineteenth and twentieth century works. "Women's Studies Course."

LITR 4538: Literature and Religion

Texts concerning spiritual journeys, religious passion and impact of belief on character. Religions may be western or non-western, world or folk. Genres may range from scriptures to novels, memoirs and poetry. Topics, texts and themes will vary. May be repeated for credit with permission of instructor.

LITR 4631: Chaucer

The art of England's greatest narrative poet: Canterbury Tales, Troilus and Criseyde.

LITR 4632: Literature of the Future

Textual models for literature and human society of the future in a variety of genres, including science fiction, magic, realism, prophecy, postmodern literature and the history of science.

LITR 4819, 4839: Independent Study in Literature

Independent Study in Literature. May be taken for 1 or 3 hours of credit.

Prerequisite: Approval of independent study director.

LITR 4931: Selected Topics in Literature

Identified by specific title each time course is offered.

MANAGEMENT COURSES

MGMT 3031: Management Theory and Practice

Management policies and processes including planning, organizing and controlling; overview of production and functions of organization theory and behavior.

MGMT 3133: Organizational Communication

A study of theories and practices in organizational communication, dissemination of information in organizational settings, effectiveness, relative costs and feedback potential.

Prerequisite: MGMT 3031 or equivalent.

MGMT 3331: Human Resource Management

Problems and practices in human resource management; selection, placement, evaluation, promotion and termination.

Prerequisite: MGMT 3031 or equivalent.

MGMT 3431: Human Resource Planning, Staffing and Selection

Techniques for planning and recruiting human resource needs in the context of organizational requirements. Staffing and selection techniques and practice relative to legal concerns and labor market considerations.

Prerequisite: MGMT 3331 or equivalent.

MGMT 3531: Wage and Salary Administration

Job performance evaluation and development of compensation plans and programs.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4132: Strategic Management

In addition, registration is restricted to students with an approved Candidate Plan of Study. The study of the formulation, implementation and assessment of strategic decisions.

Prerequisites: MGMT 3031, MKTG 3031, FINC 3331 and LAST SEMESTER.

MGMT 4136: Human Resource Management Information Systems

Principles and procedures and contemporary programs used in the development of information systems to aid human resource decision making.

MGMT 4237: Leadership

The course will examine and focus on proven executive leadership best practices across a range of complex organizations.

MGMT 4332: Organizational Structure and Process

Surveys theory and research on the structure of business organizations and processes affecting their management.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4333: Collective Bargaining in the Public Sector

Comparisons and contrasts of collective bargaining in the public and private sectors; the impact of unionization on public administration.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4431: Leadership in a Global Business Environment

The topic of leadership will be explored in the context of the global business environment.

MGMT 4531: Industrial Labor Relations

Collective bargaining processes in American industry; impact of labor management relations on wage and employment levels and on national income.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4533: International Business Management

Managerial considerations in international business operations; government involvement, organizational structure, operating policies and market peculiarities.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4534: Organizational Behavior

Dynamics of organizational behavior in business, interpreted from a behavioral science perspective.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4535: Seminar in International Management

Field experience involving meetings with top management personnel of businesses operating outside the United States. Discussions will center on the economic, cultural, social, legal and other environmental constraints that affect firms in other countries.

MGMT 4536: Organizational Development

Evaluation of change processes and development in organizations; behavioral methodology and the role of the change agent.

Prerequisite: MGMT 4534 or equivalent.

MGMT 4537: Government Budget Planning and Analysis

Application of management, accounting and finance principles to the preparation, analysis and implementation of government budgets; emphasis on state and local levels.

MGMT 4731: Seminar on the Social Responsibility of Business

The changing role of business enterprise in society; influences of government regulatory agencies on social consciousness in the business world.

Prerequisite: MGMT 3031 or equivalent.

MGMT 4739: Internship in Management

Three or six hours of supervised work experience each week in an approved business or industrial firm.

Prerequisites: 15 hours of upper-level credit and approval of program director.

MGMT 4819; 4839: INDEPENDENT STUDIES IN MANAGEMENT

(Variable credit, 1 or 3 semester hours.) Independent directed study in Management.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

MGMT 4931: Selected Topics in Management

Identified by specific title each time course is offered.

MARKETING COURSES

MKTG 3031: Marketing: Creating Value for Customers

Focus is on initiating, building and maintaining mutually beneficial relationships with customers through the strategic use of the marketing mix. Topics include marketing research, market segmentation and targeting, buyer behavior, product development, brand management, promotion, international marketing, e-marketing, and ethical marketing practices.

Prerequisite: Six semester hours of principles of economics.

MKTG 3133: Channel Relationships and Dynamics

Examination of the strategic role of distribution within the overall marketing strategy. Specific managerial and regulatory issues in designing and coordinating industrial distribution channels and channel relationships are discussed.

Prerequisite: MKTG 3031 or equivalent.

MKTG 3134: Business Logistics

An in-depth analysis of logistics and its role within the distribution strategy. The functional components such as inventory control, transportation, warehousing, purchasing, and supply chain management are examined.

Prerequisite: MKTG 3031 or equivalent.

MKTG 3331: Integrated Marketing Communications

Focus is on building relationships between brands and customers through the strategic use of the elements of the marketing communication mix, including advertising, sales promotion, direct marketing, personal selling and public relations.

Prerequisite: MKTG 3031 or equivalent.

MKTG 3332: Professional Selling

A study of the field of professional selling as an integral component of the promotional activities of the organization. Discussions focus on the selling of goods and services to organizational buyers in the context of long-term relationships.

Prerequisite: MKTG 3031 or equivalent.

MKTG 3531: Marketing Intelligence and Data Management

Focus is on the use of market intelligence to provide marketing decision-makers with data on the effectiveness of the current marketing mix, direction for necessary changes, and insight into new opportunities in the marketplace.

Prerequisites: DSCI 3231 and MKTG 3031, or equivalents.

MKTG 4131: Sales Management

A study of the tasks of the sales manager including the organization, planning, operation and control of a field sales force. The course emphasizes managerial problem solving in business-to-business marketing.

Prerequisite: MKTG 3332 or equivalent.

MKTG 4332: Business Services Marketing

Concepts and strategies in service industries which serve business and organizational customers. Examines the role of pricing, promotion, distribution, and product strategies in the business service sector.

Prerequisite: MKTG 3031 or equivalent or permission of instructor for non-majors.

MKTG 4333: Entrepreneurship and Small Business Consulting

Application of classroom concepts, theories and principles from all business disciplines to active operating small businesses or new business ventures.

Prerequisites: ACCT 3331, FINC 3331, MGMT 3031 and MKTG 3031.

MKTG 4334: Business Marketing Strategy

Integrating marketing concepts such as purchasing, market segmentation and the 4 Ps and applying them to develop business-to-business marketing.

Prerequisites: MKTG 3531 or equivalent.

MKTG 4531: Comparative International Marketing

Begins with a discussion of incentives for and barriers to international trade, and foreign market selection and entry strategies. Examines product, price, distribution, and promotion decisions in an international context. Involves analysis and critique of the marketing strategies used by a multinational firm.

Prerequisite: MKTG 3031 or equivalent.

MKTG 4532: Seminar in International Marketing

Field experience involving meetings with the chief marketing officers of firms operating in areas outside the United States. Sessions will concentrate on marketing problems found in other cultures, the solutions used to address those problems and how these problems and solutions are different from the American experience.

MKTG 4739: Internship in Marketing

Three or six hours of supervised work experience each week in an approved marketing unit.

Prerequisites: 15 hours of upper-level credit and approval of program director.

MKTG 4819; 4839: Independent Studies in Marketing

(variable credit, 1 or 3 semester hours.) Independent directed study in Marketing.

Prerequisite: Approval of instructor, Faculty Chair and Associate Dean required.

MKTG 4931: Selected Topics in Marketing

Identified by specific title each time course is offered.

MATHEMATICS COURSES

MATH 3031: Mathematics for Ec- 6 I

Introductory concepts from elementary mathematics. Included are: problem solving, set theory, an introduction to number systems and computation; basic probability and statistics, fundamentals of Euclidean Geometry including basic shapes, 2 dimensional coordinate systems, measurement and an introduction to number theory. No credit if credit received for Math 3033 or equivalent.

Prerequisite: College Algebra.

MATH 3032: Mathematics for Ec- 6 II

Advanced concepts from elementary mathematics. Included are: problem solving; number bases; computational algorithms; the real number system; three-dimensional geometry and measurement; 3D coordinate and transformational geometry; probability and statistics; and number theory. No credit if credit received for Math 3037 or equivalent.

Prerequisite: Math 3031 or equivalent.

MATH 3033: Structure of Number Systems

Structure of arithmetic for elementary teachers. A set-theory approach to development of the real number system; fundamental operations and concepts of arithmetic, systems of numeration. No credit if credit received for Math 3031 or equivalent.

MATH 3034: Algebra Through Technology

Using technology to investigate topics in elementary functions, simultaneous equations, polynomials and elementary topics in number theory.

Prerequisite: College algebra.

MATH 3035: Euclidian and Non-Euclidian Geometry

Formal set theory, logical structure and measurement.

Prerequisite: College algebra.

MATH 3036: Problem Solving

Problem solving through experiences and reasoning; ideas from areas such as pattern recognition, simulation and logical deduction.

Prerequisite: MATH 3037 or equivalent or instructor permission.

MATH 3037: Fundamentals of Informal Geometry and Statistical Analysis

Identification and measurement of plane and solid figure transformations and symmetry of geometric shapes; introduction to discrete probability; statistical analysis of data and methods of displaying information. No credit if credit received for Math 3032 or equivalent.

Prerequisite: MATH 3033.

MATH 3038: Computational Statistics

Descriptive statistics, basic probability concepts, normal distribution, parameter estimation, testing of hypotheses, correlation and regression, statistical computation using Excel.

Prerequisite: College algebra or equivalent.

MATH 3131: Introduction to Linear Algebra

Systems of linear equations; vector spaces, linear transformations, determinants, matrices, eigenvalues and eigenvectors; applications to coding and difference equations.

Prerequisite: Precalculus or Calculus I.

MATH 3231: Calculus III

Vectors and vector valued functions, functions of multiple variables, partial derivatives, multiple integrals, volume and surface area and vector calculus.

Prerequisites: Calculus I, II and MATH 3131.

MATH 3331: Discrete Mathematics

Logic, set theory, algebraic structures, graph theory and networks.

Prerequisite: College algebra.

MATH 3334: Probability and Statistics for Scientists and Engineers

Graphical representation of data, measures of centrality and variability, concepts and rules of probability, discrete probability distribution, normal distribution, sampling distributions, central limit theorem, parameter estimation, testing of hypotheses, two sample methods, analysis of variance, correlation and regression analysis.

Prerequisites: Calculus I, II.

MATH 4030: Introduction to Modern Algebra and Number Theory

An introduction to techniques of proof, problem solving and applications using topics from number theory, modern algebra and logic such as groups, rings, fields, congruence classes, modular arithmetic, symmetries, permutations and inductive and deductive argument forms.

Prerequisite: Calculus II.

MATH 4031: History of the Mathematical Sciences

Temporal relationships of concepts by means of biographic studies; development of mathematical theory and applications from ancient to contemporary times.

MATH 4131: Ordinary Differential Equations and Applications

Solutions of ordinary differential equations of first and second order, Laplace transforms, power series techniques, systems of equations, stability, numerical methods, geometric and physical applications.

Prerequisite: MATH 3231.

MATH 4132: Number Theory

Properties of divisibility. Prime numbers, congruence arithmetic, quadratic reciprocity and applications of these ideas, an overview of techniques of mathematical proof.

Prerequisites: Calculus and either MATH 3036 or MATH 3131.

MATH 4133: Introduction to Topology

Topological techniques in analysis, metric spaces, continuous transformations, connectivity, separation, compactness; nets and filters, cardinal arithmetic.

Prerequisite: MATH 4331.

MATH 4135: Numerical Analysis and its Applications

Introduction to methods and algorithms in numerical computation. The topics include techniques for finding the roots of equations and interpolation functions, numerical approximation of differentiation and integration, numerical solutions to ordinary differential equations, linear systems and nonlinear systems.

Prerequisites: MATH 3131, MATH 3231, MATH 4131 and C/C++ or equivalent.

MATH 4136: Mathematic Software Applications

Explores current applications of computers in mathematics using Mathematica. Symbolic, numerical and graphical computing will be applied to various mathematical problems normally viewed as beyond the scope of the course in which they are first introduced. A variety of programming paradigms, such as procedural programming and function programming will be emphasized.

Prerequisites: MATH 3131 and MATH 4131.

MATH 4231: Predicate Logic

An introduction to predicate logic; elements of formal logic systems; set theory and propositional calculus, completeness theorems and the nature of proofs.

MATH 4232: Introduction to Abstract Algebra

Study of algebraic structures: maps, operations, permutations and homomorphisms. Groups, rings, integral domains and fields; applications to symmetry; techniques of mathematical proof.

Prerequisites: Calculus and MATH 3131.

MATH 4235: Theory of Models and Applications

Simulation and analysis on continuous and discrete mathematical models in science. It also includes the study of nonlinear dynamics, chaos and fractals.

Prerequisites: MATH 3131 and MATH 4131 or equivalent.

MATH 4236: Introduction to Survey Sampling

An introduction to the design of sample surveys and the analysis of survey data. This course emphasizes practical applications of survey methodology. Sample designs covered include simple random sampling; systematic sampling; stratified, cluster and multi-stage sampling. Analytical methods include sample size determination, ratio and regression estimation and imputation for missing data. Practical problems encountered in conducting a survey are discussed.

Prerequisite: One semester elementary statistics is preferred.

MATH 4238: Data Management and Analysis Using Sas

An introduction to the statistical package SAS. The course will focus on data step programming and some selected base procedures. Topics include inputting and outputting data, processing and managing data, arrays, functions, custom outputs and some basic statistical procedures for analysis.

Prerequisite: One semester elementary statistics course is preferred.

MATH 4331: Advanced Calculus

Set theory. Real number system. Sequences and series. Differentiation. The Riemann integral.

Prerequisite: MATH 3231 or equivalent.

MATH 4431: Introduction to Analysis

Real numbers, sequences and series, differentiation and measure theory; Riemann, Stieltjes and Lebesgue integrals.

Prerequisite: MATH 4331 or equivalent.

MATH 4434: Introduction to Probability

Sample space, probability function, combinatorics, discrete and continuous random variables, special probability distributions, moment generating function, multivariate distribution and central limit theorem.

Prerequisite: Calculus II.

MATH 4435: Introduction to Statistics

Sampling distributions, point and interval estimation, hypothesis testing, regression and correlation, nonparametric statistics, analysis of variance.

Prerequisite: MATH 4434 or equivalent.

MATH 4436: Probability for Actuarial Exam P1

This course is designed to prepare students for the first actuarial exam. This course consists of introducing, reviewing concepts and rules of probability and statistics and studying sample actuarial examinations and related material. Students are given sample problems from past actuarial examinations to study outside of class. The solution of these problems and related material are discussed in class.

Prerequisite: One semester probability course is preferred.

MATH 4633: Functions of a Complex Variable

The theory of limits, differentiation and integration in the complex plane. Gauss' theorem and residue calculations.

Prerequisite: MATH 3231 or equivalent.

MATH 4819, 4839: Independent Study in Mathematics

Prerequisites: Approval of instructor, chair and associate dean.

MATH 4931: Selected Topics in Mathematics

Identified by specific title each time course is offered.

MILITARY SCIENCE COURSES**MSCI 3310; 3320: Advanced Military Science**

Leadership; preparing combat orders; military instruction principles; small unit tactics; tactical communications; fitness training. Class is designed to prepare students for Advanced Camp. Fitness training required three times per week in addition to class and lab.

Prerequisite: MSCI 2220 or consent of the chair.

MSCI 3398: Special Problems

Prerequisites: junior standing and consent of department chair.

MSCI 3491: leadership development and assessment course

Off-campus field training practicum stressing application of leadership management with emphasis on tactical and special military skills. Places students in demanding and stressful leadership situations.

Prerequisite: MSCI 3320 or consent of the chair.

MSCI 4310; 4320: Advanced Military Science

Leadership and command; military law; administration/staff operations and procedures; dynamics of the military team; training management; ethics and professionalism. Fitness training required three times per week in addition to class and lab.

Prerequisite: MSCI 3320 or consent of the chair.

MSCI 4398: Special Problems

Prerequisites: senior standing and consent of department chair.

PHILOSOPHY COURSES

PHIL 3231: Logic

An investigation of traditional approaches to correct and incorrect reasoning. The application of logic to our "everyday world" is an integral part of the course.

PHIL 3331: Ethics

A primary course in assessing ethical questions, judgments and systems of morality. Readings will address contemporary ethical issues.

PHIL 3433: Philosophy and Knowledge

Historical approach to the theory of knowledge (epistemology). Issues addressed include skepticism, the role of sense perception and the justification of knowledge claims. Readings include works by Plato, Descartes, Hume and Kant.

PHIL 4134: The Great Philosophers I

Survey of the ideas of the great philosophers of the western tradition from ancient Greece through the middle ages.

PHIL 4135: The Great Philosophers II

Survey of the ideas of the great philosophers of the modern western world.

PHIL 4232: Philosophy of Religion

Investigation of the responses of philosophers and theologians to questions about the nature of God and the problem of evil.

PHIL 4839: Independent Study in Philosophy

Independent study in Philosophy.

Prerequisite: Approval of independent study director.

PHIL 4931: Selected Topics in Philosophy

Identified by specific title each time course is offered.

PHYSICS COURSES

*Pending Coordinating Board approval

PHYS 3011: Laboratory for University Physics I

Corequisite: PHYS 3031. Introduction to data acquisition and analysis in physics. Apparatuses will be used to conduct experiments involving statics, kinematics, wave motion, sound and heat. Topics also to include statistical methods, graphing, error analysis, computer techniques and reporting results.

PHYS 3012: Laboratory for University Physics II

Corequisite: PHYS 3032. Instrumentation will be used to conduct experiments on electrical circuits and optics. Topics include Ohm's Law, series and parallel circuits, electrical power EMF, RLC Components, optical elements and visual phenomena.

PHYS 3013: Laboratory for Modern Physics

Corequisite: PHYS 3033. This course provides students with the exposure to modern physics phenomena and a variety of experimental techniques which develops a broad background essential for the future understanding of and the performance of research in physics. It includes experimental testing of quantum mechanics and its applications to atomic physics and light.

PHYS 3031: University Physics I

Corequisite: PHYS 3011. Calculus-based introductory Physics course. Primarily includes fundamentals of mechanics, such as statics, kinematics, Newton's laws, conservation of energy, rigid body motion, fluids; temperature, heat transfer, thermodynamics; vibrations, waves mechanics and sound waves.
Prerequisites: Differential and integral calculus.

PHYS 3032: University Physics II

Corequisite: PHYS 3012. Topics include: Electric forces and fields, DC and AC circuits, magnetism; atomic structure, semiconductors; electromagnetic waves, light; introduction to modern physics.
Prerequisite: PHYS 3031 or equivalent.

PHYS 3033: Modern Physics

Corequisite: PHYS 3013. An introduction to topics in modern physics. Black-body radiation, quantum mechanics, atomic and molecular physics, solid state physics, special relativity, nuclear and particle physics.
Prerequisite: PHYS 3032 or equivalent.

PHYS 4011: Lab Methods in the Physical Sciences

Corequisite: PHYS 4031. Three laboratory hours per week.

PHYS 4031: Methods in the Physical Sciences

Corequisite: PHYS 4011. Recent developments in chemistry, geology and physics; emphasis on teaching the physical sciences from a contemporary viewpoint.

PHYS 4131: Mathematical Methods for Physicists I

Overview of the essential mathematics needed for advanced Physics courses including: Vector Analysis in flat and curved coordinates, Matrices, Group Theory, Infinite Series, Complex Variables and Differential Equations.

Prerequisites: Differential and Integral Calculus.

PHYS 4132: Mathematical Methods for Physicists II

A continuation of Mathematical Methods for Physicists I including such topics as Special Functions, Legendre Polynomials, Bessel Functions, Fourier Series, Integral Transforms, Partial Differential Equations, Probability and Calculus of Variations.

Prerequisite: PHYS 4131 or equivalent.

PHYS 4231: Intermediate Mechanics

This course is an advanced undergraduate study of the classical motion of particles according to Newton's Theory. In this course we study Rectilinear motion, Oscillations, Noninertial Reference Systems, Central Forces, Systems of Particles and Rigid Body Motion.

Prerequisites: PHYS 3033 or equivalent.

PHYS 4331: Principles of Electromagnetism

A thorough introduction to electrostatics, magnetostatics and electrodynamics. Practical examples and some demonstration experiments will be used to connect the elegant mathematical theory of electromagnetism with physical intuition.

Prerequisite: PHYS 3033 or equivalent.

PHYS 4333: Special Relativity

In this course we derive Einstein's theory of special relativity, Lorentz transformations and relativistic electrodynamics using tensor analysis and spacetime diagrams.

Prerequisites: PHYS 4331 or Instructor approval.

PHYS 4432: Principles of Quantum Mechanics

Experimental basis of quantum theory. Postulates of quantum mechanics. Uncertainty principle. Operator methods and the wave equation, Time-independent Schrodinger equation, Wave-equation in three dimensions, Angular momentum and the Hydrogen atom.

Prerequisite: PHYS 3033 or equivalent.

PHYS 4531: Thermodynamics & Fluid Mechanics

Temperature, heat and work, thermodynamic properties of gases, solids and solutions; homogeneous and heterogeneous equilibria; thermodynamics of electrochemical cells; statistical thermodynamics; calculation of thermodynamic properties; chemical kinetics.

Prerequisite: PHYS 3033 or equivalent.

***PHYS 4632: Fundamentals of Astroparticle Physics**

Topics include: Introduction to high energy physics, symmetries and conservation rules, neutrino astrophysics, particle cosmology and astrophysics.

Prerequisite: PHYS 3033 or equivalent.

PHYS 4732: Modern Physics Research Seminar

A study of current physics research projects conducted in the format of a seminar class.

PHYS 4819, 4839: Independent Study in Physics

Prerequisites: Approval of instructor, chair and associate dean.

PHYS 4931: Selected Topics in Physics

Identified by specific title each time course is offered.

POLITICAL SCIENCE COURSES

*Pending Coordinating Board approval

***POLS 3031: Contemporary Issues in Political Science**

Examination of current issues and problems in American and International politics.

POLS 3331: Legislative Process

Functions of the United States Congress and the Texas Legislature; legislative relationships with other sectors of government.

***POLS 3332: State and Local Government**

Analysis of state and local government with special emphasis on the Texas State Legislature and Houston City Council.

POLS 3532: Public Policy

Examination of politics and processes of federal government public policy formation.

***POLS 3631: Politics and Film**

This course examines the relationship between film and politics with special attention given to the role of film in the transmission of political information and ideas.

***POLS 4132: Race and Ethnic Politics**

Examination of the relationship between racial and ethnic minorities and the American political system.

POLS 4133: Civil Liberties in America

Factors and forces that have altered the scope of civil liberties in the U.S.; history and analysis.

POLS 4134: Chief Executive

Constitutional, political and administrative responsibilities of chief executives in government in comparison to the President of the United States.

POLS 4135: Judicial Process

The role of law, lawyers and judges in influencing social and political change in America; history and analyses.

***POLS 4137: Voting and Elections**

Analysis of electoral behavior in the United States; determinants of the vote, election turnout, issues and elections, and media in elections.

***POLS 4432: International Relations**

Analysis of the major theoretical approaches to international politics; explore important historical and contemporary questions and debates in international affairs.

POLS 4531: Public Administration

Concepts of control, productivity and organizational design and structure; human behavior in organizations; administrative responsibility.

POLS 4534: Comparative Political Systems

Planning outcomes of government action in countries other than the U.S.; implementation analysis; instruments for political participation.

Prerequisites: POLS 4531, or equivalent.

POLS 4535: Political Philosophy

This course provides a frame of reference for classifying and assessing the merits of individual political theories in terms of their philosophical foundation.

***POLS 4536: Political Economy**

Examines a broad survey of some major debates in political economy; an analysis of the creation, evolution and reform of market institutions.

***POLS 4630: Senior Seminar**

A capstone course, required of graduating political science majors, which provides an overview of the discipline.

***POLS 4830: Internship in Government and Politics**

A supervised, onsite internship in a political science capacity. Permission of instructor required. This course may be repeated once for credit for a total of six hours.

POLS 4839: Independent Studies in Political Science

Independent directed study in Political Science.

POLS 4931: Selected Topics in Political Science

Identified by specific title each time course is offered.

PSYCHOLOGY COURSES

PSYC 3011: Careers in Psychology

This course introduces students to undergraduate psychology major, provides basic advising, cover careers in psychology and prepares students for applying to graduate school or jobs in psychology.

PSYC 3012: Writing in Psychology

Introduction to APA style and writing for the social sciences. Psychology majors should take this course during their first year.

PSYC 3135: Psychological Thinking

Focuses on gaining skills necessary to understand and critique issues and research from a psychological perspective. Emphasis will be on critical thinking, expression of ideas, APA style and journal reading. Prerequisite: Introductory Psychology course.

PSYC 3231: Learning

Basic principles of learning and how they apply to human behavior. Prerequisite: Introduction to General Psychology.

PSYC 3331: Theories of Personality

Theories of the origins, structure and dynamics of personality; emphasis on the "normal" personality.

PSYC 3332: Family Psychology

Overview of family psychology. Topics include family systems, family health, the family life cycle and family violence.

PSYC 3333: Human Sexuality

This course will explore psychological, biological and cultural viewpoints on sexual behavior, including research on attraction, gender, sexual dysfunction, sexual variations, sexual orientation and sexual coercion.

PSYC 3334: Drugs and Behavior

Mechanisms and effects of alcohol, opiates, sedatives, tranquilizers, stimulants, psychedelics and other psychotropic drugs; problems of abuse and attempts at control and education.

PSYC 3335: Behavioral Pharmacology Research

Laboratory investigation of drug/brain/behavior relationships in the rat. Readings from primary research literature, laboratory experiments and research reports.

Prerequisite: Permission of instructor.

PSYC 3336: Behavioral Neuroscience Research

Laboratory investigation of brain/behavior relationships in the rat. Readings from primary research literature, laboratory experiments and research reports.

Prerequisite: Permission of instructor.

PSYC 4032: Interviewing and Assessment

The provision of human services is covered in this course, e.g. intake, rapport building, goal-setting, implementation and evaluation. Multicultural sensitivity and ethics are also covered.

PSYC 4038: Introduction to Women's Studies

General information on the wide range of issues related to the status of women. "Women Studies Course." (Crosslisted with HUMN 4038, SOCI 4038, WMST 4038).

PSYC 4111: Psychology Capstone

The course is intended to be an integrative capstone experience for psychology majors. Students will write 15-20 page paper using APA style, integrating material from at least 3 core courses.

Prerequisite: Completion of at least 18 hours in Psychology.

PSYC 4131: Social Psychology

Attitudes, social cognition, person perception, self, social influence, relationships, prejudice, helping and aggression. Theories, research and application.

PSYC 4132: Introduction to Marriage and Family Therapy

Introduction to the practice of marriage and family therapy. History of the field. Systems and contextual theory. Major theories and practices. Professional ethics.

PSYC 4133: Tests and Measurements

Informal and standardized tests of achievement, intelligence, adjustment and aptitude.

PSYC 4134: Child Psychology

Cognitive, social and emotional development of children; psychoanalysis, behavioristic and Piagetian approaches.

PSYC 4135: Adolescent Psychology

Problems of role and identity in relation to adolescents' needs for acceptance, autonomy and intimacy; special attention will be given to topics such as sexual maturation, love and friendship and drug abuse.

PSYC 4136: Brain and Behavior

The biological basis of how one thinks, feels and acts.

PSYC 4137: Trauma and Resilience

Theories and data concerning psychological response to traumatic events, resilience and recovery. Developmental, institutional and ethno-cultural factors also examined.

PSYC 4217: Practicum in Applied Behavior Analysis

Supervised application of behavioral principles and methods in community settings.

Prerequisite: Permission of instructor.

PSYC 4227: Practicum in Applied Behavior Analysis

Supervised application of behavioral principles and methods in community settings.

Prerequisite: Permission of instructor.

PSYC 4231: Applied Behavior Analysis I

Pre- or Co-requisite: PSYC 3231.

2nd course in a 3-course sequence to prepare students for the BCaBA. Topics include: introduction to single-subject research design, use of learning principles in applied areas and ethical issues in behavior analysis.

PSYC 4232: Applied Behavior Analysis II

Prerequisite: PSYC 4231.

3rd course in a 3-course sequence to prepare students for the BCaBA. Topics include: use of learning principles in applied areas, such as education, business, health and human services, and ethical issues in behavior analysis.

PSYC 4234: Behavior in Organizations

Social psychology of organizational behavior, focusing on issues of roles, power, commitment, membership and bureaucracy.

PSYC 4237: Practicum in Applied Behavior Analysis

Supervised application of behavioral principles and methods in community settings. .

Prerequisite: Permission of instructor.

PSYC 4332: Introduction to Industrial/Organizational Psychology

Overview of the issues, problems and practices in industrial/organizational psychology. Topics include work group dynamics, attitudes, job analysis, employee selection, performance appraisal, training and organizational development.

PSYC 4334: Psychology of Women

The development of sex differences and sex roles; modern viewpoints on gender appropriate behavior.

"Women Studies Course."

PSYC 4431: User Centered Design

Covers how users should be included in design process including needs analysis, requirements writing, iterative testing of low/medium/high fidelity prototypes, implementation of requirements and evaluation.

PSYC 4433: Public Service Management

Overview of basic theories of administrative organization, relationships and behavior. How to structure, manage, direct and control units within governmental organizations.

PSYC 4434: Public Service Leadership

Examination of determinants and consequences of effective and ineffective leadership in governmental organizations.

PSYC 4435: Strategic Planning

Strategic planning and facilitation of organizational change in governmental organizations.

300 Roster of Courses

PSYC 4436: Organizational Communication

Examination of general communication processes and dynamics within governmental organizations.

PSYC 4337: Violence Against Women

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, sexual harassment.

PSYC 4531: Abnormal Psychology

Neurotic and psychotic personality patterns; etiology, symptoms, diagnosis and correctional methods and institutions viewed from a psychological perspective.

PSYC 4536: The Aging Experience

Examines crosscultural differences, retirement, generational issues, death and dying and political and social implications of the aging experience for today's and tomorrow's elderly. (Crosslisted with SOCI 4536).

PSYC 4631: Research Design and Statistical Measurement I

Design, analysis and application of social science research techniques and methods of measurement. (Crosslisted with SOCI 4631).

PSYC 4632: Research Design and Statistical Measurement II

Design analysis and application of social sciences research techniques and methods of measurement. (Crosslisted with SOCI 4632).

Prerequisite: PSYC 4631.

PSYC 4661: Research Design and Statistical Measurement

Design, analysis and application of social science research techniques and methods of measurement. (Crosslisted with SOCI 4061).

PSYC 4730: Behavioral Statistics

Permutations and combinations, probability, hypothesis testing, sample theory, parameter estimation, frequency functions and correlation and regression. Applications in the Behavioral Sciences.

PSYC 4731: Social Sciences Research Techniques

Analysis and application of social science research techniques.

PSYC 4732: Seminar in Women's Studies

An advanced course in Women's Studies, designed to acquaint the student with contemporary issues in feminist scholarship across the disciplines. (Crosslisted with HUMN 4732, HUMN 5732, PSYC 5732).

Prerequisite: Any previous Women's Studies course.

PSYC 4735: Personal Stress Management

Course will explore various methodologies for stress management emphasizing personal applications.

PSYC 4739: Internship in Human Services

Students will do a one-semester placement in a Human Services agency. (Crosslisted with SOCI 4739).

Prerequisites: Permission of instructor.

PSYC 4819, 4839: Independent Study in Psychology

Independent study in psychology.

Prerequisite: Approval of advisor and independent study director required.

PSYC 4832: Cognitive Psychology

An empirical and theoretical examination of human cognitive processes. Possible topics include perception, memory, problem solving and artificial intelligence.

PSYC 4835: Consciousness and Spirituality

The nature of human consciousness and spirituality. Topics include altered states of awareness, non-drug induced, non-ordinary realities and the role of spirituality in psychological healing.

PSYC 4911: Selected Topics in Psychology

Identified by specific title each time course is offered.

PSYC 4931: Selected Topics in Psychology

Identified by specific title each time course is offered.

SOCIAL WORK COURSES

SWRK 4031: Introduction to Social Work

Overview of field of social work, including history, philosophy, values, roles, fields of practice and settings for professional social work practice. Students required to complete 40 hour volunteer placement.

SWRK 4034: Issues and Ethics in Social Work

Examination of professional values and behaviors specific to social work as set forth in NASW Code of Ethics and various other codes of ethics for social work professionals.

SWRK 4038: Foundations of Social Work Practice

Covers provision of human services e.g., intake, assessment, rapport building, goal-setting, implementation and evaluation. Multicultural responsiveness and ethics are also covered.

SWRK 4134: Diversity and Human Development throughout the Life Cycle

Overview of theories and knowledge related to human behavior, growth and development throughout life cycle with particular attention to human diversity.

SWRK 4137: Social Welfare Policy and Services

Provides knowledge of social welfare and policies and the impact of policy on client systems of all sizes.

SWRK 4138: Social Work Practice I

Introduction to theories, skills, values and techniques for social work assessment, intervention and practice evaluation with individuals, with particular attention to human diversity and multicultural responsiveness.

SWRK 4139: Social Welfare Policy Analysis

Examination of social welfare policy perspectives, models of policy analysis and contemporary social service/welfare policies.

SWRK 4169: Social Work Internship I

First of two concurrent 240-hour generalist social work practice field placements. Course includes an on-campus Integrative Seminar. Students must have applied for and been accepted into a field placement with the Social Work program in order to register for this course.

Prerequisites: SWRK 4031, SWRK 4034, SWRK 4134, SWRK 4138, SWRK 4234, SWRK 4238, SWRK 4633, SWRK 4730 and SWRK 4931. Must be taken before or concurrent with SWRK 4269.

SWRK 4234: Oppression, Diversity and Social Justice

Overview of theories and knowledge related to social, cultural and systemic influences on human behavior with particular attention to social and economic justice and persons and groups most affected by oppression.

SWRK 4238: Social Work Practice II

Introduction to theories, skills, values and techniques for social work assessment, intervention and practice evaluation with groups and families, with particular attention to human diversity and multicultural responsiveness.

Prerequisite: SOCI 4138.

SWRK 4269: Social Work Internship II

Second of two concurrent 240-hour generalist social work practice field placements. Course includes an on-campus Integrative Seminar.

Prerequisites: All core social work courses and completion of /or concurrent enrollment in SWRK 4169.

SWRK 4338: Social Work Practice III

Introduction to theories, skills, values and techniques for social work assessment, intervention, planned change and practice evaluation with communities and organizations.

Prerequisite: SWRK 4138 and SWRK 4238.

SWRK 4631: Research Design and Statistical Measurement I

Design, analysis and application of social science research techniques and methods of measurement.

SWRK 4632: Research Design and Statistical Measurement II

Design, analysis and application of social science research techniques and methods of measurement.

Prerequisite: SWRK 4631.

SWRK 4633: Research Methods

Design and application of quantitative and qualitative research methods.

SWRK 4634: Data Analysis

Analysis and application of quantitative and qualitative social science research techniques and methods of measurement.

SWRK 4730: Behavioral Statistics

Permutations and combinations, probability, hypotheses testing, sample theory, parameter estimation, frequency functions and correlation and regression. Applications in the Behavioral Sciences.

SWRK 4839: Independent Study in Social Work

Independent study in social work.

Prerequisite: Approval of advisor and independent study director.

SWRK 4931: Selected Topics in Social Work
Identified by specific title each time course is offered.

SOCIOLOGY COURSES

SOCI 3132: Criminology

Theories of causation, patterns and social response. (Crosslisted with CRIM 3132).

SOCI 3135: Sociological Thinking

Focus on skills for understanding and critiquing issues and research from a Sociological perspective. Emphasis on critical thinking and close examination of the social world. ASA style and journal reading.

SOCI 3335: Deviance

Theories of the existence of deviance in society; management of spoiled identities. (Crosslisted with CRIM 3335).

SOCI 3531: Political Sociology

The social bases of power; strategies for developing political influence; focus of power in America; relations between citizens and authorities; problems of political legitimacy.

SOCI 3532: Urban Sociology

The social organization of urban life and the structure of power in communities; urban problems and strategies for change.

SOCI 4033: Human Services

Overview of human services. Includes historical basis, current perspectives, casework terms and institutions.

SOCI 4034: Professional Issues in Human Services

Examination of ethical and legal issues in Human Services. Includes how to work with culturally diverse populations and issues related to gender and confidentiality.

SOCI 4038: Introduction to Women's Studies

General introduction to the wide range of issues related to the status of women. "Women Studies Course." (Crosslisted with HUMN 4038, PSYC 4038 and WMST 4038).

SOCI 4061: Research Design and Statistical Measurement

Design, analysis and application of social science research techniques; methods of measurement. (Crosslisted with PSYC 4661).

SOCI 4131: Social Psychology

Conformity, mass communication and propaganda, self justification, prejudice, human aggression, attraction, cooperation and competition theory, research and application. (Crosslisted with PSYC 4131).

SOCI 4132: Social Structure: Class, Power and Status

Various interpretations of America's system of social stratification.

SOCI 4133: Juvenile Delinquency

Individual and community aspects of juvenile delinquency; theories of causes and modes of control. (Crosslisted with CRIM 4133).

SOCI 4135: The Death Penalty

Introduction to history and development of capital punishment as a social institution. Special focus on issues like deterrence, discrimination and execution of innocent prisoners. (Crosslisted with CRIM 4135).

SOCI 4136: Women and the Law

Evolution of women's legal rights in the United States. Examination of contemporary issues in context of human rights law. Legal status of women in economic, political and judicial sectors. (Crosslisted with WMST 4136).

SOCI 4137: Race and the Law

Evolution of legal rights of race/ethnic groups in U.S. from sociological perspective. Examination of civil rights movement, hate crimes and Affirmative Action policy.

SOCI 4138: Women of Color in the United States

Focus on the diverse experiences of women of color in the United States, using race, class and sexuality as analytical tools to explore these experiences.

SOCI 4232: Theories of Society

A review of historical and contemporary statements on the nature of society by philosophers and scientists.

SOCI 4233: Religion in Society

Examination of the major theories of religion in society and empirical research on religious membership and participation; study of issues such a secularization and role of religion in modern society.

SOCI 4234: Organizations in Society

Study of several aspects of our organizational society such as roles, power and membership; investigation of many types of organizations and their influence on individuals.

SOCI 4237: Culture and Consciousness

The course will explore the nature of interaction between culture and human consciousness. Specifically, it will examine the impact of culture on the perception of space and time, the definition of reality and the formation of belief and value structures.

SOCI 4238: Social Conflict and Mediation

Examines theories of social conflict and application of dispute resolution/ mediation techniques to needs of community groups, courts, churches, businesses and non-governmental agencies.

SOCI 4239: Egypt in Transition

Course exposes students to culture, history, religion and politics of Egypt and the Middle East. It explores sociological, historical and cross-cultural forces shaping modern Egypt.

SOCI 4330: Cultural Study Abroad

Course exposes students to culture, history, religion and politics of another country. Involves foreign travel, and includes prerequisite of semester long course focusing on study abroad country.

Prerequisite: Permission of instructor.

SOCI 4331: Prison and Society

Correctional institutions in the United States; analysis of their changing roles and functions. (Crosslisted with CRIM 4331).

SOCI 4332: Sociology of Law

The course will focus upon the classic confrontation between the rights of the individual and the welfare of the greater society and examine a number of the most emotionally charged and problematic issues from the perspectives of sociological, philosophical and legal theories.

SOCI 4333: Crisis Intervention

The course is aimed at providing students with basic knowledge of crisis intervention and effective listening skills. The course serves as a prerequisite for the undergraduate practicum in crisis intervention.

SOCI 4334: Criminal Law

Survey of structure and rationale for criminal law; topics include criminal liability, criminal defenses and types of offenses. (Crosslisted with CRIM 4334).

SOCI 4335: Social Change

Macrosocial change from hunting and gathering societies, through horticultural and agrarian societies to industrial societies.

SOCI 4431: Women in Society

A cross-cultural study of the environment, biological and cultural factors in the division of labor and assignment of roles, male and female. "Women's Studies Course." (Crosslisted with ANTH 4431).

SOCI 4432: Human Rights and Social Justice

Exploration of conceptions of human rights and of recent attempts to reconcile such conceptions in the context of globalization and from perspective of social justice.

SOCI 4433: Public Service Management

Overview of basic theories of administrative organization, relationships and behavior. How to structure, manage, direct and control units within governmental organizations.

SOCI 4434: Public Service Leadership

Examination of determinants and consequences of effective and ineffective leadership in governmental organizations.

SOCI 4435: Strategic Planning

Strategic planning and facilitation of organizational change in governmental organizations.

SOCI 4436: Organizational Communication

Examination of general communication processes and dynamics within governmental organizations.

SOCI 4534: Race and Ethnic Relations

Historical development of race/ethnic relations from multiple sociological perspectives. Immigration and white privilege emphasized. Includes international component.

SOCI 4535: Minorities in America

Economic, political and social status of minority subcultures; the changing nature of minority majority relations. "May include Women's Studies content."

SOCI 4536: The Aging Experience

Examines cross-cultural differences, retirement, generational issues, death and dying and political and social implications of the aging experience for today's and tomorrow's elderly. (Crosslisted with PSYC 4536).

SOCI 4538: Family and Society

Social and legal foundations of the family as an institution, examined in the context of marriage, sex roles and child rearing.

SOCI 4739: Internship in Human Services

Students will do one-semester field placement in Human Services agency. (Crosslisted with PSYC 4739).
Prerequisites: Permission of instructor.

SOCI 4810: Honors Statistics Lab

Computer lab class that must be taken concurrently with Honors Statistics (SOCI 4830).
Prerequisite: Must be Sociology major; must pass entry algebra test during first Honors Statistics class with score of 80% or higher.

SOCI 4811: Honors Research Methods Lab

Computer lab class that must be taken concurrently with Honors Research Methods (SOCI 4831).
Prerequisite: Must be Sociology major; must pass entry algebra test during first Honors Methods class with score of 80% or higher.

SOCI 4830: Honors Statistics

Teaches motivated students how to use, understand and conduct data analysis. Must be taken concurrently with Honors Statistics Lab (SOCI 4810).
Prerequisite: Must be Sociology major; must pass entry algebra test during first Honors Statistics class with score of 80% or higher.

SOCI 4831: Honors Research Methods

Teaches motivated students how to design, understand, evaluate and conduct various forms of social research. Must be taken concurrently with Honors Research Methods Lab (SOCI 4811).
Prerequisite: Must be Sociology major; must pass entry algebra test during first Honors Research Methods class with score of 80% or higher.

SOCI 4832: Honors Theories of Society

Exploration of classical sociological thinkers. Limited coverage of major developments in sociological theory since 1930. Course is for motivated Sociology majors only who have completed at least 9 hours of Sociology courses with cumulative GPA of 3.5. Enrollment by permission of instructor only.

SOCI 4834: Statistics

Teaches students how to use, understand and conduct data analysis.
Prerequisite: College Algebra.

SOCI 4835: Research Methods

Teaches students how to design, understand, evaluate and conduct various forms of social research.
Prerequisite: College Algebra.

SOCI 4839: Independent Study in Sociology

Independent study in Sociology.
Prerequisite: Approval of advisor and independent study director.

SOCI 4931: Selected Topics in Sociology

Identified by specific title each time course is offered.

SOFTWARE ENGINEERING COURSES

SWEN 4230: Introduction to Software Process and Project Management

Introduction to Software Process Models, process modeling and improvement; project planning, scheduling and project management.
Prerequisite: CSCI 3333.

SWEN 4432: Software Engineering

Introduction to Software Engineering. Major phases of the software life cycle are introduced from requirements through maintenance.
Prerequisite: A course in programming in a high level language, Data Structures recommended.

SWEN 4433: Software Engineering Tools

Current tools used in industry to support various phases of software development are covered such as Rational Rose, Objectory Process, as well as coverage of object-oriented modeling using Unified Modeling Language (UML).

Prerequisite: SWEN 4432.

SWEN 4435: Introduction to Personal Software Process

Personal evaluation and practice of the software design process, assessments, modeling and improving techniques.

Prerequisite: CSCI 3133.

SWEN 4931: Research Topics in Swen

Identified by specific title each time course is offered.

SPANISH COURSES

SPAN 3131: Intensive Spanish II

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisite: 2000 level Spanish or the equivalent.

SPAN 3132: Intensive Spanish III

Focus on the intensive study of spoken and written language to facilitate spontaneity of expression.

Prerequisite: SPAN 3131 or the equivalent.

SPAN 4931: Selected Topics in Spanish

Identified by specific title each time course is offered.

SPECIAL EDUCATION COURSES

SPED 4030: Survey of Exceptionalities

Provides a study of various categories of disabilities to include etiology and effects of disability on various aspects of development.

SPED 4131: Assessment in Special Education

A survey of special education assessment procedures with a focus on alternate assessment procedures used in inclusive settings to link assessment and instruction.

Prerequisite: SPED 4030 or equivalent.

SPED 4132: Diagnostic Instruction for Learners With Special Needs

Covers the development and application of curricula, materials, methodologies and classroom practices in response to the strengths and needs of all low performing students in special education and inclusive settings. Field experiences required.

Prerequisite: SPED 4030 or equivalent.

SPED 4133: Individualizing Instruction for Students With Disabilities

This course is for undergraduate students only. Covers necessary adaptations to meet the learning needs of exceptional students, for prescriptive models for intervention and ways of observing, recording and responding to behaviors. Field experiences required.

Prerequisites: SPED 4030, 4131, 4132, 4231, 4331 or equivalents.

SPED 4231: Implementing Positive Behavior Supports

A comprehensive study of related legal and social issues and the implementation of techniques for supporting students with challenging behaviors in home and school settings. Field experiences required.

Prerequisite: SPED 4030 or equivalent.

SPED 4331: Families, Professionals and Students With Exceptionalities

Emphasis on the collaborative process between professionals and families of students with exceptionalities across programs and placements focusing on required skills across the lifespan.

Prerequisite: SPED 4030 or equivalent.

SPED 4332: Early Childhood Special Education

A study of infants and young children with special needs with a focus on the development of IFSPs; transitions from infant to early childhood programs and to general education. Field experiences required.

Prerequisite: SPED 4030.

SPED 4333: Advanced Early Childhood Special Education

This course will extend key topics in early childhood special education presented in the SPED/ECED 4332 course, specifically strategies and techniques used by practitioners in early childhood special education settings serving children birth to age 5. Field experiences required.

SPED 4737: Practicum in Special Education for Young Children

Fieldwork with infants and/or young children with special needs to include school based, agency based or private programs.

Prerequisites: Completion of all prior course work for the Early Childhood Handicapped Endorsement.

SPED 4839: Independent Study of Individual Differences

Prerequisites: Approval of instructor and Associate Dean.

SPED 4931: Selected Topics in Special Education

Identified by specific title each time course is offered.

STUDIES IN LANGUAGE AND CULTURE COURSES

SILC 4031: Spanish for Bilingual Teachers

Development of advanced reading and writing skills in Spanish with special emphasis on communication with the bilingual community. Course taught in Spanish.

Prerequisite: Fluency in Spanish.

SILC 4032: Introduction to the Study of Languages

Study of phonology, morphology, syntax and semantics of the English language.

SILC 4130: Foundations of Bilingual and ESL Education

Survey of social, political, economic and educational issues related to the development and implementation of bilingual education and ESL programs.

SILC 4131: ESL Methods

Emphasis on teaching English to second language learners in the ESL classroom and on putting theory into practice.

SILC 4132: Content-Based ESL

Issues related to the integration of content with ESL instruction. Emphasis on literacy, mathematics, science and social studies.

SILC 4133: Language Learning

Analysis of language acquisition and second language learning.

SILC 4134: Teaching ESL in the Bilingual Classroom

Methods of teaching English to second language learners in the bilingual classroom. Emphasis on the relationship between native language and second language development.

SILC 4135: Theories of American Pluralism

A review of theoretical foundations of pluralism and their impact on mainstream America.

SILC 4136: Bilingual Curriculum in the Content Areas

Study and design of the content area curriculum within a bilingual education program. Course taught in Spanish and English.

Prerequisites: Fluency in Spanish and SILC 4031.

SILC 4137: Developing Content Literacy in the Bilingual Classroom

Methods of developing English literacy in the bilingual classroom content areas. Emphasis is on the relationship between native language and second language development.

SILC 4138: Linguistic Diversity in Young Children

The purpose of this course is to examine the language development of children from birth to age 5. Emphasis is placed on first and second language acquisition, the role of the first language, and how second language development can be supported.

SILC 4531: Development of Biliteracy

A comprehensive study of theories and research dealing with the development of biliteracy. Course taught in Spanish and English.

Prerequisites: Fluency in Spanish and SILC 4031.

SILC 4839: Independent Study in Bilingual Education/EsL

Prerequisites: Approval of instructor and Associate Dean.

SILC 4931: Selected Topics in the Studies of Language and Culture

Identified by title each time course offered.

SYSTEMS ENGINEERING COURSES

SENG 4130: Introduction to Systems Engineering

Overview of the systems engineering discipline. Topics include the systems engineering process, fundamentals of engineering economy and an introduction to probability and expectation with systems engineering applications.

Prerequisite: Calculus III.

TEACHER EDUCATION COURSES

TCED 4010: Senior Seminar I

This course is designed to assist students to understand the State and federal rules and standards for their chosen field. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan.

Prerequisites: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

TCED 4012: Senior Seminar II

This course is designed to assist students to understand the State and federal rules and standards for their chosen field. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan.

Prerequisites: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

TCED 4013: Senior Seminar for Secondary Social Studies Programs

This course analyzes the state and federal rules and standards and explores the content for each discipline related to the social studies genre. Completion of the course is dependent upon candidates passing all state assessments required for their degree/certification plan.

Prerequisites: Admission to Teacher Education Program and an approved, signed degree or certification plan on file in the SoE.

TCED 4033: Creating Positive Learning Environments in EC-6

Theories and strategies for guiding young children's behavior and for effectively managing EC-6 classroom environments. Focus will be on approaches that promote autonomy in children.

Prerequisites: Completion of WRIT 3037 with a B- or better and completion of INST 3133 with a passing grade.

TCED 4034: Creating Positive Learning Environments in 4-8 & 8-12

Theories and strategies for guiding children's behavior and for effectively managing classroom environments. Focus will be on approaches that promote autonomy in children.

Prerequisites: Completion of WRIT 3037 with a B- or better and completion of INST 3133 with a passing grade.

TCED 4037: Mathematics and Science for Young Children Birth- Age 5

This course will cover mathematics and science concepts, as well as content methods and strategies for children birth-age five. Field experience required.

TCED 4231: Social Studies Methods for EC-6

Curriculum planning, instructional activities and assessment techniques for developing social studies knowledge, citizenship and critical thinking skills; emphasis on sound practice and research based strategies for teaching social studies for EC-6 students. Field experiences required.

Prerequisites: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4033.

TCED 4232: Science Methods for EC-6

Development of science concepts in EC-6 instruction. An emphasis on curriculum materials and the process approach as a science teaching method. Field experiences required.

Prerequisites: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4033.

TCED 4233: Mathematics Methods for EC-6

Methods of developing students' understanding of mathematics; emphasis on problem solving with manipulative and curriculum materials appropriate for use with EC-6 students. Field experiences required.

Prerequisites: MATH 3032, and admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4033.

TCED 4331: Social Studies Methods for Grades 4-8

Curriculum planning, instructional activities and assessment techniques for developing social studies knowledge, citizenship and critical thinking skills; emphasis on best practice and research based strategies for teaching social studies for 4-8 grade students. Field experiences required.

Prerequisites: TCED 4034 and admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4332: Science Methods for Grades 4-8

Development of science concepts and teaching strategies for grades 4-8. Emphasis on the inquiry approach to teaching science consistent with concepts of cognitive development. Integrated Physics and Chemistry will also be addressed as well as the use of technology in the science classroom. Field experiences required.

Prerequisites: TCED 4034 and admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4333: Mathematics Methods for Grades 4-8

Methods of developing students' understanding of mathematics. Emphasis on problem solving with manipulative and curriculum materials appropriate for use with 4-8 students. Algebraic and graphing technology will be addressed. Field experiences required.

Prerequisites: MATH 3037, admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4631: Methods in Secondary Social Studies

Strategies for developing social studies activities; emphasis on instructional techniques, content disciplines, local community, values and controversial issues and national trends. Field experiences required.

Prerequisites: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4632: Methods in Secondary Science

Strategies for teaching secondary science; emphasis on laboratory management and safety, development of scientific reasoning and issues and trends in secondary science education. Field experiences required.

Prerequisites: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4633: Methods in Secondary Mathematics

Strategies for teaching secondary mathematics; emphasis on instructional techniques appropriate for secondary mathematics, development of problem-solving skills and issues and trends in secondary mathematics education. Field experiences required.

Prerequisites: MATH 3034 or equivalent, Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034 and completion of ENGL 2311, ENGL 2314 or WRIT 3037 with a grade of C+ or better.

TCED 4634: Methods in Technology

Strategies for teaching technology applications; emphasis on instructional techniques, development of problem-solving skills and issues and trends in technology applications. Field experiences required.

Prerequisites: Admission to Teacher Education Program, successful completion of or concurrent enrollment in TCED 4034.

TCED 4668: Pre-Service Internship II- Generalist

This Internship II course is restricted to students in EC-6 Generalist (Early Childhood Concentration) and the 4-8 Generalist programs. Supervised field experiences conducted in a public school setting.

Prerequisites: TCED 4738 and approval of the Associate Dean.

TCED 4709: Post-Degree Internship in Teaching

This internship is restricted to members of UHCL's Alternative Certification Program.

Prerequisites: TCED 4768 and TCED 4769 and approval of the Associate Dean.

TCED 4736: Integrated Methods- Applying eXperience (IMAX)

Serves as an alternative to the EC-6 Generalist Internship I. The four required methods courses (LLS 4434, TCED 4231, TCED 4232 and TCED 4233) must be taken concurrently with TCED 4736.

Prerequisites: Admission to the IMAX track

TCED 4737: THECB Aide Project

Supervised field project under the joint supervision of a public school district and the UHCL Center for Professional Development of Teachers. Student must be enrolled in the Texas Higher Education Coordinating Board (THECB) Aide Program.

Prerequisites: Admission to Teacher Education Program and approval of the Associate Dean.

TCED 4738: Pre-Service Internship I

Supervised field experience conducted in a public school setting.

Prerequisites: Approval of Associate Dean and completion of WRIT 3037 with a grade of C+ or better.

TCED 4768: Post-Degree Internship I

Post-baccalaureate internship with joint supervision by the school district where the intern is employed and the UHCL Center for Professional Development of Teachers.

Prerequisite: Approval of Associate Dean.

TCED 4769: Post-Degree Internship II

Post-baccalaureate internship with joint supervision by the school district where the intern is employed and the UHCL Center for Professional Development of Teachers.

Prerequisite: Approval of Associate Dean.

TCED 4798: Pre-Service Internship II

Supervised field experiences conducted in a public school setting.

Prerequisites: TCED 4738 and approval of the Associate Dean.

TCED 4839: Independent Study in Teacher Education

Prerequisites: Approval of instructor and Associate Dean.

TCED 4931: Selected Topics in Teacher Education

Identified by title each time course is offered.

WOMEN'S STUDIES COURSES

WMST 4038: Introduction to Women's Studies

General introduction to the status of women in many academic disciplines. (Crosslisted with HUMN 4038, PSYC 4038, SOCI 4038).

WMST 4131: Latinas in the United States

Course focuses on the experiences and contributions of Latinas in the United States, using race, class and sexuality as analytical tools to explore these experiences.

WMST 4132: Women of Color

Focuses on diverse experiences of women of color, using race, class and sexuality as analytical tools to explore these experiences. Course content may vary; may be repeated for credit with permission of instructor.

WMST 4133: Women and Gender in Latin America

This course examines multiple approaches to feminism among Latin American women and Latinas in the U.S., paying special attention to intersections of gender, race and class in diverse feminisms.

WMST 4134: Latina and Latin American Feminisms

This course invites students to use the historical record to imagine and analyze gender and the roles of women in Latin America.

WMST 4136: Women and the Law

Evolution of women's legal rights in the United States. Examination of contemporary issues in context of human rights law. Legal status of women in economic, political and judicial sectors. (Crosslisted with SOCI 4136).

WMST 4231: Feminist Ethics/Methodologies

Course will examine feminist methodologies, their applications and the ethical dilemmas that are inherent in research on women and gender.

WMST 4334: Psychology of Women

Development of sex differences and sex roles; modern viewpoints on gender appropriate behavior.

WMST 4337: Violence Against Women

Global perspectives of violence against women by men. Topics include rape, sexual abuse, incest, female genital mutilation, battering, sexual slavery, and sexual harassment.

WMST 4537: Women in Literature

Heroines from Eve to Beloved; literature constructs the female; emphasis on nineteenth and twentieth century works.

WMST 4539: Women in the Visual Arts

Feminist art theory and criticism, experiences of women artists in 20th century. Issues such as reclaiming past histories, seeking forms to valorize feminine experience, exploring personal identity.

WMST 4732: Seminar in Women's Studies

Prerequisite: Any previous course with Women's Studies content.

An advanced course in Women's Studies, design to acquaint the student with contemporary issues in scholarship on women's and gender studies across the disciplines. Topics may include feminist theories, methodologies, ethics, and philosophies. (Crosslisted with HUMN 4732/PSYC 4732)

WMST 4819: Independent Study in Women's Studies

Independent Study in Women's Studies. Permission of instructor required.

WMST 4839: Independent Study in Women's Studies

Independent Study in Women's Studies. Permission of instructor required.

WMST 4931: Selected Topics in Women's Studies

Identified by specific title each time course is offered.

WRITING COURSES

*Pending Coordinating Board approval

WRIT 3035: Intermediate Writing

A review of basic grammar. Focus on the writing of short papers, themes and reports.

Prerequisite: 6 hours of lower-level English.

WRIT 3037: Advanced Writing

From invention of ideas to strategies appropriate to various kinds of writing. Models of organization, analysis of style, role and importance of mechanics and syntax.

WRIT 3132: Written Communications in Business

Theory and practices of business communications; preparation of effective letters, policy statements, procedures, reports and related documents.

WRIT 3135: Technical Writing

Approaches to the writing of technical documents: proposal reports, manuals and descriptions.

WRIT 3231: Tutor Training Practicum

Prepares students to work as writing center peer tutor. Emphasis placed on learning about composing process and tutoring strategies.

Prerequisite: Permission of instructor.

***WRIT 4931: Selected Topics in Writing**

Identified by specific title each time course is offered. Topics vary. May be repeated for credit.

UNIVERSITY OF HOUSTON SYSTEM

BOARD OF REGENTS

WELCOME W. WILSON, SR., CHAIRMAN

JIM P. WISE, VICE CHAIRMAN

NELDA LUCE BLAIR, SECRETARY

(Reflects changes through 6/1/10)

MEMBERS

Kristen Lindley <i>Terms Expiring May 31, 2010</i>	Victoria
Carroll Robertson Ray	Houston
Jim P. Wise	Houston
Welcome Wade Wilson, Sr. <i>Terms Expiring August 31, 2011</i>	Houston
Nelda Luce Blair	Houston
Mica Mosbacher	Houston
Jacob M. Monty <i>Terms Expiring August 31, 2013</i>	Houston
Nandita V. Berry	Houston
Tilman J. Fertitta	Houston
Jarvis V. Hollingsworth <i>Terms Expiring August 31, 2015</i>	Houston

UNIVERSITY OF HOUSTON SYSTEM ADMINISTRATION

Chancellor	Renu Khator, Ph.D.
Senior Vice Chancellor for Academic Affairs and Provost	John J. Antel, Ph.D.
Executive Vice Chancellor for Administration and Finance	Carl Carlucci, Ph.D.
Vice Chancellor for Governmental Relations	Grover S. Campbell, M.B.A.
Vice Chancellor for Student Affairs	Elwyn C. Lee, J.D.
Vice Chancellor for University Advancement	Michael D. Rierson, M.A.
Vice Chancellor for Research	Donald L. Birx, Ph.D.
Vice Chancellor for Legal Affairs and General Counsel	Dona H. Cornell, J.D.
Executive Associate to the Chancellor for Community Relations	James E. Anderson, Ph.D.
Associate Vice Chancellor for Planning and University Outreach	Edward T. Hugetz

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President, Wharton County Junior College	Betty A. McCrohan

UNIVERSITY OF HOUSTON-CLEAR LAKE ADMINISTRATION

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Associate Vice President, Academic Affairs	Mrinal Mugdh, Ph.D.
Executive Director of International Initiatives	Vacant
Executive Director for Institutional Effectiveness	Simone Tiu, Ed.D.
Associate Vice President, Enrollment Management	Yvette M. Bendeck, Ph.D.
Executive Director of Student Financial Aid	Billy Satterfield, Ed.D.
Executive Director of Admissions	Rauchelle Jones, B.A.
Registrar, Director of Academic Records	Vacant
Director of Distance and Off-Campus Education	Lisa Gabriel, M.A.
Associate Vice President, Information Resources	A. Glen Houston, Ph.D.
Executive Director for University Computing and Telecommunications	Rodger G. Carr, B.S.
Director, Technical Services	Jerry Jones, A.A.
Director, Planning and Assessment	Leslie Cummings, Ph.D.
Director, Information Security and Projects	Margaret Lampton, M.B.A.
Director, IT Support Center and Infrastructure	Mike Livingston, B.S.
Director, Business and Learning Applications	Ed Puckett, M.Ed.
Executive Director of Sponsored Programs	Paul E. Meyers, Ph.D.
Executive Director, Neumann Library	Karen Wielhorski, M.L.S., M.A.
Director, Online Program Development	Shanta Goswami, Ph.D.
Associate Vice President, Student Services	Darlene Biggers, Ph.D.
Dean of Students	Anthony Jenkins, Ph.D.
Director of the Student Success Center	Timothy Richardson, M.A.
Director of Career and Counseling Services	Alfred J. Kahn, Ph.D.
Director of Health and Disability Services	Susan Leitner Prihoda, R.N., F.N.P., M.S.
Assistant Dean of Student Life	David Rachita, M.A.
Assistant Dean Student Diversity	Linda Bullock, M.A.
Director of Writing Center	Chloe Diepenbrock, Ph.D.
Director of Student Publications	Taleen Washington
Dean, School of Business	Wm. Theodore Cummings, Ph.D.
Associate Dean, School of Business	Vacant
Dean, School of Education	Dennis W. Spuck, Ph.D.
Associate Dean, School of Education	Katherine Matthew, Ed.D.
Dean, School of Human Sciences and Humanities	Bruce Palmer, Ph.D.
Interim Associate Dean, School of Human Sciences and Humanities	Robert A. Bartsch, Ph.D.
Dean, School of Science and Computer Engineering	Zbigniew Czajkiewicz, Ph.D.
Interim Associate Dean, School of Science and Computer Engineering	Dennis Casserly, Ph.D.
Vice President for Administration and Finance	Michelle Dotter, B.B.A.
Executive Director of Human Resources	Katherine Justice, M.S.W.

Executive Director of Budget	Jean Carr
Director of Risk Management	Harry C. Stenvall, B.S.
Director of Police.	Paul Willingham, B.S.
Associate Vice President, Finance	John Cordary, B.B.A.
Executive Director of Procurement and Payables	Debbie Carpenter, B.B.A.
Director of Accounting	Usha Mathew, M.S.
Director of Cashier and Collections	Christine Ross
Director of Operations Support	Richard Adams, B.F.A.
Assistant Vice President, Facilities Management and Construction	Ward Martaindale, B.S.
Director of Building Maintenance/Utilities and Fleet Management	Pamela E. Groves, M.S.
Director of Planning, Interior Design and Contract Administration	Daniel Wilson, M.A.
Director of Grounds and Custodial	Derrell Means
Manager of Bookstore	Kate Dominguez, M.B.A.

UNIVERSITY OF HOUSTON-CLEAR LAKE

FACULTY

Reflects changes through 5/1/2010

ABEYSEKERA, KRISHANI

Lecturer/System Administrator of Computer Science and Computer Information Systems; B.S., M.S., University of Houston-Clear Lake

AKLADIOS, MAGDY

Assistant Professor Industrial Hygiene and Safety, B.S., Cairo University; M.B.A., M.S.I.E., M.S., Ph.D., West Virginia University

AL-MUBAID, HISHAM

Program Chair of Computer Information Systems and Associate Professor of Computer Science and Computer Information Systems; B.S., University of Jordan; M.S., Ph.D., University of Texas at Dallas

AMONETTE, WILLIAM E.

Lecturer in Fitness and Human Performance; B.S., M.A., University of Houston-Clear Lake

ATWATER, VIVIAN W.

Associate Professor of Art History; B.A., University of Washington, Seattle; M.A., University of Washington; Ph.D., University of Washington

AYADI, MARY O.

Assistant Professor of Healthcare Administration; B.S., University of Ibadan; M.A., Georgia State University; Ph.D., Georgia State University

BARTSCH, ROBERT A.

Interim Associate Dean of School of Human Sciences and Humanities and Associate Professor of Psychology; B.A., Rice University; M.A., Ph.D., University of Colorado

BECHTOLD, JOY M.

Instructor of Early Childhood Education; B.A., South-Eastern College; M.Ed., Millersville University; Ph.D. candidate, Pennsylvania State University

BENDECK, YVETTE M.

Associate Vice President for Enrollment Management and Professor of Finance; B.S., M.S., Georgia Tech; Ph.D., Arizona State University

BENSON, JAMES C.

Associate Professor of Legal Studies; B.A., Texas A&M University; M.A., Ph.D., Sam Houston State University; J.D., University of Houston

BERGMAN, JUDY

Lecturer in Mathematics; B.A., University of Michigan at Ann Arbor; M.Ed., University of Toledo; M.A., University of Houston-Clear Lake

BETTAYEB, SAÏD

Professor of Computer Science and Computer Information Systems; Diplôme d'ingenieur, University of Constantine, Algeria; M.S., Ph.D., Northwestern University

BLACK, KEN

Professor of Decision Sciences; B.A., Graceland College; M.A., University of Texas at El Paso; Ph.D., Ph.D., University of North Texas

BOETTICHER, GARY D.

Associate Professor of Computer Science, Computer Information Systems and Software Engineering; B.S., University of Delaware; M.S., West Virginia College of Graduate Studies; Ph.D., West Virginia University

BOZKURT, IPEK

Assistant Professor of Engineering Management; B.S., Hacettepe University; M.S., Ph.D., Old Dominion University

BRADLEY, BRENT

Associate Professor of Family Therapy; B.A., University of North Carolina at Charlotte; M.A., Reformed Theological Seminary; M.A., Fuller Theological Seminary; Ph.D., Fuller Graduate School of Psychology

BROWN, SUZANNE E.

Program Area Chair for Curriculum and Instruction and Associate Professor of Curriculum and Instruction; B.S., Southwest Texas State University; M.S., Ph.D., Texas A&M University

BROWNING, SANDRA

Assistant Professor of Curriculum and Instruction; B.A., Sam Houston State University; M.S., Stephen F. Austin State University; Ph.D., University of the Incarnate Word

BRUNO, SAM J.

Professor of Marketing; B.B.A., Lamar University; M.S., Ph.D., Louisiana State University

BRYANT, VERNON

Lecturer in Computer Engineering; B.S., University of Houston; M.S., University of Houston-Clear Lake

BURT, WINONA M.

Assistant Professor of Educational Foundations; B.A., Saint Edward's University; Ph.D., University of Texas at Austin

CARMAN, CAROL

Assistant Professor of Educational Foundations; B.S., M.S., Texas A&M University; Ph.D., University of Kansas

CARTER, CHARLENE

Clinical Assistant Professor in Reading and Language Arts; B.S., Stephen F. Austin State University; M.Ed., Ed.D., University of Houston

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INDEX

2

2 + 2 Transfer Plans • 28

6

6-Drop Rule • 78

A

A Metropolitan University • 7
Academic Advising • 32
Academic Appeals • 85
Academic Fresh Start • 18
Academic Honesty Policy • 86
Academic Probation • 83
Academic Record Changes • 62
Academic Record Services • 61
Academic Standards • 82
Academic Status • 83
Academic Suspension • 83
Acceptance into a Degree Program • 19
Accessible Student Services • 96
Accountability and Accreditation • 114
Accounting Courses • 249
Accreditations • 9
Accredited Institutions • 16
Additional Bachelor's Degrees • 91
Administrative Withdrawals • 78
Admission into a Degree Plan • 224
Admission into a HSH Degree Plan •
176
Admission Policies and Procedures • 16
Admission Requirements • 20
Admission Requirements for
Alternative Certification Program •
119
Admission to Pre-Service Internships I
and II • 170
Admission to Pre-Service Internships I
and II For Undergraduate Students
• 154

Admission to the BSW Plan • 214
Admission to the Teacher Education
Program • 153
Admission to the Teacher Education
Program for Post-Degree Teacher
Certification Students • 172
Admissions • 15
Admissions Communications • 19
Advising Offices • 33
Alfred R. Neumann Library • 10
Alternative Certification Program •
119
American Studies
Path 5 • 200
Anthropology (Bachelor of Science) •
177
Anthropology Courses • 251
Appeal Process for Denial Based on
Unsatisfactory Progress • 40
Appeals for Admission Process • 19
Appeals of Academic Program or
Degree Requirements • 86
Appeals Process • 79
Application Deadlines • 29
Application Fees • 16
Applied Design and Visual Arts
(Bachelor of Fine Arts) • 179
Applied Design and Visual Arts with
EC-12 Art Certification (BFA) •
185
Applying for Admission • 29
Applying for Certification • 123
Applying for Financial Aid • 38
Applying for Graduation • 93
Arts Courses • 252
Assessment of General Education Core
Competencies • 24
Astronomy and Space Science Courses
• 255
Auditing Courses • 49
Availability of Courses • 47

Awarding of Aid • 38
Awarding of Grades once the 6-Drop
Limit has been Reached • 79

B

B.A. in Biological Sciences with 8-12
Life Sciences Certification • 144
B.A. in History with 8-12 History
Certification • 140
B.A. in History with 8-12 Social
Studies Certification • 143
B.A. in Literature with 4-8 English
Language Arts and Reading
Certification • 135
B.A. in Literature with 8-12 English
Language Arts & Reading
Certification • 139
B.A. in Mathematics with 4-8
Mathematics Certification • 137
B.A. in Mathematics with 8-12
Mathematics Certification • 145
B.F.A. in Applied Design and Visual
Arts with EC-12 Art Certification •
149
B.S. in Interdisciplinary Studies with 4-
8 Science Certification • 133
B.S. in Geography with 8-12 Social
Studies Certification • 142
B.S. in Interdisciplinary Studies with 4-
8 ESL Generalist Certification • 132
B.S. in Interdisciplinary Studies with 4-
8 Generalist Certification • 130
B.S. in Interdisciplinary Studies with 4-
8 Social Studies Certification • 134
B.S. in Interdisciplinary Studies with
EC-6 Bilingual Generalist
Certification • 124
B.S. in Interdisciplinary Studies with
EC-6 ESL Generalist Certification •
127

B.S. in Interdisciplinary Studies with
EC-6 Generalist and EC-12 Special
Education (All Level) Certification •
128
B.S. in Interdisciplinary Studies with
EC-6 Generalist Certification (Early
Childhood Concentration) • 125
B.S. in Interdisciplinary Studies with
EC-6 Generalist Certification
(Reading Concentration) • 126
B.S. in Mathematics with 8-12
Mathematics Certification • 146
B.S. in Physical Sciences with 8-12
Physical Sciences Certification • 147
BA Degree in Biological Science sub-
plan in General Biology (29 hours) •
236
BA in Biological Science sub-plan for
Teacher Certification • 236
Bachelor of Applied Science Degree
(BAS) • 20
Bachelor of Arts and Bachelor of
Science Degrees • 20
BAS in Interdisciplinary Studies with a
major in Early Childhood Education
– Early Childhood Program
Leadership Track • 152
BAS in Interdisciplinary Studies with a
major in Early Childhood Education
– Educator of Young Children
Track • 150
BAS in Interdisciplinary Studies with a
major in Early Childhood Education
– Young Children with Disabilities
Track • 151
Basic Preparation for BS Degree • 232
Basic Preparation for the BA Degree in
Mathematical Science • 232
Behavioral Sciences-General (Bachelor
of Science) • 182
Biological Sciences • 235
Biology Courses • 255

Biology Scholars Plan - Linked BS-MS
Degree Plans in Biology • 240
Board of Regents • 312
BSW and Certificate in Women's
Studies Option • 215
BSW Degree Requirements • 214
BSW Professional Foundation Courses
• 214
Business and Public Administration
Courses • 259

C

Cancellation of Registration • 48
Career and Counseling Services • 65
Career Services • 65
Celebrating Our Elders Scholarship
Project • 70
Cell/Molecular/Biotechnology
Specialization Area (32 Hours) •
237
Census Date • 49
Center for Educational Programs • 117
Center for Professional Development
of Teachers • 117
Centers and Offices • 117
Certification • 119
Changing Careers or Classifications •
24
Check-In • 32
Chemistry • 242
Chemistry Courses • 259
Class Attendance • 77
Class Enrollment • 48
Co-Enrollment (International
Students) • 30
College Work Study • 42
Communication (Bachelor of Arts) •
186
Communication and Technology
Path 6 • 200
Communication Courses • 261

Community College Advisory Council
to the University of Houston-Clear
Lake • 312
Computer Engineering • 233
Sub-plan in Signals and Controls •
235
Sub-plan in Software Engineering •
235
Sub-plan in Telecommunications •
235
Computer Engineering Courses • 263
Computer Engineering Requirements •
234
Computer Information Systems • 225
Basic Requirements • 225
Core Requirements • 226
Program Educational Objectives •
225
Suggested Plan of Study • 227
Technical Electives • 226
Computer Information Systems
Courses • 265
Computer Science • 228
Basic Requirements • 228
Core Requirements • 229
Program Educational Objectives •
228
Required Electives • 229
Suggested Plan of Study • 229
Computer Science Courses • 266
Computer Systems and Security Sub-
plan • 227
Computing and Telecommunications •
11
Computing Fee • 52
Concentration in Art History within
the Studio Arts Sub-Plan • 181
Concurrent Enrollment (non-degree-
seeking) • 21
Content Courses Waived for Post-
Degree Teacher Certificates • 173
Core courses for the BS Degree in
Biological Sciences (28 hours) • 237

Core Curriculum Requirements • 89
Core Requirements for Business
Majors • 103
Counseling and Testing Services • 66
Course Delivery Formats • 95
Course Load • 77
Creative Works
Path 3 • 200
Credit by Examination • 25
Credit Hour Maximum and Tuition
Charges • 51
Criminal Background Checks • 116
Criminology (Bachelor of Science) •
188
Criminology Courses • 269
Criteria for Satisfactory Academic
Progress • 39

D

DE Admission Requirements • 96
Dean of Students • 66
Dean's List • 84
Decision Sciences Courses • 270
Definitions and Regulations • 50
Degree and 4-8 Teacher Certification
Requirements • 129
Degree and 8-12 Teacher Certification
Requirements • 138
Degree and EC-12 Teacher
Certification Requirements • 149
Degree and EC-6 Teacher Certification
Requirements • 123
Degree Requirements • 190
Degrees Offered • 75
Degree-Seeking Versus Non-Degree-
Seeking Status • 47
Department of Education
Accountability • 114
Descriptions of Letter Grades • 80
Designated Differential Tuition • 53
Detours and Connections
Path 10 • 201

Developmental or Remedial Course
Work • 17
Directions • 3
Directory • 2
Disability Services • 68
Disbursement of Funds • 39
Distance and Off-Campus Education •
95
Division of Computing and
Mathematics • 224
Division of Engineering • 233
Division of Natural Sciences • 235
Documentation for Admission from
International Institutions • 17
Documentation for Admission from
U.S. Institutions • 16
Double Majors • 92
Drop/Withdrawal Mark • 78
Dropping From a Class but Retaining
Half-Time Status • 41
Drops that Count towards the Limit •
79

E

Early Admissions • 21
Early Childhood Education Courses •
270
Ecology/Microbiology/Aquatic &
Marine Biology Specialization Area
(32 Hours) • 238
Economics Courses • 272
Education Courses • 272
E-mail • 19
E-mail as Official Communication • 38
Encumbrance Holds or Service
Indicators • 18
English Proficiency • 27
English Proficiency Requirements for
Students Educated Outside of the
United States • 30
Enrollment and Grading Policies • 76

Environmental Management Courses •
272
Environmental Science • 244
Environmental Science Courses • 273
E-Services Fee • 53
Excessive Undergraduate Hours Three-
peat Fee • 54
Exemptions • 26
Exit Interview • 42
Extended Access and Support Fee • 52

F

Faculty Emeriti • 334
Fee Schedule • 58
Fee Schedule (continued) • 59
Fee Schedule Codes • 58
Fee Waiver for Senior Citizens to Audit
Courses • 49
Fees • 52
Field Experience Courses • 116
Film
Path 7 • 201
Finance Courses • 273
Financial Aid • 37
Financial Aid and scholarships • 96
Financial Aid Policy for Students
withdrawing from the University •
41
Financial Aid Programs • 37
Fire Services Administration Courses •
275
Fire Services Administration Sub-Plan
• 213
Fitness and Human Performance
(Bachelor of Science) • 190
Fitness Center • 72
Forensic Biology Specialization Area
(33 Hours) • 239
Former UHCL Students • 24
Full-Time/Part-Time Status Course
Load • 77

G

General Certification Information •
121
General Degree Requirements for
Business and Public Administration
Degrees • 102
General Degree Requirements for
Public Administration Plans • 108
General Information • 15, 95
General Program Requirements • 75
General Residency Requirements • 51
Geography (Bachelor of Science) • 192
Geography Courses • 275
Geography with 8-12 Social Studies
Certification (BS) • 194
Geology Courses • 276
Governance • 9
Grade Appeals • 85
Grade Changes • 82
Grade Code Associated with the 6-
Drop Rule • 79
Grade Discrepancies • 62
Grade Point Average (GPA) • 81
Grade Reports • 62
Grading System • 80
Graduate Teacher Certification Plans •
169
Graduation under a Particular Catalog
• 92
Graduation with Honors • 93
Graphic Design Certificate • 184
Graphic Design Sub-Plan • 184

H

Hazlewood Act • 43
Hazlewood Exemption Deadline • 44
HB 269 Military Service Credit • 28
Health and Disability Services • 68
Health Courses • 277
Health Insurance • 31
Health Services • 68

Healthcare Administration Courses •
278
History (Bachelor of Arts) • 195
History Courses • 280
History with 8-12 History
Certification (BA) • 196
History with 8-12 Social Studies
Certification (BA) • 197
Honor Societies • 72
Humanities (Bachelor of Arts) • 198
Humanities and Fine Arts • 176
Humanities Courses • 281, 282

I

In Progress Grade • 82
Incomplete Grade and Incomplete
Grade Contract • 81
Industrial Hygiene & Safety Courses •
282
Information Systems Administration
and Management Courses • 284
Information Technology • 230
Basic Requirements • 230
Core Requirements (39 Hours) • 230
Technical Electives (21 Hours) • 231
Information Technology Courses • 285
Information Technology sub-plans •
231
Installment Payment of Tuition and
Fees • 54
Instructional Technology Courses •
286
Intercultural and International Student
Services • 69
International Admissions • 29
International Conditional Admission •
30
International Education Fee • 54
IT Management and Administration
sub-plan • 231

L

Late Registration • 48
Latino/Latina Studies
Path 8 • 201
Learning Resources Review Center •
119
Legal Studies Courses • 286
Limitation on Business Courses for
Non-Business Majors • 91
Literacy, Language and Library Science
Courses • 288
Literature (Bachelor of Arts) • 203
Literature Courses • 288
Literature with 4-8 English Language
Arts & Reading Certification (BA) •
205
Literature with 8-12 English Language
Arts & Reading Certification (BA) •
206
Looking Back
Establishment of UHCL • 8
Lower-level credit • 25
Lower-Level Requirements • 89

M

Management Courses • 290
Marketing Courses • 292
Mathematical Science • 231
Mathematics Center • 12
Mathematics Courses • 293
Military Science Courses • 295
Missed Examinations and Assignments
• 84

N

NCATE Accreditation • 115
Neumann Library Professional staff •
336
New Applicants to UHCL • 20
New Students Information • 15
Non-degree-seeking Status • 29

Non-Traditional Credit • 27
Notification of Admission • 19

O

Off-Campus Programs by Locations •
97
Office of Academic Advising • 118
Office of Educator Certification • 118
Office of State Assessments • 118
Office of the Associate Vice President •
65
Online Programs • 97
Option for Certificate in
Biotechnology • 241
Orientation • 69, 71
Overview • 7

P

Parking Fee • 52
Paths to the Modern World
Path 1 • 199
Personal Information Changes • 62
Philosophy Courses • 296
Physical Sciences • 246
Physics • 247
Physics Courses • 296
Physiology/Pre-Health Specialization
Area (32 Hours) • 238
Plan Degree Requirements for Business
Majors • 103
Plan Degree Requirements for Public
Administration Plans • 109
Plans with Teacher Certification • 123
Plans without Teacher Certification •
150
Plant Biology Specialization Area (32
Hours) • 239
Policy on Professional Dispositions •
116
Policy on Release of Student Records •
63

Political Science (Bachelor of Science) •
207
Political Science Courses • 298
Post-baccalaureate Enrollment • 22
Post-Baccalaureate Teacher
Certification Plan 4-8 English
Language Arts and Reading • 160
Post-Baccalaureate Teacher
Certification Plan 4-8 English
Language Arts, Reading and Social
Studies • 161
Post-Baccalaureate Teacher
Certification Plan 4-8 Generalist •
162
Post-Baccalaureate Teacher
Certification Plan 4-8 Mathematics
• 163
Post-Baccalaureate Teacher
Certification Plan 4-8 Science • 164
Post-Baccalaureate Teacher
Certification Plan 4-8 Social Studies
• 164
Post-Baccalaureate Teacher
Certification Plan 8-12 English
Language Arts and Reading • 165
Post-Baccalaureate Teacher
Certification Plan 8-12 History •
166
Post-Baccalaureate Teacher
Certification Plan 8-12 Life Sciences
• 166
Post-Baccalaureate Teacher
Certification Plan 8-12 Mathematics
• 167
Post-Baccalaureate Teacher
Certification Plan 8-12 Social
Studies • 168
Post-Baccalaureate Teacher
Certification Plan EC-12 Special
Education (All-Level) • 168
Post-Baccalaureate Teacher
Certification Plan EC-6 Bilingual
Generalist • 159

Post-Baccalaureate Teacher
Certification Plan EC-6 ESL
Generalist • 160

Post-Baccalaureate Teacher
Certification Plan EC-6 Generalist
(Early Childhood Concentration) •
159

Post-Baccalaureate Teacher
Certification Plans • 157

Post-Baccalaureate Teacher
Certification Plans: • 158

Post-Degree Teacher Certification
Plans • 157

Preamble and Code • 86

Pre-Health Professions Students • 240

Pre-Law Sub-Plan • 201

Preparation for Admission to the BFA
Program • 179

Pre-Physical Therapy Sub-Plan • 191

Pre-Service Internship I • 154, 170

Pre-Service Internship II (TCED 4798
or TCED 4668) • 155, 171

Procedure to Apply for English
Proficiency Waiver • 31

Professional Development Laboratory
School • 117

Psychology (Bachelor of Science) • 209

Psychology Courses • 299

Public Service Leadership (Bachelor of
Science) • 211

Publication and Transcript Fee • 53

Q

Qualified Alternative Certification
Program Students • 120

Qualifying for Financial Aid Programs
• 37

R

Reaching Out
Creation of UHCL Pearland Campus
• 8

Readmission or Status Change Process
• 24

Rebates or Exemptions from Tuition
and Fees • 55

Records • 88

Records Retention and Release • 18

Refund Distribution Priority • 41

Refund Policies • 60

Refunds on Withdrawals • 60

Registration • 47, 96

Registration and Records Services • 47

Registration Discrepancies • 48

Reinstatement • 83

Religious Studies
Path 9 • 201

Repeated Courses • 82

Repeated Transfer Courses • 18

Required Courses • 187

Required courses for Forensic
Chemistry Specialization Area • 244

Required Courses or their equivalents
for sub-plans in Environmental
Science • 245

Requirements and Standards for Plans
in Computing and Mathematical
Science • 224

Requirements for the BA Degree in
Biological Sciences • 236

Requirements for the BA Degree in
Chemistry • 242

Requirements for the BS Degree in
Biological Sciences • 237

Requirements for the BS Degree in
Chemistry • 243

Requirements for the BS Degree in
Environmental Science • 245

Requirements for the BS Degree in
Physical Sciences • 246

Requirements for the BS Degree in
Physics • 247

Requirements for Undergraduate Plans
• 224

Research Center for Language and Culture • 118
Resident Credit • 77
Roster of Courses • 249

S

Satisfactory Academic progress • 43
SBEC/TEA Accreditation • 116
Schedule of Charges and Special Fees • 55
Schedule of DE Classes • 96
Scholarships • 42
School of Business • 20, 101
School of Education • 20, 113
School of Human Sciences and Humanities • 175
School of Science and Computer Engineering • 223
Science and Computer Engineering • 21
Social Work (Bachelor of Social Work) • 213
Social Work Courses • 301
Sociology (Bachelor of Science) • 216
Sociology Courses • 303
Software Engineering Courses • 305
Spanish Courses • 306
Special Education Courses • 306
Special Events Program • 71
Special Fees • 57
Specialization Areas in Biological Science • 237
Standards and Requirements for Degrees in the School of Science and Computer Engineering • 224
State Assessments Information • 121
State Board for Educator Certification (SBEC)/Texas Education Agency (Tea) • 123
Status Descriptions • 15
Student Advocacy • 67
Student Assistance Center • 67

Student Center Fee • 53
Student Financial Responsibility • 61
Student Housing • 70
Student Life • 71
Student Organizations & Student Government Association • 71
Student Publications • 72
Student Qualification and Assessment Information • 24
Student Responsibility • 76
Student Service Fee • 52
Student Services • 65
Student Success Center • 67
Student Travel Policy • 68
Student-Initiated Withdrawals • 78
Studies in Language and Culture Courses • 307
Studio Arts Sub-Plan Requirements • 181
Summer Transient Student Enrollment (non-degree-seeking) • 23
Systems Engineering Courses • 308

T

Teacher Certification • 22
Teacher Education Courses • 308
Telecommunications Sub-plan • 227
Testing Requirements • 25
Texas Success Initiative (formerly THEA) • 25
The Campus • 10
The Modern and Post-Modern World Path 2 • 200
The Paths (27 hours) • 199
The University • 7
THECB Aide Exemption Program • 156
THECB Requirements of the Students • 156
Time Conflict Enrollment • 49
Time Limitation on Course Work Prior to Admission • 90

Transcripts • 62
Transcripts, Records and Transfer
Work • 16
Transfer Credit Dispute • 27
Transfer Credit Information • 27
Transfer of Undergraduate Credit • 27
Transfer-In Policy • 29
Transient Student Enrollment (non-
degree-seeking) • 22
TSI Examinations • 26
Tuition • 50
Tuition and Fees • 49
Tuition Designated Fee • 52
Tuition Recovery Fee • 53
Tuition Residence Regulations and
Appeals • 50

U

UHCL Alumni Association • 12
UHCL Requirements of THECB Aide
Project Students to Waive
Internships I and II • 156
UHCL-NCBI Campus Affiliate • 70
Undergraduate Catalog 2010-2011 • 1
Undergraduate Computing Degrees •
225
Undergraduate Degrees Conferred • 75
Undergraduate Enrollment in
Graduate Courses • 85
Undergraduate Plans Offered • 75
Undergraduate Requirements for all
Business and Public Administration
Degrees • 102
Undergraduate Standing • 84
Unilink • 23
University Degree Requirements • 88
University of Houston System • 312
University of Houston System
Administration • 312
University of Houston-Clear Lake
Administration • 313

University of Houston-Clear Lake
Faculty • 315
University Police • 13
University Policy Regarding
Discretionary Authority • 32
University Services • 10
Upper-level credit • 25
Upper-Level Requirements • 90
Upper-Level Requirements for Business
Plans (Majors) • 103
Upper-Level Requirements for Public
Administration Plans (Majors) • 108
Utility Surcharge • 54

V

Veterans Affairs • 42
Vocational Rehabilitation • 44

W

Web Application and E-Commerce
Sub-plan • 226
Web Design and Development sub-
plan • 231
Women's and LGBT Services • 70
Women's Studies
Path 4 • 200
Women's Studies (Bachelor of Arts) •
219
Women's Studies Certificate • 220
Women's Studies Courses • 310
Writing Center • 12, 73
Writing Center Support Fee • 54
Writing Courses • 311

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