

1992

## **UTB/TSC Catalog 1992-1993**

University of Texas at Brownsville

Texas Southmost College

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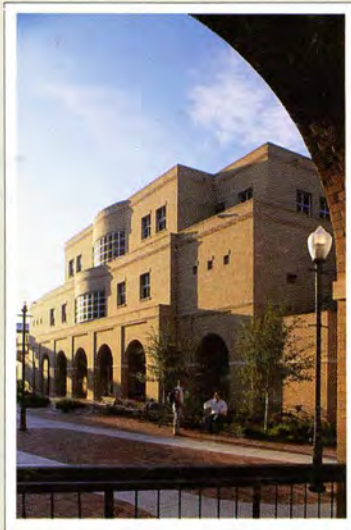
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Mr. Kutter



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1992-93

THE UNIVERSITY OF TEXAS AT BROWNSVILLE  
IN PARTNERSHIP WITH  
TEXAS SOUTHMOST COLLEGE  
1992-93 CATALOG

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# *The University of Texas at Brownsville*

*In Partnership With*

*Texas  
Southmost  
College*

**We are glad you are here.**

*W*elcome to America's first Community University, The University of Texas at Brownsville in partnership with Texas Southmost College. Serving more than 10,000 students at the southern tip of Texas on the Mexican border, the university offers academic, applied technology, and continuing educational courses. Our students range in ages from 13 to 80 years, pursuing studies from single courses for personal enrichment to post-graduate degrees.

*Our university is dedicated to including all the people in our communities in our curriculum, our campus life, and our government.*

*We appreciate our community, our students, our faculty, and our staff. We are committed to excellence in service. We are dedicated to making your experience at our university fulfilling, enriching, rewarding and enjoyable.*

*Thank you for becoming a part of our partnership.*

### **University Accreditations**

*Southern Association of Colleges and Schools*

### **University Affiliations**

*American Association of Colleges for Teacher Education*

*American Association of Community and Junior Colleges*

*American Council on Education*

*Association of American Colleges*

*Association of Texas Colleges and Universities*

*Southern Association of Colleges and Schools*

*Texas Association of Public Junior Colleges*

### **University Degrees and Certificates**

*Master's Degrees*

*Bachelor's Degrees*

*Teacher Education*

*Associate Degrees*

*Certificates of Proficiency*

*Occupational Training Certificates*

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# THE PHILOSOPHY

The University of Texas at Brownsville in partnership with Texas Southmost College is committed to excellence. It is dedicated to stewardship, integrity, service, openness, accessibility, efficiency, and citizenship. The University is committed to students, participatory governance, liberal education, human dignity, the convening of cultures, and respect for our environment.

Introduction

## THE MISSION

The mission of The University of Texas at Brownsville in partnership with Texas Southmost College is to combine the strengths of an upper level university and those of a community college to eliminate traditional barriers to higher education. The community university provides quality programs and services through academic, applied technology, and continuing education programs to respond to local and regional needs.

The university advances economic development, enhances the quality of life, provides for personal enrichment, and assures access to higher education opportunities. The community university develops critical thinking, communications, and quantitative skills for life-long learning through teaching, academic research, and public service.

## THE PARTNERSHIP

The community university has its roots in the establishment of two of the area's higher education institutions, The University of Texas at Brownsville and Texas Southmost College.

### *Texas Southmost College*

Texas Southmost College was created by the Brownsville Independent School District in 1926. First established as The Junior College of the Lower Rio Grande Valley, its name was later changed to Brownsville Junior College in 1931. Upon the establishment of the Southmost Union Junior College District in 1949, it was renamed Texas Southmost College.

### *The University of Texas at Brownsville*

The University of Texas at Brownsville was created by the Texas legislature in May 1991. The foundation for UTB was laid in 1973 when Pan American University in Edinburg began offering off-campus courses at Texas Southmost College. In 1977 the legislature approved the establishment of Pan American University at Brownsville as an upper level center. In 1989, the University became a part of the University of Texas System.

### *Partnership authorization*

The bill that created The University of Texas at Brownsville also authorized the University to enter into a partnership arrangement with Texas Southmost College. The partnership was created under the provisions of Subchapter L, Section 1. Chapter 51 of the Texas Education Code.

### *Purpose*

Created to improve the continuity, quality, and efficiency of the educational programs and services offered by the university and the community college, the partnership combines the administrative, instructional, and support services of the upper level university and the community college and eliminates artificial barriers between them. The partnership combines junior, senior, and graduate level programs with certificate, associate, and continuing education programs, thus offering a unique combination of services to the people of the Lower Rio Grande Valley and the state.

# 1992-93 ACADEMIC CALENDAR

Introduction

## August 1992

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2	3	4	5	6	7	8
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<sup>23</sup> <sub>30</sub>	<sup>24</sup> <sub>F31</sub>	25	26	27	28	29

## September 1992

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## November 1992

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## December 1992

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## January 1993

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<sup>24</sup> <sub>31</sub>	25	26	27	28	29	30

## February 1993

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## March 1993

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## April 1993

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## May 1993

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<sup>23</sup> <sub>30</sub>	<sup>24</sup> <sub>31</sub>	25	26	27	28	29

## June 1993

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27	28	29	30			

## July 1993

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## August 1993

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

### Legend

- I Regular Registration
- 26 Drop/Add
- <sup>F</sup>31 First Day of Classes
- <sup>L</sup>11 Last Day of Classes
- 12 Final Examinations
- 7 Holidays

### Holidays - No Classes

- Sept. 7 Labor Day
- Nov. 26-28 Thanksgiving
- Feb. 26-27 Charro Days
- March 15-20 Spring Break
- April 9-10 Easter Recess



# 1992-93 ACADEMIC CALENDAR

## Fall Semester 1992

July 15-August 7	Telephone Registration
August 14	Deadline to pay for Telephone Registration
August 25-26	Regular Registration
August 27	Drop/Add
August 31	First day of classes
September 7	Labor Day holiday
September 16	Twelfth day of classes - Official record date
September 16	Deadline to withdraw without recorded grade
September 18	Deadline for Pass/Fail petitions
November 24	Deadline for degree application for Spring 1993
November 26-28	Thanksgiving holidays
December 4	Deadline to withdraw with W
December 11	Last day of classes
December 12, 14-17	Final examinations
December 18	Grade sheets due to Deans

## Spring Semester 1993

October 19-Dec. 14	Telephone Registration
December 22	Deadline to pay for Telephone Registration
January 13	Regular registration
January 14	Drop/Add
January 18	First day of classes
February 2	Twelfth day of classes - Official record date
February 2	Deadline to withdraw without grade recorded
February 4	Deadline for Pass/Fail petitions
February 26-27	Charro Days holiday
March 15-20	Spring Break
April 9-10	Easter Recess
April 21	Degree application deadline for Summer 1993
April 28	Deadline to withdraw with W
May 6	Last day of classes
May 8, 10-13	Final examinations
May 14	Final grade sheets due to Deans

*Introduction*

# 1992-93 VOCATIONAL CLOCK HOUR PROGRAMS CALENDAR

*For: Air Conditioning and Refrigeration, Auto Body Repair, Automotive Mechanics, Building Trades, Diesel Mechanics, Machine Shop, Welding*

## First Quarter

August 26	Registration
September 1	First day of classes
September 2	Third class day - Official record date
September 7	Labor Day holiday
November 24	Last day of classes for First Quarter

## Second Quarter

November 25	Registration
December 1	First day of classes
December 3	Third class day - Official record date
December 16	Classes dismissed
January 18	Classes resume
February 25	Last day of classes for Second Quarter

## Third Quarter

March 1	Registration
March 2	First day of classes
March 4	Third class day - Official record date
March 15-20	Spring Break - Classes dismissed
April 8-9	Easter holidays - Classes dismissed
May 12	Last day of classes for Third Quarter

## Fourth Quarter

May 31	Registration
June 1	First day of classes
June 3	Third class day - Official record date
June 28	Classes dismissed
July 12	Classes resume
August 18	Last day of classes for Fourth Quarter

## Statement of Equal Opportunity

To the extent provided by applicable law, no person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under, any program or activity sponsored or conducted by The University of Texas System or any or its component institutions on the basis of race, color, national origin, religion, sex, age, veteran status, or disability.





# ADMISSIONS GUIDELINES



*Admissions  
Guidelines*

# ADMISSIONS REQUIREMENTS

UTB maintains an "open door" admissions policy, but admission to the University does not imply admission to all programs of the University. Some programs have additional requirements for admission. Information about these programs is available at the Counseling Center in Tandy Hall.

Anybody meeting one of the following conditions may be admitted to the University:

1. **By High School Graduation.** A copy of the high school transcript showing the date of graduation must be submitted to the Enrollment Office prior to registration.
2. **By Examination.** Applicants who did not graduate from high school may be admitted by successfully completing the General Education Development Testing Program (GED). A copy of the GED test scores or Certificate of High School Equivalency must be submitted to the Enrollment Office prior to registration.
3. **By Individual Approval.** People who do not qualify for admission under either of the above conditions may be admitted if they are at least 18 years of age and have acceptable scores on the reading portion of the UTB Assessment. Applicants must submit two letters of reference using the forms provided by the Enrollment Office. People admitted on Individual Approval will be under academic probation for the initial enrollment period (semester, quarter).
4. **By Transfer From Another College.** Students who have attended other colleges must submit official transcripts from each institution prior to registration.
  - \* Students on scholastic suspension from another institution will not be admitted until one semester after the date of suspension. Residents of the District who are on dismissal from another institution may be admitted on academic probation and limited to four courses and physical education, if required.
  - \*\* Veterans applying for benefits must provide a transcript since credit for previous education must be verified.
5. **By Concurrent Enrollment.** Students who have completed their junior year of high school and who have acceptable scores on the reading portion of the UTB Assessment may, upon recommendation of their high school principal, be permitted to enroll in the University. The *Request for Concurrent Enrollment Form* is available at the Enrollment Office.
6. **Adult and Continuing Education.** People who register within this category will not be required to submit academic or residency documentation until they attempt to enroll for credit courses.
7. **Audit Enrollment** is offered on a space available basis for some courses. Interested people should contact the Enrollment Office.

Anybody meeting at least one of the previous conditions may be admitted to UTB when all of the following have been received by the Enrollment Office:

1. **A completed application form.**

2. **Proof of Residency.** State law requires that all new and returning students verify their Texas residency and have lived in Texas during the 12 months prior to registration. Therefore, the documents presented must show the applicant's name with a Texas residence and must be dated a year prior to registration. Acceptable documents include at least one of the following:

- a. Texas high school or college transcript for the last 12 months, or
- b. Property tax statement or receipt with student's name and address, or
- c. Lease agreement which includes student's name and address, or
- d. Employer statement of date of employment, or
- e. Utility bill which includes student's name and address, or
- f. Canceled check or bank statement, or
- g. Charge account statement or receipt including student's name and address, or
- h. Texas voter registration – returning students only, or
- i. Permanent driver's license (at least one year old – returning students only).

3. **Assessment Results.** After completing the UTB Assessment, applicants must meet with a counselor and bring to the Enrollment Office a copy of the Course Recommendation form.

All documents submitted to UTB become the property of the University.

## READMISSION OF FORMER STUDENTS

Former students of UTB or TSC are required to file a new application for admission if they have not been enrolled during the previous semester.

Former students must submit transcripts from all colleges attended since the last enrollment at UTB. Students who have earned less than a 2.0 (4.0 = A) average over all work completed since attending UTB or who left their last institution on probation, may be readmitted to UTB on probation. Students who are not eligible to return immediately to any former institution(s) will not be considered for readmission to UTB.

## ADMISSION OF INTERNATIONAL STUDENTS

International students applying for admissions into undergraduate or graduate studies and who need to file Form I-20 A-B (certificate of eligibility for non-immigrant [F-1] student status) must submit the following:

- Application for admission
- Official transcripts (high school or college) showing date of graduation

- An affidavit of financial support as evidence of ability to bear academic and living expenses while studying in this country.

Upon admission, international students whose native language is not English will be assessed for basic language skills using the institutional assessment instruments or the Test of English as a Foreign Language (TOEFL). Assessment performance may result in courses being prescribed in English.

## GRADUATE ADMISSION

### Application

Students seeking graduate admission to UTB may obtain application forms by writing to the Enrollment Office. To insure an application is processed, the applicant should have on file in the Enrollment Office the Application for Admissions with all supporting documents by the dates indicated in this catalog. Failure to have applications with supporting documents on file by these dates will result in restrictive admission or denial of admission at that time. Supporting documents include the following:

1. Official transcript(s) of all prior undergraduate and graduate work,
2. Transcript of scores on the Graduate Record Examination (GRE, General Test only) or on the Graduate Management Admissions Test (GMAT).
3. Proof of residency, and
4. Transcript of TOEFL scores for foreign students.

Applicants should request that registrars of colleges previously attended and the Educational Testing Service send the transcripts directly to the UTB Enrollment Office. GRE and GMAT scores more than five years old are out of date and therefore will not be accepted.

Admission is only for the semester requested and does not imply automatic admission for later semesters. Students who have been enrolled in a graduate program at UTB, but who have not been in attendance for the previous regular semester, should apply for readmission at least 30 days prior to registration for the semester in which they plan to resume graduate study.

### Basic Requirements

- Applicants must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association for the region in which the institution is located.
- Applicants must meet admission criteria established by the Enrollment Office.

## Definitions

**GRE Composite Score:** Sum of the verbal and quantitative scores of the Graduate Record Exam.

**Admission File:** Application, official transcripts of all undergraduate and graduate work mailed directly to the Enrollment Office from the Registrar's Office of the institution issuing the transcripts, and GRE, GMAT, or TOEFL scores applicable.

**Graduate Admission GPA:** Procedures for calculating grade-point average for students seeking admission to a graduate program at UTB will be as follows:

1. Only official transcripts sent directly to the UTB Enrollment Office from the Registrar's Office of accredited institutions of higher education will be accepted for evaluation and grade-point calculation for admission to a graduate program at UTB.
2. All academic work undertaken and grades or symbols assigned at each institution will be reflected on the student's official transcript(s). No grade may be expunged from a student's record.
3. All grades assigned for academic course work, including all grades in courses which have been repeated, will be used in calculating the grade-point average, except that UTB will base the calculation on the last 60 semester credit hours (or equivalent) of college work and previous work in a graduate or professional school.
4. A four-point scale will be used in computing the grade-point average (e.g., A, 4 points per semester hour; B, 3; C, 2.0; D, 1.0; F, 0.0).
5. A grade or symbol indicating failure (i.e., F, WF, DF) will count as hours undertaken, but no grade points will be earned.
6. Excluded from the grade-point average will be any credit by examination; TR; Quit (Q); Withdrew (W); Withdrew Failing (WF); Incomplete (I); and a pass grade with no pass/fail system.
7. The grade-point average will be computed by multiplying each grade point (see paragraphs 4 and 5 of this section) by the semester or quarter credit hours earned per course and totaling the products. The semester or quarter hours of course work undertaken will then be totaled. The total of the products will be divided by the total semester or quarter hours. The result will be calculated to the hundredth place, giving the official cumulative grade-point average for admission to graduate studies.
8. Academic work at foreign colleges, universities, and preparatory schools will be excluded from the calculation. In such cases, the grade-point average and credit will be evaluated and computed by the Enrollment Office in consultation with the graduate program to which the student is applying.

### Acceptance

- Applicants must have a 3.0 Graduate Admission GPA or more on a 4.0 scale and provide a minimum composite GRE score of 600 or more (sum of verbal and quantitative) or a GMAT score of 350 or more, or

- Applicants must have a composite score of 1000 or more on the GRE, or a GMAT score of 470 or more, and have completed all transcript requirements, or
- Applicants must meet requirements for changing "Probationary" to "Clear," or
- Applicants must hold a Bachelor's Degree from an accredited university and have completed all transcript requirements.

## Probationary Acceptance

Applicants who do not meet clear admission requirements, have a score of 1200 or more based upon the following formula: 200 times the Graduate Admission GPA plus the sum of the verbal and quantitative parts of the GRE will be granted probationary admission.

Applicants must meet this minimum entrance score prior to registration. Students admitted on probation are limited to a maximum of 12 hours. If at the end of the semester in which a student's total earned graduate hours are 9 or more and the student's graduate GPA is 3.0 or better, probationary admission will be changed to clear admission.

## Tentative Acceptance

Applicants must have a Graduate Admission GPA of at least 2.5 on a 4.0 scale, and must have filed in the Enrollment Office a formal application and unofficial transcript(s) showing a baccalaureate degree and the last 60 semester hours of coursework. Tentative acceptance will be limited to one regular semester or one summer session of 12 weeks with a maximum of six semester hours of graduate work.

At the end of one semester of "Tentative" admission students must first be classified as "Probationary," "Clear" or "Denied" based on the admission requirements. To be granted further admission at this time students must have completed the admission file and must meet the admission standards.

## Denied Acceptance

Applicants are denied admission to the Graduate School of Arts and Sciences for failure to meet minimum admission requirements.

Admission may be gained by meeting requirements such as improving GRE or GMAT scores and/or Graduate Admission GPA or by appealing to the Graduate Council for an alternative procedure. The appeal must be in writing to the Dean of the appropriate college or school and should explain the mitigating circumstances.

## Transfer Graduate Acceptance

Transfer graduate students may take 12 graduate hours for credit toward a graduate degree by supplying the Office of Graduate Admission with the following:

- An application for Graduate Admission.
- A letter of approval sent directly to UTB Enrollment Office by the Dean of the Graduate School to which the work is to be transferred.

## Departmental Admission Requirements

Each department, with the approval of the Graduate Council, sets the departmental admission requirements for its graduate majors. Consult the "Programs" section of the catalog referring to your major department for these requirements.

All undergraduate work must be satisfactorily completed prior to taking graduate courses or at least be completed during the first semester of enrollment in graduate courses.

## PROCEDURES AFTER GRADUATE ADMISSION

Successful applicants will receive a letter of acceptance from the Enrollment Office, whereupon they should contact the major department, which will appoint a graduate advisor to counsel with the student concerning the details of registration, degree program, and other required procedures.

Students must have their schedules approved each semester by their advisors (or an approved substitute) before registering for courses.

## RESERVATION OF WORK BY UNDERGRADUATES FOR GRADUATE CREDIT

Undergraduate students may register in graduate courses in their last semester under the following conditions:

- The undergraduate must lack no more than 12 semester hours of work to complete all requirements for the (first) bachelor's degree.
- These 12 hours (or fewer) must be completed in the same semester or summer session (12 weeks) in which the student is taking the graduate courses.
- Total registration for all work must not exceed 15 semester hours in a regular semester or 12 semester hours in a summer session (12 weeks).
- The application for such graduate courses must be submitted to the Enrollment Office 60 days before the session begins. Graduate Record Examinations General Test scores and undergraduate grade-point averages must meet the standards for regular admission to the Graduate School.

Undergraduates cannot count their work in graduate courses toward the bachelor's degree. It will be reserved for credit toward a graduate degree.

## SPECIAL ADMISSION FOR NON-DEGREE STUDENTS

Students who do not intend to seek a degree or complete a program at UTB are asked to contact the Enrollment Office about a special admissions policy for undergraduate or graduate courses.

## TRANSFER OF CREDIT POLICY - UNDERGRADUATE

Regular undergraduate academic credit may be transferred from another institution if:

- The credit was earned at an accredited institution
- The nature, content, and level of the courses for which credit is sought are comparable to courses offered by UTB, and
- The courses for which credit is sought are appropriate and applicable to programs offered by UTB.

Transfer credits accepted for admission purposes may not be applicable for degree purposes. Catalog descriptions and other materials from the institution at which the credit was earned will be used to determine if transfer credit will be applicable for degree purposes. In the case of postsecondary work from foreign institutions, The Country Index, published by the International Education Research Foundation, Inc., will be used to determine if transfer credit will be applicable for admissions or degree purposes.

Courses which do not transfer to UTB include:

1. Pre-college courses such as remedial reading, developmental reading, speed reading, remedial science and orientation.
2. Drill or skill courses such as filing methods and vocational or technical training courses such as shop courses, welding, carpentry, plumbing and masonry. (There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences Degree.)
3. Terminal courses offered at many community colleges are not intended for transfer to senior colleges. Examples of such courses are auto mechanics, machine shop, electricity, data processing, and welding. (There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences degree.)
4. Doctrinal courses in religion are not transferable. Courses in religion of a historical or literary nature (but non-doctrinal) are transferable up to a maximum of 12 semester hours of lower-division credit.
5. No credit will be given for "life experience." There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences degree when this credit has been validated and placed on the transcript by an accredited community college or technical institution.

## TRANSFER OF CREDIT POLICY GRADUATE

A maximum of 12 semester hours of credit for appropriate graduate work at other institutions, subject to the approval of the chair of the major's department and certification by the Enrollment Office, may be transferred for degree credit. Credit may not be transferred for:

- Courses which would not have received graduate credit at UTB.
- Courses with grades lower than B.
- Correspondence courses.
- Extension courses.
- Courses taken at such a date that would exceed the eight-year limit of the student's program.

Transfer of graduate credit hours is not automatic. The student must submit a written request for approval of transfer to the chair of the major department, who determines whether the conditions for transfer have been met before adding credit hours to the graduate degree program. The transfer is complete when the student's degree plan, reflecting the transfer hours, is approved by the appropriate Dean (providing the student graduates within the eight-year time limit.)

## TRANSFER CURRICULA & RESOLUTION OF TRANSFER DISPUTES FOR LOWER DIVISION COURSES

The following procedures (as outlined in the Texas Higher Education Coordinating Board rule Chapter 5, Subchapter 5, Section 5.4) shall be followed by public institutions of higher education in the resolving disputes involving transfer of lower division courses.

If a public institution of higher education does not accept course credit earned by a student at another institution of higher education, that institution shall give written notice to the student and the other institution that transfer of the course credit is denied.

The two institutions and the student shall attempt to solve the transfer of the course credit in accordance with the Coordinating Board rules and/or guidelines.

If the transfer dispute is not resolved to the satisfaction of the student within 45 days after the date the student received written notice of the denial, the institution that denies the transfer of the course shall notify the Commissioner of Higher Education, or the Commissioner's designee, who shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.



# STUDENT RECORDS

## ***Change of Address***

Students' current mailing and permanent address must be correctly listed on University records. Any change in the mailing address should be promptly reported to the Enrollment Office. Students will not be excused from penalties on grounds of not receiving communications mailed from the University if the new address was not reported. Students may not claim indulgence on the plea of having moved lodgings and therefore of not having received the communication.

## ***Change of Major***

Students may change a major established at the time of first enrollment but should not apply for a change until after consulting a faculty member concerning curricular requirements. Undergraduate and graduate change of major approval forms are available in the Enrollment Office.

## ***Change of Name***

University records of students' names are based upon the application for admission. Subsequent changes of name should be promptly reported to the Enrollment Office.

Students may change the full, legal name on their permanent academic records by presenting to the Enrollment Office the appropriate documentation. To correct the spelling or the proper sequence of a name, students must present a copy of their birth certificate. To change a legal name to a new legal name, students must present the proper name change form and a copy of the signed court order showing the authorized new legal name. To assume a husband's name by repute following marriage, students must present the proper name change form and a copy of the marriage certificate. Female students who wish to discontinue the use of a married name and resume the use of a former maiden name, or another name, must present a divorce decree or signed court order showing court restoration of the maiden, or other name. Former students (not currently enrolled) may change a legal name to a new legal name by following the above procedure.

## ***Access to Files by Students***

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 panels to be unacceptable.

The Dean of Student Services at UTB has been designated by the institution to coordinate the inspection and review procedures for student education records, which include admissions, personal, academic, financial files, cooperative education, and placement records. Students wishing to review their education

records must make written requests to the Dean of Student Services listing the item or items of interest. Only records covered by the Act will be made available within 45 days of the request.

Students may have copies made of their records with certain exceptions, (e.g., an official copy of the academic record for which a financial "hold" exists, or a transcript of an original or source document which exists elsewhere). These copies will be made at the student's expense at prevailing rates which are listed in the current catalog.

Education records do not include records of instructional, administrative, and educational personnel which are the sole possession of the maker and are not accessible or revealed to any individual except a temporary substitute; records of the law enforcement unit; student health records; employment records; or alumni records. Health records, however, may be reviewed by physicians of the student's choosing.

Students may not inspect and review the following as outlined by the Act: financial information submitted by their parents; confidential letters and recommendations associated with admissions, employment or job placement, or honors to which they have waived their rights of inspection and review; or education records containing information about more than one student, in which case the institution will permit access only to that part of the record which pertains to the inquiring student.

The institution is not required to permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975, provided those letters were collected under established policies of confidentiality and were used only for the purpose for which they were collected.

## ***Challenge of File Contents by Students***

Students who believe that their education records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or other rights may discuss their problems informally with the Dean of Student Services. If the Dean agrees with the request, the appropriate records will be amended. If not, the student will be notified within a reasonable period of time that the records will not be amended, and will be informed by the Dean of Student Services of a right to a formal hearing.

Students' requests for a formal hearing must be made in writing to the Dean of Student Services who, within a reasonable period of time after receiving such requests, will inform students of the date, place, and the time of the hearing. Students may present evidence relevant to the issues raised and may be assisted or represented at the hearings by one or more persons of their choice, including attorneys, at the student's expense. The hearing panel that will adjudicate such challenges will be appointed by the Dean of Student Services.

Decisions of the hearing panels will be final, will be based solely on the evidence presented at the hearing, will consist of the written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned.

Education records will be corrected or amended in accordance with the decisions of the hearing panels if the decisions are in favor of the student. If the decisions are unsatisfactory to the student, the student may place with the education records

statements commenting on the information in the records, or statements setting forth any reasons for disagreeing with the decisions of the hearing panels.

The statements will be placed in the education records, maintained as part of the student's records, and released whenever the records in question are disclosed.

Students who believe that the adjudications of their challenges were unfair, or not in keeping with the provisions of the Act, may request, in writing, assistance from the President of the institution. Further, students who believe that their rights have been abridged may file complaints with The Family Educational Rights and Privacy Office (FERPA), Department of Education, Washington, D.C. 20201, concerning the alleged failures of UTB to comply with the Act.

Revisions and clarifications will be published as experience with the law and the institution's policy warrants.

## Review of Record

Students who desire to review their records may do so upon request to the appropriate office immediately responsible for the record and work completion of the "Review Request" form.

**Challenge to Accuracy of Record-Keeping:** Any students who desire to challenge the accuracy of their records should follow the procedure below:

**Informal Review:** Following the procedure as outlined for "Review of Record," Dean will summarize on "Review Request" form action taken. This action should be signed and dated by the Review official and maintained with the student's record.

**Formal Review:** If the informal review does not clarify the question of accuracy of record keeping, the student may request a formal review. The Vice President of Academic Affairs will chair and appoint a committee to hear challenges concerning academic records. The Dean of Student Services will chair and appoint a committee to hear challenges concerning non-academic records.

## Confidentiality of Records

The University policy regarding confidentiality of student records is outlined in the following section, "Family Educational Rights and Privacy Act."

If students do not wish this directory information to be released, they are responsible for notifying the Director of Enrollment Management's Office during the first 12 class days of a fall or spring semester, the first four class days of a summer session, or the first three class days of any quarter. Requests for non-disclosure will be honored by the institution for only the current enrollment period; therefore, each semester or term a request to withhold Directory Information must be filed in the Enrollment Office.

## Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act of 1974 is a federal law which states (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 the institution will maintain the confidentiality of student education records.

UTB accords all the rights under the law to all students. No one outside the institution will have access to nor will the institution disclose any information from students' education records without the written consent of students except to persons within the institution, to officials of other institutions in which students seek to enroll, to persons or organizations providing students financial aid, to accrediting agencies carrying out the 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 people. All these exceptions are permitted under the Act.

Within the UTB community, only those members, individually or collectively, acting in a student's educational interest are allowed access to a student's education records. These members include personnel in the Offices of Academic Affairs, Business Affairs, Student and University Affairs, Enrollment and Academic personnel within the limitations of their need to know.

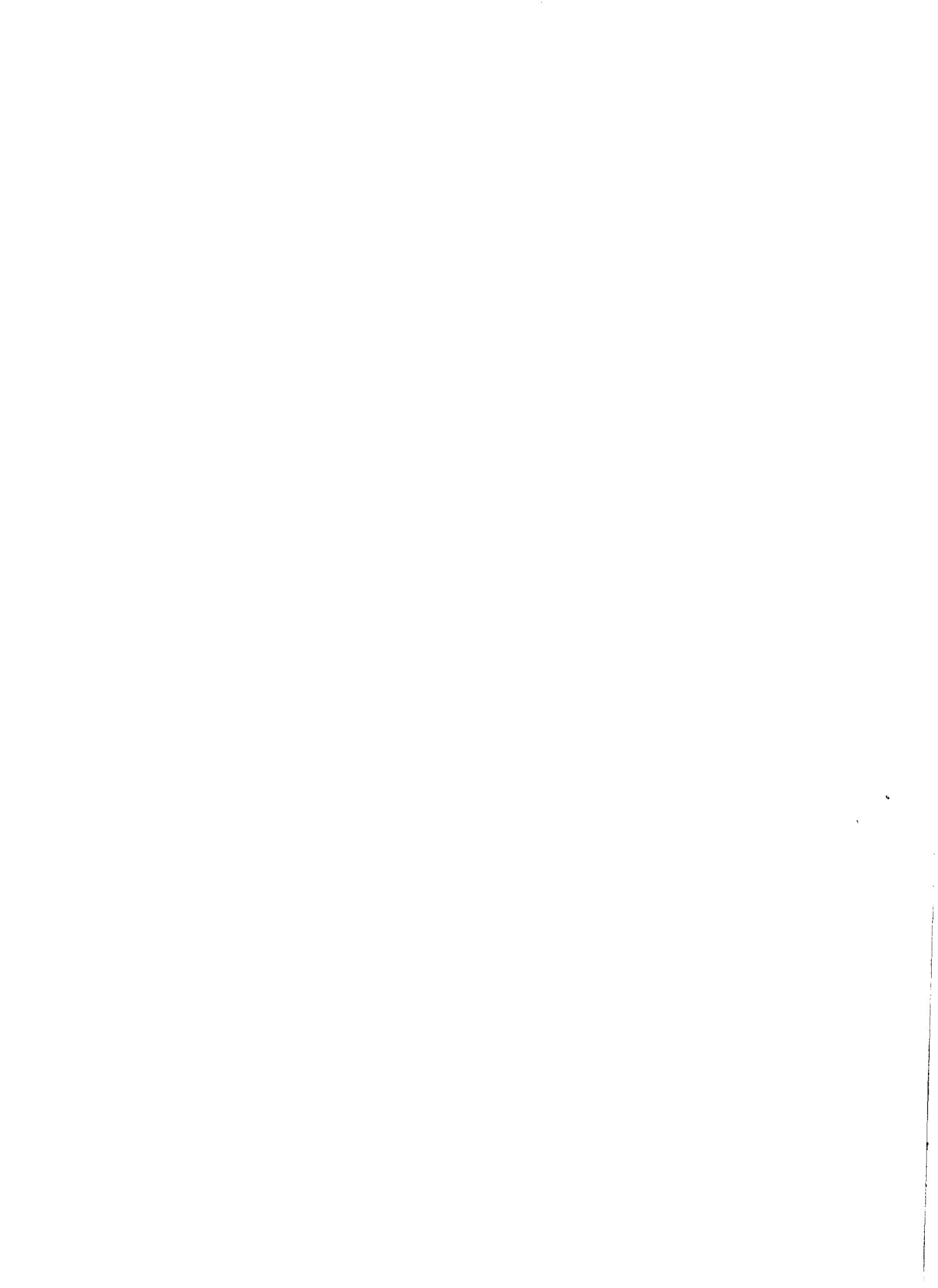
1. UTB will abide by the provisions of the Family Educational Rights and Privacy Act (FERPA) of 1974.
2. Because UTB is a post-secondary educational institution, these provisions apply to each student directly and not to the students' parents.
3. Students shall be notified annually of their rights under the Act.
4. The following is designated as directory information and may be disclosed by the institution for any purpose, at its discretion:
  - Name, address, and telephone number
  - Date and place of birth
  - Dates of attendance
  - Previous institution(s) attended
  - Major field of study
  - Awards/honors
  - Degrees conferred
  - Participation in officially recognized sports and activities
  - Physical factors (height and weight of athletes)
5. Current and former students have the right to inspect and review their education records as identified by the Act – unless this right has been duly waived.
6. A list of education records and those officials responsible for the records shall be maintained at the Director of Enrollment Management's Office. This list includes:
  - A. Academic Records
    - Enrollment Office (Admissions/Registrar): Director of Enrollment
    - Department and Faculty Offices
  - B. Student Services Records
    - Counseling Office: Director of Counseling
    - Student Activities Office: Director of Student Activities
    - Student Health Office: Director of Student Health Services

- Student Services: Dean of Student Services

C. Financial Records

- Business Office: Director of Business Affairs
- Financial Aid Office: Director of Financial Aid

7. Personally identifiable information from education records will not be disclosed without the student's prior written consent. In accordance with the Act, however, UTB may disclose records or components thereof without written consent to the following:
  - A. Employees deemed to have legitimate educational interests
  - B. Officials of other institutions in which students seek to enroll
  - C. People or organizations providing or determining financial aid to students;
  - D. Organizations conducting studies to develop, validate, and administer predictive tests, to administer student aid programs, or to improve instruction;
  - E. Accrediting organizations carrying out their respective functions;
  - F. Parents of students identified through the Internal Revenue Service or other sources as dependents;
  - G. People in compliance with judicial order or a lawfully issued subpoena
  - H. People in an emergency if the information is necessary to protect the health or safety of the students or other people;
8. A record of requests for disclosure of personally identifiable information shall be maintained by the Director of Enrollment Management Office for each student.
9. Students shall be provided with an opportunity to amend or correct their educational records.
10. Records no longer subject to audit nor presently under request for access may be purged according to regular schedules.





# TUITION AND FEES

Tuition  
and Fees

# TUITION AND FEES – UPPER AND LOWER DIVISION

## FINANCIAL RESPONSIBILITY

State universities cannot extend financial credit. Students are expected to meet financial obligations to the University within the designated time allowed. Registration fees are payable at the time of registration, and students are not entitled to enter class or laboratory until all their fees have been paid. (Exceptions: see Payment by Installment below.)

Other charges are due within 10 days after a bill is rendered by the University, or according to the special payment instructions that may be printed on the bill. Failure to pay the amount owed in the allotted time can result in the withholding of registration privileges, official transcripts, grades, degrees, and other penalties and actions authorized by law.

Registration fees may be paid by personal check or money order payable to The University of Texas at Brownsville, or by cash. Students should be careful in paying fees by check (See Returned Checks below). When a check for registration fees is returned to UTB, a \$15 return check service charge is assessed, and the student is given two days from the date of notice to make full payment by cash, cashier's check, or money order. Failure to comply will result in the penalties described above.

## CLASSIFICATION OF STUDENTS

Students are classified according to the number of semester hours of college credit they have earned.

- Freshman and sophomores have credit for 59 semester hours or fewer and are considered **Lower Division** students. Students enrolling in **Lower Division courses** will follow the **Lower Division Tuition and Fees** scale. Freshman level courses have a "1" as the first number of the course (Example: ENG 1301); Sophomore level courses have a "2" as the first number.
- Juniors, seniors and graduate students have credit for more than 60 semester hours and are considered **Upper Division** students. Students enrolling in **Upper Division courses** will follow the **Upper Division Tuition and Fees** scale. Junior level courses have a "3" as the first number of the course (Example: ENG 3305); Senior level courses have a "4" as the first number; Graduate courses have a "5" or "6" as the first number.

## TUITION ADJUSTMENTS

**Concurrent Enrollment:** Tuition for students registering concurrently at two Texas public institutions of higher education is as follows:

- Students shall pay the full tuition charge, at least equal to the minimum, to the first institution at which they are registered.

- Generally, only the hourly rate will be paid at the second institution. However, if the minimum amount is less at the first institution, then students must pay the difference between the two minimums to the second institution, but not less than the hourly rate.

**Hazelwood Act for Veterans.** Texas Veterans of World War I, World War II, the Korean War, or Vietnam who have no remaining Veterans Administration education benefits are exempted from payment of tuition and fees excluding general property deposit and student services fees. To obtain the exemption of tuition under this act, an approved application must be on file with the Financial Aid Office 15 days prior to registration.

## REFUND POLICY

**Semester-Length or Vocational Clock Hour Programs:** Students who are enrolled in and who **officially withdraw or are disenrolled** from the University shall have their tuition and specified mandatory fees refunded according to the following schedule:

### Long Semester or Quarter

Prior to the first class day .....	100%
During the first five class days .....	80%
During the second five class days .....	70%
During the third five class days .....	50%
During the fourth five class days .....	25%
After the fourth five class days .....	None

### Summer Session

Prior to the first class day .....	100%
During the first, second or third class day .....	80%
During the fourth, fifth or sixth class day .....	50%
After the sixth class day .....	None

Students who reduce their semester credit hour loads by **officially dropping a course or courses** and remain enrolled at the institution will have tuition and specified mandatory fees refunded according to the following schedule:

### Long Semester

During the first 12 class days .....	100%
After the 12th class day .....	None

### Summer Session

During the first four class days .....	100%
After the fourth class day .....	None

*Students who receive funds through the TITLE IV program (Pell Grants, Supplemental Educational Opportunity Grants, National Direct Student Loans) or State grants and scholarships or institutional grants and scholarships will not receive a refund until the aforementioned programs, or any combination thereof, have been totally reimbursed.*

**Continuing Education and Community Service Courses:** Students who officially withdraw from the course shall have their tuition refunded according to the following schedule:

During the first class session .....	100%
After the second class session .....	None

# TUITION AND FEES – UPPER DIVISION ONLY

## RESIDENCY CLASSIFICATIONS

Under state statutes, and under rules and regulations of the Texas Higher Education Coordinating Board, prospective upper division students are classified as residents of Texas, a non-resident, or foreign students.

Resident students are defined as students under 18 whose families have lived in Texas for 12 months prior to registration, or students 18 or over who have lived in Texas for 12 months prior to registration.

**Residents** are persons who have resided in the state under circumstances specified in these rules.

**Nonresidents** are citizens, or permanent residents of the United States not eligible to be classified as residents.

**Foreign students** are aliens who are not permanent residents of the United States and have not been permitted by Congress to adopt the United States as domicile while in this country.

Individuals classified as **non-residents** or as **foreign students** may qualify, under certain exceptions specified in the statutes and rules, for resident tuition rates and other charges while continuing to be classified as a nonresident or foreign student.

Students entering UTB for the first time, or students re-entering after an absence of more than one semester, should read carefully the rules governing the determination of residence in order to be prepared to pay the required tuition fee. Information and advice regarding residency status is available from the Office of Enrollment.

## TUITION AND REQUIRED FEES

Required Upper Division registration fees for residents of Texas for each semester include the following:

- **Tuition:** Computed at the greater of \$24.00 per semester credit hour or \$120.00 per regular semester or \$60.00 per summer term
- **Student Services Fee:** \$7.00 per semester credit hour up to a maximum of \$90.00 per regular semester or \$45.00 per summer term
- **General Use Fee:** \$10.00 per semester credit hour
- **Records Fee:** \$5.00 per student per semester
- **Computer Access/Use Fee:** \$9.00 per student per semester

For example, by reading from the Tuition and Fee Table, an Upper Division student who is a resident of Texas and who enrolls for 12 semester credit hours in a Fall or Spring semester would pay \$458 of required registration fees.

The following table does not include required laboratory fees or individual instruction fees which are listed with the individual course descriptions.

## FEES AND DEPOSITS

**General Property Deposit:** Every student must make a General Property Deposit of \$10.00 to help offset the cost of property loss or damage. Applications for refunds will be available at the UTB Enrollment Office and will be processed at the Business Office. Any deposit which remains unclaimed for four years from the date of last attendance will be forfeited. Money remains on account until such time as the student graduates or officially withdraws from the University. The General Property Deposit may not be paid in installments.

**Laboratory Fees:** For each laboratory course, a fee of \$5.00 for material used is charged.

**Auditing Fees:** If auditing a course is permitted by the instructor, a non-refundable fee of \$50.00 will be charged for each class audited.

**Graduation Application Fee:** A non-refundable fee of \$10.00 is charged for undergraduate and graduate degrees. Payable to the Business Office, this fee is used to pay for processing applications for graduation, and for music, graduation speaker, postage, diplomas, and other expenses associated with graduation. All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the Office of Enrollment. No students will be permitted to participate without the proper regalia. Students wishing to transfer their application for graduation to another period will be required to pay an additional fee of \$5.00.

**Thesis Binding Fee:** An original and three copies of a Master's Thesis must be bound and presented to UTB. The cost is approximately \$15.00, depending on the length of the thesis.

**Thesis Microfilming Fee:** Each Master's Thesis is microfilm and placed in the UTB Library. The cost is approximately \$20.00, depending on the length of the thesis.

**Late Registration Charge:** Any students who, with prior permission, register after the appointed days for regular registration (see calendar) will be required to pay a non-refundable charge of \$5.00 to defray the costs of the extra services required to process the registration.

**Returned Check Charge:** A non-refundable charge of \$10.00 will be assessed to students for each returned check. (See Financial Responsibility) The University may refuse to accept a check from students who have previously had a check returned for insufficient funds, account closed, irregular signature, stop payment, etc.

**Tuition Installment Incidental Charge:** Any eligible students who elect to pay Fall or Spring semester tuition and mandatory fees by installment will be charged an additional \$7.50 for each payment to defray the cost to the University of providing this service. This fee is non-refundable.

**Late Payment Charges:** Payment of Fall or Spring tuition and mandatory fees in installments after the scheduled deadline but within the three class days will require an additional \$5.00 late payment charge. This fee is non-refundable.



# TUITION AND FEES – UPPER DIVISION ONLY

**Reinstatement Charge:** Payment of Fall and Spring tuition installments after the third class day of the sixth or eleventh class week (as applicable) will require an additional \$25.00 reinstatement charge. This fee is non-refundable.

**Vehicle Registration and Operation Permit:** All students, whether full-time or part-time, who will operate a motor vehicle on the campus area must register the vehicle with the Campus Police Office. A permit to be placed on the vehicle indicating the permit number will be provided.

## TUITION AND FEES TABLES

### Each Fall or Spring Semester

Semester Credit Hrs.	Resident						Total Tuition and Fees
	Tuition Fee	Student Services	General Use Fee	Computer Use Fee	Records Fee	Tuition and Fees	
	Min \$120	Max \$90	\$10/hr.	\$9/sem.	\$5/sem.		
1	\$120	\$7	\$10	\$9	\$5	\$151	
2	\$120	\$14	\$20	\$9	\$5	\$168	
3	\$120	\$21	\$30	\$9	\$5	\$185	
4	\$120	\$28	\$40	\$9	\$5	\$202	
5	\$120	\$35	\$50	\$9	\$5	\$219	
6	\$144	\$42	\$60	\$9	\$5	\$260	
7	\$168	\$49	\$70	\$9	\$5	\$301	
8	\$192	\$56	\$80	\$9	\$5	\$342	
9	\$216	\$63	\$90	\$9	\$5	\$383	
10	\$240	\$70	\$100	\$9	\$5	\$424	
11	\$264	\$77	\$110	\$9	\$5	\$464	
12	\$288	\$84	\$120	\$9	\$5	\$506	
13	\$312	\$90	\$130	\$9	\$5	\$546	
For each additional hour add							\$34

Semester Credit Hrs.	Non-Resident						Total Tuition and Fees
	Tuition Fee	Student Services	General Use Fee	Computer Use Fee	Records Fee	Tuition and Fees	
	Min \$162	Max \$90	\$10/hr.	\$9/sem.	\$5/sem.		
1	\$162	\$7	\$10	\$9	\$5	\$193	
2	\$324	\$14	\$20	\$9	\$5	\$372	
3	\$486	\$21	\$30	\$9	\$5	\$551	
4	\$648	\$28	\$40	\$9	\$5	\$730	
5	\$810	\$35	\$50	\$9	\$5	\$909	
6	\$972	\$42	\$60	\$9	\$5	\$1,088	
7	\$1,134	\$49	\$70	\$9	\$5	\$1,267	
8	\$1,296	\$56	\$80	\$9	\$5	\$1,446	
9	\$1,458	\$63	\$90	\$9	\$5	\$1,625	
10	\$1,620	\$70	\$100	\$9	\$5	\$1,804	
11	\$1,782	\$77	\$110	\$9	\$5	\$1,983	
12	\$1,944	\$84	\$120	\$9	\$5	\$2,162	
13	\$2,106	\$90	\$130	\$9	\$5	\$2,340	
For each additional hour add							\$172

### Each Summer Session

Semester Credit Hrs.	Resident					Total Fees
	Tuition Fee	Student Services	General Use Fee	Computer Use Fee	Records Fee	
	Min \$60	Max \$45	\$10/hr.	\$9/sem.	\$5/sem.	
1	\$60	\$7	\$10	\$9	\$5	\$91
2	\$60	\$14	\$20	\$9	\$5	\$108
3	\$72	\$21	\$30	\$9	\$5	\$137
4	\$96	\$28	\$40	\$9	\$5	\$178
5	\$120	\$35	\$50	\$9	\$5	\$219
6	\$144	\$42	\$60	\$9	\$5	\$260
7	\$168	\$45	\$70	\$9	\$5	\$297
For each additional hour add						\$34

Semester Credit Hrs.	Non-Resident					Total Fees
	Tuition Fee	Student Services	General Use Fee	Computer Use Fee	Records Fee	
	Min \$162	Max \$45	\$10/hr.	\$9/sem.	\$5/sem.	
1	\$162	\$7	\$10	\$9	\$5	\$193
2	\$324	\$14	\$20	\$9	\$5	\$372
3	\$486	\$21	\$30	\$9	\$5	\$551
4	\$648	\$28	\$40	\$9	\$5	\$730
5	\$810	\$35	\$50	\$9	\$5	\$909
6	\$972	\$42	\$60	\$9	\$5	\$1,088
7	\$1,134	\$49	\$70	\$9	\$5	\$1,263
For each additional hour add						\$172

## PAYMENT BY INSTALLMENT

Section 54.007 of the Texas Education Code provides for payment by installment of tuition and mandatory fees in the Fall and Spring semesters.

Mandatory fees are those fees required of all students enrolled (i.e., Tuition, Student Service fee, General Use Fee, Instruction Fee and Laboratory Fee).

**Eligibility:** Students who do not receive any form of financial aid, including scholarships, and are registered for a minimum of seven semester credit hours, are eligible to pay by installment.

**Options:** Eligible students may elect one of two payment options during Fall and Spring registration.

- Full payment of all tuition and mandatory fees in advance of the beginning of the semester (at registration); or
- One-half payment of tuition and mandatory fees at registration and one quarter payment prior to the start of the sixth class week and the final quarter payment prior to the eleventh class week.

Once selected, an option may not be changed. However, advance payments will be accepted. Students dropping below the seven mandatory hours must pay the balance in full.

# TUITION AND FEES – UPPER DIVISION ONLY

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**Incidental Charge:** A non-refundable incidental charge of \$7.50 per installment will be collected at registration in a lump sum. Payment of the entire unpaid balance will preclude any further incidental charges.

**Collection after Registration:** Section 54.007 of the Texas Education Code require collection of the second and any subsequent installment before the class weeks indicated above.

**Late Payment:** Late installments will be accepted during the first three class days of the class week indicated above, but a non-refundable late payment charge of \$5.00 will be assessed in addition to the installment amount.

**Reinstatement:** Late installments will be accepted even then, but a non-refundable reinstatement charge of \$25.00 will be assessed in addition to the installment amount.

**Failure to Pay Installment Tuition:** Students who fail to fully pay tuition and fees, including late fees assessed, to the University when the payments are due, are subject to one or more of the following actions at the University's option:

- Bar against re-admission at the institution
- Withholding of grades, degrees and official transcripts; and
- All penalties and actions authorized by law.

*NOTE: Payment by Installment policy is subject to change without notice or obligation in keeping with the policies and actions of the Board of Regents and in conforming with the Laws of the State of Texas.*

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## RESIDENCY WAIVER FOR MEXICAN RESIDENTS

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State law allows students who are citizens of Mexico who can document financial need to pay the same tuition as residents of the State of Texas when enrolling. To be eligible for this waiver, such students must complete all University matriculation requirements and be accepted for admissions by the posted admissions deadline.

# TUITION AND FEES – LOWER DIVISION ONLY

## RESIDENCY CLASSIFICATIONS

**Resident Students** have two classifications – those who live in the Texas Southmost College District, and those who live outside the district.

Persons, and their dependents, who do not live in the college district but who own property which is subject to ad valorem taxation by Southmost Union Junior College District, are also classified as In-District students.

Evidence of ownership of such property shall be a current certificate of payment provided by the Cameron County, Texas, Tax-Assessor Collector. It must be submitted with the application for admission to the University and will be retained by the University. This evidence must be re-submitted annually.

Dependents of property owners must submit a copy of the prior year's income tax form listing the student as a dependent. Foreign students are not eligible for the waiver.

*Tuition and fees are subject to change as laws and conditions may necessitate.)*

## TUITION AND REQUIRED FEES

### Semester-Length Courses

Required Lower Division registration fees for each semester include the following:

- **In-District Students' Tuition:** \$14.00 per semester credit hour, with a minimum tuition charge of \$120.00.
- **Out-of-District Students' Tuition:** \$24.00 per semester credit hour, with a minimum tuition charge of \$120.00.
- **Non-Resident Students' Tuition:** \$94.00 tuition per semester credit hour, with a minimum tuition charge of \$120.00.
- **Student Services Fee:** \$7.00 per semester hour to a maximum of \$90.00.
- **General Use Fee:** \$10.00 per semester hour.
- **Laboratory Fee:** Assessed according to Course and Lab Fee Table.
- **Computer Use Fee:** \$9.00 per semester.
- **Records Fee:** \$5.00 per semester
- **Special Fees (per semester):**
  - Late Registration .....\$5.00
  - Graduation .....\$15.00
  - Parking Fee (per long semester) .....\$4.00
  - (per summer semester) .....\$2.00
  - Special Exam (late or early test, other) .....\$10.00
  - Collection of Returned Checks .....\$15.00
  - CLEP Subject Examination (each) .....As set by CEEB
  - Off Campus Fee, per course .....\$15.00

The following table does not include required laboratory fees or individual instruction fees which are listed with the individual course descriptions.

## COURSE AND LAB FEES TABLE

Accounting [ACCT or TACC] .....	\$8.00
Art [ARTS] (all except 1301, 1303, 1304) .....	8.00
Child Care and Development [TCCD]	
1231, 1241, 1331, 1411, 1421, 2451 .....	8.00
Computer Information Systems [TCIS] Lab Courses .....	8.00
Computer Science [COSC] 1417, 1418, 2318, 2420, 2425 .....	8.00
Drafting [TDRF] .....	8.00
Electronics [TELC] .....	8.00
Engineering [ENGR] 1304, 1407 .....	8.00
Kinesiology [KINE] Activity courses .....	8.00
Medical Lab. Tech. [TMLT] (Except 1290, 2290, 2293, 2296) ...	8.00
Music [MUS] Class. Piano, Guitar 1179, 1180, 1181, 1182 ....	8.00
Applied Music [MUAP] .....	35.00
Nursing Lab (NURS) .....	8.00
Radiologic Therapy [TRAD] 1405, 1415, 1425 .....	8.00
Respiratory Therapy Tech.[TRES] 1505, 1515, 2305, 2315 ....	8.00
Science Lab (Biology, Chemistry, Geology, Physics, Physical Science) .....	8.00

Tuition  
and Fees

## TUITION AND FEES TABLE

### Vocational Shop Clock Hour Programs

*(Auto Body Mechanics, Automobile Mechanics, Air Conditioning and Refrigeration, Building Trades, Diesel Mechanics, Machine Shop, Welding)*

	In-District		
	Yearly	Quarterly	.PT Quarterly
Tuition .....	\$504.00	\$126.00	\$63.00
Student Services Fee .....	\$180.00	\$45.00	\$23.00
General Use Fee .....	\$216.00	\$54.00	\$54.00
Shop Fee .....	\$60.00	\$15.00	\$15.00
<b>Total .....</b>	<b>\$960.00</b>	<b>\$240.00</b>	<b>\$155.00</b>
	Out-Of-District		
Tuition .....	\$864.00	\$216.00	108.00
Student Services Fee .....	\$180.00	\$45.00	\$23.00
General Use Fee .....	\$216.00	\$54.00	\$54.00
Shop Fee .....	\$60.00	\$15.00	\$15.00
<b>Total .....</b>	<b>\$1,320.00</b>	<b>\$330.00</b>	<b>\$200.00</b>
	Non-Resident		
Tuition .....	\$3,383.00	\$846.00	\$423.00
Student Services Fee .....	\$180.00	\$45.00	\$23.00
General Use Fee .....	\$216.00	\$54.00	\$54.00
Shop Fee .....	\$60.00	\$15.00	\$15.00
<b>Total .....</b>	<b>\$3,839.00</b>	<b>\$960.00</b>	<b>\$515.00</b>

Tuition does not include books, tools, or insurance. Most industries require employees to furnish their own hand tools; therefore, students must furnish some hand tools, books, supplies and occupational safety equipment (goggles, safety shoes, etc.).

*Each student enrolled in a Vocational Shop Program must pay a student accident insurance fee as determined by current insurance policy premium requirements. Contact the appropriate program director for specific requirements.*

# TUITION AND FEES – LOWER DIVISION ONLY

## TUITION AND FEES TABLES

### Each Fall or Spring Semester

Semester Credit Hrs.	Resident In-District					Total Tuition & Fees
	Tuition	Student Services Max=\$90	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.	
	1	\$70	\$7	\$10	\$9	
2	\$70	\$14	\$20	\$9	\$5	\$118
3	\$70	\$21	\$30	\$9	\$5	\$135
4	\$70	\$28	\$40	\$9	\$5	\$152
5	\$70	\$35	\$50	\$9	\$5	\$169
6	\$84	\$42	\$60	\$9	\$5	\$200
7	\$98	\$49	\$70	\$9	\$5	\$231
8	\$112	\$56	\$80	\$9	\$5	\$262
9	\$126	\$63	\$90	\$9	\$5	\$293
10	\$140	\$70	\$100	\$9	\$5	\$324
11	\$154	\$77	\$110	\$9	\$5	\$355
12	\$168	\$84	\$120	\$9	\$5	\$386
13	\$182	\$90	\$130	\$9	\$5	\$416
14	\$196	\$90	\$140	\$9	\$5	\$440
15	\$210	\$90	\$150	\$9	\$5	\$464
16	\$224	\$90	\$160	\$9	\$5	\$488
17	\$238	\$90	\$170	\$9	\$5	\$512
18	\$252	\$90	\$180	\$9	\$5	\$536
For each additional hour add .....						\$24

Semester Credit Hrs.	Resident Out-Of-District					Total Tuition & Fees
	Tuition	Student Services Max=\$90	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.	
	1	\$120	\$7	\$10	\$9	
2	\$120	\$14	\$20	\$9	\$5	\$168
3	\$120	\$21	\$30	\$9	\$5	\$185
4	\$120	\$28	\$40	\$9	\$5	\$202
5	\$120	\$35	\$50	\$9	\$5	\$219
6	\$144	\$42	\$60	\$9	\$5	\$260
7	\$168	\$49	\$70	\$9	\$5	\$301
8	\$192	\$56	\$80	\$9	\$5	\$342
9	\$216	\$63	\$90	\$9	\$5	\$383
10	\$240	\$70	\$100	\$9	\$5	\$424
11	\$264	\$77	\$110	\$9	\$5	\$465
12	\$288	\$84	\$120	\$9	\$5	\$506
13	\$312	\$90	\$130	\$9	\$5	\$546
14	\$336	\$90	\$140	\$9	\$5	\$580
15	\$360	\$90	\$150	\$9	\$5	\$614
16	\$384	\$90	\$160	\$9	\$5	\$648
17	\$408	\$90	\$170	\$9	\$5	\$682
18	\$432	\$90	\$180	\$9	\$5	\$716
For each additional hour add .....						\$34

Semester Credit Hrs.	Non-Resident					Total Tuition & Fees
	Tuition	Student Services Max=\$90	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.	
	1	\$120	\$7	\$10	\$9	
2	\$188	\$14	\$20	\$9	\$5	\$236
3	\$282	\$21	\$30	\$9	\$5	\$347
4	\$376	\$28	\$40	\$9	\$5	\$458
5	\$470	\$35	\$50	\$9	\$5	\$569
6	\$564	\$42	\$60	\$9	\$5	\$680
7	\$658	\$49	\$70	\$9	\$5	\$791
8	\$752	\$56	\$80	\$9	\$5	\$902
9	\$846	\$63	\$90	\$9	\$5	\$1,013
10	\$940	\$70	\$100	\$9	\$5	\$1,124

11	\$1,034	\$77	\$110	\$9	\$5
12	\$1,128	\$84	\$120	\$9	\$5
13	\$1,222	\$90	\$130	\$9	\$5
14	\$1,316	\$90	\$140	\$9	\$5
15	\$1,410	\$90	\$150	\$9	\$5
16	\$1,504	\$90	\$160	\$9	\$5
17	\$1,598	\$90	\$170	\$9	\$5
18	\$1,692	\$90	\$180	\$9	\$5

For each additional hour add .....

### Each Summer Session

Semester Credit Hrs.	Resident In-District				
	Tuition	Student Services Max=\$45	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.
	1	\$35	\$7	\$10	\$9
2	\$35	\$14	\$20	\$9	\$5
3	\$49	\$21	\$30	\$9	\$5
4	\$63	\$28	\$40	\$9	\$5
5	\$77	\$35	\$50	\$9	\$5
6	\$91	\$42	\$60	\$9	\$5
7	\$105	\$45	\$70	\$9	\$5
8	\$119	\$45	\$80	\$9	\$5
9	\$133	\$45	\$90	\$9	\$5

For each additional hour add .....

Semester Credit Hrs.	Resident Out-of-District				
	Tuition	Student Services Max=\$45	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.
	1	\$60	\$7	\$10	\$9
2	\$60	\$14	\$20	\$9	\$5
3	\$72	\$21	\$30	\$9	\$5
4	\$96	\$28	\$40	\$9	\$5
5	\$120	\$35	\$50	\$9	\$5
6	\$144	\$42	\$60	\$9	\$5
7	\$168	\$45	\$70	\$9	\$5
8	\$192	\$45	\$80	\$9	\$5
9	\$216	\$45	\$90	\$9	\$5

For each additional hour add .....

Semester Credit Hrs.	Non-Resident				
	Tuition	Student Services Max=\$45	General Use Fee \$10/Hr.	Computer Use Fee \$9/Sem.	Records Fee \$5/Sem.
	1	\$94	\$7	\$10	\$9
2	\$188	\$14	\$20	\$9	\$5
3	\$282	\$21	\$30	\$9	\$5
4	\$376	\$28	\$40	\$9	\$5
5	\$470	\$35	\$50	\$9	\$5
6	\$564	\$42	\$60	\$9	\$5
7	\$658	\$45	\$70	\$9	\$5
8	\$752	\$45	\$80	\$9	\$5
9	\$846	\$45	\$90	\$9	\$5

For each additional hour add .....

# TUITION AND FEES – LOWER DIVISION ONLY

## PAYMENT OF TUITION AND FEES

### *Semester Length Courses*

- Tuition and fee payments are due according to payment dates published in the course schedule for each semester.

### *Vocational Shop Clock Hour Courses*

- Tuition and fee payments for vocational shop courses will be made quarterly (every three months). The total 12-month cost of a course is divided into four quarterly payments.
- Quarterly tuition and fee amounts are due and payable in full on the four registration dates listed.
- Late registration will take place only one day after the regular registration date. Students who have not fully registered and paid for each quarter by the deadline will be promptly disenrolled from the program. The Business Office, Financial Aid Office, and Veterans Office will be notified promptly so that they may take appropriate action.

## RESIDENCY WAIVER FOR NON-RESIDENTS

The same rate of tuition and fees charged residents of the Southmost College district for lower division courses shall be charged to people, and their dependents, who own property which is subject to ad valorem taxation by the college district. Students not domiciled in the United States are not eligible for this waiver.

## REIMBURSEMENT PRIORITY

Refunds are required to be credited to the following programs in this order:

1. Outstanding balances on Part B, D, and E loans;
2. Awards for Pell, SEOG, and the CWS programs;
3. To other Title IV student assistance programs;
4. To other financial aid programs;
5. To the student.





# SCHOLASTIC REGULATIONS





# SCHOLASTIC REGULATIONS

## STUDENT RESPONSIBILITY

Students are expected to inform themselves thoroughly of the regulations of the university and the course requirements for degrees and to inquire in case of doubt. It will not be the University's responsibility if complications arise because students fail to follow regulations and requirements. Students should become familiar with all of the program-related information contained in the university catalog and applicable publications.

Procedural changes, as well as changes in regulations and requirements, may be made from time to time.

Students should work directly with the persons in their major department who are assigned the responsibility of supervising students' program course requirements and options, efficiencies, degree plans, and special regulations.

Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Requests to waive regulations and/or requirements should be directed in writing to the department chair, or appropriate Dean, who will notify the student of the decision on the request.

Students become responsible to the appropriate Dean of a College or School. Each student, by registering, enters a school or college of the University and, except as to conduct, is thereafter under the jurisdiction of the Dean. This placement includes jurisdiction over students' programs of study and degree requirements.

### Student Conduct

Students capable of doing university work are assumed to be aware of generally accepted rules of good conduct. Good conduct is expected at all times. Students are expected to be courteous, tolerant of others, and honest.

Students may be dismissed from UTB for misconduct, for dishonesty, for lack of seriousness of purpose, for unsatisfactory work, or for general undesirability as university students.

On recommendation of the instructor concerned and with approval of the Dean, or appropriate Vice President, students may at any time be dropped from courses for good cause. See the Student Guide for more detailed information on rules of student conduct and discipline.

### Student Discipline

By enrolling in the university, students neither lose the right to escape responsibilities of citizenship. All students are expected to comply with state and federal law, the Rules and Regulations of the Board of Regents of The University of Texas System, UTB regulations, and instructions issued by university administrative officials in the course of their duties.

When students violate the prescribed codes of behavior, disciplinary action may be initiated through the Office of the Dean in Student Services.

Information about the rules of conduct, due process procedures and disciplinary penalties is published in the Rules and

Regulations of the Board of Regents of The University of Texas System. Copies of these documents are available in the Office of the Dean of Student Services. Information on conduct and due process is published in the Student Guide which is available in the Enrollment Office.

## ACADEMIC POLICIES

### Academic Appeals

Students wishing to appeal final grades or misunderstandings in academic standards should first discuss the matter with the individual instructor of the class. If no resolution occurs and the student wishes to pursue the matter further, students should contact the appropriate department for detailed appeal procedures.

### Advanced Level Work

Courses numbered either 3000 or 4000 are called advanced or upper division courses. Students may not enroll in any upper division course until they have successfully completed the TASP test. Normally, students with less than 60 semester credit hours may enroll in 3000 or 4000 courses only when their schedules include enough lower level work to total at least 60 semester hours, in addition to the upper level courses for which they wish to enroll. Approval of the Department Chair or Dean is required if the conditions above are not met for advanced level enrollment.

### Attendance and Absences

Students are expected to be diligent in their studies and regular in class attendance. Students are responsible for all class work and assignments. The number of absences permitted in any one course varies with instructor and course. Attendance requirements are printed in the course syllabus and announced by the instructor at the initial class meeting.

Students may not drop developmental courses except under extenuating circumstances and with the approval of the Dean of the College or School.

Students may be absent from class for the observance of a religious holy day. If an examination or other assignment is scheduled for that day, the student is to be allowed for a reasonable period of time to complete the examination or assignment. To request a holy day absence, the student must execute the appropriate form in the Enrollment Office and notify each instructor NO LATER THAN THE FIFTEENTH CALENDAR DAY OF THE SEMESTER of the date of each class from which the student will be absent because of a holy day.

### Auditing Courses

Audit enrollment is on a space available basis for courses that have been designated as suitable for audit by the Dean of the College or School. Not all courses are available for audit. Students may not enter courses for audit until the seventh day after classes have begun. Those who wish to audit should contact the Office of Enrollment and pay the appropriate audit fee at the Business Office. There is no charge for persons 65 years and older. Audit fees are non-refundable.

Audit students do not receive credit. An audit intention cannot be changed to credit nor can credit courses be changed to audit. Audit work cannot be used toward diploma or degree requirements. Enrollment as an auditor does not permit enrollees to take examinations, have tests or other papers checked by the instructor or participate in required oral recitations, etc. Audited courses are posted on students' permanent records.

## Cheating

Students are expected to be above reproach in all scholastic activities. Students who engage in scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit for any work or materials that are attributable in whole in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." Regent's Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22.

Since scholastic dishonesty harms the individual, all students and the integrity of the university, policies on scholastic dishonesty will be strictly enforced.

## Classification of Students

Students are classified according to the number of semester hours of university credit they have earned.

- **Freshmen** have credit for fewer than 30 semester hours.
- **Sophomores** have credit for 30-59 semester hours.
- **Juniors** have credit for 60-89 semester hours.
- **Seniors** have credit for 90 or more semester hours.
- **Special (or Post Baccalaureate)** students hold a bachelor's degree and are enrolled in undergraduate courses.
- **Graduates** have an undergraduate degree and have been accepted in a Master's Degree program.
- **Special Graduates** have a graduate degree and are continuing in a graduate program.

## Corequisite

A corequisite is a course which must be taken together with another course during the same enrollment period or session. All corequisites are listed in the Catalog under course listings or in the printed course schedule for each session.

## Course Numbers

Courses are numbered to show both the collegiate level at which they are offered and the semester hour value of the course. The first digit shows the level and the second digit shows the credit hours. The last two digits are merely departmental designations.

- 1000 courses are at the freshmen level
- 2000 courses are the sophomore level
- 3000 courses are at the junior level
- 4000 courses are at the senior level
- 5000 courses are at the graduate level and are usually offered with a 4000 level course. (Students cannot receive credit in the 5000 level course if they already have credit for the comparable 4000 level course.)
- 6000 courses are at the graduate level

For example the catalog entry, Spanish 3301, shows that the course is given in the Junior level and carries three hours of credit per semester.

## Course Schedule

A course schedule is published before registration each semester. Class changes from the schedule, such as reassigning of instructors, closing, consolidating, dividing, or equalizing teacher loads may be made for the convenience of the University.

## Credit

The unit of credit (cr) for academic and technical courses is the semester hour. The total credit hour value (also referred to as "semester hour value, semester credit hours or credit hours") of a course usually indicates the number of class hours it meets each week for one semester. During the long session, courses meet three hours each week for three semester hours of credit. Courses requiring laboratory work meet additional hours at specified times.

## Degree Plan

The approved plan of study which leads to a degree certificate from UTB is called a Degree Plan. In general, students who have not declared a major should follow the degree requirements of the University to plan a schedule of courses. Students planning to graduate from UTB who have declared a major are required to have an official degree plan drawn up at the Counseling Center during their first semester of attendance at the University. The degree plan must be validated by the major department before becoming an official document.

Once students have an official degree plan, they will be referred to a faculty advisor in the major department for further advising. However, students are responsible for becoming familiar with all requirements of the catalog under which they are graduating. Students desiring to change their degree plans must get a degree plan change at the Counseling Center. Degree plan changes must be approved by the student's advisor and validated by the appropriate department before becoming official.

Upon request, the Counseling Center will assist students in preparing unofficial degree plans for universities to which they wish to transfer after completing general degree requirements at UTB. These degree plans serve only as guides in selecting courses that are transferable to the student's transfer institution. Students are still responsible for seeking additional help and clarification regarding admission and major requirements at the transfer institution.

## Final Examinations

Final examinations are held at the end of each semester. Examinations must be taken according to the published schedule unless prior approval has been obtained and alternative arrangements have been made. Approval will be granted in rare circumstances. Students who miss an examination for reasons beyond their control should notify the instructor at the appropriate Department Chair immediately.

## Full-Time Graduate Student

Graduate students enrolled for at least nine semester hours of graduate credit during a regular semester or at least six semester hours of graduate credit during a summer session are considered full-time students.

## Full-Time Undergraduate Student

Undergraduate students enrolled for at least 12 semester hours of credit during a regular semester or at least six semester hours of credit during a summer session are full-time students.

## Grades and Grade Point Averages

The following grades are used to designate achievement in coursework. Their corresponding grade values are indicated.

Grade	Explanation	Grade Points Per Semester Hour
	Excellent	4
	Good	3
	Average	2
	Below Average	1
	Failure	0
	Incomplete	Not used in computing GPA
	Pass	Not used in computing GPA
	Satisfactory	Not used in computing GPA
	Unsatisfactory	Not used in computing GPA
	Withdrawal	Not used in computing GPA

Grades are awarded in courses in which students are officially enrolled after the last day to withdraw from a course without receiving a grade. This date, one week before the beginning of final examinations, is indicated in the Academic Calendar for each enrollment period. Students who do not withdraw before the deadline may not be given a "W" on the final grade sheet.

A grade of "I" may be given when students have not completed the required work of a course within the allotted time of a regular semester or summer term if the Instructor determines that the reasons for the work being incomplete are valid and that the grade of "I" is justified. A written agreement between the student and the Instructor specifying the work to be made and the deadline for its accomplishment must be filed in the office of the Department Chair at the time that the "I" is submitted. The work agreed upon must be satisfactorily completed and the "I" changed not later than the end of the next regular (Fall or Spring) semester from the date the "I" was received unless an extension is requested by the Instructor, or the grade will automatically be recorded as a "F" on the official transcript.

- Student will not be given an "I" grade to allow
- time to prepare course work in addition to that assigned to the entire class,
  - time to repeat the entire course, or
  - opportunity to raise a grade.

Incomplete grades are not issued for student or faculty convenience; they may be issued only in the case of compelling, non-academic circumstances beyond the student's control.

## Grade Point Averages (GPA)

Grade point averages are computed by dividing the total grade points earned by the total semester hours attempted.

Course	No.	Grade	Hours	Grade Points
English	2302	C	3 sem. hours	X 2 pts. per hour = 6
Mathematics	4316	D	3 sem. hours	X 1 pts. per hour = 3
History	3314	B	3 sem. hours	X 3 pts. per hour = 9
Chemistry	3403	F	4 sem. hours	X 0 pts. per hour = 0
Physiology	1101	A	1 sem. hour	X 4 pts. per hour = 4

Total hours attempted 14; Total grade points 22  
Total grade points ÷ Total semester hours attempted = GPA

$$22 \div 14 = 1.57$$

## Grade Reports

Final grades are mailed as soon as they are compiled after the close of the semester. The report reflects the grade assigned by the Instructor on the final grade sheet; any subsequent change is not included. Grades are mailed to the student's local address as listed by the University.

## Grade Changes

If an error in computation, evaluation or recording warrants a grade change, the instructor may process a grade change form through his/her department chairperson. If the grade change is made after graduation, for a course taken prior to graduation, the change request form must have written justification by the instructor, recommendation of the department chair, and approval by the Dean.

## Graduate Admission GPA

The Graduate Admission GPA is calculated for the last 60 semester hours (or equivalent) of all university work. See Graduate Admissions Definitions for detailed explanation.

## Graduation Application

Degrees are not awarded automatically upon completion of scholastic requirements. To be considered as candidates for a degree, students must submit an application for a degree to the UTB Enrollment Office. Check the class schedule for deadline dates for submitting applications.

*Scholastic Regulations*

## Graduation Under a Specific Catalog

Students may meet the requirements for graduation that are listed in the catalog of the year in which they entered the University, or some later catalog. However, students must graduate within eight years from the academic year of entrance or they must be placed under the provisions of a later catalog. Any changes in a degree plan to comply with a later catalog must be approved by the appropriate Dean.

## Grievances Other Than Grades

In attempting to resolve any student grievance, it is the obligation of the student first to make a serious effort to resolve the matter with the individual with whom the grievance originated. Grievances involving matters other than grades are appealed to the department chair or office director, the academic dean if appropriate, then to the Dean of Student Services, Vice President for Business Affairs, or Vice President for Academic Affairs. If the matter remains unresolved at this level, the student may make a final appeal to the President. Appeals to the Vice President for Academic Affairs must be submitted in writing on an appeal form available in academic departments or the Enrollment Office. (For grievances involving grades, see the Scholastic Regulations section).

## GRE Composite Score

The GRE Composite Score is the sum of the verbal and quantitative scores on the Graduate Record Examination.

## Pass/Fail Option

Students enrolled in a Kinesiology activity course may take the course for the traditional letter grade (e.g. A, B, C, etc.) or may elect to take it on a Pass/Fail basis. To exercise the Pass/Fail option, students must petition to do so no later than the deadlines announced in the Academic Calendar. Petitions are made at the Enrollment Office.

## Prerequisite

Prerequisites are specified requirements that must be met before students may enroll in a course. Specific prerequisites are listed in course descriptions.

## Quality of Work

While a grade of D is considered passing in a subject, an overall average of C which corresponds to a grade point average of 2.0 must be maintained by students if they expect to graduate. UTB has additional specific grade requirements also. For example, students must have at least a C in each freshman-level English course and College Algebra. Students must also make an average of C in both their major and minor fields.

Students who expect to be certified as teachers must have a grade point average of 2.25 in both their major and minor fields.

## Registration

In order to attend classes, students must first register or enroll for the courses they wish to attend and pay all appropriate tuition and fees. Students must complete all admissions procedures prior to registration. Information on registration dates and times is listed in the University Instructional Calendar and the printed course schedule for each semester session. Information on registration procedures and deadlines may be obtained at the Counseling Center or at the Enrollment Office in Tandy Hall.

## Repeated Courses

When a course is repeated, only the last grade and hours earned are used to calculate the grade point average. (Except in calculating GPA for Graduate School admission and Graduate GPA).

## Required Courses

All courses in students' degree plans are required courses and must be completed in order for the student to receive a degree or certificate. Most courses are sequenced from less advanced to more advanced courses and should be taken in the order suggested. Assistance with course selection and information on required courses and sequencing may be obtained in the Counseling Center in Tandy Hall. In addition, the following policies apply:

- Students may be required to take certain developmental courses based on assessment scores or TASP scores before they are allowed to enroll in more advanced courses.
- All full-time students in academic and technical programs which require English skills are required to register for English or College Writing Skills each semester until six semester hours of freshmen-level English (or for two-

year students, College Writing Skills) are complete the degree plan is satisfied.

- Kinesiology is required for some programs. Students are unable to participate in Kinesiology activity course because of health or physical conditions may petition for a waiver. In such cases, a physician's certificate is required. A waiver is not automatic, and must be requested by the student at the Enrollment Office. An approved waiver does not grant credit for the course or hours. An elective course must be taken to make up the hours for the Kinesiology activity course(s) waived. Any students eligible for a waiver may enroll in Kinesiology activity courses and count credit towards graduation.

## Semester Hour

University credit is measured in semester hours. Ordinarily, a class that meets one 50-minute period per week for a semester will carry a credit of one semester hour. Since the major classes meet three periods, or their equivalent, each week, classes carry three semester hours of credit. Two or three laboratory hours per week are usually required for one semester of laboratory credit.

## Sessions

**The Long Session:** The University operates on the semester plan. During the fall and spring semesters, most day classes meet three times per week (M/W/F) for 50 minutes at each meeting, or twice a week (T/T) for 75 minutes for each meeting. Some classes are scheduled in the evening and meet on Monday (M), Tuesday (T), Wednesday (W), or Thursday (Th) for 150 minutes at each meeting, depending on course credit. Subjects requiring laboratory work meet two evenings each week. Weekend classes are also offered on a regular basis.

**The Summer Session:** The summer session is divided into two terms, Summer I and Summer II. Most day classes of semester hour credit meet one hour and 40 minutes, five days a week, for five and one-half weeks. During the summer session, most night classes of three semester hour credit meet for three hours, four times each week for five and one-half weeks.

**The Quarter Session:** Some programs, such as the Vocational Shop (Clock Hour) Programs, operate on the Quarter Session. There are four quarters in each university calendar year. Full-time vocational clock hour programs meet 30 hours each week for 12 months. Part-time vocational clock hour programs meet 15 hours each week for 12 months. (Refer to Vocational Shop Program Calendar)

## Withdrawing From Classes

After the official census date, students may withdraw from classes other than developmental classes and receive a "W" on their permanent records. The Instructor's signature and the department stamp must be obtained on the appropriate form. The last date to withdraw is specified in the University Instructional Calendar.

# STANDARD OF WORK – GRADUATE

## Satisfactory Progress

A minimum grade-point average of 3.0 (B) is required for a graduate degree. Grade points are assigned to graduate students as follows:

- 4 for each semester hour of A
- 3 for B
- 2 for C
- 0 for F (D is not given)

All grades earned (including those for repeated courses) will be used to compute the grade-point average. Every semester-hour of C must be balanced by one of A.

## Scholastic Probation and Suspension

Graduate students who make lower than a 3.0 grade point average in a semester will be placed on academic probation and warned that their continuance is in jeopardy. During the following semester or summer school, their overall GPA must return 3.0 or above or they will be suspended. They may be readmitted only after petitioning the Dean of the School or College and receiving approval. Students with other than clear admissions are subject to criteria set forth under General Admissions Requirements.

# STANDARD OF WORK – UNDERGRADUATE

## Cumulative GPA and Scholastic Standards

All grades earned at UTB are used to calculate the student's Grade Point Average (GPA). In the case of a repeated course, the lowest grade recorded will be used in determining grade point average. The Scholastic Standards chart, based on cumulative GPA, indicates Good Standing, Conditional Progress, Probation, Continued Probation, and suspension.

Cumulative GPA (All Hours Taken)					
Clock Hrs.	Good Standing	Conditional Progress	Probation	Continued Probation	Suspension
0	2.00 and above	1.60-1.99	Below 1.60	Below 1.60 & current sem. GPA of 2.00+	Below 1.60 & below 2.0 for current semester
9	2.00 and above	1.75-1.99	Below 1.75	Below 1.75 & current sem. GPA of 2.00+	Below 1.75 & below 2.0 for current semester
	2.00 and above	NA	Below 2.00	Below 2.00 & current sem. GPA of 2.00+	Below 2.00 & below 2.0 for current semester

## Good Standing

Students in *Good Standing* maintain a 2.0 and above GPA.

## Conditional Progress

Student making *Conditional Progress* maintain a minimum GPA for the number of hours taken. Refer to Scholastic Standards chart above. Students planning to transfer to another college or university should consult that institution's catalog to determine GPA requirements for admission. Conditional Progress also means that a student is proceeding in a satisfactory manner toward fulfilling degree or certificate requirements in a course of study.

## Scholastic Probation

Academic probation and suspension will be determined in the Fall or Spring semester on the basis of the cumulative GPA. Students whose cumulative GPA falls below the scholastic standards prescribed for Conditional Progress will be placed on Scholastic Probation for the next enrollment period. Students whose cumulative GPA in subsequent enrollment periods is lower than required for Conditional Progress, but is at least the GPA required for probation, continue on probation. To be removed from probation, students must meet the required cumulative GPA for Conditional Progress.

## Scholastic Suspension

Students whose cumulative GPA fall below the scholastic standards prescribed for probation are suspended. Students placed on suspension for the first time may not enroll for the next long semester or summer. When placed on suspension for the second time, students may not enroll for the next two enrollment periods. Students on suspension may petition the Admissions Committee (see Counseling Center) for permission to re-enroll on conditional admission. Students placed on suspension for the third time are prohibited from enrolling for the next two enrollment periods, after which they must petition the Admissions Committee for permission to re-enroll.

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# STANDARD OF WORK – VOCATIONAL PROGRAMS

## Good Standing

Clock Hour students in *Good Standing* maintain a 2.0 GPA and successfully complete 80% of the contact hours allotted for each quarter of their registration at UTB.

## Satisfactory Progress

Clock Hour students making *Satisfactory Progress* are eligible to continue attendance in accordance with standards and practices of UTB. Satisfactory Progress means clock hour students are successfully proceeding toward a 2.0 GPA when 1,000 contact hours are completed, and successfully completing 80% of the contact hours allotted for each quarter of their registration.

## Scholastic Probation

Clock Hour students whose cumulative GPA falls below the Vocational Clock Hour Minimum Scholastic Standards prescribed for Satisfactory Progress and who do not successfully complete at least 80% of the contact hours allotted for each quarter of their enrollment will be placed on Scholastic Probation for the next quarter of enrollment. Clock Hour students whose cumulative GPA in subsequent quarters of enrollment is lower than required for Satisfactory Progress, but is at least the cumulative GPA required for probation, and who successfully complete 80% of the contact hours allowed for those quarters, continue on probation.

**Removal from Probation:** To be removed from probation, Clock hour students must meet the required cumulative GPA for Satisfactory Progress and successfully complete 80% of the contact hours allotted for the quarter.

## Scholastic Suspension

Clock hour students whose cumulative GPA at the end of any two quarters of enrollment is lower than required for *Satisfactory Progress* and who have not successfully completed 80% of the contact hours allotted for that quarter are suspended.

Clock hour students placed on suspension for the first time are prohibited from enrolling the next quarter.

Clock hour students placed on suspension for the second time are prohibited from enrolling for the next two quarters. Clock hour students on suspension may petition the Admissions Committee (See the Counseling Center) for permission to re-enroll on conditional admission.

Clock hour students placed on suspension for the third time are prohibited from enrolling for the next two quarters after which they must petition the Admissions Committee for permission to re-enroll.

Clock Hour Students placed on suspension cannot receive financial assistance until they pay their own educational costs for at least one quarter, if they are permitted to re-enroll. Clock hour students on suspension may petition the Admissions Committee to have their financial assistance reinstated.

## Minimum Scholastic Standards

Total Hrs. Taken	Cumulative GPA (All Hours Taken)				
	Good Standing	Conditional Progress	Probation	Continued Probation	Suspension
0-390	2.00 and above	1.60-1.99	Below 1.60	Below 1.60 & current sem. GPA of 2.00+	Below 1.60 & current qtr. GPA below 2.00
391-678	2.00 and above	1.75-1.99	Below 1.75	Below 1.75 & current qtr. GPA of 2.00+	Below 1.75 & current GPA below 2.00
679-1000+	2.00 and above	NA	Below 2.00	Below 2.00 & current qtr. GPA of 2.00+	Below 2.00 & current qtr. GPA below 2.00

## ADDITIONAL STANDARDS TO RECEIVE TITLE IV AND/OR VA TRAINING BENEFITS

Students must be making *Satisfactory Progress* in order to receive financial aid, including VA training benefits. Student records are reviewed each semester to verify eligibility to receive financial aid. For further information, refer to the Scholastic Standards chart on previous page.

**Undergraduate Full-time Students** must have satisfactorily completed credit hours as follows to receive financial assistance:

Academic Progress Period	Total Cumulative Hours Earned	Hours To Be Completed Each
1st year - 2 semesters	20	
2nd year - 4 semesters	40	
3rd year - 6 semesters	60	
4th year - 8 semesters	84	
5th year - 10 semesters	108	
6th year - 12 semesters	132	

**Graduate Students** must have satisfactorily completed credit hours as follows to receive financial assistance:

Academic Progress Period	Total Cumulative Hours Earned	Hours To Be Completed Year
1st year - 2 semesters	18	
2nd year - 4 semesters	36	

All students may use summer school enrollment as a means to make up credit hour deficiencies.

## SCHOLASTIC HONORS

### Honor Rolls

Each semester students with noteworthy scholastic achievement are recognized by publication of the President's List, the Dean's List. Part-time students are eligible for the President's and Dean's Lists during the semester in which a minimum number of credit hours have been accumulated.

**President's List:** Full-time students who earn a 4.0 grade point average

**Dean's List:** Full-time students who earn a 3.5 to 3.99 grade point average

**Phi Theta Kappa:** Candidates for membership must have completed 12 semester hours of Associate Degree work with a grade point average of 3.5, possess recognized qualities of leadership, and be recommended by a member of the organization. Members must maintain a 3.25 grade point average after graduation. Membership is noted on students' official transcripts. Members are recognized at the university's awards ceremony and may wear the Phi Theta Kappa gold stole and tassel at commencement. The purpose of the local Alpha Mu Chapter is to promote scholarship, develop leadership skills, and create a sense of fellowship among qualified students.

**Alpha Chi:** Alpha Chi, a national college scholarship honor society founded in 1922, represents the highest academic honor any member campus. The objectives of Alpha Chi are to promote and to recognize superior scholarship and those elements of character that make for effective service. Membership in Alpha Chi is limited to no more than 10 percent of the junior and senior classes in the academic divisions of colleges and universities. Students must have at least a 3.5 overall grade point average to be invited to become a member of the Texas Chapter of Alpha Chi at The University of Texas at El Paso.

## Honors in Graduation

At the time of graduation students will be recognized for sustained scholastic excellence by graduating with appropriate honors. Honors will be determined by a student's cumulative grade point average on all university-level undergraduate hours earned, including transfers hours. If courses have been repeated, the last grade recorded will be used in determining grade point average. Honors are as follows:

Summa Cum Laude: 3.9-4.00

Magna Cum Laude: 3.7-3.89

Cum Laude: 3.5-3.69

## Valedictorian and Salutatorian

The Valedictorian and Salutatorian will be chosen on the basis of the student's cumulative grade point average on all university-level hours undertaken at UTB.

## TESTING

UTB is a test center for the Institutional Testing Services for numerous national and specialized examinations. They include:

- American College Test (ACT)
- Scholastic Aptitude Test (SAT)
- Texas Academic Skills Program Test (TASP)
- Graduate Record Examination (GRE)
- National Teachers Examination (NTE)
- Graduate Management Admissions Test (GMAT)
- Credit by Examination Testing Program (CLEP)
- Local Advanced Placement (LAP)
- Aptitude for Practical Nursing (PSB)

UTB also has applications for:

- Test of English as a Foreign Language (TOEFL)
- Law School Admission Test (LSAT)
- Examination for Certification of Educators in Texas (ExCET)
- Medical College Admission Test (MCAT)

Descriptions on some of the tests are included below. For more information, contact the Testing Center at 544-8875.

## Texas Academic Skills Program (TASP)

All students who have not earned at least three university-level credit hours before Fall 1989 must, according to the Texas Education Code, take the TASP test before accumulating 15 university-level credit hours. This includes "any transfer student with fewer than 60 semester credit hours or the equivalent who has not previously taken the tests." The TASP test is designed to determine whether or not students possess basic skills in read-

ing, writing, and math necessary for success in university courses, based on state-established minimum criteria. Performance on the test can not be used as a condition of admission. The test fee is paid by the student. (If necessary, students may see Financial Aid for a fee waiver voucher.)

Students who have taken the TASP test but not yet passed all three sections by the beginning of any semester must enroll in developmental classes every semester until they retake and pass any failed sections. If all three TASP areas are failed, students must complete reading and writing first. When two TASP areas are failed, students must complete reading or writing first. Students who receive TASP scores after the beginning of the semester must report those scores to the Counseling Center. At that time, failure on any section will require students to register for developmental activities. A student may not "enroll in any upper division course (the) completion of which would give the student 60 or more semester credit hours or the equivalent until the student's test results meet or exceed the minimum standard in all tests." Other assessment procedures may be used in exceptional cases to allow a student to enroll in upper division courses "in cases where student test results do not meet minimum standards" (Texas Education Code, Sec. 51.306).

*No student may withdraw from a developmental course except under extenuating circumstances and with the permission of the appropriate Dean.* When students have taken all developmental courses required by UTB policy in reading, writing, or math, and then failed a portion of the TASP test, they will be required to enroll in remedial courses. Students will be permitted to withdraw from these courses only if they retake and pass the appropriate TASP section during the semester.

## Assessment Test

UTB has an assessment program designed to provide effective educational services for students by identifying students' strengths and weaknesses in basic skills. The assessment information is used by the University to provide advisement and placement in courses which will best help students improve skills in English, reading, and mathematics. Assessment and certain minimal scores may also be criteria for selection into various University programs.

Appropriate reading and English skills are a prerequisite for entering academic transfer courses with the exception of mathematics, foreign languages and English as a Second Language. Appropriate math skills are a prerequisite for entering academic transfer courses in mathematics. Passing scores in the assessment battery are reviewed periodically by appropriate University officials and may vary from year to year.

Assessment is mandatory for all new full-time and part-time students except:

- Students enrolling in courses for self-enrichment (Maximum 15 hours)
- Students having a bachelor's degree
- Students enrolling only in Adult Continuing Education courses.

## GRE/GMAT

UTB is a test center for the Graduate Record Examination (GRE) for the October, April, and June test dates. The Graduate Management Admissions Test (GMAT) is administered at UTB in January. Applications must reach Princeton, N.J., about a month before the scheduled test date. Contact the Testing Center in Tandy Hall for applications and test dates.

## Advanced Placement Examination Program of the College Board

High school students who have taken university level courses while in high school may earn university credit by successfully completing the **Advanced Placement Examination** in those subjects. Students should consult with their high school counselors for details of this program. These examinations are administered in some high schools during the third week of May of each year. Not all high schools offer university level courses, however, and not all high schools administer the **Advanced Placement Examinations**.

## College Level Examination Program (CLEP)

People seeking information about the **CLEP Examinations** should contact the Counseling and Testing Office at Tandy Hall. Examinations may be taken during the third week of the month; however, application for the examinations must be made at least three weeks before the anticipated test date.

Applicants also may take **CLEP test(s)** at UTB to have scores sent directly to other universities. Applicants should contact the university to which they plan to submit scores before ordering a test. It is applicants' responsibility to select the correct test(s) acceptable by the university to which they plan to submit scores, to know the procedures for applying for credit, and to know the applicability of possible credit to the degree plan.

## Credit by Exam – Advanced Placement

UTB recognizes that some students may have taken university level courses while in high school or may have mastered subject areas in non-traditional ways. In such cases, the University grants credit when such learning is demonstrated in various standardized examinations. Additionally, UTB will credit military service experience based on the recommendations of the current edition of the *Guide to the Evaluation of Educational Experience in the Armed Services*.

It is students' responsibility to have their test scores sent to the Enrollment Office to be considered for credit by examination. Students who wish to receive credit earned in this way must complete a petition in the Enrollment Office of UTB within 30 days of the date their scores are presented to the Registrar. Credit earned by examination is entered on the student's permanent record with a special designation.

UTB offers opportunity for university credit by examination subject to the following general limitations:

1. All former and current students of UTB are eligible for credit. New students may be eligible for credit provided they are enrolled in UTB for the next regular enrollment period (semester, quarter, or summer session) and are not, at that time, concurrently enrolled in high school.
2. Credit by examination may not be:
  - earned for any course in which a student is currently enrolled.
  - earned in any course for which a student previously has received a grade either in this or any other university.
  - earned in any subject in which the student already has credit for the same or a more advanced course in the subject.
  - earned in any course which has prerequisites unless the prerequisites have been fulfilled prior to the

submission of examination scores. This does not preclude the possibility of meeting sophomore standing prerequisite either by examination or combination of course work and examination.

- used to reduce the general degree requirement to be completed in residence of at least 24 semester hours, including at least 12 of the last 18.

In case of doubt regarding eligibility for credit by examination, the Department Chair concerned and the appropriate faculty will make the final decision. *Examinations may not be repeated within one year.*

Specific information about any of the testing programs may be obtained at the Testing Office in Tandy Hall. Sample questions are available for most tests.

## Courses For Which Credit May Be Earned By Examination

	A.P.P.	CLEP	Other
Art 1303	X		
Biology 1406, 1407		X	
Business Admin. 2301	X		
Chemistry 1305, 1312	X	X	
Economics 2301		X	
Economics 2302		X	
English 1301	X	X*	
English 2322, 2323		X	
French 1311, 1312	X		
Government 2302		X	
History 2311, 2312	X		
History 1301	X	X	
History 1302	X	X	
Math 1314		X	
Math 1316	X		
Math 1348, 2313, 2314		X	
Math 2313	X		
Math 2313, 2314	X		
Music 1306	X		
Physics 1301, 1302	X		
Physics 2325, 2326	X		
Psychology 2301			X
Sociology 1301			X
Spanish 1313, 1314, 1373, 1374			

\* C.L.E.P. English composition with essay form.

\*\*Standardized test, plus departmental essay.

## OFFICIAL STATEMENTS

### Human Immunodeficiency Virus Services Act

UTB recognizes Acquired Immune Deficiency Syndrome (AIDS), Human Immunodeficiency Virus (HIV), and Hepatitis B Virus (HBV) as serious public health threats and is commencing an encouraging an informed and educated response to issues concerning AIDS, HIV, and HBV. In furtherance of this commitment, UTB has a policy which provides guidance regarding testing for HIV or HBV infection; confidential information relating to people with AIDS, HIV, or HBV.



and patient care. It is applicable to students, faculty and employees of UTB. A complete copy of the AIDS, HIV, or HBV can be found in the Institutional Handbook of Operating Procedures available in the Dean's office of each school or college and most administrative offices.

The U.T. System has published an educational pamphlet about methods of transmission and prevention of HIV infection and related state laws, which is available to every UT employee and student. Copies of this pamphlet and the educational pamphlet on HIV infection developed by the Department of Health Services are available through Student Health Services and will be made available to all students upon request by calling 544-8200.

## **Illicit Drug Use and Alcohol Abuse Program and Policy**

In compliance with the Drug Free Schools and Communities Act Amendment of 1989, Subsection 3.21 of Chapter VI, Part 1 of the Rules and Regulations of the Board of Regents of The University of Texas System provides for disciplinary action against any student who engages in conduct that is prohibited by state, federal, or local law. This includes those laws prohibiting the use, possession, or distribution of drugs and alcohol.

The University will impose at least a minimum disciplinary penalty of suspension for a specified period of time or suspension of rights and privileges, or both, for conduct related to the use, possession, or distribution of drugs that are prohibited by state, federal, or local law. Other penalties that may be imposed for conduct related to the unlawful use, possession, or distribution of drugs or alcohol include disciplinary probation, payment of damage to or misappropriation of property, suspension of rights and privileges, suspension for a specified period of time, expulsion, or such other penalty as may be deemed appropriate under the circumstances.

The University distributes to each student annually information concerning standards of conduct prohibiting unlawful possession, use, or distribution of illicit drugs and alcohol, health risks associated with their use and abuse, University penalties, state and federal criminal penalties, and counseling and rehabilitation programs available in the area. Additional information is also available in the Student Health Services Office.

## **Hazing**

Hazing in state educational institutions is prohibited by state law (Section 4.19, Chapter 4, Title 1, Texas Education Code). Individuals or organizations violating the law commit a criminal offense and may be subject to fines and/or imprisonment. The law does not affect or in any way restrict the right of the University to enforce its own rules against hazing. Hazing without the consent of the student is prohibited by The University of Texas System, and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline.

(Regents' Rules and Regulations, Part One, Chapter VI, Section 3.28). "Hazing means any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in any organization whose members are or include students at an educational institution." The term includes but is not limited to:

1. Any type of physical brutality, such as whipping, beating, striking, branding, electronic shocking, placing of a harmful substance on the body, or similar activity;
2. Any type of physical activity, such as sleep deprivation, exposure to the elements, confinement in a small space, calisthenics, or other activity that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
3. Any activity involving consumption of a food, liquid, alcoholic beverage, liquor, drug, or other substance which subjects the student to an unreasonable risk of harm or which adversely affects the mental or physical health or safety of the student;
4. Any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame, or humiliation, or that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subsection;
5. Any activity that induces, causes, or requires the student to perform a duty or task which involves a violation of the Penal Code.

## **Sexual Harassment Policy**

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The purpose of this policy is to maintain an environment free of sexual harassment.

### **Scope**

Harassment on the basis of sex is a violation of Section 703 of Title VIII. UTB condemns sexual harassment of the students, staff, and faculty of the University. Any form of sexual harassment will be considered a serious matter to be dealt with accordingly.

### **Sexual Harassment**

Sexual Harassment is defined as: Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when:

- Submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment and education; or
- Submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or
- Such conduct has the purpose or effect of substantially interfering with an individual's academic or professional performance or creating an intimidating, hostile or offensive employment, educational, or living environment.

### **Prohibited Relationships**

Supervisors and faculty of the University shall not enter into any type of romantic or sexual relationship with staff under their supervision or with students enrolled in their courses. Such relationships will be looked upon as potentially detrimental to the working and learning environment, considered inappropriate and unacceptable, and grounds for disciplinary action, including termination, for all appropriate parties involved.

### **Review**

This policy shall be reviewed annually by the Vice President of Academic Affairs, the Vice President of Business Affairs, and the Dean of Student Services.





# SERVICES

# Student Right-to-Know Act

## Graduation Rate Disclosure

The Act requires UTB to make its graduation rates "readily available" to prospective and current students. A student will be counted as graduating if he or she graduates within 150% of the normal time. Students who leave school to serve in the armed services, official church missions, or the recognized foreign aid service of the federal government are not included in the calculations.

No particular method is specified for advising students of graduation rates, but the information must be available annually by July 1, 1993 to current and prospective students before they enroll or incur any financial obligation. The information must cover the one year period ending June 30th of the preceding year and be updated at least biennially.

## Additional Requirements for Athletically-Related Student Aid

Components that offer financial aid to student athletes must report to the Secretary of Education annually:

- Total number of students and the number of student athletes receiving such aid;
- Completion of graduation rate for all students and rate for all students and rate for student athletes receiving aid; and,
- Average completion of graduation rate of both groups (those receiving athletic aid and all others) for the four most recent graduating classes.

Statistics as to race, gender, and athletic participation must be provided in the following categories: basketball, football, baseball, cross country /track, and all other sports combined.

When offering financial aid to a student athlete, the component must provide the reporting information to the student and his or her parents, guidance counselor, and coach.

The Secretary may waive disclosure requirements if the component is a member of an athletic association or conference that has voluntarily published completion or graduation data that is substantially comparable to the information required. At this time, however, NCAA data is not substantially comparable.

Required disclosures under this section take effect July 1, 1992, with the first report to the Secretary due July 1, 1993.

## Crime Awareness and Campus Security Act

### Security Report

The reporting part of the Act directs components to commence collection of campus crime statistics and policies beginning September 1, 1991. After September 1, 1992, UTB must publish and distribute through appropriate mailings an annual security report to all current students and employees. The report must be available to all prospective students and employees upon request.

### Policy Reporting Requirements

The information to be reported includes a statement of current policies regarding:

- procedures and facilities for reporting criminal actions or other emergencies occurring on campus and policies concerning the component's response to such reports;
- security and access to campus facilities, including campus residences and security considerations used in the maintenance of campus facilities;

- campus law enforcement provisions including enforcement authority of security personnel, defining their working relationship with local and state agencies, and all policies that "encourage accurate prompt reporting of all crimes to campus police and appropriate police agencies."

### Program Reporting Requirements

The report must also describe:

- the type and frequency of programs designed to inform students and employees about campus security procedures and practices and to encourage students and employees to be responsible for the security of themselves and others; and
- programs designed to inform students and employees about crime prevention.

### Statistics Reporting

The report and data collection must also include statistics concerning the following criminal offenses reported to campus security authorities or local police agencies occurring on campus during the most recent school year and two preceding years:

- murder;
- rape;
- robbery;
- aggravated assault;
- burglary; and
- motor vehicle theft, and

"Statistics concerning the number of arrests for crimes occurring on campus involving -

- liquor law violations;
- drug abuse violations; and
- weapons possessions."

The statistical report should cover the most recent school year and two preceding years for which data are available.

### Additional Policy Report

If the component has such policies, the following shall be identified:

- policy concerning the monitoring and reporting of criminal activity at all recognized campus security organizations, including those student organizations, off-campus housing facilities; and
- policies regarding
  - the possession, use, and sale of alcoholic beverages and enforcement of state underage drinking laws;
  - possession, use and sale of illegal drugs and enforcement of federal and state drug laws; and
  - a description of any drug or alcohol abuse education programs as required under Section 1213 of the Education Act of 1965.

### Campus Response

UTB is mandated to make timely reports to the campus community on crimes considered to be a threat to students and employees. The Act is not specific as to the dissemination of these reports but merely directs that "such reports shall be provided to students and employees in a manner that is timely and that will aid in the prevention of similar occurrences."

### Certification

UTB must certify to the Secretary of Education that it has established a campus security policy and has complied with the disclosure requirements.

## SUPPORT SERVICES

### Counseling Services

The Counseling Center provides a variety of services to all students following either academic or vocational and technical programs of study. The Center offers both group and individualized programs to help students deal with academic, career, and personal concerns. The Counseling Center also assists and advises students regarding degree plans, programs, and requirements.

However, once students declare a major and request a degree plan, they will be referred to a faculty advisor for further academic advising.

Listed below are the specific services offered by the Counseling Center.

#### Academic Advising

Student Orientation  
Scheduling/Course Requirements  
Degree Plans  
Admission/Suspension  
Transfer/Graduation  
Referrals to Tutorial Services  
Transfer Information  
Transfer Requirements

#### Personal

Personal Problems  
Personal Skill Development  
Group Sessions  
Self-Help Seminars  
Referrals to Campus/  
Community Services

#### Handicapped Programs

Academic Advising  
Job Skills Assessment  
and Diagnostic Testing  
Mobility Assistance  
Notetakers  
Registration Assistance  
Specialized Equipment  
Taped Textbooks  
Tutors

#### Testing

Assessment  
Advanced Placement  
Testing for Health Programs  
Pre-Professional Exams  
Testing Information

Career Planning  
Career Resources  
College/University Information  
Occupational Information  
Computerized  
Guidance System  
Career Planning Courses  
Individual Career Exploration  
Help Workshops  
Cultural Enrichment Activities

Grants  
Academic Advising  
Degree Plans  
Benefits Information

For students following vocational or technical programs of study, Occupation and Technical Education counselors are available in Tandy Hall.

All students are encouraged to come in at their convenience. Appointments are welcomed and no appointments are necessary. For more information, contact the Counseling Center at 544-8292.

### Financial Aid

The primary purpose of the Student Financial Aid program is to provide financial assistance to eligible students who, without such aid, would be unable to attend college. Financial aid for these students is available in the form of grants, loans, college

work-study, veterans' benefits, and scholarships.

For complete information or applications, contact the Office of Student Financial Aid located in Tandy Hall, or call 544-8277.

**Packaging Awards:** UTB uses the Application for Federal Student Assistance to consider students for all financial assistance. Eligible students will be offered grants and College Work Study. If an award is not sufficient to cover the student's educational expenses, a loan will be considered. Students must make arrangements to get loan counseling at the Financial Aid Office before a loan will be processed.

**Distribution of Funds:** Typically eligible students will receive enough money to pay tuition and fees. The balance of the award for that period is disbursed soon after the first official class day.

### Veterans Benefits

UTB is approved by the Texas Education Agency for VA educational benefits for veterans and their children and spouses.

Student veterans may receive assistance from the Financial Aid Office in applying for benefits. To expedite payments, veterans should contact the Enrollment Office at least 60 days prior to the first class day of each semester or term to complete all necessary paper work for that period of study.

Texas veterans who have no remaining VA Educational Benefits may be eligible for exemption of tuition and required fees under the provisions of the Hazelwood Act. Additional information on the Hazelwood Act may be found in the Tuition and Fees section.

**Benefits for Children of Texas Veterans:** Exemption from payment of certain fees also extends to children of members of the armed forces who were killed in action or died while in military service in World War II or the Korean Conflict. For procedures to follow under this provision, contact the Financial Aid Office.

**Veterans Cost of Instruction Program:** The VCIP provides the following services:

- Information and referrals
- Individualized V.A. tutoring
- Explanation of educational benefits
- Assistance with VA educational benefit applications
- Assistance in resolving problems with receipt of educational benefits or eligibility.

**Satisfactory Standards To Receive Title IV And/Or VA Training Benefits:** Students must be making satisfactory progress in order to receive financial aid, including VA training benefits. Student records are reviewed each semester to verify satisfactory progress to receive financial aid. Students receiving VA educational benefits must maintain the following cumulative Grade Point Averages to be making satisfactory progress:

Hours Attempted .....	Required Cumulative GPA
1-30 Hours .....	1.60
31-59 Hours .....	1.75
60+ .....	2.00



## Job Placement Office

The Job Placement Office helps students seeking employment in part-time, full-time, temporary or permanent jobs to help them meet their college expenses and/or gain work experience in their chosen fields. The Job Placement Office provides a service to the community by providing qualified individuals to the businesses in the area.

The Job Placement Office, located in Tandy Hall, can help students develop job-hunting skills by providing workshops, individual consultation, and suggesting job-hunting strategies. The office provides students with assistance in resumé writing and information on various careers.

For more information, contact the Job Placement Office at 544-8218.

## Library

The Arnulfo L. Oliveira Memorial Library houses more than 139,000 book volumes, and has newspaper and periodical titles on microfiche and microfilm. In addition, the library houses the valuable Hunter and Lee collections, which include various books, records, and documents in local history, genealogy, history and classical literature. The library also has a Circulation Department, Reference Department, Technical Service Department, and study areas to accommodate students.

Available at the library are two publications which students and faculty will find useful – The Student Guide to Library Services and Resources and the Faculty/Staff Guide to Services and Resources. These directories contain information on library hours, bibliographic tours, computer searches, and inter-library loan service.

For information, contact the library at 544-8221.

## Tutorial Services

UTB has a free Tutorial Center to provide to all students the instructional support needed to succeed in college.

In the Tutorial Center, professional educators and peer tutors assist students in developing the study skills required for entry level courses with particular emphasis on math, and on speaking, reading and writing well in English. Bilingual staff help students of English as a Second Language. Instructors from the English, Math and Modern Languages Departments help students with the courses offered by their departments. Data-processing equipment adapted for visually impaired students, computers, as well as audio and video cassettes, instructors' notes and study guides are available to UTB students for use at the Center.

Hours are 8 a.m. to 7 p.m. Monday through Thursday, 8 a.m. to 1 p.m. on Friday, and 9 a.m. to 2 p.m. on Saturday. The Tutorial Center is located in rooms N119, N122, N123, N124 and N225 of the North Hall. For more information, contact the Tutorial Center at 544-8208 or 544-8229.

## SPECIAL SERVICES

### Services for Students with Disabilities

Students with disabilities may request assistance through the Counseling Center's Services for Students with Disabilities.

Some of the services available include notetaking, textbooks, mobility assistance, registration assistance, diagnostic testing, and tutoring. Some special equipment is also available.

Students who need *help with registration* should contact the office several days before registration. Students who will need special service *throughout the semester* should inform Services for Students with Disabilities several weeks before each semester.

Permits for parking in spaces designated for the handicapped may be obtained during registration or at the Campus Planning Department.

### Health Services

An emergency first aid center is available for minor emergencies and hospital referrals. Free information concerning substance abuse, health care, and proper nutrition is available for students. The center is open from 7:30 a.m. to 10 p.m. Monday through Thursday and from 7:30 to 1 p.m. on Friday.

The Student Health Services Office is located at Campus Hall. For health services other than minor emergencies, students should obtain the services of a physician.

### Insurance

All students are covered by a limited insurance policy for injuries sustained in attendance at the University or in going directly from home to the University, or from the University directly home. There is protection up to \$5,000 for death, memberment or loss of sight. Medical expenses in excess of \$25.00 may be paid up to \$3,000. A student health insurance plan is available through The University of Texas System.

Forms to be completed in case of injury may be obtained from the Student Health Services Office, which has a detailed description of the coverage offered by the policy. These forms must be completed within 20 days of the date of the accident.

The cost of this coverage is included in the student fee paid by all students. An optional student health and accident insurance plan may be purchased by students. For further information contact the Student Health Services Office.

### Immunizations

The University provides each student who applies for admission with information on the consequences of not being adequately immunized, the age groups most vulnerable to vaccine-preventable diseases, and local immunization services.

All students who enroll in health-related courses must have up-to-date immunizations for tetanus/diphtheria, measles, mumps, rubella, and Hepatitis B.

For additional information and requirements, contact the Student Health Services Office.

## Identification Cards

Student identification cards are issued by the office of the Media Services. Use of the Student ID Card is governed by the following conditions:

- The card remains the property of UTB and must be surrendered to any administrative official or security officer of the University on demand.
- The card must be presented for:
  - admissions to any school or faculty sponsored activity by UTB
  - admission to all athletic events
  - use of the library
  - disbursement of Financial Aid checks
  - receipt of transcripts at the Enrollment Office
  - use of computer services.
- The card is non-transferable. Loss or mutilation must be reported to the Media Services Department. A charge of \$2.00 will be made for replacement.
- ID Card photographs are taken only on Tuesday and Wednesday from 9 a.m. to 6:30 p.m. at South Hall, Room 125. A current valid tuition receipt is required for taking a photo ID or validating an ID Card.

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## STUDENT ACTIVITIES

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The Student Activities Office hosts various events throughout the year. These events include speakers, a Drug Alert Program, festivals, and entertainers.

The following activities are a part of the UTB student activities: Drug Alert Program/Together for a Safe Campus; Get Acquainted/Get Involved; Food Drive; Octoberfest; Mr. Amigo Reception/Plaza de Bellas Artes; Cabaret; Movie Week; OWLS Breakout; and Bougainvillea Ball.

### Student Center

The Camille Lightner Student Center is open for student use until 8:30 p.m. Monday through Thursday and until 1 p.m. on Friday. Activities scheduled during the year at the Student Center include speakers, exhibits, festivals and recruiters from other universities.

Also located in the Student Center is the TV/Game Room supplied with pool tables, video games and a television.

### Registered Student Organizations

The following student organizations are officially recognized by the UTB Student Activities Office. All students are expected to follow the guidelines stated in the Student Organizations Guide available in the Student Activities Office. Students interested in joining a student organization or starting one should contact the Director of Student Activities.

#### Councils, Governing Bodies, and Elected Groups:

- Student Fee Advisory Committee
- Student Government Association

#### Departmental/Professional:

- Advocates for Young Children
- Associate Degree Nursing Association (ADNA)

- Ben L. Brite Student Education Association
- Computer Club
- Criminal Justice Association
- Drafting Club
- Kinesiology Club
- Licensed Vocational Nursing (LVN)
- Management Development Association
- Medical Science Association
- Music Club
- Political Science Student Association

#### Honorary:

- Alpha Chi
- Phi Theta Kappa

#### National Professional Societies:

- Alpha Kappa Psi – Professional Business Fraternity
- Phi Alpha Theta – International History Honor Society
- Sigma Tau Delta – International English Honor Society

#### Religious:

- Baha'i Club
- Baptist Student Union
- Catholic Campus Ministry
- Re'joy'ce in Jesus CCF

#### Service:

- Pi Kappa Sigma (Kappas)

#### Special Interest:

- Club Cultural Latinoamericano
- Club for the Disabled
- Folkloric Dance Company
- Gorgas Science Society
- Martial Arts Club
- Professional Women Speak
- Self Defense Club

#### Sports:

- Athletic Booster Club
- Soccer Club

For more information, contact the Student Activities Office at 544-8264.

### Intramurals/Recreation

UTB provides a varied intramural program which is open to all students and employees. Intramural tournaments are conducted in every individual, dual and team sport offered in the Kinesiology Department classes. There are no entry fees for participants and awards are given to first and second place winners. The intramural schedule is posted on signs around campus and listed in the calendar of events. For more information, contact the Kinesiology Department at 544-8290.

The Manuel B. Garza Gymnasium is open for student recreational use whenever there are no classes, intramurals, athletic department activities or special events scheduled in the facility. This includes the weight room, annex, and main gym floor. Recreation times vary, but generally are from 2 to 4:15 p.m. Monday through Thursday and from 7:45 a.m. to 2:45 p.m. on Friday during the Fall and Spring semester.

Information on summer hours and additional recreational hours may be obtained by calling the Kinesiology Department.

UTB has four tennis courts which are available for recreational use whenever there are no classes, intramurals, athletic department activities or special events on the courts. The tennis courts are generally available from 2 to 11 p.m.daily.

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## SPECIAL PROGRAMS

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### *Rancho Del Cielo Biology Station Program*

Rancho del Cielo is located about 70 miles south of Ciudad Victoria in Tamaulipas, Mexico. Situated in the Sierra Madre at an elevation of 3,750 feet, this area has for decades attracted scientists from all over the world.

They have often described this area as "unique," a strong, but in this case, accurate word. Rancho del Cielo is an enclave at the crossroads of many North and South American plant and animal species. The tropical and temperate mixture found there is believed to be a "relic" forest similar to those once covering North America, 30-50 million years ago. It is an area of great diversity. Eight out of the 12 ecological zones of Mexico are represented within a radius of 12 kilometers.

Students are invited to participate in the program by joining Gorgas Science Society. The Society is open to any student, regardless of major field of study. Classes and opportunities in continuing education are offered at the station through the Biology Station Program, Honors Program, and Biology Department.

### *Carl D. Perkins Vocational and Applied Technology Education Program*

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Student  
Services

Opportunities for under-represented populations such as single parents, homemakers, displaced homemakers, handicapped, individuals who are economically and/or educationally disadvantaged, minorities, limited English speakers, displaced workers, and women and men seeking non-traditional career training are offered for students through various state and federally funded programs. For example, through the Carl Perkins programs, qualified vocational students can receive day care assistance, tutoring, special course work in basic skills, ESL classes and career development workshops.

### *Honors Program*

The Honors Program is designed for students who want to reach beyond the traditional college curriculum. Honors students enjoy the advantages of working with their instructors individually, receiving credit for independent study, pursuing educational travel with fellow students and teachers, and investigating academic subjects in greater depth than the traditional class setting would allow.

This program consists of two courses. Honors Studies offered in the Spring semester consist of a series of mini-seminars of which the student will select six. The Honors Studies Catalog lists the various seminars with the dates of meeting and requirements. Three credit hours are awarded to those who complete this course. The second course of the Honors Program, entitled Independent Studies, will be offered in the Summer and/or Fall semesters. After completing Honor Studies, students will select individual topics they wish to pursue and then choose a committee to aid them. A final project in form of a paper, film, work of art, replication of an experiment, or other approved academic endeavor will be presented to the committee.

Three credit hours will be awarded for Independent Studies. Students who have completed both Honors Studies and Independent Studies will have the "Honors" notation placed on their transcripts and diplomas.

Students who have completed at least 12 hours of course work with a 3.0 (B) average are eligible for the Honors Program. Students who do not meet these requirements but would like to enroll in Honors Studies must have the recommendation of a faculty member.

### *Young Scholars Program*

A three-week enrichment program for academically talented intermediate school students is conducted by faculty members each summer as part of the Honors Program.

Applications are available through intermediate school counselors in Brownsville, Los Fresnos, Port Isabel, and Harlingen. Students are selected on the basis of grade point averages, standardized test scores and letters of recommendation. For more information, call 544-8871.

### *The Challenge for Excellence Endowment Scholarship Program*

The TSC Scholarship Endowment is a program designed to establish scholarship funds for the students in the TSC district; this includes regionally accredited public and private schools in Brownsville, Los Fresnos, and Port Isabel. The "Challenge for Excellence" scholarship program encourages students to earn "Scholarship Dollars" by obtaining A's and B's in grade-level or above classes. These "Scholarship Dollars" are applicable toward tuition for lower division courses. Beginning in September 1989, 7th and 8th graders attending TEA accredited schools within the college district became eligible, and by 1993 grades seven through 12 will be involved in earning "Scholarship Dollars."

For more information about the program, contact the Special Scholarship Office at 544-8255.

### *Patron of the Arts*

Patron of the Arts features live musical concerts, art and sculpture exhibitions, and literary events. Internationally renowned performers and artists as well as talented area performers and artists are featured. Faculty and students also perform. A year-long family membership is also available.

For more information, contact the Fine Arts Department at 544-8247.









# DEGREES



# DEGREE REQUIREMENTS

## STUDENT RESPONSIBILITY

Students are expected to inform themselves thoroughly about the regulations of the University and the course requirements for degrees and to inquire in case of doubt. It will not be the University's responsibility if complications arise because students fail to follow regulations and requirements. Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information related to their programs contained in the University catalog and Student Handbook.

Because procedural changes and changes in regulations and requirements may be made from time to time, students should work directly with their departmental advisor concerning course requirements and options, deficiencies, degree plans, and special regulations. Requests to waive regulations and/or requirements should be directed in writing to the Department Chairperson, the Dean of the School or College, or the Vice President of Academic Affairs who will notify the student of the decision on their request.

All students by registering enter a School or College of the University and, except in disciplinary matters, are responsible to the Dean of their School or College. Deans have jurisdiction over students' programs of study and degree requirements.

## CERTIFICATES AND ASSOCIATE DEGREES

The Board of Trustees of Texas Southmost College grants the following certificates and degrees.

- Certificate of Proficiency
- Occupational Training Certificate
- Associate in Arts Degree
- Associate in Arts Degree in Social Work
- Associate in Applied Science Degree
- Associate in Fine Arts Degree

Students must obtain a degree or certificate according to the requirements for graduation described in the catalog of the year in which they entered the university, or some later catalog. However, students must graduate within six years from the academic year of entrance or they must be placed under the provisions of a later catalog. A student may always choose to be graduated under a current catalog. Any changes in a degree plan to comply with a later catalog must be approved by the Vice President of Academic Affairs. An Official Degree Plan may be obtained at the Counseling Center in Tandy Hall.

Students will be required to pass all sections of the Texas Academic Skills Program (TASP) before receiving an associate degree. Exceptions to any requirement for graduation are al-

lowed only with the written permission of the Vice President of Academic Affairs. To graduate, students must:

1. Satisfy admission requirements.
2. Have a cumulative 2.0 GPA in courses at UTB and in transfer courses used to satisfy graduation requirements.
3. Complete at least 24 semester hours in residence at UTB, including 12 of the last 18.
4. For an Associate Degree, have at least 18 hours of Sophomore rank. Upon approval by the Vice President for Academic Affairs, students who earn 53 semester hours or more at UTB may complete up to nine hours of the graduation requirements at another accredited institution, transfer these hours back to UTB, and be graduated from this institution at the next regular graduation exercise. Students have one year from the date of last attendance at UTB to graduate under this policy.
5. Complete the requirements for one of the certificates or degrees listed in this catalog.

## Occupational Training Certificate

Occupational Training Certificates require completion of the prescribed curriculum for one of the Vocational Shop programs.

## Certificate of Proficiency

Certificates of Proficiency require completing the curriculum for one of the Occupational and Technical programs.

## Associate in Arts Degree

Associate in Arts Degree require completion of at least 62 semester hours of college credit, including the Core.

### THE CORE (49 semester hours)

#### Humanities (24 hours)

- A. 6 semester hours of freshman English (composition and rhetoric)
- B. 6 semester hours of sophomore literature
- C. 6 semester hours of the same modern language (other than English)
- D. 3 semester hours from two of these areas: art, music, and philosophy
- E. 3 semester hours of speech

#### Science and Mathematics (11 hours)

- A. 3 semester hours of college algebra or higher level mathematics
- B. 8 semester hours of the same laboratory science

#### Social Studies (12 hours)

- A. 6 semester hours of American history
- B. 6 semester hours of American and Texas political science

#### Kinesiology (2 hours)

- A. 2 semester hours of kinesiology activity courses

Students should contact the UTB Counseling Center and, if applicable, the appropriate university for complete transfer information.

## Associate in Applied Science Degree

Associate in Applied Science Degrees require completion of the prescribed curriculum for one of the Occupational and Technical degree programs.

## Associate in Fine Arts Degree

The Associate in Fine Arts Degree requires completion of at least 62 semester hours of college credit including a General Education Foundation comprised of elements of the Core.

### I. General Education Foundation

#### A. Humanities (12 hours)

1. 6 semester hours of freshman English (composition and rhetoric)
2. 3 semester hours of Spanish
3. 3 semester hours of speech

#### B. Science and Mathematics (3-4 hours)

1. 3 semester hours of college algebra or higher level mathematics or 4 hours of biology (including laboratory)

#### C. Social Science (12 hours)

1. 6 semester hours of American history
2. 6 semester hours of American and Texas political science

#### D. Kinesiology (2 hours)

1. 2 semester hours of kinesiology activity courses

### 2. Degree Elements

#### A. Computer Literacy (3 hours)

1. 3 semester hours

#### B. Fine Arts (30 hours)

1. 30 semester hours of approved art or music courses

*Students should contact the UTB Counseling Center and, if applicable, the appropriate university for complete transfer information.*

## Associate in Arts Degree in Social Work

The Associate in Arts Degree in Social Work requires completion of at least 63 semester hours of college credit including a General Education Foundation comprised of elements of the Core.

### 1. General Education Foundation

#### A. Humanities (21 hours)

1. 6 semester hours of freshman English (composition and rhetoric)
2. 6 semester hours of sophomore literature
3. 6 semester hours of Spanish
4. 3 semester hours of speech

#### B. Science and Mathematics (11 hours)

1. 3 semester hours of college algebra or higher level mathematics
2. 8 semester hours of biology (including laboratory)

#### C. Social Science (12 hours)

1. 6 semester hours of American history
2. 6 semester hours of American and Texas political science

#### D. Kinesiology (2 hours)

1. 2 semester hours of kinesiology activity courses

### 2. Degree Elements

#### A. Computer Literacy (3 hours)

1. 3 semester hours

#### B. Kinesiology (2 hours)

1. 2 semester hours of kinesiology activity courses

#### C. Behavioral Science (12 hours)

1. 3 semester hours of psychology (PSYC 2301)
2. 3 semester hours of sociology (SOCI 1301)
3. 6 semester hours of social work (SOCW 2361, 2362)

## BACHELOR'S DEGREE REQUIREMENTS

### Core and Degree Base

All course requirements for a bachelor's degree in any of the disciplines are established within the College, School, or Department in which the discipline falls. These requirements are listed elsewhere in this catalog by the various Departments of the University. For detailed information, students should contact the Department in which they are majoring.

Required semester hours for which specific courses are not prescribed are listed as elective hours. While degree requirements in the various disciplines differ considerably, several general requirements for a bachelor's degree are common to all degree programs. These are:

#### I. The Core (49 semester hours)

##### A. Humanities (24 hours)

1. 6 semester hours of freshman English (composition and rhetoric)
2. 6 semester hours of sophomore literature
3. 6 semester hours of the same foreign language
4. 3 semester hours from two of these areas: the art, music, and philosophy
5. 3 semester hours of speech

##### B. Science and Mathematics (11 hours)

1. 3 semester hours of college algebra or higher level mathematics
2. 8 semester hours of the same laboratory science

##### C. Social Science (12 hours)

1. 6 semester hours of American history
2. 6 semester hours of American and Texas government

##### D. Kinesiology (2 hours)

- A. 2 semester hours of kinesiology activity courses

### II. \*Degree Base (11 semester hours)

#### A. Computer Literacy (3 hours)

- A. 3 semester hours

#### B. Social Science (6 hours)

- 6 semester hours from any two of these areas
1. Anthropology
  2. Economics
  3. Psychology
  4. Sociology

#### C. Kinesiology (2 hours)

- A. 2 semester hours of kinesiology activity courses (total 4 KINE hours)

*\*For additional requirements for business degrees and teacher certification, refer to the respective school or college.*

## Additional Bachelor's Degrees

Students holding a bachelor's degree may receive an additional bachelor's degree of a different type and major from UTB. Such students continue to be classified as undergraduates and must:

1. Complete a minimum of 30 semester hours of credit at UTB (of which at least 12 must be for advanced courses, with at least six of the advanced hours in the major field) for each Bachelor's degree sought beyond the first.
  2. Complete all requirements for the additional major(s) as set forth in this catalog.
  3. Complete all requirements for the additional degree(s), including grade point average requirements, elective courses, and advanced courses as set forth in this catalog.
- a. of 30 semester hours and a maximum of 36 hours, with at least 15 hours of advanced-level work.
  - b. A minor field requires at least 18 semester hours with a minimum of six semester hours of advanced-level work.
  - c. A broadly integrated area (such as business administration and criminal justice) may be substituted for the major and minor requirement. The broadly integrated area requires a minimum of 48 semester hours with at least 21 hours of advanced-level work. A department may specify a maximum of 60 hours in the broadly integrated area.
  - d. Courses may not be used to satisfy a requirement for both a major and a minor or for two majors or for two minors.
5. For those seeking secondary teacher certification, a minimum of 24 semester hours is required in each of two teaching fields. Only one teaching field is required in the broadly integrated areas. (See departmental requirements in this catalog.)

### Kinesiology Requirements

Two semester hours of kinesiology activity courses are required for an Associate's degree. Four semester hours of kinesiology activity courses are required for a Bachelor's degree. KINE 1238, Concepts of Fitness for Life, may count as two credit hours for all four-year degrees. However, the remaining two credit hours required must be obtained from enrollment in two activity courses.

Waivers from activity courses will be granted only for students who can demonstrate medical or psychological conditions which prevent their participation. A university council will review each request for a waiver. Students who have been granted waivers will be required to complete only two credit hours of kinesiology for a Bachelor's degree: KINE 1238, which is not an activity class.

For students who have been granted waivers from activity classes, KINE 1238 will be accepted as the two-hour requirement for an Associate's degree. Requests for waivers should be made in the Enrollment Office.

## Graduation Requirements

Specific requirements for each major field are listed in the catalog sections dealing with these majors.

It is the responsibility of students to be familiar with all the requirements for the degree.

1. A minimum of 124 semester hours including a minimum of 36 advanced hours is required, with an overall minimum grade point average of 2.00.
2. A minimum grade point average of 2.00 in the combined **Core and Degree Base**, the major and minor fields, or the broad field major, is required. Graduates who seek certification as elementary or secondary teachers must have a minimum grade point average of 2.25.
3. Students may meet the requirements for graduation in the catalog of the year in which they or she enters the university, or some later catalog. However, students must graduate within six years from the academic year of entrance or they must be placed under the provisions of a later catalog. Any changes in a degree plan to comply with a later catalog must be approved by the Vice President of Academic Affairs.
4.
  - a. A major field of concentration requires a minimum

6. The major-minor or broad-field major course distribution must follow the requirements set forth by the various departments, subject to any limitations and requirements noted under the Bachelor's Degree Requirements and these Graduation Requirements or in published form issued by the various departments.
7. Students must complete at least 24 semester hours of work in residence during the senior year. If students have not established credit in courses at UTB before their senior year, then 30 semester hours must be completed in residence. A least six semester hours of advanced work in the major must be completed in residence.
8. After students declare a major, a degree plan approved by the student's advisor and by the Dean of the School or College must be on file with the Dean of the School or College before the deadline for applying for a degree. Any deviations from a degree plan must be approved by the Dean of the School or College.
9. An application for a degree must be filed by the student with the Director of Enrollment on or before the date specified in the University calendar.
10. A maximum of 45 semester hours of college credit will be accepted towards a Bachelor's degree by any combination of extension, examination and correspondence credit with an 18-hour limit on correspondence credit. No credit will be awarded for "life experience" in the case of the Bachelor of Applied Arts and Sciences degree.



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# BACHELOR OF APPLIED ARTS AND SCIENCES

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The Bachelor of Applied Arts and Sciences (B.A.A.S.) program allows students to earn a degree with a major in a technical or occupational area. The major can be satisfied by credits earned from credit by examination or by transfer work from other accredited institutions of higher learning. The B.A.A.S. degree is awarded after a student completes a professional development sequence from the general areas of education, business administration and liberal arts.

The B.A.A.S. degree program includes the general education requirements from the Core and Degree BASE courses listed under "Bachelor's Degree Requirements" and a professional education requirement to increase students' technical or vocational competence.

Admission to the B.A.A.S. program may be gained by satisfying the general admissions requirements for a Bachelor's degree program or by having:

- An Associate of Arts or Associate of Applied Science degree from an accredited two-year college, university, or technical; or
- A minimum of 60 semester credit hours of college work in a combination of general academic subjects and occupational or vocational fields.

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## TEACHER CERTIFICATION

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To be approved for the provisional or professional teacher's certificate, the superintendent's certificate, or other administrative certificates, persons must comply with the "State Board of Education Rules for Teacher Education". Current copies of those rules may be obtained from the Texas Education Agency or the UTB School of Education.

### *Professional Teacher Certificates*

Students may work toward professional certification while they work toward a graduate degree.

Candidates for the Master of Education degree should complete the academic requirements for the professional certificate as a classroom teacher, counselor, reading specialist, supervisor, or administrator. Candidates for the Master of Arts and Master of Science in Interdisciplinary Studies degree should complete the academic requirements of the professional certificate in the major field selected for the degree.

Candidates who already have a Master's degree may qualify for and should seek professional certification to advance their careers.

Applicants for a professional certificate must have a provisional certificate and three years of satisfactory teaching experience (the administrator's certificate requires only two years of satisfactory teaching experience), and must have completed all of the requirements for the appropriate Master's degree. Because requirements for the provisional certificate

generally parallel requirements for a Bachelor's degree, no more than 6 semester hours of work used to obtain a Master's degree may apply toward earning a provisional certificate, and these 6 hours cannot also be applied toward the professional certificate.

Application for a professional certificate should be made to the Vice-President of Academic Affairs during the semester in which the certification requirements will be completed. Students will not qualify for a professional certificate unless they already have a Master's degree.

For education programs leading to Teaching Certifications please refer to the School of Education section of this catalog.

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## MASTER'S DEGREE REQUIREMENTS

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### *Planning the Graduate Program*

In general graduate students are expected to enroll each semester until they have completed their degree program.

Graduate students should consult their program's graduate advisor before each registration. Students are required to fulfill the special requirements of their particular degree program in addition to the general requirements stipulated for graduate studies. Additional requirements are listed with the appropriate degree programs in this catalog.

### *Transfer of Graduate Credit*

Graduate credit is not granted for correspondence courses, extension courses and advanced standing examinations. The "Time Limitation" section specifies additional restrictions. At least two-thirds of the semester credit hours required for a degree must be completed in course work taken at UTB. Students may petition, however, to have graduate credit granted for course work completed as a post-baccalaureate student at another institution under the following conditions:

1. The course must be of 5000 level or higher.
2. A maximum of 12 semester hours credit may be petitioned for acceptance.
3. Courses must be applicable to the student's graduate degree program and must have been completed with a grade of A or B. No graduate courses completed with a P, S, Cr, or any other grade will be accepted for transfer.
4. Post-baccalaureate course work applied toward meeting graduate degree requirements must have been earned within seven years of the date of receiving the graduate degree.
5. Courses are neither correspondence nor extension courses.
6. Courses are part of graduate programs and would receive graduate credit at UTB.

Transfer of graduate credit hours is not automatic. The student must submit a written request for approval of transfer to the major department advisor who determines whether all of the conditions for transfer have been met before adding the hours to the graduate degree program. The transfer is completed when it is approved by the Department Chairperson and the Vice President of Academic Affairs (provided that the student graduates within the seven-year time limit).



# GENERAL GRADUATE SCHOOL REGULATIONS

## Student Responsibility

Graduate students are expected to inform themselves thoroughly about the regulations of the Graduate School and the course requirements for degrees and to inquire in case of doubt. It will not be the Graduate School's responsibility if complications arise because students fail to follow regulations and requirements. Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information relating to the graduate program contained in the University catalog. Procedural changes and changes in regulations and requirements may be made from time to time.

Students should work directly with the person in their major department who is assigned the responsibility of supervising graduate program course requirements and options, deficiencies, degree plans, and special regulations.

Requests to waive regulations and/or requirements should be directed in writing to the Dean of Academic Affairs, who will notify students of the decision on the request.

## Maximum Course Load

The normal load for a full time graduate student is nine semester hours. A student may be permitted to enroll for 15 semester hours with the approval of the graduate advisor and the Vice President of Academic Affairs.

## REQUIREMENTS FOR ALL MASTER'S DEGREES

1. A thesis is optional and requires 6 semester hours of thesis courses. Thesis options vary among departments and require between 30 to 39 semester hours comprised of 24 to 33 graduate hours plus 6 hours for the thesis. Non-thesis options vary among departments and require between 30 to 39 semester hours.
2. During or at the end of their final semester of work, students who have not written a thesis will be given a comprehensive written examination; students who have written a thesis will be given a comprehensive oral exam.
3. All degree programs will allow students the option of including a minimum of 6 semester hours of work which is not a part of his major field.
4. A maximum of 18 hours in 5000 level courses may be taken for graduate credit toward a master's degree.

Special requirements are applicable to the M.B.A., to the M.Ed. and to the MA/MS Interdisciplinary Studies degree. Details are listed under the section for the programs of the respective schools and colleges.

## Procedures and Regulations for Completion of the Degree

**Time Limitation:** All requirements for a master's degree must be completed within a seven-year period. Work over seven-years old is lost and can be reinstated only by special permission of the Academic Council upon recommendation of a student's graduate advisor.

**Graduation under a particular catalog:** General and specific requirements for degrees in Graduate School may be altered in successive catalogs, but students are bound only by the requirements of the catalog in force at the time of their admission, within a seven-year limit. Students may choose to fulfill the requirements of a subsequent catalog.

**Continuing Graduate Study beyond Master's (Post-Graduate Studies) level:** Students who complete a Master's degree program at this institution will have their degree status changed to that of non-degree seeking graduate student.

## Comprehensive Examination

(Supplement to General UTB Comprehensive Examination Policies)

1. Students in consultation with their advisors will choose an examination committee of at least three (the chairman and two other members) of the professors under whom they have taken courses. Students will consult with members of the committee for assistance in preparing for the examination.
2. The student being examined, in consultation with the advisor, (who is chairman of the examination committee) will choose to prepare four study areas for evaluation, each area to be no smaller than the scope of a single course. Two questions must be in the student's area of concentration. At least one question must be in a support area in the College of Liberal Arts or the College of Sciences and Mathematics.
3. For each area in which they are examined, students will be given a choice of a general or specific question.
4. Professors grading the examination will consider (1) orientation in the area being examined, (2) specific knowledge as demonstrated by concrete examples, (3) organization, and (4) style (to include spelling, grammar, and punctuation) in assigning a grade of pass or fail to each answer.
5. Students must pass both questions in the area of concentration and at least one of the questions in the support areas in order to pass the comprehensive exam.
6. Students who fail the examination need only re-take and pass areas failed in order to meet conditions specified in #5 above.
7. Students may re-take all or part of the comprehensive examination only twice. (Colleges or Schools may have additional restrictions.)
8. In cooperative graduate programs, policies, restrictions or regulations of the "guest" institution, i.e. University of Houston, Sam Houston State University, or The University of Texas Health Science Center at San Antonio will apply.

*Degree  
Requirements*



## Special Institutional Requirements

1. At least 12 but no more than 18 hours of graduate work must be taken in one of four areas of concentration. At least 12 of these hours must be taken at UTB.
2. At least six hours of coursework in the area of concentration must be Upper Division graduate work (6000 level).
3. At least 18 hours must be taken outside the field of concentration. These courses must be taken from at least two additional disciplines.
4. No more than 12 hours of coursework may be taken from the School of Business and the College of Education.
5. Students seeking this degree must successfully complete 36 hours of graduate work and meet all other University and program requirements.
6. Admission to this program presumes that students have met general admission requirements to the UTB graduate school.

For additional information, please refer to section Degree Requirements.

## Concentrations

**\*Biology (MSIS):** Refer to the Department of Biological Sciences, College of Science & Mathematics

**\*English (MAIS):** Refer to the Department of English and Speech, College of Liberal Arts

**\*History (MAIS):** Refer to the Department of Social Sciences, College of Liberal Arts

**\*Spanish (MAIS):** Refer to the Department of Modern Languages, College of Liberal Arts

**Support Areas of the College of Liberal Arts:** Political Science (GOVT), Sociology (SOCL), Psychology (PSYC)

**Support Areas of the College of Sciences and Mathematics:** To be determined

**Support Areas of the School of Business and Industry:** Accounting (ACCT), Finance (FINA), General Business (GENB), Management (MANA), Marketing (MARK)

**Support Areas of the School of Education:** Educational Administration (EDAD), Curriculum & Instruction (EDCI), Early Childhood (EDEC), Generic Special Education (EDGS), Supervision (EDSU), Counseling & Guidance (EPSY), Kinesiology (KINE).

### Notes:

1. Discipline combinations are selected by the student with the advice of a counselor or academic advisor (refer to listing of disciplines and/or delivery systems). Hours of the General Education Requirements may be used toward the different disciplines. A minimum of 12 upper-division hours is required in each of the three disciplines.
2. The combination of subjects is determined by the type of option required for the teacher certification.
3. The professional element is determined by the type of teacher certification (i.e. elementary, early childhood, generic special education, etc.). Refer to the section describing the School of Education.

## Thesis

Candidates for the Master's Degree write their thesis (if they select the thesis program) under the direction of a supervising instructor who is chairperson of the supervisory committee appointed by the Vice President of Academic Affairs. The thesis subject requires the approval of both the supervisory committee and the Dean. Researching and writing the thesis carries with it six semester hours of credit. The original thesis and three copies must be submitted to the Office of the Vice President of Academic Affairs.

Once students register for the thesis course, 7300, they must continue to register for 7300 or 7301 each succeeding semester or summer session until the thesis is completed. Credit is counted only one time. Registration for 7300 or 7301 is not counted in determining load limits for a semester or summer session.

The original thesis and three copies signed by the student's committee must be submitted to the Office of the Vice President of Academic Affairs 30 days prior to graduation. (See calendar for exact date.) A department may require additional copies of the thesis (at additional binding expense to the student).

Individual department deadlines for submission of thesis to the supervisory committee will be established to complement the thesis time schedule of the Office of the Vice President of Academic Affairs.

Before qualifying for graduation, students must pay a fee for microfilming and binding the thesis and publishing an abstract of the thesis in Master's Abstracts. Students wishing to copyright a thesis will pay a fee for the service, which is provided by University Microfilms Incorporated. A receipt for these fees must be presented to the Vice President of Academic Affairs before the thesis will be processed.

Two copies of a non-illustrated abstract which does not exceed 150 words in length must accompany the signed thesis. This abstract is the material to be printed in Masters Abstracts.

Students wishing to have additional copies of a thesis bound for personal use may do so at an additional cost.

### Suggested Form for Thesis

As a general rule, the format and style of presentation should conform to the most acceptable standards of scientific and scholarly writing in the discipline. For any instances in which this general rule is an inadequate guide, reference should be made to the most recent edition of *A Manual of Style* (The University of Chicago Press) or to Kate L. Turabian, *A Manual for Writers* (The University of Chicago Press) or equivalents.

Before preparing the thesis, students should obtain a copy of the guide for preparing and submitting of thesis from their advisor.

### Binding and Distributing a Thesis

Refer to Thesis Binding Fee in the section "Fees and Deposits."

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# COOPERATIVE DEGREE PROGRAMS

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## *Doctorate of Education*

UTB, in cooperation with the University of Houston, offers work which may be used in partial fulfillment of the requirements of the Doctorate of Education (Ed.D.) degree.

Specific information on the program may be obtained from the Director of Institutional Research and Planning. An applicant must meet the requirements for admissions to the Graduate School of the University of Houston and meet requirements for admissions into Education Department program.

## *Master of Science in Library Science*

UTB, in cooperation with Sam Houston State University, offers work which may be used in partial fulfillment of the requirements of the Master of Science in Library Science (M.S.L.S.) degree.

Specific information on the program may be obtained from the Director of Institutional Research and Planning. An applicant must meet the requirements for admissions to the Graduate School of Sam Houston State University and meet requirements for admissions into the Library Science Department program.

## *Bachelor of Science in Nursing Master of Science in Nursing*

UTB, in cooperation with The University of Texas Health Science Center at San Antonio, offers work which may be used in partial fulfillment of the requirements of the Bachelor of Science in Nursing (B.S.N.) and Master of Science in Nursing (M.S.N.) degrees.

Specific information on the program may be obtained from the Director of Institutional Research and Planning. An applicant must meet the requirements for admissions to The University of Texas Health Science Center at San Antonio and meet requirements for admissions into The University of Texas at Brownsville Nursing Program.





# PROGRAMS



# OVERVIEW OF PROGRAMS

## COLLEGE OF LIBERAL ARTS

### Behavioral Sciences Department

#### Human Services

Associate in Applied Science Degree - Human Services  
Certificate of Proficiency (Paraprofessional) - Substance Abuse Counseling

#### Psychology

Bachelor of Science - Psychology Minor

#### Social Work

Associate of Arts Degree - Social Work

#### Sociology

Bachelor of Science - Sociology Minor

### Criminal Justice Department

Certificate of Proficiency - Texas Peace Officer  
Associate in Applied Science - Generalist  
Associate in Applied Science - Correctional Administration  
Associate in Applied Science - Police Administration Major  
Bachelor of Science - Criminal Justice  
Bachelor of Science - Concentration in Corrections  
Bachelor of Science - Criminal Justice Minor

### English Department

Bachelor of Arts - English Major  
Bachelor of Arts - English Minor  
Master of Arts in Interdisciplinary Studies - English

### Fine Arts Department

Associate in Fine Arts Degree  
Bachelor of Arts - Art Minor  
Bachelor of Arts - Music Minor (Applied Music)

### Modern Languages Department

Bachelor of Arts - Spanish  
Bachelor of Arts - Spanish Minor  
Translator Program  
Master of Arts in Interdisciplinary Studies - Spanish  
Master of Arts in Interdisciplinary Studies - Spanish Concentration

### Social Sciences Department

Bachelor of Arts - Government Major  
Bachelor of Arts - Government Minor  
Bachelor of Arts - History Major  
Bachelor of Arts - History Minor  
M.A.I.S. - Interdisciplinary Studies  
M.A.I.S. - History Concentration  
Bachelor of Applied Arts and Sciences

## COLLEGE OF SCIENCE AND MATHEMATICS

### Biological Sciences Department

Bachelor of Science - Biology Major  
Bachelor of Science - Biology Minor

### Computer Information System Department

Certificate of Proficiency - Mainframe Computer Programmer  
Certificate of Proficiency - Microcomputer Computer Specialist  
Associate in Applied Science Degree - Computer Information Systems  
Bachelor of Science - Computer Science Minor  
Bachelor of Science - Computer Information Systems Minor

### Mathematics Department

Bachelor of Science - Mathematics Major  
Bachelor of Science - Mathematics Minor

### Physical Sciences Department

Bachelor of Science - Chemistry Minor

# OVERVIEW OF PROGRAMS

## SCHOOL OF BUSINESS AND INDUSTRY

### Business Administration Department

#### Accounting

Certificate of Proficiency - Accounting Technology  
Associate in Applied Science - Accounting Technology  
Bachelor of Business Administration - Accounting

#### Business Administration

Associate in Arts - Business Administration  
Minor - Business Administration  
Bachelor of Business Administration - General Business  
Master of Business Administration

#### Economics

Economics minor

#### Finance

Bachelor of Business Administration - Finance

#### International Business

Associate in Applied Science - Management Development-  
International Trade & Transportation Management

#### Management

Certificate of Proficiency - General Business  
Associate in Applied Science - General Business  
Associate in Applied Science - Hospitality Management  
Bachelor of Business Administration - Management

#### Marketing

Certificate of Proficiency - Management  
Associate in Applied Science - Retail Management  
Bachelor of Business Administration - Marketing

### Industrial Education Department

#### Associate of Applied Science/Certificate of Proficiency

Drafting  
Electronics

#### Occupational Training Certificate

Air Conditioning and Refrigeration  
Auto Body Repair  
Automotive Mechanics  
Building Trades  
Diesel Mechanics  
Machine Shop  
Welding

### Office Occupations Department

#### Legal Assisting courses

#### Secretarial Science

Certificate of Proficiency - Clerical Specialist  
Certificate of Proficiency - Office Specialist  
Certificate of Proficiency - Legal Office Specialist  
Certificate of Proficiency - Word Processing Specialist  
Associate of Applied Science - Office Specialist  
Associate of Applied Science - Legal Secretarial  
Associate of Applied Science - Word Processing Specialist

## SCHOOL OF EDUCATION

### Education Department

#### Education Department

Certificate of Proficiency - Child Care and Development  
Associate in Applied Science - Child Care and Development  
Bachelor of Arts - Liberal Arts and Sciences  
Master of Education

## SCHOOL OF HEALTH SCIENCES

### Allied Health Department

#### Medical Laboratory Technology

Phlebotomy Certificate  
Associate in Applied Science Degree - Medical Laboratory  
Technology

#### Radiologic Technology

Associate in Applied Science - Radiologic Technology

#### Respiratory Therapy

Certificate of Proficiency - Respiratory Therapy Technology  
Associate in applied Science Degree - Respiratory Therapy

### Nursing Department

Certification of Proficiency - Vocational Nursing  
Associate in Applied Science - Associate Degree Nursing  
Bachelor of Science - Nursing  
Master of Science - Nursing



## BEHAVIORAL SCIENCES DEPARTMENT

The Behavioral Science Department offers a Bachelor of Arts degree in sociology, and a minor in both sociology and psychology, an Associate of Arts degree in social work and an Associate of Applied Science Degree in human services. Other course offerings are in anthropology.

## HUMAN SERVICES

*Associate in Applied Science Degree in Human Services  
Certificate of Proficiency (Paraprofessional) in Substance Abuse Counseling*

The Human Services curriculum is designed for students employed in a human services agency and students interested in an entry level position in a human services agency. The program offers a Certificate of Proficiency and/or an Associate in Applied Science Degree to practitioners or students with an interest in counseling substance abusers.

### Program Areas

The Human Services degree program offers students the opportunity to obtain the knowledge to:

- describe and discuss the basic purposes and philosophies governing human services.
- recognize and identify the various physiological, legal and social problems related to human services and substance abuse.
- explain the various facets of grants.
- demonstrate interviewing and individual and group communication skills.
- recognize and describe the various treatment modalities.
- identify and discuss contemporary human service issues;
- identify, describe and discuss the various stages/phases of an investigation/case preparation.

## Certificate of Proficiency (Paraprofessional) in Substance Abuse Counseling

### Freshman Year

First Semester	Credit Hours
THUM 1303 Introduction to Substance Abuse	3
THUM 2403 Counseling Methods	4
ENGL 2322 Composition I*	3
SOCI 1301 Introduction to Sociology*	3
MATH 1313 College Mathematics*	3
<b>Total</b>	<b>16</b>
Second Semester	Credit Hours
THUM 2305 Treatment Modalities	3
THUM 2609 Specialized Co-op	6
ENGL 2323 Composition II*	3
PSYC 2301 Introduction to Psychology*	3
SPCH 1315 Introduction to Speech*	3
<b>Total</b>	<b>18</b>

### Credit Hour Summary

Human Services	16 Credit Hours
*General Education	18 Credit Hours
<b>Total</b>	<b>34 Credit Hours</b>

## A.A.S. – Human Services

### Freshman Year

First Semester	Credit Hours
THUM 1301 Fundamentals of Human Services	3
THUM 1303 Introduction to Substance Abuse	3
THUM 1305 Processes in Human Services	3
THUM 2301 Introduction to Psychology	3
ENGL 2322 Composition I*	3
<b>Total</b>	<b>15</b>

Second Semester	Credit Hours
THUM 1307 The Addictive Personality	3
THUM 2301 Interviewing Principles & Methods	3
SOCI 0213 Introduction to Sociology*	3
ENGL 2323 Composition II*	3
MATH 1313 College Mathematics*	3
<b>Total</b>	<b>15</b>

### Sophomore Year

First Semester	Credit Hours
THUM 2403 Counseling Methods	4
SOCW 2361 Introduction to Social Work	3
THUM 2307 Current Issues in Human Services	3
CRIJ 1301 Introduction to Criminal Justice	3
Elective**	3
<b>Total</b>	<b>16</b>

Second Semester	Credit Hours
THUM 2609 Specialized Co-op	6
SOCW 2363 Social Welfare Institution	3
SPCH 1315 Introduction to Speech*	3
THUM 2305 Treatment Modalities	3
Elective**	3
<b>Total</b>	<b>18</b>

### Credit Hour Summary

Human Services	43 Credit Hours
*General Education	15 Credit Hours
**Electives	6 Credit Hours
<b>Total</b>	<b>64 Credit Hours</b>

*Students who successfully complete this sequence of sources will receive a Certificate of Proficiency (35 hours) in Substance Abuse Counseling.  
\*\*Electives may be any non-developmental college courses.*

Programs

## PSYCHOLOGY

*Bachelor of Science – Psychology Minor*

## B.S. – Psychology Minor

A minor in psychology requires 18 semester hours in psychology, of which 6 must be advanced. These 18 hours also must include Introduction to Psychology.

For information regarding teacher certification in psychology, refer to the Education Department section of this catalog.

## SOCIAL WORK

*Associate of Arts Degree in Social Work*

### A.A. – Social Work

The Associate of Arts degree in social work requires 30 semester hours in sociology, of which 18 hours must be advanced. The 30 hours must include PSYC 2317, SOCI 1301, 2301, 4333, and 4352.

## SOCIOLOGY

*Bachelor of Science – Sociology Minor*

### B.A. – Sociology Minor

A minor in sociology requires 18 semester hours in sociology, of which 9 must be advanced. These 18 hours also must include SOCI 1301 and SOCI 4333 or 4352.

For information regarding teacher certification in sociology, refer to the Education Department section of this catalog.

## CRIMINAL JUSTICE DEPARTMENT

*Texas Peace Officer Certificate of Proficiency; Associate in Applied Science Degree (Generalist, Correctional Administration, and Police Administration); Bachelor of Science in Criminal Justice*

A major in criminal justice offers students the opportunity to prepare to enter careers in law enforcement, criminal justice planning and research, probation, parole, institutional corrections, youth services, and police management at all levels of government. The degree program also offers an excellent background for individuals interested in private and/or industrial security. The well-rounded academic experience offered by the Criminal Justice Program additionally serves as a strong foundation for students interested in graduate study in criminal justice.

### Curriculum

The criminal justice curriculum is designed for students currently employed in a criminal justice related occupation; for students planning to pursue a Bachelor's degree in criminal justice or a related discipline; for students interested in testing for the Texas Basic Peace Officer's License which is needed to become a police officer in Texas; or for students wishing to be employed in other areas of criminal justice. Students may choose among programs offered through criminal justice degree and certificate plans.

### Program Areas

The criminal justice academic program offers graduates the opportunity to obtain the knowledge to:

- understand the American system of criminal justice in relation to the political, socio-economic, religious, and philosophical influences which effect it;
- cooperate with the various agencies which make up the American criminal justice system;
- understand the basic concept behind laws, the action of law enforcement agencies, court proceedings, and correctional ideologies and practices;
- know and communicate the rights of individuals under criminal proceedings as enumerated in the U.S. Constitution and the U.S. Bill of Rights;
- differentiate between the components of the criminal justice system and the purposes and objectives of the components and their places in our society;
- apply the above concepts in practical settings and situations;
- transfer to an upper division academic institution to attain a higher degree in criminal justice or closely related discipline;
- meet or exceed minimal education requirements for employment in a variety of criminal justice agencies.

### Texas Peace Officer Certification

State-approved peace officer training programs are designed for qualified persons interested in obtaining a peace officer license or a reserve peace officer license. Training is offered as a 400-hour academy conducted during the day over a period of 10 weeks or in three increments as evening courses.

Prospective students must meet the state requirements to become a Texas peace officer and any other admission requirements determined by the Police Academy advisory board. The academy also offers a full complement of continuing education courses for law enforcement officers, with the intention of aiding the profession in keeping current with the latest trends in the field.

For more information, contact the Police Academy Office at 544-8978.

### Certificate of Proficiency Plan Texas Peace Officer

		Freshman Year	Credit Hours
First Semester			
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1307	Crime in America	3
CRIJ	2328	Police Systems and Practices	3
CRIJ	1310	Fundamentals of Criminal Law	3
ENGL	1301	Composition I *	3
<b>Total</b>			<b>15</b>

Second Semester			Credit Hours
CRIJ	1306	Courts and Criminal Procedure	3
CRIJ	2323	Legal Aspects	3
CRIJ	2314	Criminal Investigations	3
ENGL	1302	Composition II*	3
MATH	1313	College Mathematics*	3
<b>Total</b>			<b>15</b>

Summer Session**			Credit Hours
CRIJ	2333	Texas Peace Officer Laws	3
CRIJ	2334	Texas Peace Officer Procedures	3
CRIJ	2335	Texas Peace Officer Skills	3
<b>Total</b>			<b>9</b>

Credit Hour Summary	
Criminal Justice	30 Credit Hours
*General Education	9 Credit Hours
<b>Total</b>	<b>39 Credit Hours</b>

\* These three courses may be offered as one block or mini-academy.  
Prerequisite: completion of all other CRIJ courses with a grade of "C" or better.

## A.A.S. – Generalist

### Freshman Year

First Semester			Credit Hours
CRIJ	1301	Introduction to Criminal Justice **	3
CRIJ	1306	Courts & Criminal Procedure**	3
ENGL	1301	Composition I*	3
COSC	1301	Computers & Modern Society* +	3
SPCH	1315	Introduction to Speech*	3
KINE	1100	Any KINE Activity*	1
<b>Total</b>			<b>16</b>

Second Semester			Credit Hours
CRIJ	1307	Crime in America**	3
		Elective***	3
CRIJ	1310	Fundamentals of Criminal Law**	3
ENGL	1302	Composition II *	3
GOVT	2301	American Government I*	3
KINE	1100	Any KINE Activity *	1
<b>Total</b>			<b>16</b>

### Sophomore Year

First Semester			Credit Hours
CRIJ	2313	Correctional Systems & Practices****	3
CRIJ	2322	Juvenile Delinquency/Family Code****	3
CRIJ	2328	Police Systems & Practices****	3
HIST	1302	U.S. to 1877*	3
		Elective***	3
SOCI	1301	Introduction to Sociology*	3
<b>Total</b>			<b>18</b>

Second Semester			Credit Hours
CRIJ	2301	Community Resources in Corrections****	3
CRIJ	2323	Legal Aspects****	3
CRIJ	2326	Police-Community Relations****	3
MATH	1313	College Mathematics*	3
GOVT	2302	American Government II*	3
HIST	1302	U.S. from 1877*	3
<b>Total</b>			<b>18</b>

### Credit Hour Summary

Criminal Justice	30 Credit Hours
*General Education	32 Credit Hours
Electives***	6 Credit Hours
<b>Total</b>	<b>68 Credit Hours</b>

\*\* Requires concurrent enrollment in developmental reading and/or writing when required as a result of entrance examination or TASP.

\*\*\* Electives may be any non-developmental level college courses not

already taken for credit.

\*\*\*\*Must have completed COMP I & COMP II and all 1000 level CRIJ courses with a grade of "C" or better before enrolling in course.

+Can substitute any other higher COSC course if proficiency allows.

## A.A.S. – Correctional Administration

### Freshman Year

First Semester			Credit Hours
CRIJ	1301	Introduction to Criminal Justice**	3
ENGL	1301	Composition I *	3
SOCI	1301	Introduction to Sociology*	3
MATH	1314	College Algebra*	3
SPCH	1315	Introduction to Speech*	3
KINE	1100	Any KINE Activity*	1
<b>Total</b>			<b>16</b>

Second Semester			Credit Hours
PSYC	2301	Introduction to Psychology*	3
ENGL	1302	Composition II*	3
COSC	1301	Computers & Modern Society* /+	3
CRIJ		Elective***	3
KINE	1100	Any KINE Activity*	1
<b>Total</b>			<b>16</b>

### Sophomore Year

First Semester			Credit Hours
CRIJ	2313	Correctional Systems & Practices****	3
CRIJ	2322	Juvenile Delinquency & Family Code****	3
GOVT	2301	American Government I*	3
HIST	1301	U.S. to 1877*	3
ENGL	2322	or 2323 British Literature*	3
CRIJ		Elective***	3
<b>Total</b>			<b>18</b>

Second Semester			Credit Hours
ENGL	2326	or 2327 American Literature**	3
GOVT	2302	American Government II*	3
HIST	1302	United States from 1877*	3
ARTS	1301	Art Appreciation*	3
or			
MUSI	1306	Music Appreciation*	
		Elective***	3
<b>Total</b>			<b>15</b>

### Credit Hour Summary

Criminal Justice	15 Credit Hours
*General Education	44 Credit Hours
Electives***	6 Credit Hours
<b>Total</b>	<b>65 Credit Hours</b>

\*\*Requires concurrent enrollment in Developmental Reading and Writing when required as a result of entrance examination or TASP.

\*\*\*Electives may be any non-developmental college courses not previously taken, preferably in the Social Science, Computer Science or Biological Science area.

\*\*\*\*Must have completed COMP I & II and all 1000 level CRIJ courses with a grade of "C" or better.

+Can substitute any higher COSC courses if proficiency allows.

## NPS Seasonal Ranger Program

The Seasonal Law Enforcement Training Program meets the minimum training requirements of the U.S. Department of Interior National Park Service for seasonal rangers. The 300-hour program is conducted in much the same manner as the Police Academy.

For more information, contact the Police Academy Office at 544-8978.

## A.A.S. – Police Administration

Freshman Year			Credit Hours
<b>First Semester</b>			
CRIJ	1301	Introduction to Criminal Justice	3
		Elective***	3
ENGL	1301	Composition I*	3
SOCI	1301	Introduction to Sociology*	3
SPCH	1315	Introduction to Speech*	3
KINE	1000	Any KINE Activity*	1
<b>Total</b>			<b>16</b>
<b>Second Semester</b>			
CRIJ	1310	Fundamentals of Criminal Law**	3
ENGL	1302	Composition II*	3
ARTS	1301	Art Appreciation*	3
MUSI	1306	Music Appreciation*	3
HIST	1301	American History to 1877*	3
COSC	1301	Computers & Modern Society*/+	3
KINE	1100	Any KINE Activity*	1
<b>Total</b>			<b>16</b>

Sophomore Year			Credit Hours
<b>First Semester</b>			
CRIJ	2323	Legal Aspects of Law Enforcement****	3
ENGL	2322	or 2323 British Literature*	3
GOVT	2301	American Government I *	3
		Elective***	3
PSYC	2301	Introduction to Psychology*	3
MATH	1314	College Algebra*	3
<b>Total</b>			<b>18</b>
<b>Second Semester</b>			
CRIJ	2322	Juvenile Delinquency & Family Code	3
CRIJ	2328	Police Systems & Practices	3
ENGL	2326	or 2327 American Literature*	3
GOVT	2302	American Government II*	3
HIST	1302	U.S. from 1877*	3
<b>Total</b>			<b>15</b>

### Credit Hour Summary

Criminal Justice	15 Credit Hours
*General Education	44 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>65 Credit Hours</b>

\*\*Requires concurrent enrollment in Developmental Reading and Writing when required as a result of entrance examination or TASP.

\*\*\*Electives may be any non-developmental college courses not previously taken, preferably in the Social Studies, Computer Science or Biological Science area.

\*\*\*\*Must have completed ENGL 1301, 1302 and all 1000 level CRIJ courses with a grade of "C" or better.

+Can substitute any higher COSC course if proficiency allows.

## B.S. – Police Administration Major

The Bachelor of Science degree with a major in police administration offers students the opportunity to prepare to enter a career in law enforcement at any level of government or in the field of private/corporate security. The criminal justice degree in police administration is a four-year degree program. The police administration major requires 65 semester hours from the course lists below. At least 45 semester hours in the major must be advanced (3000-4000 level). A minor is not required.

### General Education Requirements: 60 hours

Core: 17 hours

Course	Credit Hours
CRIJ 1301 Introduction to Criminal Justice	3
CRIJ 3303 Nature of Crime	3
CRIJ 3402 Current Lit and Research in CRIJ	4
CRIJ 4401 Practicum-Field Experience	4
GOVT 4321 American Constitutional Law: Civil Liberties	3

### Administration Concentration 18 hours

Course	Credit Hours
CRIJ 2323 Legal Aspects of Law Enforcement	3
CRIJ 2328 Police Systems and Practices	3
CRIJ 1310 Fundamentals of Criminal Law	3
CRIJ 4311 Advanced Police Org & Administration	3
CRIJ 4312 Principles of Law Enforcement	3
CRIJ 4313 Seminar of Issues in Law Enf. Electives	3

### Electives (Minimum of six hours advanced): 15

Select five courses from those designated as CRIJ not previously taken for credit (excluding CRIJ 2333, CRIJ 2334, and/or CRIJ 2335)\*.

\*CRIJ 4362 Special Topics in Criminal Justice may be taken twice for credit.

### Interdisciplinary Social Science Support Courses 18 hours

Six advanced (3000-4000 level) semester credit hours from each of the following three disciplines: sociology, psychology, political science. Total (minimum) 128 hours.

## B.S. – Concentration in Corrections

The Bachelor of Science degree with a concentration in corrections offers students the opportunity to prepare to enter a career in various aspects of adult and juvenile corrections whether at institutions or in probation, parole, or other forms of community-based correctional treatment. The Corrections Concentration is also a broad field major incorporating sociology, psychology and political science.

### General Education Requirements: 60 hours

Core: 17 hours

Core Course	Credit Hours
CRIJ 1301 Introduction to Criminal Justice	3
CRIJ 3303 Nature of Crime	3
CRIJ 3402 Current Lit and Research in CRIJ	4
CRIJ 4401 Practicum-Field Experience	4
POLS 4321 American Constitutional Law: Civil Liberties	3

### Correction Concentration: 19 hours

Course	Credit Hours
CRIJ 2322 Juvenile Procedures and Family Code	3
CRIJ 2313 Correctional Systems and Practices	3
CRIJ 3331 Legal Aspects of Corrections	3
CRIJ 3345 Correctional Administration	3
CRIJ 4441 Correctional Casework and Counseling	4
CRIJ 4343 Seminar of Issues in Corrections	3

### Electives (Minimum of six hours advanced): 15 hours

Select five courses from those designated as CRIJ not previously taken for credit (excluding CRIJ 2333, CRIJ 2334, and/or CRIJ 2335)\*.

\*CRIJ 4362 Special Topics in Criminal Justice may be taken twice for credit.

### Interdisciplinary Social Science Support Courses: 18 hours

Six advanced (3000-4000 level) semester credit hours from each of the following three disciplines: Sociology, Psychology, Political Science. Total (minimum) 129 hours.

## B.S. – Criminal Justice Minor

The minor in criminal justice is intended for students whose area of major academic concentration could benefit from a secondary concentration on criminal justice coursework.

**Requirements:** 19 semester hours of Criminal Justice, 10 hours of which must be advanced (3000-4000 level); must include CRIJ 1301 and CRIJ 3402.

## ENGLISH DEPARTMENT

*Bachelor of Arts; Master of Arts in Interdisciplinary Studies*

### Bachelor of Arts Degree

A major in English offers training in language, composition and literature. Students have the opportunity to learn to read the works of others and to improve their own writing. Students have the opportunity to relate what they read to their own lives and world view. Students have an opportunity to develop language skills and communication skills which will prove useful in any field. Both secondary and elementary level teacher certification plans in English are available.

### B.A. – English Major

#### Literature

The Bachelor's degree with a major in English requires 36 semester hours of English at least 24 of which must be advanced.

#### Lower Division Requirements:

Students planning to major in English must have completed the freshman and sophomore qualifications listed in the General Requirements for a Bachelor's degree earlier in this catalog. Though any 2000-level English course may be taken to satisfy the sophomore requirement, British literature is recommended for English majors.

Course	Credit Hours
Advanced Requirements	24
Core Course English 3319	3
Electives	21

### Specialization in Literature with Secondary Certification

36 semester hours of English of which 24 must be advanced

#### Lower Division Requirements: (same as above)

Course	Credit Hours
Advanced Requirements	24
Core Courses English 3319, 3330, 4301, 4325	12
One Course from English 3321, 4327, 4328	3
Electives (upper-division)	9

## B.A. – English Minor

The Bachelor's degree with a minor in English requires 18 semester hour of English at least six of which must be advanced.

#### Lower-level Requirements

A student planning to minor in English must complete the English requirements outlined in the General Requirements for a Bachelor's Degree earlier in the catalog.

#### Advanced Requirements

Course	Credit Hours
Electives	6

Any approved upper-division English courses

For information regarding teacher certification in English, refer to the Education Department.

## M.A.I.S. – English

The Master of Arts in Interdisciplinary Studies offers students a liberal arts degree at the master's level. Students, in conjunction with a faculty advisory committee, design a program of studies crossing disciplinary lines. This program, responding to community needs, is designed for mature students who wish to continue learning in interrelated areas beyond the bachelor's degree rather than for specialists in a particular discipline.

#### Degree Requirements (Prerequisites)

- Bachelor's degree from an accredited institution.
- Six hours advanced undergraduate credit in English

**Advisory Committee:** Each student will select a major advisor from the English Department. Then, together with the major advisor and with concurrence of the Dean of Liberal Arts, students select two additional advisors from the graduate faculty who teach in Interdisciplinary Studies.

**Degree Plan:** Students must have a degree plan drawn up by the second semester of enrollment or before completing nine graduate hours. The degree plan will be official when it is signed by the major advisor and the Vice President of Academic Affairs. Changes in a degree plan require a new degree plan with signatures from the appropriate faculty and administrators.

In addition to the general requirements set out elsewhere in this catalogue, the following requirements must be met for the M.A.I.S. with a concentration in English.

- Applicants who wish to concentrate in English must have completed at least 6 advanced undergraduate hours in English.
- The choice of courses in the concentration and other fields will be determined through consultation between the student and the departmental graduate advisor.

## Graduate Studies Support Area

A total of 36 graduate-level semester hours are required:

English	18
Supporting Field 1	6-12
Supporting Field 2	6-12
Total	36

## FINE ARTS DEPARTMENT

*Associate in Fine Arts Degree*

### A.F.A.

Art or Music majors seeking an Associate's Fine Arts degree are required to complete at least 62 semester hours of college credit, including the following courses:

- English 1301 and 1302.
- Minimum of 30 hours in either art or music courses approved by Fine Arts Department chairperson.
- One semester from laboratory science or one semester from mathematics (at or above the level of college algebra).
- One semester of computer science (COSC).
- One semester of modern languages (other than English)
- Six hours of American history (three hours of Texas History may be substituted for HIST 1301)
- Six hours of United States government.
- Two hours of kinesiology activities.
- Speech 1315, 1318, or 1321.

*Students should contact the Counseling Center and the appropriate university for complete transfer information.*

### B.A. – Art Minor

The Bachelor's degree with a minor in art requires 18 semester hours in art, nine of which must be advanced.

Course	Credit Hours
Drawing	3
Design	6
Upper-division Art History and/or Studio	9
<b>Total</b>	<b>18</b>

For information regarding teacher certification in Art, refer to the Education Department section of this catalog.

### B.A. – Music Minor (Applied Music)

The Bachelor's degree with a minor in applied music requires 32 to 36 semester hours in music.

Course	Credit Hours
Music literature	6
First year music theory	8
Upper-division electives from: MUSI	6
Applied music: 4 semesters	
Music ensemble: 4 semesters	
<b>Total</b>	<b>32-36</b>

For information regarding teacher certification in music education (elementary), refer to the Education Department section of this catalog.

## MODERN LANGUAGES DEPARTMENT

*Bachelor of Arts in Spanish*

### B.A. – Spanish

Besides the General Degree Requirements outlined in this Catalog, the Bachelor's degree in Spanish requires 36 semester hours, 24 of which must be upper division.

Courses	Credit Hours
SPAN 1313 Elementary Spanish I, or	
SPAN 1373 Basic Spanish I	3
SPAN 1314 Elementary Spanish II, or	
SPAN 1374 Basic Spanish II	3
SPAN 2311 Intermediate Spanish I	3
SPAN 2312 Intermediate Spanish II	3
<b>Upper Division: 24 hours must include:</b>	
SPAN 3303 Advanced Spanish Composition, or	
SPAN 3304 Advanced Spanish Composition	3
SPAN 3306 Basic Concepts of Span Phonetics & Phonology	3
SPAN 3330 Spanish Grammar	3
<b>Six hours from:</b>	
SPAN 3301 Spanish Literature (1100-1750)	3
SPAN 3310 Masterpieces of Spanish American Lit I	3
SPAN 3311 Masterpieces of Spanish American Lit II	3
<b>Nine hours of upper-division Spanish electives</b>	

### B.A. – Spanish Minor

The Bachelor's degree with a minor in Spanish requires 18 semester hours in Spanish of which six semester hours must be upper division.

For information about teacher certification in Spanish, refer to the Education Department section of this catalog.

### Translator Program

The Modern Languages Department offers courses in translation leading to the Translator Certificate and to the Translator and Bilingual Administrator Certificate.

**Requirements for the Translator Certificate:**

- General Business 1301 and Economics 2301.
- SPAN 3332, 3333, 3334, 4332 and 4334.

**Requirements for the Translator and Bilingual Administrator Certificate:**

- Major in Spanish.
- Minor in Business Administration.
- SPAN 3332, 3333, 3334, 4332, and 4334.

### M.A.I.S. – Spanish

Degree requirements, the administration of the program, degree plans, preparation for comprehensive examinations, special institutional requirements, concentrations and support areas and restrictions for the M.A.I.S.-Spanish are listed under the Interdisciplinary Graduate Programs.

## M.A.I.S. – Spanish Concentration

### Non-Thesis

In addition to the general requirements set out elsewhere in this catalog, the following requirements must be met for the M.A.I.S. with a concentration in Spanish.

- Applicants who wish to concentrate in Spanish must have completed at least 12 advanced undergraduate hours in Spanish.
- Students who do not specialize in Spanish but who wish to take graduate courses in Spanish must have linguistic ability equivalent to that attained on completion of the intermediate level in Spanish.
- Specialists will choose courses in Spanish and in related areas through consultation with their advisor.

## Graduate Studies Support Area

Eighteen graduate-level hours in Spanish are required.

Course	Credit Hours
Graduate-Level hours in Spanish	18
Graduate-level hours in at least two other fields	18
Field 1: 6-12 hours	
Field 2: 6-12 hours	
<b>Total</b>	<b>36</b>

## SOCIAL SCIENCES DEPARTMENT

### B.A. – Government Major

The Bachelor's degree with a major in government requires 30 semester hours of government, at least 21 of which must be advanced.

Government majors and minors specialize in four fields:

- American government: local, state, national;
- Comparative government and international relations: totalitarian government, government and politics of Asia, comparative government, Western democracies, politics of emerging nations, Africa and Middle East, international politics and international organizations;
- Political theory and methodology: scope and methods of political science, political theory;
- Public administration.

Course	Credit Hours
Core: 49 hours	
Degree base: 11 hours	
Major studies area: 30 hours	
Basic U.S. and Texas government	6
Introduction to political science	3
Advanced level courses: 21 hours	
American government and politics	6
Comparative government & international relations	6
Political theory and methodology	6
Public administration	6
Economic principles	6

Minor studies area (Minimum)	18
Electives	16+
<b>Total (minimum)</b>	<b>124</b>

*Note: A student planning to major in government must have completed the freshman and sophomore qualifications listed in the Core and Degree Base for a Bachelor's Degree earlier in this catalog.*

*\*Six hours are part of the CORE.*

### B.A. – Government Minor

The Bachelor's degree with a minor in government requires 18 semester hours of government, at least nine of which must be advanced.

Course	Credit Hours
U. S. government	3
Texas government	3
Introduction to political science	3
Approved upper-division POLS	9
<b>Total</b>	<b>18</b>

*Note: A student planning to minor in government must have completed the freshman and sophomore qualifications listed in the Core and Degree Base for a Bachelor's Degree earlier in this catalog.*

For information regarding teacher certification in government, refer to the Education Department section of this catalog.

### B.A. – History Major

Core: 49 hours

Degree Base: 11 hours

Major Studies Area: \* 30 hours

Lower level Requirements \*15 hours

American history	6
Western civilization	6
Texas history	3

Advanced requirements: 15 hours

Must include three semester hours from:

- American history
- European history
- Latin American history

Minor Studies Area Minimum: 18 hours

Electives: 7 hours

**Total (minimum) 124 hours**

*\*6 hours are part of the CORE.*

*Note: A student planning to major in history must have completed the freshman and sophomore qualifications listed in the Core and Degree Base for a Bachelor's Degree earlier in this catalog.*

### B.A. – History Minor

The Bachelor's degree with a minor in history requires 18 semester hours if history, 6 of which must be advanced.

Course	Credit Hours
Lower level Requirements: 12	
Texas history	3
Western civilization	3
Basic American history	6
Advanced requirements (any approved upper division)	6
<b>Total</b>	<b>18</b>

*Note: A student planning to minor in history must have completed the freshman and sophomore qualifications listed in the Core and Degree Base for a Bachelor's Degree earlier in this catalog.*

For information about teacher certification in history, refer to the Education Department section of this catalog.

## M.A.I.S. – Interdisciplinary Studies

Degree requirements, the administration of the program, degree plan, preparation for comprehensive examinations, special institutional requirements, concentrations and support areas and restrictions of the M.A.I.S.–Interdisciplinary Studies are listed under the section of Interdisciplinary Graduate Programs.

### M.A.I.S. – History Concentration

#### Non-Thesis

In addition to the general requirements set out elsewhere in this catalog, the following requirements must be met for the M.A.I.S. with a concentration in history.

- Applicants who wish to concentrate in history must have completed or must complete as leveling work at least six advanced undergraduate hours in History.
- Full time graduate students who have not met the above requirement should take such leveling work while taking a limited number of graduate hours.
- Every graduate course in history is research oriented and requires a research paper. Methods of research and historiographical approaches are taught.
- Until admitted to candidacy, graduate history majors are required to consult with the departmental graduate advisor concerning course work and schedule.

### Graduate Studies Area

Eighteen graduate-level semester hours in history are required.

Courses	Credit Hours
Supporting Disciplines/Fields	18
Graduate-level semester hours in at least two other fields	18-24
Field 1: 6-12	
Field 2: 6-12	

<b>Total</b>	<b>36</b>
1 - not more than half at the 5000 level. 12-18 Hours	
2 - not more than 12 hours from Education and Business.	

### Pre-Law

Admission to law school is becoming increasingly selective. Applicants are selected primarily on these factors: the Law School Admissions Test (LSAT), which should be taken in the Junior or Senior year; a writing sample, which is a separate part of the LSAT; the student's overall grade point average; co-curricular activities and maturing experiences. Many law schools also request letters of recommendation.

Students should aim for a minimum GPA of 3.0 and a minimum LSAT score of 35. Virtually all law schools have admissions policies which allow exceptions to these figures, but the closer the student is to these scores, the better the chance of admission.

While any undergraduate major will assist in preparation for law school, those majors which emphasize the fundamental skills necessary for effective oral and written communication are advisable. Students are encouraged to seek courses of study

which emphasizes reading, writing, reasoning, and analyzing as these are skills tested most fully by the LSAT.

Pre-law students should consult the current Pre-Law Handbook prepared by the Law School Admission Service.

## BACHELOR OF APPLIED ARTS AND SCIENCES PLAN

Students seeking the Bachelor of Applied Arts and Sciences degree usually will have had several years' work experience in a technological field and must satisfy the following requirements:

- Possess an Associate of Arts or Sciences degree in a technological field from an accredited institution, or have the equivalent of 48 to 51 semester hours in a technological field.
- Complete the Core Requirement (49 hours) and the Degree Base (11 hours) focusing on the liberal arts.
- Complete one of the professional development sequences including any electives — 36 advanced hours.

Course	Credit Hours
Core	49
Degree Base	11
Professional development sequence	36
A.A. or A.A.S.	42-51
(or equivalent, i.e. certification, diploma, etc.)	
<b>Total</b>	<b>138-141</b>

### Technological/Vocational Fields

Technical, Managerial Occupations  
 Clerical, Sales and Merchandising Occupations  
 Criminal Justice  
 Service Occupations  
 Hotel/Restaurant Management & Services/Home Economics  
 Farming, Fishery, Forestry, and Related Occupations  
 Machine Trade Technology (or Industrial Technology)  
 Diesel/Gasoline/Gas Engine Technology  
 Construction Technology  
 Metallurgy Technologies  
 Chemical Technologies  
 Air Conditioning and Refrigeration Technologies Nursing  
 Medical Laboratory and Nuclear Technology  
 Data Processing  
 Drafting Technology (Mechanical, Architectural, Surveying)  
 Electronics, Instrumentation and Automated Systems  
 Technologies (High Tech Industries)  
 Fashion Merchandising  
 Transport Industries/Agencies  
 Banking, Finance and Savings Occupations  
 Legal, Court and Attorney's Aides/Assistants  
 Public Service Occupations  
 Nursing



## PROFESSIONAL DEVELOPMENT SEQUENCES

### Liberal Arts (30-36 hours)

The goal of the Liberal Arts Professional Development Sequence is to prepare students for careers in maquiladoras, international business or industry, hotel/motel management or state/federal services which require skills in modern languages.

At least 12 advanced semester hours of one language other than English, or 18 advanced semester hours of two languages other than English, such as 6 advanced semester hours of French and 12 advanced semester hours of Spanish.

Course	Credit Hours
MANA 3361 Principles of Management	3
MANA 3362 Personnel Management	3
GEOG 3333 Latin-American Geography	3
<b>Minimum of six semester hours from:</b>	
GOVT 3314 American State and Local Government	3
GOVT 3323 Introduction to Public Administration	3
GOVT 4320 American Constitutional Law: Federalism	3
GOVT 4360 American Executive Process	3
GOVT 4365 American Administrative Process	3
GOVT 4367 American Judicial Process	3
<b>Three semester hours from:</b>	
HIST 4313 20th America, 1917 to the Present	3
HIST 4343 Era of Sectional Conflict, 1840-1877	3
HIST 4357 History of Modern Latin America	3
<b>or other approved upper-division history courses</b>	
Electives: advanced hours*	0-6
<b>Total Professional Development Sequence</b>	<b>36</b>

*\*to be selected in conference with academic advisor.*

### Applied Business Technology (24 hours)

The goal of the Applied Business Technology Development Sequence is to prepare students for careers in supervisory or lower management positions of business, industry, or services which require skills in business technologies.

Course	Credit Hours
GENB 3312 Administrative Office Management	3
GENB 3335 Organizational Communications	3
GEOG 3333 Latin-American Geography	3
GOVT 3323 Introduction to Public Administration	3
or	
GOVT 3343 International Politics	3
SOCI 3324 Sociology of Health	3
or	
SOCI 3334 Sociology of Work	3
<b>Six hours from one of the following blocks:</b>	
<b>Block A</b>	
MANA 3361 Principles of Man. and Org. Behavior	3
MANA 3362 Personnel Management	3
<b>Block B</b>	
MARK 3371 Principles of Marketing	3
MARK 3374 Marketing Strategy	3

<b>Block C</b>		
FINA 3381	Money and Banking	3
FINA 3389	Commercial Banking	3
or		
GENB 3337	Business Law I	3
Upper-division non-business electives*		12
<b>Total Professional Development Sequence</b>		<b>36</b>

*\*selected with advisor*

## GRADUATE PROGRAMS SUMMARY

In addition to the graduate programs in the School of Business and Industry (M.B.A.) and the School of Education (M.Ed.), the Master of Arts and Master of Science in Interdisciplinary Studies (M.A.I.S./M.S.I.S.) are offered by the College of Liberal Arts and the College of Science and Mathematics to give students a liberal arts degree at the master's level. Students in conjunction with faculty advisory committees design programs of studies crossing disciplinary lines.

This program, responding to community needs, is designed for mature students who wish to continue learning in interrelated areas beyond the bachelor's degree rather than for specialists in a particular discipline. The M.A.I.S. and M.S.I.S. give these students an alternative to the applied programs offered in the Schools of Education and of Business and Industry. Efforts are made to relate the material studied in one discipline to that studied in another and to encourage students to select courses in mutually supporting fields.

## BIOLOGICAL SCIENCES DEPARTMENT

### *Bachelor of Science – Biology Major* *Bachelor of Science – Biology Minor*

The major in Biology is offered as a basic degree program for further studies or for employment in services not related to public education. The program is also designed for students desiring elementary or secondary teacher certification in Texas public education. Biology graduate courses are also offered toward a Master of Science Degree in Interdisciplinary Studies.

The Biological Sciences Department also provides support coursework to the Allied Health Sciences and Nursing programs.

### **B.S. – Biology Major**

The Bachelor's degree with a major in biology requires 30 semester hours of biology, at least 15 of which must be advanced.

Core	49
Degree Base	11
Major Studies Area	36
<b>Prerequisites</b>	<b>Credit Hours</b>
CHEM 1311 General Chemistry I	3
CHEM 1111 General Chemistry Laboratory I	1
CHEM 1312 General Chemistry II	3
CHEM 1112 General Chemistry Laboratory II	1
<b>General Biology</b>	<b>Credit Hours</b>
BIOL 1406 General Biology I	4
BIOL 1407 General Biology II	4
BIOL 2401 Human Anatomy and Physiology I or	4
BIOL 2428 Comparative Vertebrate Anatomy	4
BIOL 4100 Biology Seminar	4
<b>Evolutionary Biology</b>	<b>Credit Hours</b>
BIOL 3303 Genetics	3
<b>Cellular Biology and Biochemistry</b>	<b>Credit Hours</b>
BIOL 3412 Cell Biology	4
<b>Developmental or Morphological Biology</b>	<b>Credit Hours</b>
BIOL 3408 Plant Morphology	4
<b>Organismal or Environmental Biology</b>	<b>Credit Hours</b>
<b>Six hours from:</b>	
BIOL 3409 Ecology	3
BIOL 4309 Herpetology	3
BIOL 4314 Plant Taxonomy	3
BIOL 4402 Marine Zoology	4
BIOL 4410 Marine Botany	4
<b>Recommended Courses for Teacher Certification</b>	<b>Credit Hours</b>
PHYS 1301 General Physics I	3
PHYS 1101 General Physics Laboratory I	1
PHYS 1302 General Physics II	3
PHYS 1102 General Physics Laboratory II	1

Programs

### **B.S. – Biology Minor**

The Bachelor's degree with a minor in biology requires 11 to 20 semester hours of biology, 11 of which must be advanced.

<b>General Biology</b>	<b>Credit Hours</b>
BIOL 1406 General Biology I	4
BIOL 1407 General Biology II or	4
BIOL 2401 Human Anatomy and Physiology I	4
BIOL 3409 Ecology	4
<b>Seven to eight hours from:</b>	<b>Credit Hours</b>
BIOL 3303 Genetics	3
BIOL 3408 Plant Morphology	4
BIOL 3412 Cell Biology	4
BIOL 4309 Herpetology	3
BIOL 4314 Plant Taxonomy	3
BIOL 4402 Marine Zoology	4
BIOL 4410 Marine Botany	4

*Biology - Teacher Certifications, Refer to Education Programs*

## COMPUTER INFORMATION SYSTEMS DEPARTMENT

*Mainframe Computer Programmer Certificate, Microcomputer Computer Specialist Certificate, Associate in Applied Science Degree, Bachelor of Science - Computer Science Minor, Bachelor of Science - Computer Information Systems Minor*

The programs and minors offered by the Department of Computer Sciences/Computer Information Systems provide students with a background for bachelor's level and graduate study in the computer sciences and may complement the academic background needed for careers in business, statistics, mathematics, research in the social and natural sciences, or architecture, and engineering. The minors include the subject matter needed for certification for primary and secondary school teaching. Teacher certification is also available.

Computer Information Systems specialized area of computer science, emphasizes concepts and processes relevant to organizational functions and management. CIS graduates are prepared to work with information and computer technologies and to use their training to develop and maintain an information system structure, solve problems, and improve systems.

Additionally, the teacher certification program prepares students to teach secondary level computer science courses.

### **Computer Science**

Computer science, the study of the structure, function, and application of computers, is central to the rapidly expanding use of information technology. Computers have traditionally been used in business, engineering, and scientific applications, and now applications are found in almost all fields from art to zoology.

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## Computer Information Systems

Courses leading to an Associate in Applied Science Degree or to a one-year Certificate of Proficiency in Computer Programming and Micro Computers are offered. Courses are also offered for students in other disciplines requiring general knowledge of computers.

The Associates degree program is designed to give professional training and emphasize the application of the computer to a wide variety of needs and the design and development of computer-based systems. Such a broad and thorough training is excellent preparation for advanced college studies in the field of Computer Information Systems.

The computer information systems courses and programs are not designed for students seeking a Bachelor's degree. However, in some instances, universities do accept certain credits in transfer. Due to the variation in requirements at major universities, students wanting to pursue a Bachelor's degree in computer information systems should consult a counselor to develop a degree plan suited to the university to which they intend to transfer.

## Certificate of Proficiency – Mainframe Computer Programmer

### Program Competencies

Students who successfully complete the Mainframe Computer Programmer program will be offered the opportunity to develop skills to to:

- design, write, test, and implement the programs which process data on computer systems.
- produce the usable output information required by business.

### Freshman Year

First Semester		Credit Hours
TCIS 1401	Introduction to BASIC	4
TCIS 1373	Logic & Flow	3
TCIS 1311	Computer Fundamentals	3
ACCT 1401	Basic Accounting I*	4
<b>Total</b>		<b>14</b>

Second Semester		Credit Hours
TCIS 2401	Introduction to COBOL	4
TCIS 2420	RPG II	4
	Electives*	6
<b>Total</b>		<b>14</b>

### Credit Hour Summary

CIS Required	22 Credit Hours
*General Education	4 Credit Hours
Electives	6-8 Credit Hours
<b>Total</b>	<b>28-30 Credit Hours</b>

\* Approved Electives: TACC 1405, TCIS 1404, TCIS 2404, TCIS 2408.

## Certificate of Proficiency – Microcomputer Specialist

### Program Competencies

Students who successfully complete the Microcomputer Specialist program should be able to:

- work with user personnel in preparing specifications and documentation.
- design program logic, and code and test programs.
- implement conversion of systems on microcomputer hardware.

### Freshman Year

First Semester		Credit Hours
TCIS 1401	Introduction to BASIC	4
TCIS 1373	Logic & Flow	3
TCIS 1311	Computer Fundamentals	3
ACCT 1401	Basic Accounting I	4
<b>Total</b>		<b>14</b>

Second Semester		Credit Hours
TCIS 2404	Data Base	4
TCIS 2408	Data Communications	4
TCIS 2412	Computer Graphics	4
	Elective*	3
<b>Total</b>		<b>15</b>

### Credit Hour Summary

TCIS Required	26 Credit Hours
Elective	3-4 Credit Hours
<b>Total</b>	<b>29-30 Credit Hours</b>

\* Approved Electives: TACC 1405, TCIS 1408.

## A.A.S. – Computer Information Systems

### Program Competencies

Students completing the A.A.S. program will be offered the opportunity to develop skills to:

- apply current programming and computer application package techniques with a minimum of supervision.
- understand and operate most data processing equipment after a brief orientation period.
- properly document programming decisions and communicate with other computer specialists.
- analyze the needs of a company or office and design appropriate computer programs.
- master new and special data processing techniques and/or continue their education at a four-year institution.

TSEC 1105 (Keyboarding) is recommended for students without previous typing or keyboarding experience.

### Freshman Year

First Semester		Credit Hours
TCIS 1311	Computer Fundamentals	3
TCIS 1401	Introduction to BASIC	4
ENGL 1301	Composition I	3
MATH 1314	College Algebra, or	
MATH 1313	College Math	3
	Elective **	1-3
<b>Total</b>		<b>14-17</b>

## MATHEMATICS DEPARTMENT

*Bachelor of Science - Mathematics Major*  
*Bachelor of Science - Mathematics Minor*

The regular majors offered by the Department of Mathematics provide students with a background for graduate study in mathematics and may constitute appropriate academic background for such professional careers as architecture and engineering. Both majors and minors include the necessary subject matter for certification for primary and secondary school teaching. The Bachelor of Science degree is offered with a major in mathematics. A minor and teacher certification in the same field are available.

### Degree Requirements

The Bachelor of Science in mathematics offers students an opportunity to acquire a broad education in pure and applied mathematics and is flexible enough to allow a variable upper-division program which can be created by the student in consultation with the Academic Advisor. The B.S. in mathematics allows special combinations designed specifically as preparation for high school or elementary school teaching.

## B.S. - Mathematics Major

The Bachelor's degree with a major in mathematics requires 36 semester hours of mathematics, at least 21 of which must be advanced.

Course	Credit Hours
Core	49
Degree Base	11
Major Studies Area	36
MATH 1314 College Algebra	3
MATH 1316 Trigonometry	3
MATH 1348 Analytical Geometry	3
MATH 2313 Calculus I	3
MATH 2314 Calculus II	3
MATH 3305 Euclidean and Transformational Geometry	3
MATH 3347 Calculus III	3
MATH 4348 Linear Algebra	3
MATH 4351 Modern Algebra (grade C or better)	3

### Nine hours from:

MATH 3302 Vector Analysis	3
MATH 3303 History of Mathematics*	3
MATH 3349 Differential Equations	3
MATH 4302 Theory of Numbers	3
MATH 4339 Mathematical Statistics I	3
MATH 4340 Mathematical Statistics II	3
MATH 4357 Real Analysis	3
MATH 4364 Special Problems in Mathematics	3

or other approved Upper Division Math  
 Minor Studies Area (minimum) 18  
 Electives 10+

**Total (minimum) 124 hours**

\*To be used as elective for teacher certification only

Second Semester	Credit Hours
ACCT 1401 Basic Accounting I	4
TCIS 1404 Introduction to Microcomputers	4
TCIS 1408 Advanced BASIC	4
ENGL 1302 Composition II *	3
<b>Total</b>	<b>15</b>

Summer Session	Credit Hours
SPCH Speech Course */+	3
Elective **	1-4
<b>Total</b>	<b>4-7</b>

### Sophomore Year

First Semester	Credit Hours
TCIS 2401 Introduction to COBOL	4
TCIS 2404 Data Base	4
TCIS 2408 Data Communications	4
TCIS 2412 Computer Graphics	4
<b>Total</b>	<b>16</b>

Second Semester	Credit Hours
TCIS 2316 Business Systems Design	3
TCIS 2420 RPG II	4
TCIS 2424 Advanced COBOL	4
TCIS 2328 Field Project	3
Social/Behavioral Science Course */++	3
<b>Total</b>	<b>17</b>

### Credit Hour Summary

TCIS	49 Credit Hours
*General Education	15 Credit Hours
General Electives	2-8 Credit Hours
<b>Total</b>	<b>66-72 Credit Hours</b>

\* TSEC 1105 (Keyboarding) is recommended for students without previous typing or keyboarding experience.

\*\* Electives may be any non-developmental courses.

+ Choose from SPCH 1315, SPCH 1321, SPCH 1342.

++ Choose from ECON 1303, ECON 2301, PSYC 2301, or SOCI 1301.

## B.S. - Computer Science Minor

Course	Credit Hours
COSC 1418 Introduction to Computer Science	4
COSC 2418 Computer Science II	4
COSC 2425 Computer Organization & Machine Language	4
COSC 3333 Data Structures	3
COSC 3334 Systems Programming	3
Approved COSC, or MATH	3
<b>Total</b>	<b>21</b>

## B.S. - Computer Information Systems Minor

Course	Credit Hours
ACCT 2401 Principles of Accounting I	4
COSC 1432 COBOL Programming	4
COSC 3330 File Structures for On-Line Systems	3
MANA 3361 Principles of Management & Org. Behavior	3
Approved Upper Division COSC Electives	6
<b>Total</b>	<b>20</b>

For information regarding teacher certification in Computer Information Systems, refer to the Education Department.

## B.S. – Mathematics Minor

The Bachelor's degree with a minor in mathematics requires 21 semester hours of credit in mathematics, at least 12 of which must be advanced.

Course	Credit Hours
MATH 1314 College Algebra	3
MATH 1316 Trigonometry	3
MATH 1348 Analytical Geometry	3
or	
MATH 2313 Calculus I	3
MATH 3305 Euclidean & Transformational Geometry	3
<b>Nine hours from:</b>	
MATH 3302 Vector Analysis	3
MATH 3303 History of Mathematics*	3
MATH 4302 Theory of Numbers	3
MATH 4339 Mathematical Statistics I	3
MATH 4351 Modern Algebra (grade C or better)	3
<b>Total</b>	<b>21</b>

\*For Teacher Certification only

## PHYSICAL SCIENCES DEPARTMENT

### B.S. – Chemistry Minor

## B.S. – Chemistry Minor

The Bachelor's degree with a minor in chemistry requires 18 semester hours of chemistry, at least 6 of which must be advanced. The 16 semester hours of lower division courses must be chosen from the following:

Course	Credit Hours
CHEM 1311 General Chemistry I	3
CHEM 1111 General Chemistry I Laboratory	1
CHEM 1312 General Chemistry II	3
CHEM 1112 General Chemistry II Laboratory	1
CHEM 2123 Organic Chemistry I Laboratory	1
CHEM 2323 Organic Chemistry I	3
CHEM 2125 Organic Chemistry II Laboratory	1
CHEM 2325 Organic Chemistry II	3
CHEM 2401 Quantitative Analysis	4

Six to seven semester hours from the following:

CHEM 3103 Biochemistry Laboratory	1
CHEM 3301 Inorganic Chemistry	3
CHEM 3303 Biochemistry	3
CHEM 3402 Advanced Quantitative Analysis	4

## BUSINESS ADMINISTRATION DEPARTMENT

The Business Administration Department offers professional training in the field of business. The programs are designed to offer students the opportunity to prepare to be professional managers or business owners. The skills, abilities, and attitudes which students are offered the opportunity to develop will assist them in responding to a changing economic and social environment.

The Business Administration Department in its research and service functions recognizes its obligations to serve the Rio Grande Valley and the international business community.

Chapters of Alpha Kappa Psi, a professional business fraternity, and Alpha Chi, a national honor society, are open to business administration majors.

## Accounting

*Certificate of Proficiency-Accounting Technology,  
Associate in Applied Science Degree-Accounting Technology,  
Bachelor of Business Administration-Accounting*

### Certificate of Proficiency – Accounting Technology

#### Freshman Year

First Semester		Credit Hours
BUSI	1301 Introduction To Business	3
TMAN	1310 Financial Math I	3
TCIS	1404 Introduction to Microcomputers	4
TACC	1401 Basic Accounting I	4
TACC	1310 Payroll Accounting	3
<b>Total</b>		<b>17</b>

Second Semester		Credit Hours
TACC	1405 Basic Accounting II	4
TACC	1315 Income Tax Accounting	3
TACC	2405 Accounting Applications I	4
TMAN	1315 Financial Math II	3
TSEC	1310 Electronic Calculating Machines	3
<b>Total</b>		<b>17</b>

#### Credit Hour Summary

Business	34 Credit Hours
<b>Total</b>	<b>34 Credit Hours</b>

All credit hours earned for the Certificate of Proficiency apply to the A.A.S. Degree.

## A.A.S. – Accounting Technology

This plan, designed for students anticipating employment after two years of college work, includes fundamental principles and practices of finance. Individuals in this program will be offered the opportunity to acquire the skills necessary to enter beginning clerk positions in payroll, accounts payable/receivable, or accounting.

#### Freshman Year

First Semester		Credit Hours
ENGL	1301 Composition I	3
TMAN	1310 Financial Math I	3
TACC	1401 Basic Accounting I	4
TACC	1310 Payroll Accounting	3
	Elective	3
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
TACC	1405 Basic Accounting II	4
TACC	1315 Income Tax Accounting	3
SPCH	1315 Fundamentals of Speech, or	
SPCH	1318 Interpersonal Communication	3
MATH	1313 College Math	3
TRLM	2315 Small Business Management	3
<b>Total</b>		<b>16</b>

#### Sophomore Year

First Semester		Credit Hours
TACC	2401 Basic Accounting III	4
TACC	2405 Accounting Applications I	4
TSEC	1310 Electronic Calculating Machines	3
BUSI	1301 Introduction to Business, or	
TACC	2415 Accounting Co-op Ed. I	3-4
	Elective	3
<b>Total</b>		<b>17-18</b>

Second Semester		Credit Hours
TACC	2410 Accounting Applications II	4
SOCI	1301 Introduction to Sociology, or	
PSYC	2302 Applied Psychology	3
GOVT*	2301 American Government I	3
TSEC	2320 Business Correspondence	3
TMAN	2301 Human Relations/Business, or	
TACC	2420 Accounting Co-op Ed. II	3-4
<b>Total</b>		<b>16-17</b>

#### Credit Hour Summary

Business	44-46 Credit Hours
*General Education	15 Credit Hours
Elective	6 Credit Hours
<b>Total</b>	<b>65-67 Credit Hours</b>

## B.B.A. – Accounting Major

This plan offers students the opportunity to prepare for careers in public and private accounting.

Course	Credit Hours
Core	49
Degree Base:	25
ACCT 2401 Principles of Accounting I	4
ACCT 2402 Principles of Accounting II	4
ECON 2301 Economic Principles I - Macro	3
ECON 2302 Economic Principles II - Micro	3
MATH 1325 Business Calculus	3
Three hours from:	3
ANTH 2346	
PSYC 2301	
SOCL 1301 or 1306 or 2301	
COSC 1305	3
KINE (Activities)	2
Bachelor Studies Area:	
Business Administration Element:	27
Specialization: Accounting	
ACCT 3321 Intermediate Accounting I	3
ACCT 3322 Intermediate Accounting II	3
ACCT 3323 Income Tax Procedure	3
ACCT 3324 Cost Accounting	3
ACCT 3325 Fund Accounting	3
ACCT 4320 Advanced Accounting I	3
ACCT 4321 Advanced Accounting II	3
ACCT 4323 Contemporary Accounting Theory	3
ACCT 4324 Auditing	3
ACCT 4329 Advanced Income Tax Procedure	3
ACCT 4331 Accounting Report Writing	3
BUSI 3338 Business Law II	3
<b>Total B.B.A. - Accounting</b>	<b>137</b>

Note: The degree in Accounting qualifies the graduate to sit for the Certified Public Accountant examination in Texas and most states. Since the C.P.A. examinations cover a broad range of topics, consult with an Accounting advisor concerning additional elective courses which might be needed to prepare for the examination.

## Business Administration

Associate in Arts – Business Administration,  
 Bachelor of Business Administration – General Business,  
 Bachelor of Business Administration – Minor,  
 Master of Business Administration

## A.A. – Business Administration

Upon completing of the Associate in Arts – Business Administration program, students may transfer to another institution to complete the last two years of their Bachelor's degree. Students should verify with a counselor the transferability of courses.

### Freshman Year

First Semester	Credit Hours
ENGL 1301 Composition I	3
MATH 1324 Business Algebra	3
HIST 1301 U.S. History to 1877	3
BUSI 1301 Introduction to Business	3
COSC 1305 Computer Systems	3
<b>Total</b>	<b>15</b>

Second Semester	Credit Hours
ENGL 1302 Composition II	3
MATH 1325 Business Calculus	3
HIST 1302 U.S. History since 1877	3
BUSI 1302 Principles of Management	3
Elective: Modern Language or Lab Science	3-4
<b>Total</b>	<b>15-16</b>

### Sophomore Year

First Semester	Credit Hours
ENGL 2322 British Literature I	3
GOVT 2301 American Government I	3
KINE Activity Course	1
ECON 2301 Economic Principles	3
ACCT 2401 Principles of Accounting I	3
Elective: Modern Language or Lab Science	3-4
<b>Total</b>	<b>17-18</b>

Second Semester	Credit Hours
ENGL 2323 British Literature II	3
ECON 2302 Economic Problems	3
KINE Activity Course	1
SPCH 1215 Fundamentals of Speech	3
ACCT 2402 Principles of Accounting II	4
GOVT 2302 American Government II	3
<b>Total</b>	<b>17</b>

### Credit Hour Summary

**Total 64-66 Credit Hours**

## B.B.A. - Business Administration Major

The primary objective of the B.B.A. degree programs is to offer students the opportunity to prepare for managerial positions in local, national and multi-national businesses. Many students will choose the business curriculum as a route to employment in public accounting and in administrative positions in public and non-profit agencies. The B.B.A. degree program may also lead students for more advanced study.

Requirements for the various B.B.A. programs differ only in the area of specialization. Specialized courses make up about 20 percent of the total programs, and students may choose from five specializations: Accounting, Finance, General Business, Management and Marketing.

The curricula for B.B.A. plans requires 124 semester hours of credit, except for Accounting which require 136 hours. No minor is required because of the broad nature of the degree programs.

All B.B.A. degree plans follow a common format of core, degree base courses and bachelor studies area. In the case of business Bachelor's degrees, the bachelor studies area is subdivided into a business administration element, which is common to all B.B.A. degrees, and a specialization. Core and degree base courses are included in the first two years of study before entering the School of Business and Industry. During the third year, the business administration element courses complete the introduction of the functional areas and provide training in the use of analytical techniques. The major specialization courses allow students greater concentration in an area of professional interest.

### Degree Plan

Course	Credit Hours
Core: 49	
Degree Base: 25	
ACCT 2401 Principles of Accounting I	4
ACCT 2402 Principles of Accounting II	4
ECON 2301 Economic Principles I - Macro	3
ECON 2302 Economic Principles II - Micro	3
MATH 1325 Business Calculus	3
Three hours from:	3
ANTH 2346	
PSYC 2301	
SOCI 1301 or 1306 or 2301	
COSC 1305	
KINE (Activities)	
Bachelor Studies Area	
Business Administration Element: 41	
FINA 3380 Managerial Finance	3
BUSI 3335 Organizational Communications	3
BUSI 3337 Business Law I	3
BUSI 3341 Elementary Business & Economic Statistics	3
BUSI 4330 International Business	3
MANA 3361 Principles of Management	3
MANA 3363 Production Management	3
MANA 4369 Business Policy	3
MARK 3371 Principles of Marketing	3
Specialization 24-36	
<b>Total</b>	<b>125-137</b>

## B.B.A. - Business Administration Minor

Course	Credit Hours
ACCT 2401 Principles of Accounting I	3
ACCT 2402 Principles of Accounting II	3
ECON 2301 Economic Principles	3
MANA 3361 Principles of Management & Org. Behavior	3
MARK 3371 Principles of Marketing	3
FINA 3380 Managerial Finance	3
<b>Total (Business Administration Minor)</b>	<b>24</b>

## B.B.A. - General Business Major

The general business specialization is designed to allow students, with the aid of a faculty academic advisor, to tailor a program to support students' career goals.

The student will select, with approval of the faculty academic advisor, 24 semester hours from at least three of the business administration fields: Accounting, Economics, Finance, Management, Marketing.

### Degree Plan

Course	Credit Hours
Core	49
Degree Base	25
Bachelor Studies Area	
Business Administration Element	27
Specialization: General Business	24
<b>Total B.B.A. - General Business</b>	<b>125</b>

*A student seeking teacher certification will be required to take:*  
 BUSI 3312 Administrative Office Management  
 EDCI 4641 Student Teaching - Secondary  
*and to select, with the approval of a faculty academic advisor, 15 semester hours from at least three of the business administration fields.*

## M.B.A.

The graduate studies program of the School of Business Administration provides for advanced study leading to the Master of Business Administration Degree. It is designed for those students who want to pursue advanced studies to improve their business and administrative careers.

**Admission to the MBA Program:** A student must meet all requirements for admission to the Graduate School to be admitted to the M.B.A. program. Information on all conditions and requirements for graduate admission are defined under general admission requirements in the graduate section of the catalogue.

**Special Graduate Students (Post Graduate Students):** Students who already have a Master's degree in business and are interested in taking additional graduate courses in business for professional improvement are permitted to enroll in business courses on the graduate level.

**M.B.A. Degree Requirements:** The M.B.A. requires 36 graduate hours, at least 30 of which must be in courses numbered 6000 or higher. All M.B.A. students must complete 27 semester hours of M.B.A. core courses and are required to complete prerequisite courses to make sure they have certain basic knowledge. The prerequisites should be completed prior to admission as a graduate student in the M.B.A. program.



### M.B.A. Prerequisite Courses:

ACCT	2401	Accounting Principles	4
ACCT	2402	Accounting Principles	4
ECON	2301	Economics Principles	3
ECON	2302	Economics Principles	3
FINA	3380	Managerial Finance	3
GENB	3337	Business Law I	3
GENB	3341	Business Statistics	3
MANA	3361	Principles of Management	3
MARK	3371	Principles of Marketing	3
COSC	3334	Computer Systems & Basic Programming (Computer Lit)	3

### M.B.A. Essential Courses (Formerly MBA Core Courses)

ACCT	6320	Financial and Managerial Accounting	3
ECON	6350	Managerial Economics	3
FINA	6340	Financial Administration	3
BUSI	6310	Business Research	3
BUSI	6380	International Business	3
BUSI	6390	Administrative Policy and Strategy	3
MANA	6330	Management Theory and Organizational Behavior	3
MANA	6360	Operations Management	3
MARK	6370	Marketing Policy and Management	3
		Approved out-of-college graduate electives	6
		Approved graduate electives	3
<b>Total M.B.A. Program</b>			<b>36</b>

Notes: Students will select 9 semester hours from approved graduate offerings of the University. Six hours are taken from offerings outside the Business Administration Department with approval of the Dean of the School of Business and Industry. Three of the 9 hours must be in 6000 or 7000 level courses.

### M.B.A. Elective Courses:

ACCT	6321	Advanced Cost and Managerial Accounting	3
ACCT	6323	Accounting Seminar	3
ACCT	6330	Seminar in Auditing	3
ECON	6351	Economics Seminar	3
FINA	6341	Finance Seminar	3
GENB	6317	Administrative Communication	3
MANA	6331	Personnel Administration and Industrial Relations	3
MANA	6332	Management Seminar	3
MARK	6371	Marketing Seminar	3
MARK	6372	Marketing Strategy	3
GENB	7300	Thesis	3
GENB	7301	Thesis	3

**Thesis:** A student may select to write a thesis in lieu of six hours of graduate elective courses. The required oral defense of the thesis before the Thesis Committee replaces the comprehensive written examination.

**Comprehensive Written Examination (Supplement to General Graduate School Regulations):** Each candidate for the Master of Business Administration (M.B.A.) degree is required to pass a comprehensive written examination. The examination evaluates the ability of students to apply and integrate the "M.B.A. Essential Courses". In order to be eligible to take the examination, students must be in good standing in accordance with the "Three 'C' Rule" outlined below.

Examination questions will receive a grade of Pass or Fail. Students must receive a Pass in all the core course areas of the examination in order to be recommended as a candidate for the M.B.A. degree. In the event of a Fail evaluation, re-examination will be no sooner than the next scheduled examination. Students may be re-examined only once. Students who fail any

M.B.A. Essential Course area must retake examinations in all of M.B.A. Essential Course areas.

**Three "C" Rule:** Masters' candidates are ineligible to continue in the program or to take the comprehensive written examination whenever they receive a grade of "C" or lower in three or more of the following M.B.A. Essential Courses, even if the course is repeated and an "A" or "B" grade is received:

1. Business Research
2. Financial and Managerial Accounting
3. Management Theory and Organizational Behavior
4. Financial Administration
5. Managerial Economics
6. Operations Management
7. Marketing Policy and Management
8. International Business

If a student might have three "C" grades in M.B.A. Essential Courses previously taken, currently being taken, or remaining to be taken, the permission to take the comprehensive written examination will be denied until the M.B.A. Essential Course grades are determined.

## Economics

*Bachelor of Business Administration - Economics Minor*

### B.B.A. - Economics Minor

Course	Credit Hours
ECON 2301	Economics Problems 3
ECON 2302	Principles of Economics 3
ECON 3351	Intermediate Macroeconomics Theory 3
ECON 3352	Intermediate Microeconomics Theory 3
	Advanced Economics Electives 6
<b>Total (Economics Minor) 24</b>	

## Finance

*Bachelor of Business Administration - Finance Major*

### B.B.A. - Finance Major

A Bachelor of Business Administration degree with a major in finance may lead to or improve careers in banking, corporate finance, insurance, and real estates.

Course	Credit Hours
<b>Core 49</b>	
<b>Degree Base: 25</b>	
ACCT 2401	Principles of Accounting I 4
ACCT 2402	Principles of Accounting II 4
ECON 2301	Economic Principles I - Macro 3
ECON 2302	Economic Principles II - Micro 3
MATH 1325	Business Calculus 3
<b>Three hours from: 3</b>	
ANTH 2346	
PSYC 2301	
SOCI 1301 or 1306 or 2301	
COSC 1305	3
KINE (Activities)	2

<b>Bachelor Studies Area</b>	
Business Administration Element: 27	
FINA 3380	Managerial Finance
BUSI 3335	Organizational Communications
BUSI 3337	Business Law I
BUSI 3341	Elementary Business & Economic Statistics
BUSI 4330	International Business
MANA 3361	Principles of Management
MANA 3363	Production Management
MANA 4369	Business Policy
MARK 3371	Principles of Marketing
Specialization: Finance (12)	
FINA 3381	Money and Banking
FINA 3382	Investment Principles
FINA 4385	Financial Institutions and Markets
FINA 4389	Commercial Banking
Six semester hours of advanced electives in FINA.	
ECON 3351	Intermediate Macro Economics Theory
ECON 3352	Intermediate Microeconomics Theory
<b>Total B.B.A. - Finance</b>	<b>125</b>

<b>Total</b>	<b>15</b>
<b>Second Semester</b>	
3 SPCH* 1315	Fundamentals of Speech
3 PSYC* 2302	Applied Psychology or
3 SOCI* 1301	Introduction to Sociology
3 MANA 3361	Principles of Management
3 TINT 1301	Import/Export Procedures
3 ECON* 2301	Economic Principles
<b>Total</b>	<b>15</b>
<b>Summer Session</b>	
3 BUSI 2301	Business Law
<b>Total</b>	<b>3</b>

<b>Sophomore Year</b>	
<b>First Semester</b>	
	Elective**
3 TACC 1401	Basic Accounting I
3 MATH* 1313	College Math
3 TMAN 2305	Personnel Management
3 TINT 1305	Principles of Transportation
3 TMAN 2301	Human Relations/Bus. or
3 TINT 2401	International Business Co-op Ed. I
<b>Total</b>	<b>19-20</b>
<b>Second Semester</b>	
3 TACC 1405	Basic Accounting II
3 TINT 2301	Customs Regulations
3 TINT 2305	International Marketing
3 TRLM 2315	Small Business Management
3 TINT 2405	International Business Co-op Ed. II
<b>Total</b>	<b>17</b>

## International Business

*Associate in Applied Science – International Trade and Transportation Management*

### Program Competencies

Students in the International Trade and Transportation Management program will be offered the opportunity to acquire skills to:

- function effectively as managers at an entry or higher level within an organization related to international trade and transportation.
- communicate effectively with other managers, clients, employees, carriers, officials, and other people that influence the international trade and transportation organization.
- effectively and efficiently manage human and non-human resources in a international trade and transportation organization.
- work with other members of the international trade and transportation management team to solve problems and make the best of opportunities.
- assume responsibility for their own international trade and transportation business, adhering to legal and ethical standards.

## A.A.S. – International Trade and Transportation Management

### Freshman Year

<b>First Semester</b>	<b>Credit Hours</b>
3 ENGL* 1301	Composition I
3 TMAN 1310	Financial Math I
	Elective**
3 TMAN 1301	Principles of Marketing
3 TMAN 2310	Introduction to International Business

### Credit Hour Summary

Business	48-49 Credit Hours
*General Education	15 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>69-70 Credit Hours</b>

\*\* Electives may be any non-developmental course.

## Management

*Certificates of Proficiency – General Business;  
Associate in Applied Science – General Business,  
Associate in Applied Science – Hospitality Management;  
Bachelor of Business Administration – Management*

The following programs are cooperative courses of study and on-the-job training which prepares the students for mid-level management positions in each specialized area of business.

### Program Competencies

Students in the General Business Management program, graduates will be offered the opportunity to acquire skills to:

- function effectively as managers at an entry or higher level.
- communicate effectively with other managers, customers, employees, and other people that influence the organization.
- effectively and efficiently manage human and non-human resources.
- work with other members of the management team to solve problems and make the best of opportunities.
- assume responsibility for their own businesses, adhering to legal and ethical standards.

## Certificate of Proficiency – General Business

### Freshman Year

First Semester		Credit Hours
TMAN 1301	Principles of Marketing	3
TMAN 1310	Financial Math I	3
TCIS 1404	Introduction to Microcomputers	4
TMAN 1101	Job Skills	1
TSEC 1105	Keyboarding	1
TMAN 2305	Personnel Management	3
<b>Total</b>		<b>15</b>

Second Semester		Credit Hours
TRLM 2315	Small Business Management	3
MANA 3361	Principles of Management	3
TRLM 2301	Advertising/Sales Promotion	3
TMAN 2310	Introduction to International Business, or	
TMAN 2301	Human Relations/Business	3
TMAN 1401	Mgmt. Development Co-op. Ed. I	4
<b>Total</b>		<b>16</b>

First Summer Session		Credit Hours
TMAN 1405	Mgmt. Development Co-op. Ed. II	4
<b>Total</b>		<b>4</b>

### Credit Hour Summary

Business	35 Credit Hours
<b>Total</b>	<b>35 Credit Hours</b>

## A.A.S. – General Business

### Freshman Year

First Semester		Credit Hours
ENGL 1301	English Composition I *	3
TSEC 1105	Keyboarding	1
	Elective **	3
TMAN 1101	Job Skills	1
TMAN 1301	Principles of Marketing	3
TMAN 1310	Financial Math I	3
<b>Total</b>		<b>14</b>

Second Semester		Credit Hours
ENGL 1302	English Composition II *	3
MANA 3361	Principles of Management	3
MATH 1313	College Math *	3
TRLM 2301	Advertising/Sales Promotion	3
TMAN 1401	Mgmt. Development Co-op Ed. I	4
<b>Total</b>		<b>16</b>

First Summer Session		Credit Hours
TACC 1401	Basic Accounting I	4
TMAN 1405	Mgmt. Development Co-op Ed. II	4
<b>Total</b>		<b>8</b>

### Sophomore Year

First Semester		Credit Hours
	Elective**	3
TMAN 2305	Personnel Management	3
TMAN 1315	Financial Math II	3
ECON 2301	Economic Principles *	3
TMAN 2401	Mgmt. Development Co-op Ed. III	4
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
TMAN 2301	Human Relations in Business	3
PSYC 2302	Applied Psychology, or*	

SOCI 1301	Sociology*	3
TRLM 2315	Small Business Management	3
TMAN 2310	Introduction to International Business	3
TMAN 2405	Mgmt. Development Co-op Ed. IV	4
<b>Total</b>		<b>16</b>

### Credit Hour Summary

Business	49 Credit Hours
*General Education	15 Credit Hours
Elective	6 Credit Hours
<b>Total</b>	<b>70 Credit Hours</b>

\*\* Electives are any non-developmental course.

## A.A.S. – Hospitality Management

The two year terminal program leading to an A.A.S. in Hospitality Management is a cooperative course of study and on-the-job training which offers students the opportunity to prepare for mid-level management positions in hospitality organizations and other related areas of business. Along with their academic curriculum, students are required to work at a part-time job in a sponsoring firm approved by the Mid-Management Coordinator. Approval for admission to the program must be obtained from the Program Coordinator in the office of the Dean of the School of Business and Industry

### Program Competencies

Students in the Hospitality Management program will be offered the opportunity to acquire skills to:

- function effectively as managers at an entry or higher level.
- communicate effectively with other managers, customers, employees, suppliers, or various other people that influence the organization.
- effectively and efficiently manage human and non-human resources.
- work with other managers to solve problems and make the best of opportunities.
- assume responsibility for their own hospitality business, adhering to legal and ethical standards.

### Degree Plan Freshman Year

First Semester		Credit Hours	Programs
ENGL 1301	Composition I *	3	
	Elective**	3	
SPCH 1321	Business and Prof. Communication*	3	
TMAN 1310	Financial Math I	3	
THRM 1301	Introduction to Hospitality Management	3	
<b>Total</b>		<b>15</b>	

Second Semester		Credit Hours	Programs
THRM 2310	Facilities Management	3	
MANA 3361	Principles of Management	3	
TMAN 1315	Financial Math II	3	
THRM 1310	Hospitality Marketing	3	
PSYC 2302	Applied Psychology or*		
SOCI 1301	Sociology **	3	
<b>Total</b>		<b>15</b>	

Summer Session		Credit Hours	Programs
TACC 1401	Basic Accounting I	4	
<b>Total</b>		<b>4</b>	

## Sophomore Year

First Semester		Credit Hours
TSEC	2320 Business Correspondence	3
	Elective **	3
THRM	1305 Food and Beverage Adm. Practices	3
TMAN	2305 Personnel Management	3
BUSI	3337 Business Law	3
THRM	2401 Hospitality Management Co-op I	4
<b>Total</b>		<b>19</b>
Second Semester		Credit Hours
TMAN	2301 Human Relations/Business	3
MATH	1313 College Math*	3
THRM	2315 Hotel/Motel Adm. and Practice	3
ECON	2302 Economic Problems*	3
THRM	2405 Hospitality Management Co-op II	4
<b>Total</b>		<b>16</b>

### Credit Hour Summary

Business	48 Credit Hours
*General Education	15 Credit Hours
Elective	6 Credit Hours
<b>Total</b>	<b>69 Credit Hours</b>

\*\* Electives may be any non-developmental course.

## B.B.A. - Management Major

The program leading to a Bachelor Administration with a management major offers students the opportunity to prepare to supervise personnel and administer production.

### Degree Plan

Course	Credit Hours
Core: 49 hours	
Degree Base: 25 hours	
Bachelor Studies Area	
Business Administration Element	27
Specialization: Management	
MANA 3362 Personnel Management	3
MANA 3364 Organization Theory	3
MANA 4361 Organizational Behavior	3
MANA 4364 Societal Problems in Business	3
MANA 4366 Small Business Management	3
MANA 4368 Industrial Relations	3
Advanced professional electives*	6
<b>Total B.B.A. - Management</b>	<b>125</b>

Advanced professional electives are any advanced level courses offered within the School of Business and Industry.

## Marketing

*Certificate of Proficiency - Management, Associate in Applied Science Degree - Management Development/Retail Management, Bachelor of Business Administration-Marketing*

## Certificate of Proficiency Plan Retail Management

The program leading to a Certificate of Proficiency in Retail Management offers students the opportunity to prepare for the role of department manager in a major retail store, or to acquire management skills needed to start a business. A variety of specialties such as buying, advertising, sales, promotion and fashion merchandising are available. Credit hours earned in the Certificate of Proficiency program apply toward the Associate in Applied Science degree. Students are required to work at a part-time job in a sponsoring firm approved by the Management Development Coordinator. Approval for admission to the program must be obtained from the program coordinator.

### Freshman Year

First Semester	Credit Hours
TMAN 1301 Principles of Marketing	3
TMAN 1310 Financial Math I	3
TCIS 1404 Introduction to Microcomputers	4
TMAN 1101 Job Skills	1
TRLM 1301 Retailing	3
TRLM 2305 Personnel Management	3
<b>Total</b>	<b>17</b>

Second Semester	Credit Hours
TRLM 2315 Small Business Management	3
MANA 3361 Principles of Management	3
TRLM 2301 Advertising/Sales Promotion	3
TRLM 1305 Merchandising/Buying	3
TMAN 1401 Mgmt. Development Co-op Ed. I	4
<b>Total</b>	<b>16</b>
First Summer Session	Credit Hours
TMAN 1405 Mgmt. Development Co-op Ed. II	4
<b>Total</b>	<b>4</b>

### Credit Hour Summary

Business	37 Credit Hours
<b>Total</b>	<b>37 Credit Hours</b>

\* All credit hours earned for the Certificate of Proficiency apply toward the A.A.S. degree.

## A.A.S. – Retail Management

The program leading to the A.A.S. in Retail Management prepares students for the role of department manager in a major retail store, or gives the students management skills needed to start a small business. A variety of specialties such as buying, advertising, sales promotion, fashion merchandising, and credit and collections are available. Students are required to work at a part-time job in a sponsoring firm approved by the Management Development Coordinator. Prior approval for admission to the program must be obtained from the program coordinator.

### Freshman Year

First Semester		Credit Hours
ENGL 1301	English Composition I *	3
TSEC 1105	Keyboarding	1
	Elective**	3
TMAN 1101	Job Skills	1
TRLM 1301	Retailing	3
TMAN 1310	Financial Math I	3
<b>Total</b>		<b>14</b>

Second Semester		Credit Hours
ENGL 1302	English Composition II *	3
MANA 3361	Principles of Management	3
MATH 1313	College Math *	3
TRLM 1305	Merchandising/Buying	3
TMAN 1401	Mgmt. Development Co-op I	4
<b>Total</b>		<b>16</b>

First Summer Session		Credit Hours
TACC 1401	Basic Accounting I	4
TMAN 1405	Mgmt. Development Co-op II	4
<b>Total</b>		<b>8</b>

### Sophomore Year

First Semester		Credit Hours
	Elective**	3
TMAN 2305	Personnel Management	3
ECON 2301	Economic Principles *	3
TMAN 1315	Financial Math II	3
TMAN 2401	Mgmt. Development Co-op III	4
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
TMAN 2301	Human Relations in Business	3
PSYC 2302	Applied Psychology or*	3
SOCI 1301	Sociology *	3
TRLM 2315	Small Business Management	3
TRLM 2301	Advertising/Sales Promotion	3
TMAN 2405	Mgmt. Development Co-op IV	4
<b>Total</b>		<b>16</b>

### Credit Hour Summary

Business	49 Credit Hours
*General Education	15 Credit Hours
Elective	6 Credit Hours
<b>Total</b>	<b>70 Credit Hours</b>

\*\* Electives may be any non-developmental course.

## B.B.A. – Marketing Major

The program leading to a Bachelor of Business Administration with a marketing major offers students the opportunity to acquire skills for careers in sales, or in sales management, retailing, and advertising.

### Degree Plan

Course		Credit Hours
Core		49
Degree Base		25
Bachelor Studies Area		
Business Administration Element		27
Specialization: Marketing		
MARK 3372	Consumer Behavior	3
MARK 3374	Marketing Strategy	3
MARK 3375	Retailing	3
MARK 4371	Sales Management	3
MARK 4372	Promotion Management	3
MARK 4376	International Marketing	3
MARK 4377	Marketing Management	3
MARK 4378	Marketing Research	3
<b>Total B.B.A. - Marketing</b>		<b>125</b>

## INDUSTRIAL EDUCATION DEPARTMENT

*Occupational Training Certificates (OTC) in Air Conditioning and Refrigeration, Auto Body Repair, Automotive Mechanics, Building Trades, Diesel Mechanics, Machine Shop, Welding Certificates of Proficiency in Drafting, Electronics Associate of Applied Science Degrees in Drafting, Electronics*

### OTC – Air Conditioning and Refrigeration

1,320 or 1,980 contact hours

The air conditioning and refrigeration program is a one or one and a half year program (with exit points at 1320 hours and 1980 hours) that offers students the opportunity to prepare to enter the fields of air conditioning, heating, ventilation, and refrigeration system installation, service and repair. Classroom and laboratory work with state of the art equipment, provide students with the opportunity to acquire the technical knowledge and skills and work attitude needed for employment in the Air Conditioning and Refrigeration industry.

Course	Contact Hours
Safety and Lab Practices Projects	175
Co-op or Supervised	300
Basic Refrigeration and Air Conditioning Fundamentals	175
Commercial Air Conditioning Systems	200
Domestic Systems	270
Commercial Refrigeration	190
Residential Air Conditioning Systems	160
Energy Management	100
System Design	100
Solar Systems	100
Duct Fabrication	100
Advanced Systems	110

## OTC – Auto Body Repair

1,320 contact hours

The one-year auto body program offers students the opportunity to develop the skills needed to perform extensive body repairs under minimum supervision. Classroom and laboratory work with the most modern tools and equipment provide students the opportunity to acquire the technical knowledge and skills and the work attitude needed for employment in the auto body damage repair industry.

Course	Contact Hours
Occupational Orientation and Safety	48
Metal Shaping	112
Auto Construction	112
Body Panel Repair	412
Basic Welding	112
Automotive Painting	328
Fiber Glass Repair	112
Auto Body Repair Estimating & Shop Operation	84

## OTC – Automotive Mechanics

1,320 contact hours

The one year automotive mechanics program offers students the opportunity to enter the fields of general or specialized automotive service repair. Classroom and laboratory work with state of the art equipment and sophisticated vehicles provides students the opportunity to acquire the technical knowledge and skills and the work attitude needed for employment in the field of automotive service and repair.

Course	Contact Hours
Occupational Orientation and Safety	30
Chassis	170
Automotive Engines	270
Power Train	160
Fuel and Exhaust Systems	150
Auto Air Conditioning	165
Electricity, Auto-Computer and Electrical Systems	180
Welding	30
Engine Troubleshooting and Tune-up	165

## OTC – Building Trades

1,320 contact hours

The one-year building trades program offers students the opportunity to enter the field of residential construction and repair as a building construction craftsman. Classroom and laboratory work with state of the art equipment provides students the opportunity to acquire the technical knowledge and skills and the work attitude needed for employment in residential construction, the nation's largest industry.

Course	Contact Hours
Occupational Orientation, Safety Tools, Exteriors, & Materials	20
Applied Finishes and Interiors	360
Bricklaying	150
Setting Foundations	100
Architectural Sheet Metal	30
Blueprint Reading and Sheet Specifications	80
Cabinetry	120
Residential Wiring and Plumbing	240
Applied Building Construction	220

## OTC – Diesel Mechanics

1,320 contact hours

The one year diesel mechanics program offers students the opportunity to enter the fields of general or specialized Diesel powered vehicle service and repair. Classroom and laboratory work with state of the art equipment provides students the opportunity to acquire the technical knowledge and skills and the work attitude needed for employment maintaining, diagnosing, servicing and repairing Diesel-powered vehicles and equipment.

Course	Contact Hours
Occupational Orientation and Safety	30
Power Train	160
Fundamentals of Diesel Engines	200
Principles of Air Conditioning	160
Basic Welding	30
Diesel Engine Fuel Injection Systems	160
Service Area	160
Diesel Truck Electrical Systems	180
Fluid Power Technology	160

## OTC – Machine Shop

1,320 contact hours

The one year machine shop program offers students the opportunity to enter the field of manufacturing. Classroom and laboratory work with state of the art equipment provides students the opportunity to acquire the technical knowledge and skills and the work attitude needed for employment in the manufacturing industry.

Course	Contact Hours
Introduction to Machine Shop and Safety Machining	165
Intermediate Machining	240
Computer Numerical Control	270
Basic Machining	255
Advanced Machining	150
Materials and Processes	128
Basic Welding	112

## OTC – Welding

1,320 contact hours

The one year welding program offers students the opportunity to develop the skills needed to meet entry level or higher industrial standards. Classroom and laboratory work provides students the opportunity to acquire technical knowledge and skills and the work attitude needed for employment as a welder in construction, maintenance or fabrication fields.

Course	Contact Hours
Safety and Orientation	30
Gas Metal Arc Welding	200
Arc Welding Plate	300
Math for Welders	90
Arc Welding Pipe	200
Blueprint Reading	150
Oxyacetylene Welding, Cutting and Brazing	60
Layout	90
Gas Tungsten Arc Welding	200

Note: Students who are tested and found lacking basic skills will be referred to available BASK (Basic Academic Skills) laboratory for Occupational and Technical Students on campus. An Occupational and Technical Tutorial Center is also available.

## Drafting Technology

## A.A.S. – Drafting Technology

### Freshman Year

			Credit Hours
<b>First Semester</b>			
MATH	1313	College Math (1)	3
ENGL	1301	Composition I	3
TDRA	1401	Computer Aided Drafting I	4
TDRA	1405	Technical Drafting I	4
TDRA	1415	Electronic Drafting	4
<b>Total</b>			<b>18</b>

			Credit Hours
<b>Second Semester</b>			
ARTS	1316	Drawing I (2)	3
PSYC	2301	Introduction to Psychology	3
TDRA	1410	Technical Drafting II	4
TDRA	1425	Computer Aided Drafting II	4
TDRA	2445	Topographic Drafting	4
<b>Total</b>			<b>18</b>

### Sophomore Year

			Credit Hours
<b>First Semester</b>			
SPCH	1318	Interpersonal Communication (4) Elective	3 1
TDRA	2435	Structural Drafting I	4
TDRA	2455	Surveying I	4
TDRA	2465	Special Projects	4
<b>Total</b>			<b>16</b>

			Credit Hours
<b>Second Semester</b>			
Elective			3
TDRA	2430	Piping	3
TDRA	2440	Structural Drafting II	4
TDRA	2460	Surveying II	4
TDRA	2470	Special Problems	4
<b>Total</b>			<b>19</b>

### Credit Hour Summary

Drafting	52 Credit Hours
General Education	15 Credit Hours
Electives	4 Credit Hours
<b>Total</b>	<b>71 Credit Hours</b>

Notes: MATH 1314 may be substituted; MATH 1316 may be substituted; PSYC 2302, 1314, 2315, or 2316 may be substituted; SPCH 1315, 1321, or 1342 may be substituted.

The two-year curriculum in drafting technology offers students the opportunity to prepare for employment as drafting technicians specializing in architectural, civil, structural, or mechanical disciplines.

### Program Competencies

The drafting program offers students the opportunity to acquire skills to:

- produce correct drawings either manually or computer aided.
- understand the various areas of responsibility within the drafting field needed to produce accurate drawings.
- assume drafting assignments with minimum supervision.
- communicate effectively with employer and staff in order to work in drafting team assignments.

## Certificate of Proficiency – Drafting

### Freshman Year

			Credit Hours
<b>First Semester</b>			
READ	0322	College Reading *	3
MATH	1313	College Math**	3
TDRA	1401	Computer Aided Drafting I	4
TDRA	1405	Technical Drafting I	4
TDRA	1415	Electronic Drafting	4
<b>Total</b>			<b>18</b>

			Credit Hours
<b>Second Semester</b>			
TDRA	1410	Technical Drafting II	4
TDRA	1420	Perspective	4
TDRA	2430	Piping	4
TDRA	2445	Topographic Drafting	4
<b>Total</b>			<b>15</b>

### Sophomore Year

			Credit Hours
<b>First Semester</b>			
TDRA	2435	Structural Drafting I	4
TDRA	2450	Architectural Drafting	4
TDRA	2455	Surveying I	4
TDRA	2465	Special Projects	4
<b>Total</b>			<b>16</b>

### Credit Hour Summary

Drafting	44 Credit Hours
General Education	6 Credit Hours
<b>Total</b>	<b>50 Credit Hours</b>

\*READ 0323 or ENGL 1301 may be substituted.

\*\*MATH 1314 may be substituted.

## Electronics Technology

*Associate in Applied Science Degree, Certificate of Proficiency*

The electronics technology program offers students the opportunity to prepare for careers in fields where broad electronics knowledge and skills are needed for manufacturing, technical writing, and developing, installing or servicing new equipment.

### Program Competencies

The electronics technology program provides students the opportunity to acquire skills to:

- perform basic entry level tasks in the manufacturing or electronics industry.
- benefit from specialized training within industry.
- communicate effectively with managers, engineers and clients.

## Certificate of Proficiency – Electronics

### Freshman Year

First Semester		Credit Hours
READ	0322 College Reading II*	3
TELC	1301 Handskills	3
TELC	1410 Digital I	4
TELC	1435 DC Theory	4
<b>Total</b>		<b>14</b>
Second Semester		Credit Hours
MATH	1313 College Math **	3
TELC	1440 AC Theory	4
TELC	1445 Digital Electronics II	4
TELC	1455 Electronics Communication	4
<b>Total</b>		<b>15</b>
Summer Session I		Credit Hours
TELC	1430 Basic Semiconductors ***	4
<b>Total</b>		<b>4</b>

### Credit Hour Summary

Electronics	27 Credit Hours
General Education	6 Credit Hours
<b>Total</b>	<b>33 Credit Hours</b>

\* READ 0323, ENGL 1301 may be substituted depending upon student ability.  
\*\* MATH 1314 may be substituted. \*\*\*TELC 1430 may not be used in the Electronics Technology A.A.S. Degree Plan.

## A.A.S. – Electronics Technology

### Freshman Year

First Semester		Credit Hours
ENGL	1301 Composition I	3
MATH	1313 College Math *	3
TELC	1301 Handskills	3
TELC	1435 DC Theory	4
TELC	1410 Digital I	4
<b>Total</b>		<b>17</b>
Second Semester		Credit Hours
SPCH	1315 Fundamentals of Speech	3
MATH	1314 College Algebra **	3
TELC	1455 Electronic Communication	4
TELC	1440 AC Theory	4
TELC	1445 Digital II	4
<b>Total</b>		<b>18</b>

### Sophomore Year

First Semester		Credit Hours
PSYC	2301 Introduction to Psychology *** Elective****	3
TELC	2435 Semiconductors I	4
TELC	2460 Electrical Machines	4
TELC	2465 Electro-Optics	4
<b>Total</b>		<b>16</b>
Second Semester		Credit Hours
	Elective****	3
TELC	2425 Computer Maintenance	4
TELC	2430 Introduction to Robotics	4
TELC	2455 Semiconductors II	4
TELC	2470 Instrumentation	4
<b>Total</b>		<b>19</b>

### Credit Hour Summary

Electronics	51 Credit Hours
General Education	15 Credit Hours
Elective	4 Credit Hours
<b>Total</b>	<b>70 Credit Hours</b>

\*MATH 1314 may be substituted; \*\*MATH 1316 may be substituted.  
\*\*\*PSYC 1103, PSYC 0223, PSYC 0233 or PSYC 0253 may be substituted.  
\*\*\*\*Elective: The student may select any course that is relevant to his/her educational goals. Some courses have prerequisites.

## OFFICE OCCUPATIONS DEPARTMENT

### Legal Assisting courses,

*Certificates of Proficiency – Clerical Specialist, Office Specialist, Legal Office Specialist, Word Processing Specialist  
Associate of Applied Science Degrees – Office Specialist, Legal Secretarial, Word Processing Specialist*

UTB offers a variety of programs in office technology. Students may choose to enroll in one of three two-year degree programs that offers students the opportunity to prepare for general secretarial/clerical or specialized office positions, or students may enroll in one of four short-term certificate of proficiency programs that provide students the basic training needed for office clerical employment.

A cooperative work program is available for those students who desire to combine classroom training with on-the-job work experience. Students may earn money, obtain experience, and earn college credit under this cooperative office occupations program.

### Program Objectives

The secretarial program offers students the opportunity to acquire skills to:

- provide secretarial/clerical assistance to employers.
- communicate effectively in person and on the telephone with customers and office personnel.
- assume responsibility for their professional development and ethical standards.
- develop expertise in computer keyboarding, calculating machines, office procedures, word processing and business correspondence.



# SCHOOL OF BUSINESS AND INDUSTRY

## Certificate of Proficiency – Clerical Specialist

### Freshman Year

First Semester		Credit Hours
TSEC 1105	Keyboarding and	
TSEC 1201	Elementary Typing or	
TSEC 1301	Intermediate Typing	3
TSEC 1315	Professional Development	3
TSEC 1305	Business Communications	3
TMAN 1310	Financial Math I	3
<b>Total</b>		<b>12</b>

### Credit Hour Summary

Secretarial	12 Credit Hours
<b>Total</b>	<b>12 Credit Hours</b>

## Certificate of Proficiency – Legal Office Specialist

### Freshman Year

First Semester		Credit Hours
TSEC 1301	Intermediate Typing	3
TSEC 1305	Business Communications	3
TSEC 2315	Word Processing I	3
TSEC 1315	Professional Development	3
TSEC 2325	Legal Documents I	3
<b>Total</b>		<b>15</b>

Second Semester		Credit Hours
TSEC 1325	Advanced Typing	3
TSEC 2320	Business Correspondence	3
TSEC 2330	Word Processing II	3
TSEC 1320	Legal Terminology	3
TSEC 2335	Legal Documents II	3
<b>Total</b>		<b>15</b>

Summer Session		Credit Hours
TSEC 2301	Office Procedures	3
TSEC 1310	Electronic Calculating Machines	3
TSEC 2305	Filing Systems	3
<b>Total</b>		<b>9</b>

### Credit Hour Summary

Secretarial	39 Credit Hours
<b>Total</b>	<b>39 Credit Hours</b>

## Certificate of Proficiency – Office Specialist

### Freshman Year

First Semester		Credit Hours
TSEC 1105	Keyboarding and	
TSEC 1201	Elementary Typing or	
TSEC 1301	Intermediate Typing	3
TSEC 1315	Professional Development	3
TSEC 1305	Business Communications	3
TMAN 1310	Financial Math I	3
<b>Total</b>		<b>12</b>

Second Semester		Credit Hours
TSEC 1301	Intermediate Typing or	
TSEC 1325	Advanced Typing	3
TSEC 2301	Office Procedures	3
TSEC 2315	Word Processing I	3
TSEC 2320	Business Correspondence	3
TSEC 1310	Electronic Calculating Machines	3
TSEC 2305	Filing Systems	3
<b>Total</b>		<b>18</b>

### Credit Hour Summary

Secretarial	30 Credit Hours
<b>Total</b>	<b>30 Credit Hours</b>

## Certificate of Proficiency Word Processing Specialist

### Freshman Year

First Semester		Credit Hours
TSEC 1105	Keyboarding, together with	
TSEC 1201	Elementary Typing, or	
TSEC 1301	Intermediate Typing	3
TSEC 1315	Professional Development	3
TSEC 1305	Business Communications	3
TMAN 1310	Financial Math I	3
<b>Total</b>		<b>12</b>

Second Semester		Credit Hours
TSEC 1301	Intermediate Typing, or	
TSEC 1325	Advanced Typing	3
TSEC 2301	Office Procedures	3
TSEC 2315	Word Processing I	3
TSEC 2320	Business Correspondence	3
TSEC 1310	Electronic Calculating Machines	3
TSEC 2305	Filing Systems	3
<b>Total</b>		<b>18</b>

### Sophomore Year

First Semester		Credit Hours
TSEC 2330	Word Processing II	3
TCIS 1404	Introduction to Microcomputers	4
TACC 1401	Basic Accounting I	4
TSEC 2401	Co-op Education I+	4
<b>Total</b>		<b>15</b>

### Credit Hour Summary

Secretarial	45 Credit Hours
<b>Total</b>	<b>45 Credit Hours</b>

+ Prerequisite: 30 hours in a secretarial program/sophomore standing, 45 WPM typing, and consent of the Office Occupations Co-op Coordinator.

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Programs

## A.A.S. – Legal Secretarial

### Freshman Year

First Semester		Credit Hours
TSEC	1301 Intermediate Typing	3
TSEC	1305 Business Communications	3
TSEC	1315 Professional Development	3
TSEC	2315 Word Processing I	3
SPCH	1321 Business/Professional Communication,* or	
SPCH	1318 Interpersonal Communication *	3
ENGL	1301 Composition I *	3
<b>Total</b>		<b>18</b>

Second Semester		Credit Hours
TSEC	1325 Advanced Typing	3
TSEC	2301 Office Procedures	3
TSEC	2305 Filing Systems	3
TSEC	2330 Word Processing II	3
TSEC	1320 Legal Terminology	3
	Elective **	3
<b>Total</b>		<b>18</b>

### Sophomore Year

First Semester		Credit Hours
MATH	1313 College Math *	3
TSEC	2325 Legal Documents I	3
TSEC	1310 Electronic Calculating Machines, or	
TSEC	2401 Co-op Education I +	4
GOVT	2301 American Government I *	3
	Elective **	3
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
BUSI	2301 Business Law	3
TSEC	2335 Legal Documents II	3
PSYC	2301 Introduction to Psychology *	3
TSEC	1330 Law Office Management	3
TSEC	2320 Business Correspondence, or	
TSEC	2405 Co-op Education II +	4
<b>Total</b>		<b>16</b>

### Credit Hour Summary

Secretarial	45-47 Credit Hours
*General Education	15 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>66-68 Credit Hours</b>

\*\* Electives may be any non-developmental course.

+ Prerequisite: 30 hours in a secretarial program/sophomore standing, 45 WPM typing, and consent of the Office Occupations Co-op Coordinator.

Programs

## A.A.S. – Office Specialist

### Freshman Year

First Semester		Credit Hours
TSEC	1105 Keyboarding and	
TSEC	1201 Elementary Typing, or	
TSEC	1301 Intermediate Typing	
TSEC	1315 Professional Development	
ENGL	1301 Composition I *	
TCIS	1404 Introduction to Microcomputers	
	Elective **	
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
MATH	1313 College Math *	3
TSEC	1301 Intermediate Typing or	
TSEC	1325 Advanced Typing	3
TSEC	2301 Office Procedures	3
TSEC	1310 Electronic Calculating Machines	3
TSEC	2305 Filing Systems	3
	Elective **	3
<b>Total</b>		<b>18</b>

### Sophomore Year

First Semester		Credit Hours
TSEC	1305 Business Communications	3
TSEC	1325 Advanced Typing	3
TSEC	2315 Word Processing I	3
SPAN	2316 English-Spanish Translation *	3
TACC	1401 Basic Accounting I, or	
TSEC	2401 Co-op Education I +	4
<b>Total</b>		<b>16</b>

Second Semester		Credit Hours
PSYC	2301 Introduction to Psychology *	3
TSEC	2320 Business Correspondence	3
TSEC	2330 Word Processing II	3
SPCH	1321 Business/Professional Communication,* or	
SPCH	1318 Interpersonal Communication *	3
TACC	1405 Basic Accounting II, or	
TSEC	2405 Co-op Education II +	4
<b>Total</b>		<b>16</b>

### Credit Hour Summary

Secretarial	45 Credit Hours
*General Education	15 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>66 Credit Hours</b>

\*\* Electives may be any non-developmental courses.

+ Prerequisite: 30 hours in a secretarial program/sophomore standing, 45 WPM typing, and consent of the Office Occupations Department Chair.

## A.A.S. – Word Processing Specialist

### Freshman Year

First Semester	Credit Hours
TSEC 1301 Intermediate Typing	3
TSEC 1305 Business Communications	3
TSEC 1315 Professional Development	3
ENGL 1301 Composition I *	3
TCIS 1404 Introduction to Microcomputers	3
<b>Total</b>	<b>16</b>

Second Semester	Credit Hours
MATH 1313 College Math *	3
TSEC 1325 Advanced Typing	3
TSEC 2301 Office Procedures	3
TSEC 2305 Filing Systems	3
PSYC 2301 Introduction to Psychology *	3
Elective **	3
<b>Total</b>	<b>18</b>

### Sophomore Year

First Semester	Credit Hours
TMAN 1310 Financial Math I	3
TACC 1401 Basic Accounting I	3
TSEC 2315 Word Processing I	3
TSEC 1310 Electronic Calculating Machines	3
TSEC 2401 Co-op Education I +	4
Elective **	3
<b>Total</b>	<b>20</b>

Second Semester	Credit Hours
TSEC 2320 Business Correspondence	3
TSEC 2330 Word Processing II	3
SPCH 1321 Business/Professional Communication,* or	
SPCH 1318 Interpersonal Communication*	3
TSEC 2405 Co-op Education II +	4
Approved Elective ***	3
<b>Total</b>	<b>16</b>

### Credit Hour Summary

Secretarial	49 Credit Hours
*General Education	12 Credit Hours
Electives	9 Credit Hours
<b>Total</b>	<b>70 Credit Hours</b>

\*\* Electives may be any non-developmental courses.

\*\*\* Approved General Education/Liberal Arts Courses: SPAN 1373, GOVT 2301, 1301, SOCI 1301 or other approved elective.

+ Prerequisite: 30 hours in a secretarial program/sophomore standing, 45 WPM typing, and consent of the Office Occupations Department Chair.

The School of Education, to promote the development of an educational system responsive to changing conditions, is committed to innovative approaches in preparing teachers and other professional personnel. In its programs, the school offers prospective teachers and professional personnel the opportunity to explore educational practice and thought. Additionally, because of the culture of the Lower Rio Grande Valley, students are provided opportunity to observe and work in a wide variety of unique educational settings.

The faculty of the school share the conviction that teaching is a profession and that teacher education represents the preparation for that profession. In cooperation with teaching professionals in the field and state and local governmental agencies and other schools of the University, this school, through a combination of academic and practical preparation, aspires to:

- prepare well-qualified professionals at the undergraduate, graduate and post-graduate level for service in educational systems and agencies.
- contribute through scholarly activities to the knowledge base upon which the practice of the profession rests.
- provide leadership and experience to model effective educational practices, and in collaboration with local school systems and agencies to solve educational problems.
- demonstrate innovative and progressive teaching through the University's programs.
- provide equal educational opportunity for the diverse cultures of southern Texas.
- improve teacher education through both traditional and innovative programs.

## SCOPE OF TEACHER EDUCATION PROGRAMS

The School of Education offers teacher education programs required for certification at the elementary, secondary and graduate level. The teacher education program for provisional teacher certification includes academic specializations and teaching fields in subjects approved to be taught in the public schools of Texas or delivery systems as authorized by the State Board of Education for use in the public schools of Texas.

UTB provides, within the curriculum sequence for each academic specialization, teaching field, or delivery system, instructional components in response to academic program descriptors identified by the Commission on Standards for the Teaching Profession and approved by the State Board of Education.

For the Provisional Teacher Certificate, each academic specialization, teaching field, and delivery system complies with one or more options listed under the three different levels, Elementary, Secondary, and All-Level.

The teacher education program provides, within a baccalaureate program, the following three dimensions of curricula:

- General Education Curriculum (i.e., General

- Requirements or University College);
- Professional Development Sequence designed for specific roles in public school teaching (i.e., elementary, secondary, all-level); and
- Teaching Specialty Curriculum (i.e., academic specialization and/or Delivery System) designed for Texas public school instruction.

The General Education Curriculum applies to all provisional teacher certificates and provisional special education certificates which are based on an approved teacher education program. Specialization in one or more academic areas is built upon the General Education Curriculum.

In addition to teacher certification programs, the School of Education offers the following related programs: the Bachelor of Arts in Liberal Arts and Sciences (BALAS), delivery system majors that compliment the Bachelor of Arts and Bachelor of Science programs offered by other Schools and Colleges, a non certification Bachelor of Science in Kinesiology/Exercise Science program, an Associate in Applied Science program in Child Care and Development, and a Certificate of Proficiency program in Child Care and Development.

The programs of the School of Education and related courses are coordinated by the following Departments. Contact the appropriate Department for assistance and further information.

### Education Department

- Elementary Education Programs
- Secondary Education Programs
- Bilingual Education and ESL Programs
- Early Childhood Programs
- Special Education Programs
- Guidance and Counseling Program
- Educational Administration Program
- Instructional Supervision Program
- Child Care and Development Programs

### Reading Department

- Reading Programs

### Kinesiology Department

- Kinesiology/Exercise Programs

## Certificate Procedures

**Admission to Teacher Education:** Students wishing to pursue work towards an undergraduate teaching certificate must apply for admission to the Teacher Education Program during the first semester of their junior year. Admission to teacher education is required of all students seeking provisional elementary or secondary certification and is separate department from admission to the University. In addition, secondary education majors must contact the College of Liberal Arts, School of Math and Science, or the Department of Business Administration for advisement toward a degree in the appropriate teaching area. Prospective students are required to contact the Education Department before making plans to enter the teacher education program. Before being admitted to teacher education, a student must:

- file an official application for admission to teacher education, forms are provided;

- have reached junior status (60 semester hours or more) and met the General Requirements for a Bachelor's degree (see degree requirements);
- have an overall 2.0 grade point average;
- have successfully completed the Texas Academics Skills Program test (TASP).

The Teacher Education Committee will review the candidate's application and inform the student that admission has been granted or denied. It shall be understood that approval of an application does not constitute subsequent recommendation for a certificate to teach. Such recommendation is contingent upon continued demonstration of success as a prospective teacher and completion of all certification requirements. Students denied admission may, after completion of an additional 15 semester hours at UTB, file a second application at which time he/she will be obliged to appear personally before the Teacher Education Committee.

**Certificate requirements:** Teacher certification in Texas is provided through the Texas Education Agency upon completion of an approved teacher education program from a Texas institution of higher education or through an approved alternative teacher certification program. There are also provisions for certification of individuals educated out of state. A Texas State Board of Education rule requires an individual to have the following qualifications to receive certification.

- Be at least 18 years of age.
- Be of good moral character as evidenced by statements of three individuals or be recommended by a Texas senior college, and be clear of a felony or misdemeanor conviction for a crime which is directly related to the duties and responsibilities of the teaching profession. For additional information contact the UTB Certification Officer.
- Be willing to support and defend the constitutions of the United States and Texas.
- Have college credit or examination credit in knowledge of the Texas and federal constitutions and United States history.
- Be able to speak and understand the English language sufficiently to use it easily and readily in conversation and teaching.
- Achieve a satisfactory level of performance on the Examination for the Certification of Educators in Texas (ExCET). This requirement applies to all provisional, professional, superintendent or other administrative certificates and those applicants holding a valid out-of-state certificate.

The certification programs at UTB were developed to meet the requirements of the 1987 Standards and Texas Education Code, Sections 13.036 - 13.039. All students applying for certification must meet 1987 Standards and the requirements of Senate Bill 994.

Applicants for certification must file an official degree plan; complete all degree and certification requirements as specified on the degree plan; maintain a 2.00 GPA in all college work, a 2.25 average in the major and minor field and a 2.25 GPA in all professional education courses.

For information on the various classes of certification refer to Title 19, Part II, Texas Administrative Code and the Texas Education Code, or contact the UTB Certification Officer.

## Directed Teaching

Directed teaching is required in partial fulfillment of the requirements for a provisional (life) certificate in Texas. This experience is provided by assigning senior level student teachers to work in classroom situations with regular teachers for one full semester. Students should be aware that no more than six hours of other course work may be taken concurrently with directed teaching. Before applying for Directed Teaching, a student must be aware of the following prerequisites:

- Senior standing (90 semester hours).
- All required general education courses completed with at least a 2.25 GPA and no grade lower than C in freshman English and College Algebra.
- At least a 2.50 GPA in the teaching fields.
- At least a 2.25 GPA in all university courses.
- Completion of required professional education courses as specified by the individual degree plan with a 2.50 GPA with no grade lower than C.
- Completion of required major and minor courses as specified by the individual degree plan.
- Completion of 45 clock hours in field experiences prior to student teaching (includes observations and working with students in a TEA accredited school). Students are required to register during the first three weeks of any semester prior to student teaching with the Director of Field Experience office.

The assignments for Directed Teaching will be as follows:

### Elementary Education

- Students seeking only the base certificate (i.e., elementary without endorsements) will be given an all-day 12-week assignment.
- Students seeking a certificate and endorsement (i.e., ESL) will be assigned an all-day six-week placement in the base certificate and an additional all-day six-week placement in the endorsement sought.

### Secondary Education

- Secondary students seeking a certificate in a single 36-hour or 48-hour major will receive an all-day 12-week placement.
- Secondary students seeking certification in two 24-hour fields will be assigned an all-day 12-week placement for the two fields. Each additional endorsement will require an additional all-day six-week placement.

### All-Level

- All-level majors will receive an all-day six week placement in each level for a total of 12 weeks. Each additional teaching field or endorsement will require an additional all-day six-week placement.

**Application Procedure:** The following application procedure is to be followed in order to be considered for Directed Teaching. Students need to be aware that the application process for Directed Teaching is separate from the application for admission to teacher education.

- File an official application form which is available in the Teacher Education Center.
- Attach an up-to-date unofficial UTB transcript. Have official transcripts for work from other institutions which does not appear on the UTB transcript sent to the Enrollment Office, UTB, 80 Fort Brown, Brownsville, Texas 78520-4993, Teacher Education Center.
- Attach a copy of your degree plan. A copy of your degree plan can be obtained from the UTB Certification Office. If you do not have an official, signed degree plan on file you need to contact a department advisor or the academic counselor as soon as possible.
- The student's completed application with required attachments must be submitted to the Teacher Education Center office by March 15 for fall semester or by October 15 for spring semester.
- The Teacher Education Committee will review each application and students will be notified by mail of action taken.

## Alternative Certification Program

The Alternative Certification Program (ACP) is a cooperative endeavor with area public schools designed to help relieve current teaching shortages. The UTB program is one of 23 programs in Texas. The continuation of this program is contingent upon the annual approval from the Texas State Board of Education and Texas Education Agency. **Program requirements are subject to change.** Individuals interested in the program should contact the ACP Office for latest program prerequisites and deadlines.

**Prerequisites for Entry:** The following prerequisites must be met prior to receiving a Letter of Eligibility for Employment and permission to enroll in EDCI 4620 Internship. Prospective interns must secure employment in a public school district in the area of certification by the announced August deadline.

- A Baccalaureate Degree from an accredited institution.
- An overall 2.5 GPA based on a 4.0 system.
- Applicants are required to have:

**Secondary:** 24 semester hours (12 advanced) in the field of certification; **Elementary, Bilingual, or Special Education:** 24 semester hours in a combination of English, Mathematics, Science and Social Science; **E.S.L. -** 18 semester hours of English, (six advanced). A 2.5 GPA is necessary for courses used in meeting this requirement.

A passing score on the TASP.

**Secondary Education (Grades 6-12):** Complete EDCI 4308, and READ 4351

**Elementary Education (Grades PK-5):** Complete READ 3323, EDCI 4306 and EDEC 4391 or EDEC 4392

**Bilingual Education (Grades PK-6):** Complete EDCI 3324, 4304 and 3315, plus a language proficiency test (oral and

written)

**Special Education (Grades PK-12):** Complete SPED 4303, SPED 4307 and SPED 4372

**E.S.L. (Grades PK-12):** Complete EDCI 3324, and 4304

- Attend an orientation workshop plus meetings and seminars as required.
- Complete and document 45 clock hours of field experience through the Office of Field Experience.

**Completion Requirements:** Upon completion of entry requirements and approval as an intern, the following must be accomplished within one calendar year.

- After completing prerequisites for entry and securing a teaching position with a public school district, the intern will be required to complete a 45 clock hour workshop arranged by the university and delivered by the school district. Workshops will be held in early August.
- One year of teaching internship (EDCI 4620 and 4621) under the supervision of a university supervisor and a Level 2 mentor teacher from the school district of employment.
- Successful completion of additional courses:  
Secondary - EDCI 4303  
Elementary - EDCI 4302, and READ 3326  
Bilingual - EDCI 4302, and EDCI 3316  
Special Education - READ 3327, SPED 4301, SPED 4309, and SPED 4371  
E.S.L. - READ 4367, EDCI 3332, and EDCI 4302
- Attendance at seminars as required by the school district or the ACP office.
- Passing scores on the required ExCET and TOPL examinations.
- Completion of all required district and ACP office paperwork and settlement of all financial obligations.
- Participating interns will be responsible for paying all their own travel, subsistence and all program costs, including tuition and regular student fees. In addition the school district will deduct \$1,000 from the regular salary of the intern for mentor teacher payment and to defray part of the Alternative Certification Program cost for the university.

**Upon completion of all requirements, including the filling out of the certification application and bringing a \$35.00 money order, (made out to the T.E.A.) the ACP office will process and forward appropriate application and forms to the Texas Education Agency for certification.**

## SEQUENCE OF TEACHER EDUCATION PROGRAMS

### General Education Curriculum

*(Equivalent to: General Requirements or Core curriculum)*

#### Humanities (24 hours)

Course	Credit Hours
Freshman English	6
Sophomore Literature	6
Foreign language	6
Speech	3
Art	3
<b>Total</b>	<b>24</b>

#### Science and Mathematics (11 hours)

College Algebra or higher level mathematics (grade "C" or higher)	3
Laboratory science**	8
<b>Total</b>	<b>11</b>

#### Computer Literacy (3 hours)

Computer Literacy	3
<b>Total</b>	<b>3</b>

#### Kinesiology (4 hours)

Kinesiology	4
<b>Total</b>	<b>4</b>

#### Social Science (18 hours)

American History	6
American Government	3
Texas Government	3

6 semester hours from any two of these areas:  
anthropology, economics, psychology, sociology

<b>Total</b>	<b>18</b>
<b>Grand Total</b>	<b>60</b>

\*\*consult advisor for special requirements for elementary education.

## Academic Teaching Fields and Delivery Systems - Elementary

### Elementary - Provisional

Arts (Option II)	Life/Earth Science (Option III)
Bilingual Education (Option III)	Mathematics (Option II)
Biology (Option II)	Music (Option II)
Early Childhood (Option IV)	Physical Science (Option III)
English (Option II)	Reading (Option II)
Generic Special Ed. (Option III)	Social Studies (Option III)
History (Option II)	Spanish (Option II)
Kinesiology (Option II)	

The applicable Options II to IV for the academic specialization teaching fields and delivery systems for the Provisional Teacher Certificate-Elementary are as follows:

- Option II (grades 1-8) requires:
  - One 18-semester-hour (nine semester hours advanced courses) academic specialization; and
  - 18 semester hours in a combination of subjects taught in elementary grades. Six semester hours of advanced courses in reading are included unless reading is selected as the academic specialization.
- Option III (grades 1-8 unless otherwise specified) requires:
  - One 24-semester-hour (12 semester hours upper-division courses) delivery system or academic specialization in life-earth science, physical science, or social studies; and
  - Six semester hours in a combination of subjects taught in elementary grades and six semester hours of advanced courses in reading.
- Option IV (pre-kindergarten to grade 6) requires:
  - One 24-semester-hour (12 semester hours advanced courses) delivery system emphasizing instructional areas designed for early childhood education; and
  - 12 semester hours in a combination of subjects taught in elementary grades. Six semester hours of advanced courses in reading are included in the professional development sequence.

## Types of Combination of Subjects for Elementary Teacher Certifications

Programs

### Professional Development Sequence

EDCI 4301 Foundations of Education	3
EDCI 4302 Educational Psychology in Elem. School	3
EDCI 4305 Inst. Planning and Curriculum Dev.	3
EDCI 4306 Inst. Methodology and Classroom Mgmt.	3
EDCI 4611 Student Teaching-Elementary	6
(for Early Childhood: EDCI 4311, 4312.	
for Generic Special Ed.: SPED 4313, EDCI 4311	
for ESL: EDCI 4310, EDCI 4311)	
<b>Total</b>	<b>15</b>

### Combination of Subjects "A" - for Option II 18 hours

GEOG 3334 World Geography	3
INDS 3301 Theories of Knowledge	3
INDS 3303 Culture and Humanity: Human Diversity in Cross Cultural Perspective	
or	
INDS 3304 Frontier Studies: The U.S.-Mexico Border	3
READ 3323 Developmental Reading in the Elem. School	3
READ 3329 Correcting Reading Problems	3
MATH 1375 Mathematical Concepts I	
or	
MATH 1336 Mathematical Concepts II	
or higher Math Course	3
<b>Total</b>	<b>18</b>

## Combination of Subjects (B) - for Option III and IV 12 hours

GEOG	3334	World Geography	3
INDS	3301	Theories of Knowledge	
		or	
INDS	3303	Culture and Humanity: Human Diversity in Cross Cultural Perspective	3
READ	3323	Developmental Reading in the Elem. School	3
READ	3329	Correcting Reading Problems	3
<b>Total</b>			<b>12</b>

## Combination of Subjects (C) - Reading Certifications only 18 hours

GEOG	3334	World Geography	3
INDS	3301	Theories of Knowledge	3
INDS	3303	Culture and Humanity: Human Diversity in Cross Cultural Perspective	3
INDS	3304	Frontier Studies: The U.S.-Mexico Border	3
KINE	3356	Aesthetics (Harmony) of Movement	3
MATH	1335	Mathematical Concepts I	
		or	
MATH	1336	Mathematical Concepts II or a higher Math Course	3
<b>Total</b>			<b>18</b>

## Academic Disciplines

### Art: Elementary Option II (based on B.A.L.A.S.)

<b>Course</b>			<b>Credit Hours</b>
Academic Specialization: 21 hours			
ARTS	1316	Drawing I	3
ARTS	1311	Two Dimensional Design	3
ARTS	1312	Three Dimensional Design	3
ARTS	3381	Perception and Expression in Art I	3
ARTS	4353	American Art	3
Six semester hours:			
Advanced Studio or Art History			6
Combination of Subjects "A"			18

### Art: Elementary Option II (based on B.A. - Art Minor)

<b>Course</b>			<b>Credit Hours</b>
Academic Specialization: 24 hours			
ARTS	1303	Art History Survey I	3
ARTS	1316	Drawing I	3
ARTS	1311	Two Dimensional Design	3
ARTS	1312	Three Dimensional Design	3
ARTS	3381	Perception and Expression in Art I	3
ARTS	4353	American Art	3
Six semester hours in Advanced Studio or Art History			6
Combination of Subjects "A"			18 hours

## Biology: Elementary Option II (based on B.A.L.A.S.)

<b>Course</b>			<b>Credit Hours</b>
Academic Specialization: 19-20 hours			
BIOL	1408	General Biology I	4
BIOL	1409	General Biology II	4
		or	
BIOL	2401	Human Anatomy & Physiology	4
BIOL	3409	Ecology	4
7-8 hours from:			7-8
BIOL	3303	Genetics	3
BIOL	3408	Plant Morphology	3
BIOL	3412	Cell Biology	3
BIOL	4314	Plant Taxonomy	3
BIOL	4402	Marine Zoology	3
BIOL	4307	Herpetology	3
BIOL	4410	Marine Botany	3
Combination of Subjects "A"			18

## Biology: Elementary Option II (based on B.S. Biology)

<b>Course</b>			<b>Credit Hours</b>
Academic Specialization: 30-32 hours			
BIOL	1408	General Biology I	4
BIOL	1409	General Biology II	4
BIOL	2401	Human Anatomy & Physiology	4
BIOL	3303	Genetics	3
BIOL	3408	Plant Morphology	4
BIOL	3412	Cell Biology	4
BIOL	4100	Biology Seminar	1
6-8 hours from:			6-8
BIOL	3409	Ecology	3
BIOL	4314	Plant Taxonomy	3
BIOL	4402	Marine Zoology	3
BIOL	4309	Herpetology	3
BIOL	4410	Marine Botany	3
Combination of Subjects "A"			18

## English: Elementary Option II (based on B.A.L.A.S.)

<b>Course</b>			<b>Credit Hours</b>
Academic Specialization: 24 hours			
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
6 hours from:			6
ENGL	2322	British Literature I	3
ENGL	2323	British Literature II	3
ENGL	2331	World Literature I	3
ENGL	2332	World Literature II	3
ENGL	2326	American Literature I	3
ENGL	2327	American Literature II	3
ENGL	2372	Selected Studies in Literature	3
ENGL	2339	Introduction to Literature	3

ENGL	3319	Intro. to Descriptive Linguistics	3
3 hours from:			3
ENGL	3312	Survey of American Literature I	3
ENGL	3313	Survey of American Literature II	3
ENGL	4310	American Literature of the South	3
ENGL	4316	Mexican-American Literature	3



3 hours from:	
ENGL 3330 English Grammar	
ENGL 4325 Composition Techniques	
ENGL 4327 Reading	
3 hours from:	
ENGL 3305 The Romantic Period	
ENGL 4301 Shakespeare	
ENGL 4303 The Bible as Literature	
ENGL 4312 Milton	
Combination of Subjects "A"	18

## English: Elementary Option II (based on B.A. English)

Course	Credit Hours
Academic Specialization: 36 hours	
ENGL 1301 Composition I	3
ENGL 1302 Composition II	3
6 hours from:	6
ENGL 2322 British Literature I	
ENGL 2323 British Literature II	
ENGL 2331 World Literature I	
ENGL 2332 World Literature II	
ENGL 2326 American Literature I	
ENGL 2327 American Literature II	
ENGL 2374 Selected Studies in Literature	
ENGL 2339 Introduction to Literature	
ENGL 3319 Introduction to Descriptive Linguistics	3
ENGL 3330 English Grammar	3
ENGL 4325 Composition Techniques	3
ENGL 4301 Shakespeare	3
3 hours from:	3
ENGL 4327 Reading	
ENGL 4328 Introduction to English as a Second Language	
9 hours from:	9
ENGL 3312 Survey of American Literature I	
ENGL 3313 Survey of American Literature II	
ENGL 4310 American Literature of the South	
ENGL 4316 Mexican-American Literature	
ENGL 3305 The Romantic Period	
ENGL 4303 The Bible as Literature	
ENGL 4312 Milton	
Combination of Subjects "A"	18

## History: Elementary Option II (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 18 hours	
HIST 1301 United States to 1877	3
HIST 1302 United States since 1877	3
6 hours from:	6
HIST 3313 American Colonial Era to 1783	
HIST 3324 Formative Period of Am. Nation 1783-1840	
HIST 4303 The Emergence of Modern America, 1877-1917	
HIST 4313 Twentieth Century America, 1917- Present	
HIST 4343 Era of Sectional Conflict 1840-1877	
3 hours from:	3
HIST 4370 The Renaissance and Reformation, 1300-1650	
HIST 4375 Absolutism and Enlight. in Europe, 1650-1789	
HIST 4376 Revolutionary Europe, 1789-1850	

3	HIST 4393 Europe from 1919 to present	
	HIST 4395 Special Topics in Historical Study	3
3 hours from:		
	HIST 3333 Colonial Mexico, Central and South America	
3	HIST 4353 History of Mexican Culture	
	HIST 4355 Spanish South America since Independence	
	Combination of Subjects "A"	18

## History: Elementary Option II (based on B.A. History)

Course	Credit Hours
Academic Specialization: 30	
HIST 1301 United States to 1877	3
HIST 1302 United States since 1877	3
HIST 2301 Texas History	3
HIST 2321 Western Civilization to 1600	3
HIST 2322 Western Civilization since 1600	3
6 Approved upper-division hours of History 15 hours; must include at least 3 hours from each:	
<i>American:</i>	3-9
HIST 3313 American Colonial Era to 1783	
HIST 3324 Formative Period of the Am. Nation 1783-1840	
HIST 4303 The Emergence of Modern America, 1877-1917	
HIST 4313 Twentieth Century America, 1917 to present	
HIST 4343 Era of Sectional Conflict 1840-1877	
<i>European:</i>	3-9
HIST 4370 The Renaissance and the Reformation, 1300- 1650	
HIST 4375 Absolutism and Enlighten. in Europe, 1650-1789	
HIST 4376 Revolutionary Europe, 1789-1850	
HIST 4393 Europe from 1919 to present	
HIST 4395 Special Topics in Historical Study	
<i>Latin American:</i>	3-9
HIST 3333 Colonial Mexico, Central and South America	
HIST 4353 History of Mexican Culture	
HIST 4355 Spanish South American since Independence	
Combination of Subjects "A"	18

## Kinesiology: Elementary Option II (based on B.A.L.A.S. or Minor)

Course	Credit Hours
Academic Specialization: 19	
KINE Activity Courses	4
KINE 1306 First Aid	3
KINE 3311 Psychological Behavior in Sports	3
KINE 3314 Dance for Children & Adolescents	3
KINE 3317 Theory of Gymnastics	3
KINE 3320 History & Prin. of Sport and Movement Science	3
Combination of Subjects "A"	18

## Life/Earth Science: Elementary Option II (based on Biology Minor)

Course	Credit Hours
Academic Specialization: 27	
8 hours Biology from:	8
BIOL 1408 General Biology I	
BIOL 1409 General Biology II	
BIOL 2401 Human Anatomy & Physiology or	
BIOL 2428 Comparative Vertebrate Anatomy	
8 hours Geology:	8
GEOL 1403 Physical Geology	

GEOL 1404 Historical Geology	11
11 hours from advanced Biology from:	
BIOL 3303 Genetics	
BIOL 3408 Plant Morphology or	
BIOL 4410 Marine Botany	
BIOL 3409 Ecology or	
BIOL 4402 Marine Zoology	
Combination of Subjects "A"	18

### Mathematics: Elementary Option II (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 21	
MATH 1314 College Algebra	3
MATH 1316 Trigonometry	3
MATH 1348 Analytical Geometry	3
or	
MATH 2313 Calculus I	
MATH 3303 History of Mathematics	3
MATH 3305 Euclidean and Transformational Geometry	3
6 hours from:	
MATH 3302 Vector Analysis	3
MATH 3312 Basic Measurement and Informal Geometry	3
MATH 4302 Theory of Numbers	3
MATH 4339 Mathematical Statistics I	
MATH 4351 Modern Algebra	
Combination of Subjects "A"	18

### Mathematics: Elementary Option II (based on B.S. Mathematics)

Course	Credit Hours
Academic Specialization: 33 hours	
MATH 1316 Trigonometry	3
MATH 1348 Analytical Geometry	3
MATH 2313 Calculus I	3
MATH 2314 Calculus II	3
MATH 2318 Linear Algebra	3
MATH 3305 Euclidean and Transformational Geometry	3
MATH 3347 Calculus III	3
MATH 4351 Modern Algebra	3
9 hours from:	
MATH 3302 Vector Analysis	
MATH 3303 History of Mathematics	
MATH 3349 Differential Equations	
MATH 3373 Discrete Structures	
MATH 4302 Theory of Numbers	
MATH 4339 Mathematical Statistics I	
MATH 4340 Mathematical Statistics II	
MATH 4348 Linear Algebra	
MATH 4357 Real Analysis	
MATH 4364 Special Problems in Mathematics	3
COSC 3333 Data Structures	
or	
COSC 3350 Numerical Methods	
Combination of Subjects "A"	18

### Music: Elementary Option II (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 23 hours	
MUSI 1311 Music Theory	
MUSI 1308 Music Literature I	
MUSI 1116 Ear Training and Sight Singing I	
MUSI 1263 Improvisation	
MUSI 1168 Brass Class I	
MUSI 1170 Percussion Class I	
MUSI 1166 Woodwind Class I	
MUSI 1172 Strings Class I	
Applied Music (2 courses upper division)	
Ensemble (2 course upper-division)	
MUSI 3301 Essential Elements of Music I	
MUSI 3312 Essential Elements of Music II	
Combination of Subjects "A"	

### Physical Science: Elementary Option III (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 30	
PHYS 1301 General Physics I	
PHYS 1302 General Physics II	
or	
PHYS 1415 Physical Science I	
PHYS 1417 Physical Science II	
CHEM 1311 General Chemistry I	
CHEM 1312 General Chemistry II	
GEOL 1403 Physical Geology	
or	
GEOL 1404 Historical Geology	
10 hours from one of the two disciplines (CHEM or PHYS)	
CHEM 3301 Inorganic Chemistry	
CHEM 3402 Quantitative Analysis	
CHEM 3403 Biochemistry	
or	
PHYS 3402 Modern Physics	
PHYS 4301 Topics in Modern Physics*	
*Course may be repeated for credit if topic is different.	
Combination of Subjects "B"	18

### Social Studies: Elementary Option III (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 45 hours	
GOVT 2301 American Government I	3
GOVT 2302 American Government II	3
GOVT 2304 Introduction to Political Science	3
9 hours from upper-division Political Science	
(3 hours each from 3 of the following 4 groups)	
<i>American Government and Politics:</i>	
GOVT 3185 Legal Internship	
GOVT 3314 American State and Local Government	
GOVT 3360 American Minority Politics	
GOVT 4320 American Constitutional Law: Federalism	
GOVT 4321 American Constitutional Law: Civil Liberties	
GOVT 4360 American Executive Process and Policy Outputs	
GOVT 4363 American Legislative Process	

## Delivery Systems

### Bilingual Education: Elementary Option III (based on B.A.L.A.S.)

GOVT	4367	American Judicial Process	
GOVT	4384	Seminar in Local Government Problems I	
<i>Contemporary Government and International Politics:</i>			
GOVT	3322	Politics of Emerging Nations	
GOVT	3343	International Politics	
GOVT	4383	Politics of Mexico, Central America and Caribbean	
GOVT	4386	South American Politics	
<i>Political Theory:</i>			
GOVT	3331	Methods of Political Science Research	
GOVT	4332	American Political Theory	
<i>Public Administration:</i>			
GOVT	3323	Introduction to Public Administration	
GOVT	3324	Government Organization and Admin. Theory	
GOVT	4312	Urban and Metropolitan Planning	
GOVT	4365	American Administrative Process or other approved upper-level GOVT courses and	
HIST	1301	United States to 1877	3
HIST	1302	United States since 1877	3
HIST	2301	Texas History	3
9 hours from upper-division History			
(3 hours each from the following 3 groups)			
<i>American (U.S.):</i>			
HIST	3313	American Colonial Era to 1783	
HIST	3324	Formative Period of American Nation, 1783-1840	
HIST	4303	The Emergence of Modern America, 1877-1917	
HIST	4313	Twentieth Century America, 1917 to the Present	
HIST	4343	Era of Sectional Conflict, 1850-1877	
<i>Latin American:</i>			
HIST	3333	Colonial Mexico, Central and South America	
HIST	4353	History of Mexican Culture	
HIST	4355	Spanish South America since Independence	
<i>European:</i>			
HIST	4370	The Renaissance and the Reformation, 1300-1650	
HIST	4375	Absolutism/ Enlightenment in Europe, 1650-1789	
HIST	4393	Contemporary Europe, 1919 to Present and other approved upper-level HIST courses	
ECON	1303	Consumer Economics	3
GEOG	3333	Latin-American Geography	3
GEOG	3334	World Geography	3
Combination of Subjects "B"			(12 hours)

### Spanish: Elementary Option II (based on B.A.L.A.S.)

Course		Credit Hours	
Academic Specialization: 24 hours			
SPAN	1313	Elementary Span. as a Second Language I*	3
SPAN	1314	Elementary Span. as a Second Language II*	3
SPAN	2311	Intermediate Spanish I	3
SPAN	2312	Intermediate Spanish II	3
SPAN	3303	Advanced Spanish Composition	3
or			
SPAN	3304	Advanced Spanish Composition	
SPAN	3306	Basic Concepts of Span. Phonetics & Phonology	3
SPAN	3330	Spanish Grammar	3
SPAN	4303	Spanish Civilization	3
Combination of Subjects "A"			(18 hours)

\*or the equivalent courses for native speakers of Spanish

Course		Credit Hours	
Academic Specialization: 24 hours			
Academic Element:			
EDCI	3305	Socio-Cultural Foundations of Education	3
EDCI	3316	Teaching Spanish Reading in Biling. Classroom	3
EDCI	3322	Foundations of Bilingual Education	3
EDCI	4304	First Lang. Learning/Second Lang. Acquisition	3
ENGL	3319	Introduction to Descriptive Linguistics	3
SPAN	3330	Spanish Grammar	3
Methodology Element:			
EDCI	3315	The Bilingual Curriculum in the content Areas	3
EDCI	3324	English as a Second Language	3
Combination of Subjects "B"			12
Select one of the following Supporting Components:			
English:	(Six hours must be advanced)	21	
ENGL	113	Composition I	3
ENGL	123	Composition II	3
6 hours from:			6
ENGL	2322	British Literature I	
ENGL	2323	British Literature II	
ENGL	2331	World Literature I	
ENGL	2332	World Literature II	
ENGL	2326	American Literature I	
ENGL	2374	Selected Studies in Literature	
ENGL	2339	Introduction to Literature	
9 hours from:			9
ENGL	3301	Medieval Literature	
ENGL	3312	Survey of American Literature	
ENGL	3313	Survey of American Literature	
ENGL	3320	Advanced Topics in English	
ENGL	3330	English Grammar	
ENGL	4301	Shakespeare	
ENGL	4310	American Literature of the South	
ENGL	4312	Milton	
ENGL	4316	Mexican American Literature	
ENGL	4322	Creative Writing I	
ENGL	4325	Composition Techniques	
ENGL	4328	Introduction to English as a Second Language	
ENGL	4330	Theories of Grammar, Dialects, Lang Performance	
ENGL	4331	Problems in Grammar, Dialects, and Language Performance II	
Spanish (Nine hours must be advanced):			21
SPAN	1373	Elementary Spanish as a Second Language I	3
SPAN	1374	Elementary Spanish as a Second Language II	3
or			
SPAN	2313	Basic Spanish for Bilinguals I	
SPAN	2315	Basic Spanish for Bilinguals II	
SPAN	2311	Intermediate Spanish I	
SPAN	2312	Intermediate Spanish II	
SPAN	3303	Advanced Spanish Composition	
or			
SPAN	3304	Advanced Spanish Composition	
SPAN	3306	Basic Concepts of Spanish Phonetics/ Phonology	
SPAN		Advanced	

## Bilingual Education: Elementary Option III (taken as Minor with any BA/BS)

Course	Credit Hours
Academic Specialization: 24 hours	
Academic Element:	
EDCI 3305 Socio-Cultural Foundations of Education	3
EDCI 3316 Teaching Spanish Reading in Bilingual Class	3
EDCI 3322 Foundations of Bilingual Education	3
EDCI 4304 First Language Learning/Second Lang Acquis.	3
ENGL 3319 Introduction to Descriptive Linguistics	3
SPAN 3330 Spanish Grammar	3
Methodology Element:	
EDCI 3315 The Bilingual Curriculum in the Content Areas	3
EDCI 3324 English as a Second Language	3
Combination of Subjects "B"	12

## Early Childhood Education: Elementary Option IV (based on B.A.L.A.S.)

Course	Credit Hours
Academic Specialization: 24 hours	
Academic Element:	
BIOL 1322 Human Nutrition	3
PSYC 2308 Child Psychology	3
EDEC 4390 Growth and Development in Early Childhood	3
EDEC 4391 The Environment and Early Childhood	3
EDEC 4392 Language, Creativity, and Self-expression in Early Childhood	3
EDEC 4393 Cultural Dimensions Related to Early Child.	3
Methodology Element:	
EDEC 4314 Seminar and Practicum in Early Child. Edu.	3
EDEC 4394 Basic Skills in Early Childhood Education: Foundations for Formal Learning	3
Combination of Subjects "B"	12

## Early Childhood Education: Elementary Option IV (taken as Minor with any BA/BS)

Course	Credit Hours
Academic Specialization: 24 hours	
Academic Element:	
BIOL 1322 Human Nutrition	3
PSYC 2308 Child Psychology	3
EDEC 4390 Growth and Development in Early Childhood	3
EDEC 4391 The Environment and Early Childhood	3
EDEC 4392 Language, Creativity and Self-expression in Early Childhood	3
EDEC 4393 Cultural Dimensions Related to Early Child.	3
Methodology Element:	
EDEC 4314 Seminar and Practicum in Early Child. Educ.	3
EDEC 4394 Basic Skills in Early Childhood Education: Foundations for Formal Learning	3
Combination of Subjects "B"	12

## Generic Special Education: Elementary Option III (based on B.A.L.A.S., or as a Minor with any BA/BS)

Course	Credit Hours
Academic Specialization: 27 hours	
Academic Element:	
SPED 2370 Intro to Exceptional Children	3
SPED 4301 Perception & Language Development	3
SPED 4302 Perception & Cognitive Development	3
SPED 4307 Field Experience in Generic Special Ed	3
SPED 4371 Testing & Assess. of Exceptional Individuals	3
SPED 4372 Exceptional Children	3
KINE 4351 Adapted	3
Methodology Element:	
SPED 4303 Individualized Instruction for Mildly and Moderately Disabled	3
SPED 4309 Practicum in Generic Special Ed	3
Combination of Subjects "B"	12

## Reading: Elementary Option II (based on BALAS, or taken as a Minor with any BA/BS)

Course	Credit Hours
Academic Specialization: 27 hours	
READ 3323 Developmental Reading in Elementary Schools	3
READ 3327 Reading and the Exceptional Child	3
READ 3328 Reading Acquisition	3
READ 3329 Correcting Reading Problems	3
READ 4369 Reading Practicum	3
3 hours from:	
READ 3326 Reading Across the Curriculum Content Areas	3
READ 3351 Literature for the Young Adult	3
READ 4367 Teaching Reading to Children with Limited Proficiency in English	3
Combination of Subjects "C"	18

## Endorsements

### Bilingual Education

12 semester credit hours advanced	
EDCI 3315 The Bilingual Curriculum in Content Areas	3
or	
EDCI 6335 Second Language Teaching	3
EDCI 3316 Teaching of Spanish Reading in Bil. Classroom	3
or	
READ 6309 Topics in Reading	3
EDCI 3324 English as a Second Language	3
or	
ED CI 6324 Second Lang. Teaching: Theory & Methodology	3
EDCI 4304 First Lang. Learning/Second Lang. Acquisition	3
or	
ED CI 6316 Development and Assessment of Psycholinguistic Processes	3

## Early Childhood Education

12 semester credit hours advanced

**Certificate requirements.** The early childhood education endorsement may be added to valid elementary teacher certificates, special education certificates, or vocational home economics certificates which require a bachelor's degree from an accredited institution.

**Professional development.** The professional development sequence for the early childhood education endorsement shall consist of:

EDEC	4390	Growth and Development in Early Childhood	3
EDEC	4391	Early Childhood Curriculum: Organization, Methods and Materials	3
EDEC	4392	Creative Activities in Early Childhood Ed	3
EDEC	4393	Cult. Dimensions Related to Early Childhood	3

Note: Practicum (if applicable) or Teaching Experience on Permit: One year of successful pre-Kindergarten or Kindergarten classroom teaching experience in a school accredited or recognized by the Texas Education Agency, and/or EDEC 4314 Survey of Early Childhood; Field Experience (when applicable). Field Experience includes: pre-service or pre-student teaching experiences inclusive of pre-kindergarten and kindergarten settings that involve a variety of cultural and socioeconomic conditions; and three semester hours of student teaching in pre-kindergarten and/or kindergarten settings with certified early childhood supervising teachers in a school accredited or recognized by the Texas Education Agency, or one year of successful pre-kindergarten or kindergarten classroom teaching experience in a school accredited or recognized by the Texas Education Agency.

## English as a Second language

12 semester credit hours advanced

EDCI	3305	Sociocultural Foundations of Education	3
		or	
ED CI	6388	Sociocultural Foundations of Education	3
EDCI	3324	English as a Second Language	3
		or	
ED CI	6324	Second Lang. Teaching: Theory/Methodology	3
ENGL	3319	Descriptive Linguistics	3
		or	
ENGL	6355	Second Language Acquisition	3
EDCI	4304	First Lang. Learning/Second Lang. Acquisition	3
		or	
ED CI	6316	Development and Assessment of Psycholinguistic Processes	3

Note: Practicum (if applicable) or Teaching Experience on Permit: Evidence of a successful student teaching experience in an approved English as a Second Language program or one year successful classroom experience on a permit in an approved English or ESL/Bilingual education program, as documented by the employing superintendent.

## B.A. – Liberal Arts and Sciences

In addition to undergraduate programs in the College of Liberal Arts, the College of Science and Mathematics, and the School of Business and Industry, the Bachelor of Arts in Liberal Arts and Sciences (B.A.L.A.S.) is offered to support the Elementary Teacher Certification Programs.

The B.A.L.A.S. gives elementary education students an alternative to the conventional degree programs offered in the Colleges and Schools. Objectives of the programs include relating the materials studied in one discipline to that studied in another discipline.

## Disciplines

(Administered by respective Colleges and Schools)

- **Biology:** 19-20 hours, minimum of 11 hours advanced; Combination of Subjects "A" 18 hours
- **English:** 24 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours
- **Fine Arts:** 21 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours
- **History:** 18 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours
- **Kinesiology:** 19 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours
- **Mathematics:** 21 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours
- **Music:** 23 hours, minimum of 10 hours advanced; Combination of Subjects "A" 18 hours
- **Physical Science:** 30 hours, minimum of 10 hours advanced; 8 hours of General Physics or Physical Science (lower division); 8 hours of General Chemistry; 10 hours from one of the two disciplines: Chemistry or Physics; Combination of Subjects (B) 12 hours
- **Social Sciences:**\* 45 hours, minimum of 24 hours advanced; 9 hours Government (lower level); 9 hours Political Science (upper-level); 9 hours History (lower level); 9 hours from History (upper-level); 3 hours Economics (lower-level); 6 hours Geography (upper level); Combination of Subjects (B) 12 hours
- **Spanish:** 24 hours, minimum of 12 hours advanced; Combination of Subjects "A" 18 hours (\*This Certification covers Discipline #1 and #2 of the B.A. in Liberal Arts and Sciences, Political Science and History)

## Delivery Systems

(Administered by School of Education)

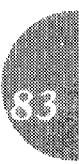
- **Bilingual Education:** 24 hours advanced; Combination of Subjects (B) 12 hours
- **Early Childhood Education:** 24 hours, minimum 18 hours advanced; Combination of Subjects (B) 12 hours
- **Generic Special Education:** 27 hours, minimum 24 hours advanced; Combination of Subjects (B) 12 hours
- **Reading:** 18 hours advanced; Combination of Subjects (C) 18 hours

## Combination of Subjects

(Administered by respective Schools and Colleges)

A – for Option II: 18 hours

GEOG	3334	World Geography
INDS	3301	Theories of Knowledge
INDS	3303	Culture and Humanity: Human Diversity in Cross Cultural Perspective
		or
INDS	3304	Frontier Studies: The U.S.-Mexico Border
READ	3323	Developmental Reading in the Elementary School



READ	3329	Correcting Reading Problems
MATH	1335	Mathematical Concepts I or
MATH	1336	Mathematical Concepts II or higher Math Course
<b>B – for Option III and IV: 12 hours</b>		
GEOG	3334	World Geography
INDS	3301	Theories of Knowledge or
INDS	3303	Culture and Humanity: Human Diversity in Cross Cultural Perspective
READ	3323	Developmental Reading in the Elementary School
READ	3329	Correcting Reading Problems
<b>C – Reading Certifications only: 18 hours</b>		
GEOG	3334	World Geography
INDS	3301	Theories of Knowledge
INDS	3303	Culture and Humanity: Human Diversity in Cross Cultural Perspective
INDS	3304	Frontier Studies: The U.S.-Mexico Border
KINE	3356	Aesthetics (Harmony) of Movement
MATH	1335	Mathematical Concepts I or
MATH	1336	Mathematical Concepts II or higher Math Course

The applicable Options I to IV for the academic specializations teaching fields and delivery systems for the Provisional Teacher Certificate - Secondary are as follows:

1. Option I (grades 6-12) shall require one 36-semester-hour (21 semester hours advanced courses in each) teaching field with an additional 12 semester hours in a directly supporting field.
2. Option II (grades 6-12) shall require two 24-semester-hour (12 semester hours advanced courses in each) teaching fields, delivery systems, or a combination of a teaching field and a delivery system.
3. Option III (grades 6-12) shall require one 48 semester-hour (24-semester hour advanced courses) broad teaching field.
4. Option IV (grade 6-12) shall require one 48-semester-hour (24 semester hours with 12 semester hours advanced courses in single area) composite teaching field. A minimum six semester hours shall be required in each area.

## Secondary Teaching Fields

### Art: Option II

30 hours minimum of which 15 hours must be advanced (based on Art minor)

Course	Credit Hours
ARTS 1303 Art History Survey I	3
3 hours from:	
ARTS 1316 Drawing I	3
ARTS 2316 Painting I	
ARTS 1311 Two Dimensional Design	
ARTS 2326 Sculpture	
ARTS 2376 Ceramics I for the Non-Art Major	
3 hours from:	
ARTS 2378 Print Making I	
ARTS 2356 Photography I	
ARTS 1317 Drawing II	
ARTS 1304 Art History Survey II	
ARTS 2317 Painting II	
ARTS 1312 Three Dimensional Design	
9 hours from:	
ARTS 3351 Medieval and Renaissance Art	
ARTS 3352 Contemporary Art	
ARTS 3353 Art of the Ancient World	
ARTS 4353 American Art	
ARTS 4354 Latin American Art & Architecture	
6 hours from:	
ARTS 3332 Visual Art as Communication	
ARTS 3371 Advanced Ceramics	
ARTS 4333 Graphic Design	
ARTS 4336 Visual Thinking/ Application of Computer Images	
ARTS 4337 Internship in Art Studio	
ARTS 4355 Connoisseurship	
ARTS 4356 Analysis and Methods of Research	

## SECONDARY EDUCATION

### Professional Development Sequence

Course	Credit Hours
EDCI 4301 Foundations of Education	3
EDCI 4303 Educational Psychology in Secondary Schools	3
EDCI 4307 Secondary Pre-Student Teaching Practicum	3
EDCI 4308 Curriculum in the Secondary School	3
EDCI 4641 Student Teaching - Secondary	6
<b>Total</b>	<b>18</b>

### Academic Teaching Fields and Delivery Systems

#### Secondary - Provisional

\* Option II programs require a second teaching field for Teacher Certification-Secondary

Art (II)*	History (I)
Biology (I)	History (II)*
Biology (II)*	Kinesiology (II)*
Business, Composite (III)	Mathematics (I)*
Business, Secretarial (I)	Mathematics (II)*
Business, Secretarial (II)	Physical Science (II)
Computer Info. Systems (II)*	Psychology (II)*
Earth/Life Science	Reading (II)*
English (I)	Science Composite (IV)
English (II)*	Social Studies (IV)
English as a Second Language	Sociology (II)*
Generic Special Ed. (II)*	Spanish (I)
Government (I)	Spanish (II)
Government (II)*	

## Biology: Option I

39 hours, minimum of 27 hours advanced  
(based on major in Biology)

### Prerequisites

(to be included in General Education Requirements):

CHEM 113 & 111 General Chemistry I

CHEM 123 & 121 General Chemistry II

### Certification Requirements

BIOL 1408 General Biology I 4

BIOL 1409 General Biology II 4

BIOL 2401 Human Anatomy & Physiology I 4

or

BIOL 2428 Comparative Vertebrate Anatomy

BIOL 4100 Biology Seminary 1

BIOL 3303 Genetics 3

BIOL 3408 Plant Morphology 4

BIOL 3409 Ecology 4

BIOL 3412 Cell Biology 4

BIOL 4314 Plant Taxonomy 3

BIOL 4402 Marine Zoology 4

BIOL 4410 Marine Botany 4

## Biology: Option II

24 hours minimum of 12 hours advanced

(Based on minor in Biology)

Prerequisites (to be included in General Education Requirements):

CHEM 113 & 111 General Chemistry I (& Laboratory)

CHEM 123 & 121 General Chemistry II (& Laboratory)

### Certification Requirements

BIOL 1408 General Biology I 4

BIOL 1409 General Biology II 4

BIOL 2401 Human Anatomy & Physiology I 4

or

BIOL 2428 Comparative Vertebrate Anatomy

BIOL 3409 Ecology 4

BIOL 4100 Biology Seminar 1

7-8 hours from:

BIOL 3303 Genetics 7-8

BIOL 3408 Plant Morphology

or

BIOL 4314 Plant Taxonomy

BIOL 3412 Cell Biology

BIOL 4402 Marine Biology

BIOL 4410 Marine Botany

## Business-Composite: Option III

33 hours advanced; based on B.B.A.

TSEC 1317 Elementary Shorthand 3

TSEC 1301 Intermediate Typing 3

### Business Foundation

(As required for B.B.A.: included in General Ed. requirements)

ACCT 2401 Principles of Accounting I 4

ACCT 2402 Principles of Accounting II 4

SPCH 1315 Fundamentals of Speech 3

### Business Administration Core:

FINA 3383 Managerial Finance 27

GENB 3335 Organizational Communications

GENB 3337 Business Law I

MANA 4369 Business Policy

GENB 3341 Elementary Business and Economic Statistics

MANA 3361 Principles of Management and Org. Behavior

MARK 3371 Principles of Marketing

GENB 4330 International Business

MANA 4363 Production Management Special Major

Advanced Business Administration: 6

## Business-Composite: Option III

33 hours advanced: based on minor in General Business

TSEC 1317 Elementary Shorthand 3

TSEC 1301 Intermediate Typing 3

### Business Foundation (included in General Ed. Req.)

ACCT 2401 Principles of Accounting I 4

ACCT 2402 Principles of Accounting II 4

SPCH 1315 Fundamentals of Speech 3

FINA 3383 Managerial Finance 3

GENB 3335 Organizational Communications 3

GENB 3337 Business Law I 3

GENB 4369 Business Policy 3

MANA 3361 Principles of Management & Org. Behavior 3

MARK 3371 Principles of Marketing 3

15 hours from the following with at least 1 course from each

group:

ACCT 3321 Intermediate Accounting I 3

ACCT 3323 Income Tax Procedure

ACCT 3324 Cost Accounting

ECON 3352 Microeconomic Theory 3

ECON 3358 Labor Economics

FINA 3382 Investment Principles 3

FINA 3386 Financial Institutions and Markets

FINA 3389 Commercial Banking

FINA 3390 Public Finance

MANA 4366 Small Business Management 3

MANA 3362 Personnel Management

MANA 4363 Production Management

GENB 3312 Administrative Office Management

MARK 3372 Consumer Behavior 3

MARK 3374 Marketing Strategy

MARK 3375 Retailing

## Business Secretarial: Option I

36 hours; minimum of 21 advanced

(Based on minor in General Business-one teaching field required)

### Business Foundation (included in General Ed. Req.)

ACCT 2401 Principles of Accounting I 4

ACCT 2402 Principles of Accounting II 4

SPCH 1315 Fund. of Speech Certification Requirements 3

TSEC 1301 Intermediate Typing 3

TSEC 1317 Elementary Shorthand 3

TSEC 1315 Professional Development 3

ECON 2302 Economic Principles 3

TSEC 1305 Business Communications I 3

GENB 3312 Administrative Office Procedures 3

MANA 3361 Principles of Management and Org. Behavior 3

MANA 3341 Elementary Business and Economic Statistics 3

MARK 3371 Principles of Marketing 3

FINA 3383 Managerial Finance 3

GENB 3335 Organizational Communications 3

GENB 3337 Business Law I 3



## Business-Secretarial: Option II

27 hours; minimum of 12 hours advanced  
(based on minor in General Business-two teaching fields required)

### Business Foundation (included in General Ed. Req.)

ACCT	2401	Principles of Accounting I	4
ACCT	2402	Principles of Accounting II	4
SPCH	1315	Fundamentals of Speech	3
Requirement for Teacher Certification			
TSEC	1317	Elementary Shorthand	3
TSEC	1301	Intermediate Typing	3
TSEC	1315	Professional Development	3
ECON	2302	Economic Principles	3
TSEC	1305	Business Communications I	3
GENB	3312	Administrative Office Procedures	3
MANA	3361	Principles of Management and Org. Behavior	3
MARK	3371	Principles of Marketing	3
FINA	3383	Managerial Finance	3

## Computer Science: Option II

24 hours; minimum of 12 hours advanced  
(based on minor in Computer Science)

COSC	1418	Introduction to Computer Science	3
COSC	1417	FORTTRAN Programming	3
COSC	1418	Computer Science	3
COSC	2425	Computer Organization & Machine Language	3
COSC	3320	Digital System Fundamentals	3
COSC	3330	Data Structures	3
3 hours from:			
COSC	3334	Systems Programming	3
COSC	4331	Introduction to Operating Systems	3
COSC	4336	Computer Network Architectures & Products	3
COSC	4351	Systems Performance Analysis	3
COSC	4352	Introduction to Artificial Intelligence	3
3 hours from:			
COSC	3336	Organization of Programming Languages	3
COSC	3340	Software Design and Development	3
COSC	3350	Numerical Methods	3
COSC	3351	Survey of Microcomputer Systems	3
COSC	3352	Introduction to Minicomputers	3
COSC	3330	File Structures for on-line systems	3
COSC	3335	Data Base Management Systems	3
COSC	3337	Systems Analysis	3
COSC	4331	Introduction to Operating Systems	3

## Life/Earth Science: Option II

28 hours; minimum of 12 hours advanced  
(based on major in Biology) 8 hours Biology

BIOL	1406	General Biology I	4
BIOL	1407	General Biology II	4
BIOL	2401	Human Anatomy & Physiology	4
or			
BIOL	2428	Comparative Vertebrate Anatomy	4
8 hours Geology			
GEOL	1403	Physical Geology	4
GEOL	1404	Historical Geology	4
12 semester credit hours from:			
BIOL	3303	Genetics	4
BIOL	3408	Plant Morphology	4
or			
BIOL	4410	Marine Botany	4
BIOL	3409	Ecology	4

BIOL	4402	Marine Zoology	4
BIOL	4100	Biology Seminar	4

## English: Option I

36 hours; minimum of 24 hours advanced  
(based on major in English)

ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
6 hours from:			
ENGL	2322	British Literature I	3
ENGL	2323	British Literature II	3
ENGL	2331	World Literature I	3
ENGL	2332	World Literature II	3
ENGL	2326	American Literature I	3
ENGL	2327	American Literature II	3
ENGL	2374	Selected Studies in Literature	3
ENGL	2339	Introduction to Literature	3
ENGL	3319	Introduction to Descriptive Linguistics	3
ENGL	3330	English Grammar	3
ENGL	4301	Shakespeare	3
ENGL	4325	Composition Techniques	3
3 hours from:			
ENGL	4327	Reading	3
ENGL	4328	Introduction to English as a Second Language	3
9 hours from:			
ENGL	3310	20th Century English and American Poetry	3
ENGL	3312	Survey of American Literature I	3
ENGL	3313	Survey of American Literature II	3
ENGL	4310	American Literature of the South	3
ENGL	4316	Mexican-American Literature	3
ENGL	3305	The Romantic Period	3
ENGL	3311	20th Century English Fiction	3
ENGL	4303	The Bible as Literature	3
ENGL	4309	Chaucer	3
ENGL	4312	Milton	3
ENGL	4322	Creative Writing	3

## English: Option II

24 hours; minimum of 12 hours advanced  
(based on minor in English)

ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
6 hours from:			
ENGL	2322	British Literature I	3
ENGL	2323	British Literature II	3
ENGL	2331	World Literature I	3
ENGL	2332	World Literature II	3
ENGL	2326	American Literature I	3
ENGL	2327	American Literature II	3
ENGL	2374	Selected Studies in Literature	3
ENGL	2339	Introduction to Literature	3
ENGL	3319	Introduction to Descriptive Linguistics	3
3 hours from:			
ENGL	3330	English Grammar	3
ENGL	4325	Composition Techniques	3
ENGL	4327	Reading	3
ENGL	4328	Introduction to English as a Second Language	3



3 hours from:

ENGL	3310	20th Century English and American Poetry	
ENGL	3312	Survey of American Literature I	
ENGL	3313	Survey of American Literature II	
ENGL	4310	American Literature of the South	
ENGL	4316	Mexican-American Literature	

3 hours from:

ENGL	3305	The Romantic Period	
ENGL	3311	20th Century English Fiction	
ENGL	4301	Shakespeare	
ENGL	4303	The Bible as Literature	
ENGL	4309	Chaucer	
ENGL	4312	Milton	

### Generic Special Education: Option II

27 hours; minimum of 21 hours advanced  
(based on minor in Generic Special Education)

SPED	2370	Introduction to the Exceptional Child	3
SPED	4301	Perception and Language Development	3
SPED	4302	Perception and Cognitive Development	3
SPED	4303	Individualized Instruction for Mildly and Moderately Disabled	3
SPED	4307	Field Experience in Generic Special Education	3
SPED	4309	Practicum in Generic Special Education	3
SPED	4371	Testing and Assessment of Handicapped Individuals	3
SPED	4372	Exceptional Individuals	3
KINE	4351	Adapted	3

### Government: Option I

36 hours; minimum of 27 hours advanced  
(based on major in Political Science)

GOVT	2301	American Government I	3
GOVT	2302	American Government II	3
GOVT	2304	Introduction to Political Science or other Advanced Political Science	3
GOVT	3331	Methods of Political Science Research	3

12 hours from American Government:

GOVT	3314	American State and Local Government	12
GOVT	3363	American Hispanic Politics	
GOVT	4320	American Constitutional Law: Federalism	
GOVT	4321	American Constitutional Law: Civil Liberties	
GOVT	4360	American Executive Process	
GOVT	4363	American Legislative Process	
GOVT	4367	American Judicial Process	
GOVT	4384	Seminar in Local Government Problems I or other Advanced American Government	

6 hours International Relations or Comparative Pol. Science:

GOVT	3322	Politics of Developing Nations	6
GOVT	3343	International Politics	
GOVT	4383	Politics in Mexico, Cent. American & Caribbean	
GOVT	4386	South American Politics or other Advanced International Relations or Comparative Government	

3 hours Political Theory from:

GOVT	4332	American Political Theory or other Advanced Political Theory	3
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3 hours from Public Administration:

GOVT	3323	Introduction to Public Administration	3
GOVT	3324	Government Organization & Admin. Theory	
GOVT	4312	Urban and Metropolitan Planning	
GOVT	4365	American Administrative Process or other Public Administration	

### Government: Option II

24 hours; minimum of 15 hours advanced  
(based on minor in Government)

GOVT	2301	American Government I	3
GOVT	2302	American Government II	3
GOVT	2304	Introduction to Political Science or Advanced Political Science	3

6 hours from American Government:

GOVT	3314	American State and Local Government	6
GOVT	3360	American Minority Politics	
GOVT	4320	American Constitutional Law: Federalism	
GOVT	4321	American Constitutional Law: Civil Liberties	
GOVT	4360	American Executive Process	
GOVT	4363	American Legislative Process	
GOVT	4367	American Judicial Process	
GOVT	4384	Seminar in Local Government Problems I or other Advanced American Government	

3 hours International Relations or Comparative Pol. Science:

GOVT	3322	Politics of Developing Nations	3
GOVT	3343	International Politics	
GOVT	4383	Politics in Mexico, Central America & Caribbean	
GOVT	4386	South American Politics or other Advanced International Relations or Comparative Government	

3 hours Political Theory or Research Methods:

GOVT	3331	Methods of Political Science Research	3
GOVT	4332	American Political Theory or other Advanced Political Theory	

3 hours Public Administration:

GOVT	3323	Introduction to Public Administration	3
GOVT	3324	Government Organization & Admin. Theory	
GOVT	4312	Urban and Metropolitan Planning	
GOVT	4365	American Administrative Process or other Public Administration	

### History: Option I

36 hours, minimum of 21 hours advanced  
(based on major in History: two teaching fields required)

HIST	2311	Western Civilization to 1600	3
HIST	2312	Western Civilization since 1600	3
HIST	1301	United States to 1877	3
HIST	1302	United States since 1877	3
HIST	2301	Texas History	3

21 hours with a minimum of six hours from each block:

*American*

HIST	3313	American Colonial Era to 1783	
HIST	3324	Formative Period of the Am. Nation, 1783-1840	
HIST	4303	The Emergence of Modern America 1877-1917	
HIST	4313	Twentieth Century America, 1917 to Present	
HIST	4325	The American Southwest After 1821	
HIST	4343	Era of Sectional Conflict, 1840-1877	

*Latin American*

HIST	4363	United States-Latin American Relations	
HIST	3333	Colonial Mexico, Central and South America	
HIST	4353	History of Mexican Culture	
HIST	4354	Contemporary Mexico	
HIST	4355	Spanish South America since Independence	

*European*

HIST	4370	The Renaissance and Reformation, 1300 to 1650	
HIST	4375	Absolution & Enlightenment in Europe, 1650-1789	
HIST	4376	Revolutionary Europe, 1789-1850	

21 Programs

HIST	4376	Revolutionary Europe, 1789-1850	
HIST	4383	Europe's Age of Imperialism, 1850-1919	
HIST	4393	Europe from 1919 to Present	
HIST	4395	Special Topics in Historical Study	

## History: Option II

24 hours; minimum of 12 hours advanced  
(based on minor in History-two teaching fields required)

HIST	2311	Western Civilization to 1600	3
	or		
HIST	2312	Western Civilization since 1600	
HIST	1301	United States to 1877	3
HIST	1302	United States since 1877	3
HIST	2301	Texas History	3
		12 hours with a minimum of 3 hours from each block:	12
<i>American</i>			
HIST	3313	American Colonial Era to 1783	
HIST	3324	Formative Period of American Nation, 1783-1840	
HIST	4303	The Emergence of Modern America 1877-1917	
HIST	4313	Twentieth Century America, 1917 to present	
HIST	4343	Era of Sectional Conflict, 1840-1877	
<i>Latin American</i>			
HIST	3333	Colonial Mexico, Central and South America	
HIST	4353	History of Mexican Culture	
HIST	4355	Spanish South America since Independence	
<i>European</i>			
HIST	4370	The Renaissance and Reformation, 1300 to 1650	
HIST	4375	Absolution & Enlightenment in Europe, 1650-1789	
HIST	4376	Revolutionary Europe, 1789-1850	
HIST	4393	Europe from 1919 to Present	
HIST	4395	Special Topics in Historical Study	

## Mathematics: Option I

39 hours; minimum of 21 hours advanced  
(based on Mathematics major)

MATH	1314	College Algebra	3
MATH	1316	Trigonometry	3
MATH	1348	Analytical Geometry	3
MATH	2313	Calculus I	3
MATH	2314	Calculus II	3
MATH	3305	Euclidean and Transformational Geometry	3
MATH	3347	Calculus III	3
MATH	4348	Linear Algebra	3
MATH	4351	Modern Algebra	3
		9 hours from:	9
MATH	3302	Vector Analysis	
MATH	3303	History of Mathematics	
MATH	3349	Differential Equations	
MATH	3373	Discrete Structures	
MATH	4302	Theory of Numbers	
MATH	4339	Mathematical Statistics I	
MATH	4340	Mathematical Statistics II	
MATH	4351	Modern Algebra	
MATH	4357	Real Analysis	
MATH	4364	Special Problems in Mathematics	
COSC	3333	Data Structures	
		or	
COSC	3350	Numerical Methods	

## Mathematics: Option II

33 hours; minimum of 12 hours advanced  
(based on Mathematics minor)

MATH	1314	College Algebra	3
MATH	1316	Trigonometry	3
MATH	1348	Analytical Geometry	3
MATH	2313	Calculus I	3
MATH	2314	Calculus II	3
MATH	2318	Linear Algebra	3
		or	
MATH	1342	Elementary Statistics	
MATH	3305	Euclidean and Transformational Geometry	3
MATH	4351	Modern Algebra	
		6 hours from:	6
MATH	3302	Vector Analysis	
MATH	3303	History of Mathematics	
MATH	3347	Calculus III	
MATH	3349	Differential Equations	
MATH	3373	Discrete Structures	
MATH	4302	Theory of Numbers	
MATH	4339	Mathematical Statistics I	
MATH	4340	Mathematical Statistics II	
MATH	4348	Linear Algebra	
MATH	4351	Modern Algebra	
MATH	4357	Real Analysis	
MATH	4364	Special Problems in Mathematics	
COSC	3333	Data Structures	
		or	
COSC	3350	Numerical Methods	

## Kinesiology: Option II

38-42 hours; minimum of 24 hours advanced  
(based on Kinesiology major)

Kinesiology Activity Element: 5 hours

5 hours from (one course from each area):

- Swimming
- Team Sports
- Social/Folk Dance
- Individual Sports - Net, Racket Ball
- Gymnastics

Electives: 0-4

- Golf or Bowling
- Aerobic Dance
- Soccer
- Volleyball
- Or any other approved by academic advisor

### Kinesiology Core

KINE	1301	Introduction to Sport and Exercise Science	3
KINE	1306	First Aid	3
KINE	2370	Kinesiology (Biomechanics)	3
KINE	3302	Found. of Sport & Ex. for Pre-Adolescents	3
KINE	3309	Found. of Sport & Ex. for Adolescents & Adults	3
KINE	3353	Physiology of Exercise & Human Performance	3
KINE	4310	Measurement Techn. in Phys. Exercise & Sports	3
		Specialization Element	
KINE	3311	Psychological Behavior in Sport	3
KINE	3314	Dance for Children and Adolescents	3
KINE	3317	Theory of Gymnastics	3
KINE	4351	Sport and Exercise Activities for Exceptional Individuals	3

## Physical Science: Option II

28 hours; minimum of 6 hours advanced  
(based on Physical Science minor)

PHYS	1301	General Physics I (+ lab)	4
		and	
PHYS	1302	General Physics II (+ lab)	4
		or	
PSCI	1415	Physical Science I	
		and	
PSCI	1417	Physical Science II	
CHEM	1311	General Chemistry I (+ LAB)	4
CHEM	1312	General Chemistry II (+ LAB)	4
GEOL	1403	Physical Geology	4
GEOL	1404	Historical Geology	4

6-8 semester credit hours from one of the following groups: 6-8

CHEM	3301	Inorganic Chemistry	
CHEM	3402	Quantitative Analysis	
CHEM	3403	Biochemistry	
PHYS	3402	Modern Physics	
PHYS	4301	Topics in Modern Physics	
		or	
PSCI	3301	Intermediate Physical Science	

## Psychology: Option II

24 hours; minimum of 12 hours advanced  
(based on Psychology minor)

PSYC	2301	Introduction to Psychology	3
PSYC	2319	Social Psychology	3

6 hours from:

PSYC	2316	Psychology of Personality	6
PSYC	2317	Statistics of Psychology, Sociology and Education	
PSYC	2314	Human Growth and Development	
PSYC	2308	Child Psychology	
PSYC	2325	Experimental Psychology	

3 hours from:

PSYC	3305	Behavior Management and Modification	3
PSYC	3325	Psychology of Adjustment	

9 hours from:

PSYC	3326	Contemporary Issues in Social Psychology	9
PSYC	3343	Tests and Measurements in Psychology	
PSYC	4312	Female and Male	
PSYC	4313	Abnormal Psychology	
PSYC	4333	Theories of Personality	
PSYC	4318	Theories of Learning	

## Science (Composite): Option IV

55 hours; minimum of 19 hours advanced  
(based on Biology major)

CHEM	1311	General Chemistry I (+ Lab)	4
CHEM	1312	General Chemistry II (+ Lab)	4
PHYS	1301	General Physics I (+ Lab)	4
		and	
PHYS	1302	General Physics II (+ Lab)	4
		or	
PHYS	1415	Physical Science I	
		and	
PHYS	1417	Physical Science II	
GEOL	1403	Physical Geology	4
GEOL	1404	Historical Geology	4
BIOL	1406	General Biology I	4
BIOL	1407	General Biology II	4

BIOL	2401	Human Anatomy and Physiology I	4
		or	
BIOL	2428	Comparative Vertebrate Anatomy	
BIOL	3409	Ecology	4
BIOL	4100	Biology Seminar	1
BIOL	3303	Genetics	3
BIOL	3408	Plant Morphology	4
BIOL	3412	Cell Biology	4

3-4 hours from:

BIOL	4314	Plant Taxonomy	3-4
BIOL	4402	Marine Zoology	
BIOL	4410	Marine Botany	

## Social Studies (Composite): Option IV

51 hours; minimum of 21 upper-level  
(based on a major in History or Political Science)

HIST	1301	United States to 1877	3
HIST	1302	United States since 1877	3
HIST	2301	Texas History	3
GOVT	2301	American Government I	3
GOVT	2302	American Government II	3
GOVT	2304	Introduction to Political Science	3
		or	
		Advanced Political Science	
ECON	1303	Consumer Economics	3
ECON	2301	Economic Principles	3
GEOG	1301	Elements of Physical Geography	3
GEOG	3333	Latin American Geography or	3
GEOG	3334	World Geography	

### Areas of Concentration:

A total of 24 semester hours are required in the selected area of concentration, semester hours of which must be upper level courses.

**History:** 15 semester hours in History with at least 3 hours from each of the blocks A. 1; A. 2; A. 3 and 6 semester hours in Political Science from two of the blocks B. 1; B. 3; B. 4

or:  
**Government:** 15 semester hours in Political Science with at least 6 hours from each of the blocks 1; B. 2; B. 3; B. 4 and 6 semester hours in History from two of the blocks A. 1; A. 2; A. 3

### A. History

#### American (U.S.)

HIST	3313	American Colonial Era to 1783	
HIST	3324	Formative Period of American Nation, 1783-1840	
HIST	4303	The Emergence of Modern America, 1877-1917	
HIST	4313	Twentieth Century America, 1917 to the Present	
HIST	4343	Era of Sectional Conflict, 1850-1877	

or: other Advanced American

#### Latin American

HIST	3333	Colonial Mexico, Central and South America	
HIST	4353	History of Mexican Culture	
HIST	4355	Spanish South America Since Independence	

or other Advanced Latin-American History

#### European

HIST	4370	The Renaissance and the Reformation, 1300-1650	
HIST	4375	Absolutism & Enlightenment in Europe, 1650-1789	
HIST	4376	Revolutionary Europe, 1780-1850	
HIST	4393	Contemporary Europe, 1919 to Present	
HIST	4395	Special Topics (with departmental approval)	

or other Advanced European History

## B. Government

### American Government and Politics

- GOVT 3314 American State and Local Government
- GOVT 3363 American Hispanic Politics
- GOVT 4320 American Constitutional Law: Federalism
- GOVT 4321 American Constitutional Law: Civil Liberties
- GOVT 4360 American Executive Process and Policy Outputs
- GOVT 4363 American Legislative Process
- GOVT 4367 American Judicial Process
- GOVT 4384 Seminar in Local Government Problems I  
or other Advanced American Government

### Comparative Government and International Politics

- GOVT 3322 Politics of Emerging Nations
- GOVT 3343 International Politics
- GOVT 4383 Politics of Mexico, Central America and Caribbean
- GOVT 4386 South American Politics  
or other Advanced Comparative or Int. Politics

### Political Theory

- GOVT 3331 Methods of Political Science Research
- GOVT 4332 American Political Theory  
or other Advanced Political Theory

### Public Administration

- GOVT 3323 Introduction to Public Administration
- GOVT 3324 Government Organization and Admin. Theory
- GOVT 4312 Urban and Metropolitan Planning
- GOVT 4365 American Administrative Process  
or other Advanced Public Administration

### Reading: Option II

24 hours; minimum of 12 hours advanced  
(based on minor in Reading)

- READ 3313 Introduction to Reading 3
- READ 3326 Reading Across Curriculum Content Areas 3
- READ 3327 Reading and the Exceptional Child  
(and the Culturally Diverse Child) 3
- READ 3328 Reading Acquisition 3
- READ 3329 Correcting Reading Problems 3
- READ 3351 Literature for the Young Adult 3
- READ 4351 Developmental Reading in Secondary schools 3
- READ 4369 Reading Practicum 3

Supporting Field: Major in English

### Sociology: Option II

24 hours; minimum of 12 hours advanced  
(based on minor in Sociology)

- SOCI 1301 Introduction to Sociology 3
- SOCI 1306 Social Problems 3
- 6 hours from: 6
- SOCI 2301 Marriage and Family 3
- SOCI 2306 Human Sexuality 3
- SOCI 2331 Current Issues in Sociology 3
- SOCI 3301 Methods of Social Research 3
- SOCI 4333 Social Theory 3
- 6 hours from: 6
- SOCI 3313 Criminology 3
- SOCI 3324 Sociology of Health 3
- SOCI 3326 Contemporary Issues in Social Psychology 3
- SOCI 3333 Urban Sociology 3
- SOCI 3334 Sociology of Work 3
- SOCI 3353 Juvenile Delinquency 3
- SOCI 3393 Sociology of Aging 3
- SOCI 4313 American Minorities 3

- SOCI 4314 Sociology of Deviance 3
- SOCI 4323 The Mexican American People 3
- SOCI 4352 Social Inequality 3
- SOCI 4383 Independent Studies 3

### Spanish: Option I

36 hours; minimum of 24 hours advanced  
(based on major in Spanish)

- SPAN 1313 Elementary Spanish as a Second Language I 3  
and
- SPAN 1314 Elementary Spanish as a Second Language II 3  
or
- SPAN 1373 Basic Spanish for Bilinguals I 3  
and
- SPAN 1374 Basic Spanish for Bilinguals II 3
- SPAN 2311 Intermediate Spanish I 3
- SPAN 2312 Intermediate Spanish II 3
- Note: If students demonstrate proficiency in Spanish that justifies placement into intermediate level courses, then lower level requirements are as follows:*
- SPAN 2311 Intermediate Spanish I 3
- SPAN 2312 Intermediate Spanish II 3
- SPAN 2321 Hispanic Literature & Civilization I 3
- SPAN 2322 Hispanic Literature & Civilization 3  
or six hours upper-level courses
- SPAN 3301 Spanish Literature (1100-1750) 3
- SPAN 3310 Masterpieces of Spanish American Literature I 3
- SPAN 3311 Masterpieces in Spanish Amer. Literature II 3
- SPAN 3330 Spanish Grammar 3
- SPAN 4316 Issues and Problems Related to Language 3
- 3 hours from: 3
- SPAN 3303 Advanced Spanish Composition I 3
- SPAN 3304 Advanced Spanish Composition II 3
- 3 hours from: 3
- SPAN 3316 The Mexican Novel 3
- SPAN 4303 Spanish Civilization 3
- SPAN 4304 Spanish Lyric Poetry 3
- SPAN 4307 Spanish American Novel 3
- SPAN 4309 Contemporary Spanish Literature 3
- 3 hours from: 3
- SPAN 3306 Basic Concepts of Spanish Phonetics & Phonology 3
- SPAN 3332 Introduction to Spanish/English Translation 3
- SPAN 3333 Introduction to English/Spanish Translation 3

### Spanish: Option II

30 hours; minimum of 18 hours advanced  
(based on minor in Spanish)

- SPAN 1313 Elementary Spanish as a Second Language I 3  
and
- SPAN 1314 Elementary Spanish as a Second Language II 3  
or
- SPAN 1373 Basic Spanish for Bilinguals I 3  
and
- SPAN 1374 Basic Spanish for Bilinguals II 3
- SPAN 2311 Intermediate Spanish I 3
- SPAN 2312 Intermediate Spanish II 3

continued on next page

*Note: If students demonstrate proficiency in Spanish that justifies placement into intermediate level courses, then lower level requirements are as follows:*



SPAN	2311	Intermediate Spanish I	3
SPAN	2312	Intermediate Spanish II	3
SPAN	2321	Hispanic Literature & Civilization I	3
SPAN	2322	Hispanic Literature & Civilization I or six (6) hours upper-level courses	3
SPAN	3330	Spanish Grammar	3
SPAN	4303	Spanish Civilization	3
SPAN	4316	Issues and Problems Related to Language	3
3 hours from:			3
SPAN	3303	Advanced Spanish Composition I	
SPAN	3304	Advanced Spanish Composition II	
3 hours from:			3
SPAN	3301	Spanish Literature (1100-1750)	
SPAN	3310	Masterpieces of Spanish American Literature I	
SPAN	3311	Masterpieces in Spanish American Literature II	
SPAN	3316	The Mexican Novel	
SPAN	4304	Spanish Lyric Poetry	
SPAN	4307	Spanish American Novel	
SPAN	4309	Contemporary Spanish Literature	
3 hours from:			3
SPAN	3306	Basic Concepts of Spanish Phonetics & Phonology	
SPAN	3332	Introduction to Spanish/English Translation	
SPAN	3333	Introduction to English/Spanish Translation	

		Physical Exercise & Sports	3
		<i>Specialization Element</i>	
KINE	3311	Psychological Behavior in Sport	3
KINE	3314	Dance for Children & Adolescents	3
KINE	3317	Theory of Gymnastics	3
KINE	3320	History/Principles of Sport/Movement Science	3
KINE	3356	Aesthetics (Harmony) of Movement	3
KINE	4351	The Adapted Kinesiology Program	3

## GRADUATE PROGRAMS

*Majors: Elementary Education;  
Counseling & Guidance : (Elementary & Secondary)  
Supervision: (Elementary & Secondary)  
Reading (Elementary & Secondary)  
Bilingual/Bicultural Education (Elementary)  
Educational Administration*

### Admission Requirements

In addition to the general admission requirements set out elsewhere in this catalog, the following specific requirements must be met:

- Applicants for admission will be required to have completed 18 semester hours of undergraduate education courses. These 18 hours will include a minimum of twelve hours of advanced work. Each minor graduate field presented will require evidence of completion of 12 hours of undergraduate work, of which six must be advanced hours.
- The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his graduate advisor.
- Requirements for admission to certification programs in Educational Administration are specifically outlined in the Educational Administration section of this catalog.
- Satisfactory completion of an oral examination following the completion of 12-18 semester hours of graduate work.
- Satisfactory completion of a written comprehensive examination at the end of the program.
- The student must also complete any specific admission, program, and exit requirements by the program he/she wishes to pursue.

## ALL-LEVEL CERTIFICATION

### Professional Development Sequence

EDCI	4301	Foundations of Education	3
EDCI	4303	Educational Psychology in Second. Schools	3
EDCI	4305	Instructional Planning/Curr. Development	3
EDCI	4308	Curriculum in the Secondary School	3
EDCI	4311	Directed Teaching - Elementary	3
EDCI	4398	Directed Teaching - Secondary	3

### Kinesiology

Option I (44-48 hours; minimum of 30 hours advanced)

#### Sports Activity Element

5 hours from (one course from each area): 5 hrs

- Swimming
- Team sports
- Social/Folk Dance
- Individual Sports - Net, Racket, Ball
- Gymnastics

Electives: : 1-4 hrs

- Golf or Bowling
- Aerobic Dance
- Soccer
- Volleyball
- Or any other approved by academic advisor

#### Kinesiology Core

KINE	1301	Introduction to Sport and Exercise Science	3
KINE	1306	First Aid-First Responder	3
KINE	2370	Kinesiology (Biomechanics)	3
KINE	3302	Foundations of Sport & Exercise for Pre-Adolescents	3
KINE	3309	Modified Team & Individual Sports	3
KINE	3353	Physiology of Exercise & Human Performance	3
KINE	4310	Measurement Techniques in	

The programs in education are intended primarily for personnel in public schools, but the knowledge and skills are applicable to other agencies (social, community, city, state, federal, etc.) A student may complete some M.Ed. programs at UTB without meeting all the specific certification requirements. However, the 18 semester hours of undergraduate education requirements may not be waived.

Please consult with the advisor of each program for more specific guidelines and information.

Credit for a 5000 level course is not given to a student with previous undergraduate credit in a similar course.

## Comprehensive Examination Policies

### Composition of Examination Committee

The committee will consist of three members. The program advisor will be the chairman of the committee. Two other committee members will be appointed by the department chairman from graduate faculty with preparation in the areas being tested.

### Design of the Comprehensive Examination

The purpose of the examination is to evaluate the candidate in the knowledge of the major ideas, themes and literature that are a part of the major program of study, the ability to synthesize that knowledge and to apply it in analyzing and solving related problems, and the ability to communicate effectively in writing at a professional level. The committee chairperson is responsible for preparing the examination in consultation with other committee members. It is the student's responsibility to consult with the graduate advisor regarding the nature and format of the test and the criteria that will be used to evaluate it.

### Evaluation of Examination

The comprehensive examination is evaluated independently by each member of the committee. Comments and summary pass/fail evaluations are recorded on separate evaluation sheets which are submitted to the chairman. The comprehensive exam requirement is satisfied if the candidate's test is rated passing by at least two of the committee members. Exam results are submitted to the department chairman on a form signed by the committee members. It is the responsibility of the department chairman to formally inform the student of the test results. If the results of the test are unsatisfactory the student will not be permitted re-examination until the next regularly scheduled examination. A student may re-take the comprehensive examination no more than two times.

### Administration of the Examination

The examination will be administered in accordance with the schedule and conditions established by the Dean of Education. Refer to the general comprehensive examination procedures in this catalog.

## Elementary Education

### M.Ed. – Elementary Education 36-Hour Non-Thesis Program

Major: Elementary Education  
Non-Certification

#### Content Courses: 12 hrs

READ 6308 Foundations of Reading Instruction  
 READ 6309 Topics in Reading  
 READ 6310 Child and Adolescent Literature  
 READ 6323 Problems in the Teaching of Reading  
 READ 6325 Practicum in Reading Instruction  
 READ 6329 Diagnostic Teaching of Reading  
 EDCI 6330 The Curriculum in the Elementary school  
**Professional Development: 9 hrs**  
 EDEC 5390 Advanced Studies in the Dev. of Young Children  
 EDEC 5391 Constructing Curriculum for Early Childhood Centers

EDEC 5392 Research & Development of Creative Activities For Young Children  
 EDEC 5393 Advanced Studies of Cultural Diversity in Early Childhood Center  
 EDCI 6301 Instructional Media in Teaching  
 EPSY 6302 Advanced Educational Psychology  
 EPSY 6311 Advanced Child Psychology  
 EPSY 6316 Development & Assessment of Psycholinguistic Processes  
 EDCI 6322 The Bilingual Child  
 EDCI 6330 The Curriculum in the Elementary school  
 EPSY 6360 Introduction to Guidance and Counseling  
 EDCI 6367 Methods  
 EDSU 6370 Supervision of Instruction

#### Resource Areas: 9

SPED 5372 Individual Differences: Survey and Treatment  
 EPSY 6302 Advanced Educational Psychology  
 EDCI 6336 Programs in Education  
 EPSY 6363 Personal Growth  
 EDAD 6397 Analysis of Teaching Behavior  
 PSYC 5318 Learning Theories  
 PSYC 5333 Theories of Personalities  
**Degree Requirements: 6**  
 EDCI 6312 Educational Measurement  
 EDCI 6300 Introduction to Research

### M.Ed. – Elementary Education 30-Hour Thesis Program

Major: Elementary Education  
Non-Certification

#### Content Courses: 12 hours

READ 6308 Foundations of Reading Instruction  
 READ 6309 Topics in Reading  
 READ 6323 Problems in the Teaching of Reading  
 READ 6325 Practicum in Reading Instruction  
 READ 6329 Diagnostic Teaching of Reading  
 EDCI 6330 The Curriculum in the Elementary school

#### Professional Development: 6

EDEC 5391 Constructing Curr. for Early Childhood Centers  
 EDEC 5392 Research & Development of Creative Activities for Young Children  
 EDEC 5393 Advanced Studies of Cultural Diversity in Early Childhood Centers  
 EDCI 6301 Instructional Media in Teaching  
 EPSY 6302 Advanced Educational Psychology  
 EPSY 6311 Advanced Child Psychology  
 EDCI 6322 The Bilingual Child  
 EPSY 6360 Introduction to Guidance and Counseling  
 EDCI 6367 Statistical Methods  
 EDSU 6370 Supervision of Instruction  
 EDAD 6397 Analysis of Teaching Behavior

#### Resource Area

The student may substitute six hours from any of the graduate level courses outside the field of education for the six hours of professional development courses.

**Thesis: EDCI 7300 and 7301 Thesis, 6 hours**

#### Degree Requirements: 6 hours

EDCI 6312 Educational Measurement  
 EDCI 6300 Introduction to Research

## M.Ed. – Education

### 36-Hour Non-Thesis Program

Major: Elementary Education

Certificate: Professional Elementary

Specialization Area (minor): 12 hours

12 hours of graduate level courses in one of the following fields or a combination of two divided 9-3 or 6-6:

Biology, English, Political Science, Health, Kinesiology, History, Mathematics, Spanish.

Professional Development: 6-12 hours

EDEC 5390 Adv. Studies in Development of Young Children

EDEC 5391 Constructing Curr. for Early Childhood Centers

EDEC 5392 Research & Development of Creative Activities for Young Children

EDEC 5393 Advanced Studies of Cultural Diversity in Early Childhood Centers

EDCI 6301 Instructional Media in Teaching

EPSY 6302 Advanced Educational Psychology

READ 6308 Foundations of Reading Instruction

EPSY 6311 Advanced Child Psychology

EDCI 6322 The Bilingual Child

EDCI 6330 The Curriculum in the Elementary school

EPSY 6360 Introduction to Guidance and Counseling

EDCI 6367 Statistical Methods

EDSU 6370 Supervision of Instruction

EDAD 6397 Analysis of Teaching Behavior

Resource Areas: 6-12 hours

READ 6323 Problems in the Teaching of Reading

READ 6325 Practicum in Reading Instruction

READ 6329 Diagnostic Teaching of Reading

Or 6 hours from any of the graduate level courses outside the major or minor fields may be taken as resource area courses.

Degree Requirements: 6 hours

EDCI 6312 Educational Measurement

EDCI 6300 Introduction to Research

## M.Ed. – Education

### 30-Hour Thesis Program

Major: Elementary Education

Certificate: Professional Elementary

Specialization Program: 12 hours

12 hours of graduate level courses in one of the following fields or a combination of two divided 9-3 or 6-6: Biology, English, Political Science, Health, Kinesiology, History, Mathematics, Spanish.

Professional Development: 6 hours

EDCI 7300, 7301 Thesis

Resource Area: 6 hours

SPED 5372 Individual Differences

EDEC 5390 Adv. Studies in Development of Young Children

EDEC 5391 Constructing Curr. for Early Childhood Centers

EDEC 5392 Research and Development of Creative Activities for Young Children

EDEC 5393 Advanced Studies of Cultural Diversity in Early Childhood Centers

EDCI 6322 The Bilingual Child

READ 6323 Problems in the Teaching of Reading

READ 6325 Practicum in Reading Instruction

READ 6329 Diagnostic Teaching of Reading

EDCI 6330 The Curriculum in the Elementary School

Or 6 hours from any other graduate level courses outside the major or minor fields may be taken as resource area courses.

Degree Requirements: 6 hours

EDCI 6312 Educational Measurement

EDCI 6300 Introduction to Research

## Bilingual Education

The role of the bilingual/bicultural education specialist is that of a leader and master teacher in the field. Such a field requires knowledge, skills, and attitudes which are characterized by language, cultural, and instructional dimensions. The M. Ed. Degree with specialization in Bilingual Education provides an opportunity to develop such characteristics.

The following is the program for the Master of Education Degree with specialization in Bilingual Education:

## M.Ed. – Elementary Education

### 36-Hour Non-Thesis Program

Certificate: Professional Elementary Provisional Bilingual

Professional Development: 12 hours

READ 6309 Topics in Reading

EDCI 6335 Teaching Elem School Subjects in Bilingual School

EDCI 6319 Practicum in Bilingual Education

EDCI 6324 Second Language Teaching: Theory & Methodology

Specialization Area: 12 hours

Language Component: 6 hours

SPAN 6341 Special Studies in Spanish Literature

Select 3 hours from:

ENGL 6354 Linguistics and Reading

ENGL 6355 Second Language Acquisition

Socio-Historical Component: 6 hours

Select 3 hours from:

SOCI 6313 American Minorities

SOCI 6323 The Mexican-American People

Select 3 hours from:

HIST 6314 Brownsville and Matamoros History

HIST 6316 Studies in Mexican and American Heritages

Resource Area: 6 hours

EPSY 6302 Advanced Educational Psychology

Select 3 hours from:

EDCI 6388 Socio-Cultural Foundations of Education

EDCI 6322 The Bilingual Child

Degree Requirements: 6 hours

EDCI 6312 Educational Measurement

EDCI 6300 Introduction to Research



## Guidance and Counseling

The counselor is an integral part of the supportive services in public school education who serves to facilitate the growth and learning of students. The counselor, upon completion of the 39-hour M.Ed. in Counseling and Guidance, should have competencies in:

- Planning, Organization, and Evaluation
- Individual and Group Counseling
- Consultation
- Coordination

Students need to take the following courses in sequence within the first 12 to 18 semester hours of the program and prior to taking the oral examination: EDCI 6300, ED 6302, EPSY 6360, EPSY 6363, and ED 6362.

The following is the program for M.Ed. Degree with specialization in elementary and secondary Guidance and Counseling. For licensure requirements contact your academic advisor prior to beginning your counselor program.

## M.Ed. – Elementary Education 39-Hour Thesis Program

Major: Elementary Education  
Certificate: Counselor

**The Guidance Program: 3 hours**

EPSY 6360 Introduction to Guidance and Counseling

**The Pupil Served: 6 hours**

EPSY 6302 Advanced Educational Psychology

EDCI 6322 The Bilingual Child

**Thesis: 6 hours**

EDCI 7300, 7301 Thesis

**Degree Requirements: 6 hours**

EDCI 6312 Educational Measurement

EDCI 6300 Introduction to Research

**Resource Area: 18 hours**

EDEC 5372 Individual Differences

EPSY 6311 Advanced Child Psychology

EPSY 6314 Psycho-educational Assessment I+

READ 6323 Problems in the Teaching of Reading

EDCI 6330 The Curriculum in the Elementary School

EPSY 6342 Problems in Guidance

EPSY 6344 Psycho-educational Assessment II+

EPSY 6345 Educational and Occupational Information+

EPSY 6362 Theories and Techniques in Counseling+

EPSY 6363 Personal Growth+

EPSY 6365 Counseling Practicum I+

EPSY 6366 Counseling Practicum II

EDCI 6367 Statistical Methods

EPSY 6368 Group Counseling+

EDSU 6370 Supervision of Instruction

EDAD 6386 Administration of Pupil Personnel Services

EDAD 6393 Administration of School Staff Personnel

EDAD 6394 Psychology of Decision Making

EDAD 6397 Analysis of Teaching Behavior

PSYC 5313 Abnormal Psychology+

PSYC 5318 Learning Theories

PSYC 5333 Theories of Personality

SOCI 6313 American Minorities

+Required for licensure program (45 hours)

## M.Ed. – Education 39-Hour Non-Thesis Program

Major: Elementary Education  
Certificate: Counselor

**The Guidance Program: 3 hours**

EPSY 6360 Introduction to Guidance and Counseling

**The Pupil Served: 6 hours**

EPSY 6302 Advanced Educational Psychology

EDCI 6322 The Bilingual Child

**Degree Requirements: 6 hours**

EDCI 6312 Educational Measurement

EDCI 6300 Introduction to Research

**Resource Areas: 18 hours**

EPSY 6302 Advanced Educational Psychology

EPSY 6345 Educational and Occupational Information+

EPSY 6362 Theories and Techniques in Counseling+

EPSY 6363 Personal Growth+

EPSY 6365 Counseling Practicum+

EPSY 6368 Group Counseling+

**6 hours from: 6 hours**

EPSY 6314 Psycho-educational Assessment I+  
or

EPSY 6344 Psycho-educational Assessment II+

SPED 5372 Individual Differences

EPSY 6311 Advanced Child Psychology

READ 6323 Problems in the Teaching of Reading

EDCI 6330 The Curriculum in the Secondary School

EPSY 6342 Problems in Guidance and Counseling+

EPSY 6366 Counseling Practicum II+

EDCI 6367 Statistical Methods

EDSU 6370 Supervision of Instruction

EDAD 6386 Administration of Pupil Personnel Services

EDAD 6393 Administration of School Staff Personnel

EDAD 6394 Psychology of Decision Making

EDAD 6397 Analysis of Teaching Behavior

PSYC 5318 Learning Theories

PSYC 5313 Abnormal Psychology+

PSYC 5333 Theories of Personality

SOCI 5313 American Minorities

+Required for licensure program (45 hours)



## M.Ed. – Education 39-Hour Non-Thesis Program

Major: Secondary Education  
Certificate: Counselor

The Guidance Program: 3 hours

EPSY 6360 Introduction to Guidance and Counseling

The Pupil Served: 6 hours

EPSY 6302 Advanced Educational Psychology

ED 6353 Teaching the Disadvantaged Secondary Learner

Degree Requirements: 6 hours

EDCI 6300 Introduction to Research

EPSY 5342 Tests and Measurements for the  
Secondary Classroom Teacher

Resource Areas: 18 hours

EPSY 6345 Educational and Occupational Information+

EPSY 6362 Theories and Techniques in Counseling+

EPSY 6363 Personal Growth+

EPSY 6365 Counseling Practicum+

EPSY 6368 Group Counseling+

EPSY 6314 Psycho-educational Assessment I+

3-6 hours from: 6 hours

EPSY 6344 Psycho-educational Assessment II+

EDEC 5372 Individual Differences

EDSU 6306 Supervision of Student Teaching

EDCI 6331 The Curriculum in the Secondary School

EPSY 6341 Advanced Adolescent Psychology

EPSY 6342 Problems in Guidance and Counseling+

EPSY 6366 Counseling Practicum II+

EDCI 6367 Statistical Methods

EDSU 6370 Supervision of Instruction

EDAD 6386 Administration of Pupil Personnel Services

EDAD 6393 Administration of School Staff Personnel

EDAD 6394 Psychology of Decision Making

EDAD 6397 Analysis of Teaching Behavior

PSYC 5313 Abnormal Psychology

PSYC 5318 Learning Theories

PSYC 5333 Theories of Personality

SOCI 5313 American Minorities

+Required for licensure program (45 hours)

## M.Ed. – Education 39-Hour Thesis Program

Major: Secondary Education  
Certification: Counselor

The Guidance Program: 3 hours

EPSY 6360 Introduction to Guidance and Counseling

The Pupil Served: 6 hours

EPSY 6302 Advanced Educational Psychology

EDCI 6353 Teaching the Disadvantaged Secondary Learner

Thesis: 6 hours

EDCI 7300, 7301 Thesis

Degree Requirements: 6 hours

EPSY 5342 Tests and Measurements for the  
Secondary Classroom Teacher

EDCI 6300 Introduction to Research

Resource Area: 18 hours

PSYC 5313 Abnormal Psychology+

EDEC 5372 Individual Differences: Survey and Treatment

EDCI 6331 The Curriculum in the Secondary School

EPSY 6341 Advanced Adolescent Psychology

EPSY 6344 Psycho-educational Assessment II+

EPSY 6345 Educational and Occupational Information+

EPSY 6362 Theories and Techniques of Counseling+

EPSY 6363 Personal Growth+

EPSY 6365 Counseling Practicum+

EPSY 6366 Counseling Practicum II+

EDCI 6367 Statistical Methods

EPSY 6368 Group Counseling+

EDSU 6370 Supervision of Instruction

EDAD 6386 Administration of Pupil Personnel Services

EDAD 6394 Psychology of Decision Making

EDAD 6397 Analysis of Teaching Behavior

PSYC 5313 Abnormal Psychology

PSYC 5318 Learning Theories

PSYC 5333 Theories of Personality

SOCI 6313 American Minorities

+Required for licensure program (45 hours)

## Supervision

The instructional supervisor is an integral part of the leadership team which manages the systems of public education in American society. The Master degree program in supervision emphasizes the training of supervisors, who are competent in such areas as curriculum improvement, leadership skills, instructional practices improvement, the selection and utilization of media and materials, and in planning and directing personnel development activities.

The 39-hour program provides opportunities for several areas of specialization at both the elementary and secondary school levels. It is recommended that the student complete the following courses prior to the oral examination: EDCI 6300, EDSU 6370, EDCI 6301, EPSY 6302 or PSYC 5318. The Practicum, EDSU 6371 and EDSU 6379, should be the last six hours of the student's program.

## M.Ed. – Education 39-Hour Non-Thesis Program

Major: Supervision  
Certificate: Supervisor

Leadership for Instructional Improvement: 18 hours  
Curriculum and Staff Development

- EDCI 6330 The Curriculum in the Elementary School  
or  
EDCI 6331 The Curriculum in the Secondary School  
EDCI 6334 Curriculum Development-Problems & Procedures  
EDSU 6397 Analysis of Teaching Behavior  
**Theory & Practice of Instruction Leadership**  
EDSU 6370 Supervision of Instruction  
EDSU 6371 Practicum in Supervision  
EDSU 6379 Problems in Educational Supervision

Learning Theory and Instructional Technology: 6 hours

- EDCI 6301 Instructional Media in Teaching  
EPSY 6302 Advanced Educational Psychology, or  
PSYC 5318 Learning Theories

Research Tools: 6 hours

- EDCI 6300 Introduction to Research  
EDCI 6367 Statistical Methods

Resource Area: 9 hours

With approval of the advisor, the student will select graduate courses from such areas as: Elementary Education, Secondary Education, Bilingual/ Bicultural Education, Reading, Early Childhood Education, Special Education, disciplines outside of Education, or professional development courses.

## M.Ed. – Education 36-Hour Thesis

Major: Supervisor  
Certificate: Supervisor

Leadership for Instructional Improvement: 18 hours  
Curriculum and Staff Development

- EDCI 6330 The Curriculum in the Elementary School or  
EDCI 6331 The Curriculum in the Secondary School  
EDCI 6334 Curriculum Development-Problems & Procedures  
EDAD 6397 Analysis of Teaching Behavior  
**Theory and Practice of Instruction Leadership**  
EDSU 6370 Supervision of Instruction  
EDSU 6371 Practicum in Supervision  
EDSU 6379 Problems in Educational Supervision

Learning Theory and Instructional Technology: 3 hours

- EPSY 6302 Advanced Educational Psychology, or  
PSYC 5318 Learning Theories

Research Tools: 12 hours

- EDCI 6300 Introduction to Research  
EDCI 6367 Statistical Methods  
EDCI 7300 Thesis (Problem Definition)  
EDCI 7301 Thesis Completion

Resource Area: 3 hours

With approval of the advisor, the student will select coursework from such areas as: Elementary Education, Secondary Education, Bilingual/ Bicultural Education, Special Education, disciplines outside of Education, or professional development courses.

## Reading Specialist

This major leading to the master degree in education is designed to provide the opportunity for the acquisition of knowledge and skills in reading instruction for teachers who plan to work with students at the developmental, corrective, or remedial levels in reading. Thirty-six semester credit hours are required and include developmental, corrective, and remedial reading instruction; courses in linguistics; language arts; children's/adolescents' literature; research; and testing and measurement. A comprehensive examination is required.

## M.Ed. – Education 36-Hour Non-Thesis Program

Major: Reading-All Level  
Certificate: Reading Specialist

For students holding an Elementary Provisional Certificate  
Reading Area: 18 hours

- READ 6308 Foundations of Reading Instruction  
READ 6309 Topics in Reading  
READ 6310 Child and Adolescent Literature  
READ 6323 Problems in the Teaching of Reading  
READ 6325 Practicum in Reading Instruction  
READ 6329 Diagnostic Teaching of Reading

Resource Area: 6 hours

- SOCI 6313 American Minorities  
ENGL 6354 Linguistics and Reading

Professional Development: 6 hours

- \* READ 5351 Teaching Reading to the Secondary Student  
EPSY 6341 Advanced Adolescent Psychology or  
EDCI 6331 Curriculum in the Secondary School

\* If the student had ED 4351 at the undergraduate level, he/she will substitute an elective approved by advisor.

Degree Requirements: 6 hours

- READ 5313 Reading Tests  
EDCI 6300 Introduction to Research

## M.Ed. – Education 36-Hour Non-Thesis Program

Major: Reading-All Level  
Certificate: Reading Specialist

For students holding a Secondary Provisional Certificate

Reading Area: 18 hours

- READ 6323 Problems in the Teaching of Reading
- READ 6308 Foundations of Reading Instruction
- READ 6309 Topics in Reading
- READ 6310 Child and Adolescent Literature
- READ 6329 Diagnostic Teaching of Reading
- READ 6325 Practicum in Reading Instruction

Resource Area: 6 hours

- SOCI 6313 American Minorities
- ENGL 6354 Linguistics and Reading

Professional Development: 6 hours

- READ 5351 Teaching Reading to the Secondary Student
- EPSY 6311 Advanced Child Psychology or
- EDCI 6330 Curriculum in the Elementary School

Degree Requirements: 6 hours

- READ 5313 Reading Tests
- EDCI 6300 Introduction to Research

*\*If the student had ED 4351 at the undergraduate level, he/she will substitute an elective approved by advisor.*

## Educational Administration

The educational administrator's program is designed to produce change-oriented administrators who are competent in such areas as administrative leadership, school organization and management, school law, finance, and contemporary personnel practices.

A 36-hour Master of Education program is offered. Upon successful completion of an additional 15 hours minimum in administration, the student may earn the Middle Management Certificate. Students desiring to complete either the degree or certificate program in Educational Administration must meet all the following requirements specified.

### I. Admission to the Graduate School.

- a. Completed application for admission to Graduate School (Contact Enrollment Office for forms and instructions.)

### II. Admission to Administrator's Program

- a. Have clear admission to Graduate School. (For guidelines to admissions, refer to the admissions section of this catalog).
- b. Complete an application for admission to the Administrator's Program. (Forms available in Office of Academic Advisor.)
- c. Handwrite a 300 word essay of the applicant's philosophy of School Administration.
- d. Request three practicing administrators to complete Recommendation Forms for admission of applicant to the program.
- e. Have approval and recommendation of Administrative Review Committee.

### III. Program Advisement and Program of Studies

- a. Confer with Chairperson of the Education Department for assignment of a program advisor.
- b. Confer with program advisor to make a degree and/or certificate plan of studies.
- c. Subsequent changes in the plan of study, such as substituting courses, must be requested on forms available in the office and approved by the program advisor and department head prior to carrying out the substitution. (Requests by students to use courses as substitutes which they have taken without prior written approval of their program advisor will not be accepted.)

### IV. Degree Candidates

- a. Apply for the Oral Examination (Admission to Candidacy) after completion of 12 semester hours of credit and prior to completion of 18 semester hours.
- b. Apply for the Comprehensive Examination at the beginning of the final semester and be advised of the date of the orientation and the examination.
- c. Students who do not pass the Comprehensive Examination should contact their advisor and arrange to review the Examination and take another at the next examination date.
- d. Student must apply for a degree at the Office of Student Affairs and pay the required fees.

### V. Application for Certification

- a. Upon completion of the required course work for any administration certificate, the student should make application in the Certification Office of the UTB School of Education Building.
- b. Students desiring to apply for a Temporary Administrator's Certificate should contact the Certification Officer or their advisor to determine if they qualify. (Requirements for this certificate are set by the Texas Education Agency, and UTB simply testifies that the student is working in the program and has done the work necessary to qualify. For details, students may refer to the Certification Handbook, which is available in the Certification Office and the Superintendent's Office of the local Public Schools.)
- c. Students completing all coursework after December 1985 will be required to demonstrate successful performance on a State Certification Test.

### General Notes

- A student is a bona fide candidate for an Administrator's Certificate when the Administrative Review Committee of the department has approved the application.

- Students enrolled in the Administrator's Program at UTB must receive written approval from the advisor before taking a course from another institution which they wish to apply to the UTB program. A student doing work at another institution should first get approval from that school before taking a course at UTB to avoid loss of hours or duplication.

- EDAD 6398 – Internship in Middle Management may not be taken by a student prior to the last 15 semester hours of the program. Any exception to or deviation from this policy must be recommended by the advisor and approved by the Chairperson of the Education Department on the basis of hardship or emergency situation or other detail warranting an exception.

## Master of Education Degree Program

For the student who is interested in attaining a Master of Education Degree and at the same time have these courses count toward certification, the Division offers a 36 hour Master of Education Degree. After obtaining the Master of Education Degree in Educational Administration, the student wishing to obtain certification must complete the appropriate program discussed below.

### Certification Program

**Middle Management Certification:** for the student who already possesses a Master of Education degree and who is interested in obtaining a Professional Mid-Management Administrator's Certificate, the Education Department offers a 45 Hour Minimum Certification Program.

**The Temporary Administrator's Certificate:** Current certification regulations permit issuance of a temporary certificate to persons being employed as administrators prior to their completing the requirements for full certification. This temporary certificate shall be valid for five years and cannot be renewed. UTB will recommend applicants for the Temporary Administrator's Certificate if they meet the following criteria:

- a. Assistant Principal
  1. Holds a bachelor's degree
  2. Holds a Provisional Teachers' Certificate
  3. Has two years of creditable classroom teaching experience
  4. Has been admitted to Graduate School
  5. Has a minimum of 12 graduate hours of the Common Core required for the Professional Administrator's certificate
  6. Has been approved by the Department Admissions Committee for the Administrator's Program
  7. Has completed application for the Temporary Assistant Principal Certificate
  8. Has obtained a Money Order or Cashier's Check for \$35.00, payable to Texas Education Agency
- b. Principal
  1. Holds a master's degree
  2. Holds a Provisional Teacher's Certificate
  3. Has two years of creditable classroom teaching experience
  4. Has been admitted to Graduate School
  5. Has a minimum of 12 graduate hours of the Common Core required for the Professional Administrator's Certificate
  6. Has been approved by the Department Admissions Committee for the Administrator's Program
  7. Has completed application for Temporary Administrator's Certificate
  8. Has obtained a Money Order or Cashier's Check for \$35.00, payable to Texas Education Agency

### M.Ed. – Educational Administration

**Educational Research: 6 hours**  
 EDCI 6300 Introduction to Research  
 EDCI 6367 Statistical Methods

**Common Core: 12 hours**  
 EDCI 6330 The Curriculum in the Elementary School or  
 EDCI 6331 The Curriculum in the Secondary School  
 ED 6384 Introduction to Educational Administration  
 EDSU 6370 Supervision of Instruction

**3 hours from:**  
 EDAD 6385 School Law  
 EDAD 6389 Administration of School Business Services  
 EDAD 6334 Curriculum Development

**Resource Area: 9**

**3 hours from:**  
 SOCI 6313 American Minorities  
 EDCI 6388 Socio-Cultural Foundations of Education

**6 hours graduate courses from such areas as:** Sociology, psychology, business administration, and economics to provide breadth and understanding of the role of the Professional administrator. (Courses will be selected in consultation with advisor).

**Specialized Preparation in Administration: 9**

Required for Master of Education Degree:  
 EDAD 6337 Administration of Special Instructional Program  
 EDAD 6338 The Principalship  
 EDAD 6397 Analysis of Teaching Behavior  
 Total: 36 hours

### M.Ed. – Educational Administration Certificate: Middle Management

**45 Hour Program**

**Common Core: 18 hours**  
 EDCI 6330 The Curriculum in the Elementary School or  
 EDCI 6331 The Curriculum in the Secondary School  
 EDAD 6384 Intro. to Educational Administration  
 EDSU 6370 Supervision of Instruction  
 EDAD 6385 Public School Law  
 EDAD 6389 Administration & Org. of School Business Services  
 EDCI 6334 Curriculum Development – Problems and Processes

**Resource Area: 9 hours**

**3 hours from:**  
 SOCI 6313 American Minorities  
 EDCI 6388 Socio-Cultural Foundations of Education

**6 hours from:** Sociology, psychology, business administration, and economics to provide breadth and understanding of the role of the Professional administrator. (Courses will be selected in consultation with advisor).

**Specialized Preparation for Administration: 18 hours**

**Required:**  
 EDAD 6337 Administration of Special Instructional Program  
 EDAD 6338 The Principalship  
 EDAD 6398 Internship in Middle Management  
 EDAD 6397 Analysis of Teaching Behavior

**Select 6 hours from:**  
 EDAD 6381 Problems in Organization & Administration of Public Schools  
 EDAD 6386 Administration of Pupil Personnel Services  
 EDAD 6393 The Administration of School Staff Personnel  
 EDAD 6394 Psychology of Decision-Making  
 EDCI 6336 Problems in Education (Topic must be approved by Advisor prior to enrollment)



## NON-TEACHER CERTIFICATION PROGRAMS

### B.S. – Kinesiology/Exercise Science (Non-Certification)

The Department of Education offers a bachelor's degree program in Exercise Science and Kinesiology.

#### Exercise Science

The program emphasizes the study of exercise from an integrated biochemical, neurological, physiological, and biomechanical perspective. The program is offered to undergraduate students who wish to prepare for work in such diverse fields as medical and allied health professions industry, private business, hospitals, state and private institutions, and amateur and professional sport teams that require expertise dealing with multidimensional aspects of exercise and fitness.

#### Kinesiology

The program is offered to undergraduate students who intend to prepare for careers as teachers in the subject field of kinesiology. Successful completion of the respective undergraduate program of study, fulfillment of legal prerequisites and completion of the ExCET will qualify students for State Certification as elementary, secondary or all-level teacher in kinesiology. In addition, graduates will be qualified as athletic coaches in their areas of expertise.

Tracks for the Kinesiology/Exercise Science consists of the Core, Concentration, and Sport Activity courses.

Core: 21 hours

- EDCI 1301 Intro. to Sport and Exercise Science
  - EDCI 1306 First Aid
  - EDCI 2370 Kinesiology (Biomechanics)
  - EDCI 3302 Foundations of Sport & Exercise Science for Pre-Adolescents
  - EDCI 3309 Modified Team and Individual Sports
  - EDCI 3353 Physiology of Exercise & Human Performance
  - EDCI 4310 Measurement Techn. in Physical Exercise & Sports
- Exercise Science: 21 hours
- EDCI 3312 The Intramural Program
  - EDCI 3320 History & Principles of Sport & Movement Science
  - EDCI 3352 Care, Treatment & Prevention of Athletic Injuries
  - EDCI 4320 Management of Sports and Recreation Programs
  - EDCI 4351 The Adapted Kinesiology Program
  - EDCI 4356 Motor Learning and Human Performance
  - EDCI 4360 Water Sports and Safety Instructions

Kinesiology\*: 36 hours

- EDCI 3311 Psychological Behavior in Sports
- EDCI 3314 Dance for Children and Adolescents
- EDCI 4317 Theory of Gymnastics
- EDCI 3820 History and Principles of Sport and Movement Science
- EDCI 3356 Aesthetics of Movement
- EDCI 4351 The Adapted Kinesiology Program

Activity Courses : 4 hours

- Swimming
- Gymnastics
- Team Sports

- Individual Sports
- Social/Folk/Square Dance

\* Course requirements may vary according to certification level.

For details on Teacher Certifications in Kinesiology refer to Elementary, Secondary, or All-level.

### B.S. – Kinesiology Minor

19-28 hours; a minimum of 12 must be advanced

- KINE 1306 First Aid
- KINE 3311 Psychological Behavior in Sports
- KINE 3314 Theories and their Application in Dance Activities
- KINE 3317 Theory of Gymnastics
- KINE 3320 History & Principles of Sport & Movement Science

Activity Courses: 4 hours

- Swimming
- Gymnastics
- Team Sports
- Individual Sports - Net, Racket, Ball
- Social/Folk/Square Dance

For details on Teacher Certifications in Kinesiology refer to Elementary, Secondary, or All-level.

## Delivery System Minors Degree Requirements

The Department offers the following minors that can be taken as part of BA/BS programs.

### Bilingual Education:

Minimum of 24 hours advanced

Academic Element:

- EDCI 3305 Socio-Cultural Foundations of Education
- EDCI 3316 Teaching Spanish Reading in Bilingual Classroom
- EDCI 3322 Foundations of Bilingual Education
- EDCI 4304 First Lang. Learning & Second Lang. Acquisition
- ENGL 3319 Introduction to Descriptive Linguistics
- SPAN 3330 Spanish Grammar

Methodology Element:

- EDCI 3315 The Bilingual Curriculum in the Content Areas
- EDCI 3324 English as a Second Language

### Early Childhood Education

24 hours; minimum of 18 hours advanced

- TCCD 2356 Nutrition & Safety for Children
- PSYC 2308 Child Psychology
- EDEC 4390 Growth and Development in Early Childhood
- EDEC 4391 The Environment and Early Childhood
- EDEC 4392 Language, Creativity and Self-expression in Early Childhood
- EDEC 4393 Cultural Dimensions Related to Early Childhood Education

Methodology Element:

- EDEC 4314 Seminar and Practicum in Early Childhood Ed.
- EDEC 4394 Basic Skills in Early Childhood Ed: Foundations for Formal Learning



## Generic Special Education

27 hours; minimum of 21 hours advanced

### Academic Element:

- EDUC 2370 The Exceptional Child
  - SPED 4301 Perception and Language Development
  - SPED 4302 Perception and Cognitive Development
  - SPED 4307 Field Experience in Generic Special Ed
  - SPED 4371 Testing and Assessment of Exceptional Individuals
  - SPED 4372 Exceptional Children
  - KINE 4351 Adapted
- Methodology Element:**
- SPED 4303 Individualized Instruction for Mildly & Moderately Disabled
  - SPED 4309 Practicum in Generic Special Education

## Reading

18-24 hours advanced

- READ 3327 Reading for the Exceptional Child & the Culturally Diverse Child
- READ 3329 Correcting Reading Problems

3 hours from: 3

- READ 3323 Developmental Reading in Elem School
- READ 4351 Developmental Reading in Sec School

9-15 hours from: 9-15

- READ 3313 Introduction to Reading
- READ 3323 Developmental Reading in Elem Schools
- READ 3326 Reading Across the Curriculum Content Areas
- READ 3328 Reading Acquisition
- READ 3351 Literature for the Young Adult
- READ 4351 Developmental Reading in Sec Schools or
- READ 4367 Teaching Reading to Children w/Limited Proficiency in English
- READ 4369 Reading Practicum

# CHILD CARE AND DEVELOPMENT PROGRAM

## Certificate of Proficiency – Child Care and Development

Freshman Year

### First Semester

- |              |                              |           |
|--------------|------------------------------|-----------|
| TCCD 1301    | Language Arts                | 3         |
| TCCD 1306    | Child Growth and Development | 3         |
| TCCD 1411    | TCCD Lab Experience I        | 1         |
| KINE 1306    | First Aid*                   | 3         |
| <b>Total</b> |                              | <b>10</b> |

### Second Semester

- |              |                                   |           |
|--------------|-----------------------------------|-----------|
| TCCD 1321    | Infant Care                       | 3         |
| TCCD 1326    | Curriculum Development            | 3         |
| TCCD 1421    | TCCD Lab Experience II Elective** | 1         |
| <b>Total</b> |                                   | <b>10</b> |

## Sophomore Year

### First Semester

- |           |                                     |
|-----------|-------------------------------------|
| TCCD 1331 | Creative Arts, Recreation and Music |
| TCCD 1231 | TCCD Lab Experience III             |
| TCCD 1341 | Organization and Management         |
| TCCD 1241 | TCCD Lab Experience IV              |
| MATH 1313 | College Mathematics*                |

### Total

### Second Semester

- |           |                                       |
|-----------|---------------------------------------|
| TCCD 2351 | Exceptional Child                     |
| TCCD 2451 | TCCD Lab Experience V                 |
| TCCD 2356 | Nutrition, Health & Safety Elective** |

### Total

## A.A.S. – Child Care and Development

Freshman Year

### First Semester

- |           |                              |             |
|-----------|------------------------------|-------------|
| TCCD 1301 | Language Arts                | Credit Hour |
| TCCD 1306 | Child Growth and Development |             |
| TCCD 1411 | TCCD Lab Experience I        |             |
| KINE 1306 | First Aid*                   |             |

### Total

### Second Semester

- |           |                        |             |
|-----------|------------------------|-------------|
| TCCD 1321 | Infant Care            | Credit Hour |
| TCCD 1326 | Curriculum Development |             |
| TCCD 1421 | TCCD Lab Experience II |             |
| PSYC 2308 | Child Psychology*      |             |

### Total

### First Summer Session

- |           |                                   |             |
|-----------|-----------------------------------|-------------|
| TCCD 1331 | Creative Arts, Recreation & Music | Credit Hour |
| TCCD 1231 | TCCD Lab Experience III           |             |

### Total

### Second Summer Session

- |           |                             |             |
|-----------|-----------------------------|-------------|
| TCCD 1341 | Organization and Management | Credit Hour |
| TCCD 1241 | TCCD Lab Experience IV      |             |

### Total

Sophomore Year

### First Semester

- |           |                              |             |
|-----------|------------------------------|-------------|
| TCCD 2351 | Exceptional Child            | Credit Hour |
| TCCD 2451 | TCCD Lab Experience V        |             |
| TCCD 2356 | Nutrition, Health and Safety |             |
| GOVT 2301 | American Government I*       |             |
| MATH 1313 | College Mathematics*         |             |

### Total

### Second Semester

- |           |                                    |             |
|-----------|------------------------------------|-------------|
| TCIS 2316 | Business Systems Design*           | Credit Hour |
| ENGL 1301 | Composition I*                     |             |
| SPCH 1315 | Fundamentals of Speech* Elective** |             |
|           | Elective**                         |             |

### Total

### Credit Hour Summary

TCCD	40 Credit Hours
*General Education	21 Credit Hours
**Electives	6 Credit Hours
<b>Total</b>	<b>67 Credit Hours</b>

\*\*Electives may be any non-developmental college courses. Those who desire transfer to a senior institution should see counselor to ensure transfer of credit.

UTB School of Health Sciences is committed to:

- educate health care personnel in specific areas of need and in sufficient numbers to contribute significantly to the improvement of health care in the Rio Grande Valley and surrounding areas.
- demand academic excellence and mastery of the identified competencies for entry level in the respective health careers offered.
- utilize the holistic approach in meeting the needs of the students in the areas of nursing and allied health.

- recognizing responsibilities of other laboratory and health care personnel and interacting with them with respect for their jobs and patient care.
- applying basic scientific principles to learn new techniques and procedures.
- relating laboratory findings to common disease processes.
- recognizing and acting upon their needs for continuing education to maintain and increase professional competence.

## ALLIED HEALTH DEPARTMENT

### Medical Laboratory Technology

*Program accredited by Committee on Allied Health Education and Accreditation of the American Medical Association; National Accrediting for Clinical Laboratory Sciences Phlebotomy Certificate, Associate in Applied Science Degree*

The two-year program prepares medical laboratory technicians by formal instruction and clinical learning experience that teach and offer students the opportunity to acquire the knowledge and skills necessary to perform clinical laboratory procedures. Upon satisfactory completion of the program, the student is eligible to receive an Associated Degree in Applied Science and is eligible to sit for the MLT (ASCP) or CLT (NCA) national certification examinations.

Students who take and pass additional course in advanced phlebotomy, TMLT 0152, will also receive a certificate of proficiency in phlebotomy. A limited number of additional students may enroll in the courses for the phlebotomy certificate only. Phlebotomists work under the supervision of a Medical Technologist and collect blood specimens for laboratory analysis.

**Admission Requirement and Procedures:** Applicants must complete several admission procedures before registration, including completing an application form, providing school records, and taking achievement Tests. Interested students should contact the Program Director to request application information.

#### Program Competencies

After completing the program, students will have been given the opportunity to acquire the necessary skills for:

- collecting and processing biological specimens for analysis.
- performing analytical tests on body fluids, cells, and products.
- recognizing factors that affect procedures and results, and taking appropriate actions within predetermined limits when corrections are indicated.
- monitoring quality control within predetermined limits.
- performing preventive and corrective maintenance of equipment and instruments or referring to appropriate sources for repairs.
- demonstrating professional conduct and interpersonal communication skills with patients, laboratory personnel, other health care professionals, and with the public.

### Phlebotomy Certificate

First Semester			Credit Hours
BIOL	2401	Human Anatomy and Physiology I *	4
TMLT	1405	Introduction to Clinical Lab	4
TMLT	1190	Practicum 1 - Phlebotomy	1
<b>Total</b>			<b>9</b>
Second Semester			Credit Hours
BIOL	2402	Human Anatomy and Physiology II *	4
TMLT	1293	Advanced Phlebotomy	2
<b>Total</b>			<b>6</b>

#### Credit Hour Summary

Medical Lab Technology	7 Credit Hours
*General Education	8 Credit Hours
<b>Total</b>	<b>15 Credit Hours</b>

### A.A.S. - Medical Laboratory Technology

#### Freshman Year

First Semester			Credit Hours
MATH	1313	College Math, or*	
MATH	1314	College Algebra*	3
BIOL	2401	Human Anatomy and Physiology I*	4
CHEM	1305	Introduction to Chemistry, and*	3
CHEM	1105	Introduction to Chemistry Lab,* or	1
CHEM	1311	General Chemistry, and*	3
CHEM	1111	General Chemistry Lab*	1
TMLT	1405	Introduction to Clinical Lab	4
TMLT	1190	Practicum I - Phlebotomy	1
<b>Total</b>			<b>16</b>
Second Semester			Credit Hours
BIOL	2402	Human Anatomy and Physiology II*	4
TMLT	1305	Immunology	3
TMLT	1415	Clinical Microbiology	4
TMLT	1315	Parasitology, Myco/Mycobact. Elective**	3 1
<b>Total</b>			<b>15</b>

First Summer Session			Credit Hours
TMLT	1505	Hematology	5
<b>Total</b>			<b>5</b>
Second Summer Session			Credit Hours
TMLT	1290	Clinical Practicum II Elective**	2 3
<b>Total</b>			<b>5</b>

#### Sophomore Year

First Semester			Credit Hours
ENGL	1301	Composition I *	3
TMLT	2705	Clinical Chemistry	7
TMLT	2405	Immunohematology	4
TMLT	2290	Clinical Practicum III	2
<b>Total</b>			<b>16</b>

Second Semester		Credit Hours
MLT	2110 Seminar	1
MLT	2293 Clinical Practicum IV	2
MLT	2296 Clinical Practicum V	2
SPCH	1318 Interpersonal Communication *	3
	Social/Behavioral Science Course***	3
	Computer Course****	3
<b>Total</b>		<b>14</b>

### Credit Hour Summary

Medical Lab Tech.	40 Credit Hours
*General Education	27 Credit Hours
Elective	4 Credit Hours
<b>Total</b>	<b>71 Credit Hours</b>

\*\* Electives may be any non-developmental course.

\*\*\* Choose from PSYC 2302, 2301, 2314, 2319, SOCI 1301

\*\*\*\* Choose from TCIS 1404, TCIS 1311 or COSC 1301

For students who plan to eventually complete a baccalaureate degree should take two semesters of general Chemistry (CHEM 1311, CHEM 1111, CHEM 1312 and CHEM 1112) along with MATH 1314 and MATH 1313. These courses are more likely to transfer to a four-year program.

## Radiologic Technology

### Associate in Applied Science Degree

Accredited by The Joint Review Committee on Education in Radiologic Technology and The Committee on Allied Health Education; Accreditation of the American Medical Association;

Approved by American Registry of Radiologic Technologists

This program offers students the opportunity to prepare to be competent, professional radiologic technologists. The curriculum combines technical and academic courses to teach students to understand the technical skills as well as administrative duties in the Department of Radiology. After completing this program, the student receives an Associate in Applied Science Degree in Radiologic Technology and is then eligible to take the registry examination for certification as a registered Radiologic Technologist required by the American Registry of Radiologic Technologist. A grade of "C" or better is required for each course in this degree plan.

**Admission Requirement and Procedures:** Applicants must complete several admission procedures before registration including completing an application form, providing school records, and taking achievement tests. Interested students should contact the Program Director to request application information and advice on possible courses to take before entering the Radiologic Technology Program.

### Program Objectives

This program gives students the opportunity to acquire the skills necessary to:

- apply knowledge of anatomy, physiology, positioning and radiographic techniques to accurately show anatomical structures on a radiograph or other imaging receptor.
- determine exposure factors to achieve the best radiographic techniques with the least radiation exposure to the patient.

- evaluate radiographic images for positioning and image quality.
- provide patient care and comfort.
- evaluate the performance of radiologic systems and know the safe limits of equipment operation.
- exercise judgment and discretion in performing medical imaging procedures.

## A.A.S. - Radiologic Technology

### Freshman Year

Spring Semester	Credit Hours
TRAD 1405 Basic Radiographic Practices	
TRAD 1310 Intro. to Radiologic Technology	
BIOL 2401 Human Anatomy and Physiology I *	
ENGL 1301 Composition I *	
<b>Total</b>	

First Summer Session	Credit Hours
TRAD 1190 Clinical Applications	
MATH 1314 College Algebra *	
<b>Total</b>	

Second Summer Session	Credit Hours
TRAD 1193 Clinical Applications	
<b>Total</b>	

Fall Semester	Credit Hours
TRAD 1415 Radiologic Techniques	
TRAD 1425 X-Ray Physics	
TRAD 1320 Rad. Film Evaluation & Pathology	
TRAD 1290 Clinical Applications	
BIOL 2402 Human Anatomy and Physiology II *	
<b>Total</b>	

### Sophomore Year

Spring Semester	Credit Hours
TRAD 2310 Advanced Radiologic Procedures	
TRAD 2320 Radiation Protection	
TRAD 2290 Clinical Applications Elective **	
TCIS 1311 Computer Systems Fundamentals	
<b>Total</b>	

First Summer Session	Credit Hours
TRAD 2190 Clinical Applications	
SPCH 1318 Interpersonal Communication *	
<b>Total</b>	

Second Summer Session	Credit Hours
TRAD 2193 Clinical Applications	
<b>Total</b>	

Fall Semester	Credit Hours
TRAD 2293 Clinical Applications	
TRAD 2210 Radiologic Technology I	
TRAD 2220 Radiologic Technology II	
PSYC 2301 Introduction to Psychology Elective **	
<b>Total</b>	

### Credit Hour Summary

Radiologic Technology	38 Credit Hours
*General Education	23 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>67 Credit Hours</b>

\*\* Electives may be any non-developmental courses.



## Respiratory Therapy

*Certificate of Proficiency, Associate in Applied Science Degree*

*Accredited by American Medical Association's Committee on Allied Health Education Accreditation; Joint Review Committee for Respiratory Therapy Education*

The program leading to a Certificate of Proficiency in respiratory therapy offers students the opportunity to prepare to be entry-level respiratory care practitioners. The program leading to an A.A.S. degree in respiratory therapy prepares students as advanced practitioners.

Graduates of both programs are eligible to write the national certification examination and to apply for Certification as Respiratory Care Practitioners with the Texas Department of Health. Graduates of the respiratory therapist program are also eligible to write the examinations leading to the Registered Respiratory Therapist credential through the National Board for Respiratory Care.

### Program Objectives

This program gives students the opportunity to acquire the skills necessary to:

- review existing data, collect additional clinical data and recommend obtaining additional pertinent data; evaluate all data to determine the appropriateness of the prescribed respiratory care, and participate in developing the respiratory care plan.
- select, assemble and check all equipment used in providing respiratory care.
- initiate, conduct and modify prescribed therapeutic procedures to achieve one or more specific objectives, maintain patient records, and communicate relevant information to members of the health care team.
- assume responsibility for their own professional practice by adhering to legal and ethical standards, and be responsible for their professional growth.

## Certificate of Proficiency – Respiratory Therapy Technology

### Freshman Year

First Semester	Degree Plan
TRES 1190 Introduction to Patient Care+	1
TRES 1505 Equipment and Procedures +	5
TRES 1310 Applied Science for RT +	3
BIOL 2401 Human Anatomy and Physiology I */+	4
<b>Total</b>	<b>13</b>
Second Semester	Credit Hour
TRES 1515 Equipment and Procedures II +	5
TRES 1290 Clinical Practicum I +	2
TRES 1210 Patient Assessment +	2
BIOL 2402 Human Anatomy and Physiology II */+	4
<b>Total</b>	<b>13</b>
First Summer Session	Credit Hours
TRES 1220 Pathophysiology I +	2
TRES 1293 Clinical Practicum II +	2
<b>Total</b>	<b>2</b>
Second Summer Session	Credit Hours
TRES 1110 Respiratory Care Seminar	1

TRES 1296 Clinical Practicum III	2
<b>Total</b>	<b>3</b>
<b>Total Hours</b>	<b>33</b>

### Credit Hour Summary

RTT	25 Credit Hours
*General Education	8 Credit Hours
<b>Total</b>	<b>33 Credit Hours</b>

+ Courses also in the Therapist degree plan

Note: Current certification in CPR-Mod C is required to register for Clinical Practicums.

## A.A.S. – Respiratory Therapy

Prerequisite Courses:	Credit Hours
BIOL** 2401 Human Anatomy and Physiology I	4
BIOL** 2402 Human Anatomy and Physiology II	4

Note: Certification in CPR-Mod C is required prior to enrolling in clinical practicums.

### Freshman Year

First Semester	Credit Hours
TRES 1190 Introduction to Patient Care +	1
TRES 1505 Equipment and Procedures +	5
MATH 1313 College Math *	3
CHEM 1305 Introduction to Chemistry I *	3
CHEM 1105 Introduction to Chemistry I Lab *	1
ENGL 1301 Composition I *	3
<b>Total</b>	<b>16</b>

Second Semester	Credit Hours
TRES 1515 Equipment and Procedures II +	5
TRES 1200 Clinical Practicum I +	2
TRES 1210 Patient Assessment +	2
PHYS 1410 Applied Physics *	4
<b>Total</b>	<b>13</b>

First Summer Session	Credit Hours
TRES 1220 Pathophysiology I +	2
TRES 1293 Clinical Practicum II +	2
<b>Total</b>	<b>4</b>

Second Summer Session	Credit Hours
TRES 1120 Pathophysiology II	1
BIOL 2420 Microbiology *	4
<b>Total</b>	<b>5</b>

### Sophomore Year

First Semester	Credit Hours
TRES 2305 Diagnostic Procedures	3
TRES 2315 Pediatrics and Neonatology	3
TRES 2110 Advanced Level Pharmacology	1
TRES 2290 Advanced Level Practicum I Elective **	2
<b>Total</b>	<b>12</b>

Second Semester	Credit Hours
TRES 2610 Advanced Level Procedures	6
TRES 2293 Advanced Level Practicum II	2
PSYC 2302 Introduction to Psychology, * or	
SOCI 1301 Introduction to Sociology *	3
Elective **	3
<b>Total</b>	<b>14</b>

<b>Total Therapist</b>	<b>72</b>
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### Credit Hour Summary

RTT	37 Credit Hours
General Education*	29 Credit Hours
Electives	6 Credit Hours
<b>Total</b>	<b>72 Credit Hours</b>

\*\* Electives may be any non-developmental courses.

+ Courses also in the one-year certificate curriculum.

## Emergency Medical Technology

### Certificate of Proficiency – Emergency Medical Technology

#### Freshman Year

Fall Semester	Credit Hours
TEMT 1705 EMT – Basic	7
TEMT 1190 Clinical Practicum	1
TEMT 1191 AmbulanceRotation	1
<b>Total</b>	<b>9</b>

*Exit Point: Emergency Medical Technician, 272 hours, 9 credits*

Spring Semester	Credit Hours
TEMT 1715 EMT – Intermediate	7
<b>Total</b>	<b>9</b>

First Summer Session	Credit Hours
TEMT 1193 Intermediate – Clinical & ALS Practicum	1
<b>Total</b>	<b>1</b>

*Exit Point: Emergency Medical Technician/Intermediate, 608 hours, 17 credits*

#### Sophomore Year

Fall Semester	Credit Hours
TEMT 2505 EMT – Paramedic I	5
TEMT 2301 EMS and the Law	3
<b>Total</b>	<b>8</b>

Second Semester	Credit Hours
TEMT 2515 EMT – Paramedic II	5
TEMT 2205 Triage and Management	2
TEMT 2315 Pharmacology	3
<b>Total</b>	<b>10</b>

First Summer Session	Credit Hours
TEMT 2525 EMT – Paramedic III	5
TEMT 2290 Paramedic Clinical Practicum I	2
TEMT 2190 Paramedic Mobile ICU Rotation I	1
<b>Total</b>	<b>8</b>

Second Summer Session	Credit Hours
TEMT 2192 Paramedic Clinical Practicum II	1
TEMT 2194 Paramedic Mobile ICU Rotation II	1
<b>Total</b>	<b>2</b>

*Exit Point: Emergency Medical Technician/Paramedic 1,456 hours, 45 credits*

### A.A.S. – Emergency Medical Technology

#### Freshman Year

Fall Semester	Credit Hours
TEMT 1705 EMT – Basic	7
TEMT 1190 Clinical Practicum	1
TEMT 1191 AmbulanceRotation	1
BIOL 2401 Human Anatomy and Physiology	4
<b>Total</b>	<b>13</b>

*Exit Point: Emergency Medical Technician, 384 hours, 13 credits*

Spring Semester	Credit Hours
TEMT 1715 EMT – Intermediate	7
BIOL 2402 Human Anatomy and Physiology	4
PSYC 2301 Introduction to Psychology	3
MATH 1313 College Mathematics	3
<b>Total</b>	<b>17</b>

First Summer Session	Credit Hours
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TEMT 1193 Intermediate – Clinical & ALS Practicum	1
<b>Total</b>	<b>1</b>
<i>Exit Point: Emergency Medical Technician/Intermediate, 768 hours, 31 credits</i>	

#### Sophomore Year

Fall Semester	Credit Hours
TEMT 2505 EMT – Paramedic I	5
TEMT 2301 EMS and the Law	3
ENGL 1301 Composition I	3
SPCH 1311 Fundamentals of Speech Elective**	3
<b>Total</b>	<b>17</b>

Second Semester	Credit Hours
TEMT 2515 EMT – Paramedic II	5
TEMT 2205 Triage and Management	2
TEMT 2315 Pharmacology Elective**	3
<b>Total</b>	<b>13</b>

First Summer Session	Credit Hours
TEMT 2525 EMT – Paramedic III	5
TEMT 2290 Paramedic Clinical Practicum I	2
TEMT 2190 Paramedic Mobile ICU Rotation I	1
<b>Total</b>	<b>8</b>

Second Summer Session	Credit Hours
TEMT 2192 Paramedic Clinical Practicum II	1
TEMT 2194 Paramedic Mobile ICU Rotation II	1
<b>Total</b>	<b>2</b>

*Exit Point: Emergency Medical Technician/Paramedic 1,968 hours, 71 credits*

## NURSING DEPARTMENT

*Certificate of Completion – Vocational Nursing;  
Associate in Applied Science Degree – Associate Degree Nursing;  
Bachelor of Science in Nursing – Cooperative Program with  
The University of Texas Health Science Center at San Antonio;  
Master of Science in Nursing – Cooperative Program with  
The University of Texas Health Science Center at San Antonio*

Two programs are offered by the Nursing Department, a one-year program leading to a Certificate of Completion in Vocational Nursing and a two-year program leading to an A.A.S. in Nursing.

Graduates are eligible to write their respective examinations for licensure as a Registered Nurse (R.N.) or as a Licensed Vocational Nurse (LVN).

The Associate Degree Nursing Program is approved by the Board of Nurse Examiners for the State of Texas and is accredited by the National League for Nursing. The program is an Agency Member of the National League for Nursing Council of Associate Degree Nursing Programs.

## Certificate of Proficiency – Vocational Nursing

Approved by the Texas State Board of Vocational Nurse Examiners

After completing the Vocational Nursing Program, students will receive a Certificate of Proficiency and qualify to take the State Board Examination. The License in Vocational Nursing is issued by the Board of Vocational Nurse Examiners.

Students who want to enter the Vocational Nursing Program should contact the Program Director and/or a Vocational Counselor between the months of January through May.

Applicants must satisfy all pre-entrance requirements to be eligible for the program. Details about pre-entrance requirements are available from the Vocational Nursing office at the Health Sciences building.

Because courses within the program are not offered twice during the same academic year, students must pass every course they take in the program with at least a C, which in the vocational nursing program is a score of 75.

UTB sponsors three vocational nursing programs: on the main campus in Brownsville, in Weslaco, and in McAllen. Contact the appropriate program in your area for applications.

### Program Objectives

This program gives students the opportunity to acquire the skills necessary to:

- communicate effectively with clients, family members and associates.
- apply scientific principles as a participant in assessing, planning, implementing, and evaluating nursing care.
- employ fundamental principles of nursing in administering medications and in performing preventive, therapeutic, supportive, and rehabilitative treatments.
- administer treatments and medications safely.
- recognize common health deviations and diseases of all age groups.
- meet special needs associated with the stages of the life cycle, i.e. prenatal, labor and delivery, postpartum, newborn, child, and aging adult.
- regulate client's environment and understand the interrelatedness of psycho-social and physical responses.
- recognize common emotional disorders; observe, report, and document client responses.
- function effectively as a member of the health team.
- know major health problems and the organizations involved in their prevention and control
- use knowledge of nursing in a variety of job settings.
- be responsible for personal and professional growth.

### Degree Plan Freshman Year

Fall Semester		Credit Hours
TVNU 1201	Sciences for VN	2
TVNU 1302	Fundamentals of Nursing	3
TVNU 1403	Anatomy and Physiology	4
TVNU 1204	Nursing Skills Theory	2
TVNU 1365	Clinical I	3

TVNU 1266	Nursing Skills Theory Lab	2
TVNU 1207	Geriatrics	2
<b>Totals</b>		<b>18</b>
<b>Spring Semester</b>		<b>Credit Hours</b>
TVNU 1308	Maternal and Newborn	3
TVNU 1269	Clinical II	2
TVNU 1310	Pediatrics	3
TVNU 1261	Clinical III	2
TVNU 1312	Pharmacology	3
TVNU 1513	Medical/Surgical	5
TVNU 1364	Clinical IV	3
<b>Total</b>		<b>21</b>
<b>First Summer Session</b>		<b>Credit Hours</b>
TVNU 1315	Advanced Medical/Surgical	3
TVNU 1366	Clinical V	3
<b>Total</b>		<b>6</b>
<b>Second Summer Session</b>		
TVNU 1317	Advanced Medical/Surgical	3
TVNU 1368	Clinical VI	3
<b>Total</b>		<b>6</b>
<b>Total Theory Curriculum Hours</b>		<b>683</b>
<b>Total Clinical</b>		<b>902</b>
<b>Total Curriculum</b>		<b>1585</b>

### Credit Hour Summary

Vocational Nursing	51 Credit Hours
<b>Total</b>	<b>51 Credit Hours</b>

## A.A.S. – Associate Degree Nursing

In accordance with the statement of purpose and the philosophy of the Associate Degree Nursing program, the two-year curriculum aims to provide students with the background to be responsible beginning practitioners of nursing who can give direct nursing care to clients in structured health care settings. Students who want to enter the Associate Degree Nursing program should contact the Director for details at least six months before the anticipated date of entry. In order to be accepted into the program, applicants must satisfy the specific requirements for admission.

The program may be completed within two years. A minimum grade of "C" (as prescribed by the ADN Student Handbook) must be obtained in each course required for an Associate Degree in Nursing. To receive a satisfactory grade in any nursing course, students must show this ability to apply nursing theory to clinical performance.

**Prerequisites:** High school chemistry will be accepted if it was successful passed less than 10 years from date of admission. Students planning to transfer to a B.S.N. program should take Chemistry 1305 and Chemistry 1111.

Upon acceptance into the program the applicant is responsible for obtaining CPR certification. Student must also obtain a Hepatitis B Vaccine as part of their physical examination prior to the first nursing class.

### Program Objectives

This program gives students the opportunity to acquire the skills necessary to:

- provide individualized nursing care by assisting clients to meet their basic human needs for promoting, maintaining, and/or restoring health.
- communicate effectively with clients, their families and health care team members.
- teach clients and their families to promote the client's wellness.
- collaborate with other members of the health care team in managing nursing care for a group of clients with common, well-defined health problems in structured health care settings.
- assume responsibility as a member of the nursing profession by adhering to legal and ethical standards, as well as pursuing professional growth.

### Admission Requirements

Students who want to enroll in the A.D.N. program must submit the following to the A.D.N. Director:

1. Application to the Nursing Department
2. High school transcript or G.E.D. score.
3. ACT test scores.
4. All college transcripts.
5. Chemistry grade.
6. Three letters of recommendation

Applications received by March 1 of each year will be considered by the Admissions Committee for the incoming class.

A score of 18 on the Social Science and Composite sections of the A.C.T. is recommended.

A college G.P.A. of 2.5 or high school average of 85 is recommended. Special consideration will be given to students having completed a broad academic college program.

### Degree Plan Freshman Year

<b>First Summer Session</b>		<b>Credit Hours</b>
BIOL	2401 Anatomy and Physiology I *	4
<b>Total</b>		<b>4</b>
<b>Second Summer Session</b>		<b>Credit Hours</b>
BIOL	2402 Anatomy and Physiology II *	4
TNSG	1201 Orientation to Nursing	2
<b>Total</b>		<b>6</b>
<b>First Semester</b>		
TNSG	1203 Basic Medication Administration	2
TNSG	1405 Fundamentals of Nursing	4
BIOL	2420 Microbiology *	4
PSYC	2314 Human Growth and Development *	3
<b>Total</b>		<b>13</b>
<b>Second Semester</b>		<b>Credit Hours</b>
TNSG	1407 Client w/ Minor Alterations in Hom. I	4
TNSG	1409 Client w/ Minor Alterations in Hom. II	4

PSYC	2301	Introduction to Psychology *	3
ENGL	1301	Composition I *	3
<b>Total</b>			<b>14</b>

### Sophomore Year

<b>First Summer Session</b>			<b>Credit Hours</b>
TNSG	2413	Family in Psychosocial Crisis	4
<b>Total</b>			<b>4</b>

<b>First Semester</b>			<b>Credit Hours</b>
TNSG	2415	The Childbearing Family	4
TNSG	2417	The Childrearing Family	4
		Elective**	3
		Elective**	3
<b>Total</b>			<b>14</b>

<b>Second Semester</b>			<b>Credit Hours</b>
SPCH	1318	Interpersonal Communication *	3
TNSG	2519	Client/Family w. Major Alterations I (1:4)	5
TNSG	2521	Client/Family w. Major Alterations II (1:4)	5
TNSG	2223	Contemporary Issues and Trends	2
<b>Total</b>			<b>15</b>

### Credit Hour Summary

Nursing	40 Credit Hours
General Education*	24 Credit Hours
Electives**	6 Credit Hours
<b>Total</b>	<b>70 Credit Hours</b>

\*\* Electives may be any non-developmental courses.

## Advanced Placement Program For Licensed Vocational Nurse

This program offers Licensed Vocational Nurses advanced placement into the Associate Degree Nursing Program.

### Admission Criteria

Licensed vocational nurses seeking advanced placement in the A.D.N. program must submit the following to the A.D.N. Director:

1. Application to the Nursing Department
2. High school transcript or G.E.D. score.
3. A.C.T. test scores (If more than five years old, need to retake)
4. All college transcripts.
5. Chemistry grade (high school or college).
6. Three letters of recommendation.

Applications received before March 1 of each year will be considered by the Admissions Committee for the next class.

A score of 18 on the Social Science and Composite sections of the A.C.T. is recommended.

A college G.P.A. of 2.5 or high school average of 85 is recommended. Special consideration will be given to students having completed a broad academic college program.

Applicants must pass Biology 2401, 2402, 2420 and psychology 2314, 2301 and English 1301. These courses may be taken before the transition course or as co-requisites.

Applicants must pass the math proficiency test with a score of 90% or better.

Applicants must be currently licensed as an LVN/LPN and must have been employed in the last two out of five years or have graduated a year prior to application.

Students who meet all of the above criteria may then enroll in the course TNSG 1811: LVN Transition offered during the spring semester. Student who do not pass the transition course or withdraw while failing may not repeat the course but will be eligible to apply to the basic program.

### Progression

1. After successfully completing the transition course, students receive 16 semester hours credit. The transition course itself carries the value of 8 semester hours.
2. Student will articulate with the A.D.N. basic program students to begin Level II nursing courses in the summer.
3. The same progression policies for the generic A.D.N. student will apply to students receiving advanced placement.

### Degree Plan

#### \*\*\*Chemistry Prerequisite\*\*\*

#### Freshman Year

<b>First Summer Session</b>		<b>Credit Hours</b>
BIOL 2401	Anatomy and Physiology I	4
<b>Total</b>		<b>4</b>

<b>Second Summer Session</b>		<b>Credit Hours</b>
BIOL 2402	Anatomy and Physiology II	4
<b>Total</b>		<b>4</b>

<b>First Semester</b>		<b>Credit Hours</b>
BIOL 2420	Microbiology *	4
PSYC 2314	Human Growth and Development *	3
<b>Total</b>		<b>7</b>

<b>Second Semester</b>		<b>Credit Hours</b>
TNSG 1811	LVN Transition	8
PSYC 2301	Introduction to Psychology *	3
ENGL 1301	Composition I *	3
<b>Total</b>		<b>14</b>

#### Sophomore Year

<b>First Summer Session</b>		<b>Credit Hours</b>
TNSG 2413	Family in Psychosocial Crisis	4
<b>Total</b>		<b>4</b>

<b>First Semester</b>		<b>Credit Hours</b>
TNSG 2415	The Childbearing Family	4
TNSG 2417	The Childrearing Family	4
	Elective **	3
	Elective **	33
<b>Total</b>		<b>14</b>

<b>Second Semester</b>		
SPCH 1318	Interpersonal Communication*	3
TNSG 2519	Client/Fam. w/ Major Alterations I (1:4)	5
TNSG 2521	Client/Fam. w/ Major Alterations II (1:4)	5
TNSG 2223	Contemporary Issues and Trends	2
<b>Total</b>		<b>15</b>

### Credit Hour Summary

Nursing	32 Credit Hours
General Education	24 Credit Hours
Electives**	6 Credit Hours
<b>Total</b>	<b>62 Credit Hours</b>

\*\* Electives must be non-developmental courses.

When NURS 0108 is successfully completed at the end of the first year, the LVN will receive 16 semester hours credit for all the first year nursing courses. High school and college credits in Chemistry are required. Science courses more than 10 years old at time of acceptance into the program must be repeated.

## B.S. – Nursing

UTB, in cooperation with The University of Texas Health Science Center at San Antonio, offers courses which may be used in partial fulfillment of the requirements of Bachelor of Science in Nursing degree to individuals who are registered nurses.

Specific information on the program may be obtained from the Dean of the School of Health Sciences, or by calling 1-800-321-9825 (Undergraduate Nursing Programs). An applicant must meet requirements for admission to the respective programs at The U.T. Health Science Center.

## M.S. – Nursing

UTB, in cooperation with The University of Texas Health and Science Center at San Antonio, offers courses which may be used in partial fulfillment of the requirements of the Master Science in Nursing degree to individuals who are registered nurses.

Specific information on the program may be obtained from the Dean of the School of Health Sciences, or by calling 1-800-321-9825 (Graduate Nursing Programs). An applicant must meet requirements for admission to the program at UT Health Science Center.





# COURSE LISTINGS





# COURSE LISTINGS

## A GUIDE TO THE COURSE LISTINGS

Four-digit numbers identify the courses. The first digit (other than zero) designates the level of the Course. A "1" means the course is of freshman rank; a "2" of sophomore rank; a "3" of junior rank; a "4" of senior rank; "5" and "6" are graduate-level courses. The second digit represents the number of semester hour credits allowed for the course.

CB: Texas Higher Education Coordinating Board code for course.

Lec: Number of hours of lecture per week.

Lab: Number of hours of lab per week.

Cr: Total credit hours for course.

## ACCOUNTING (TACC)

### TACC 1310 PAYROLL ACCOUNTING

(Formerly TSC ACCT 0193) Fee \$8.00

Emphasizes methods of computing wages and salaries, methods of keeping records and preparing governmental reports. Includes Federal Income Tax, Social Security, and Workman's Compensation Insurance.

CB 995821 Lec 3, Cr 3

### TACC 1315 INCOME TAX ACCOUNTING

(Formerly TSC ACCT 0233) Fee \$8.00

A study of the federal income tax structure, with emphasis on the application of tax principles to specific tax problems. The technical and accounting aspects of preparing income tax returns are stressed.

CB 995821 Lec 3, Cr 3

### TACC 1401 BASIC ACCOUNTING I

(Formerly TSC ACCT 0174) Fee \$8.00

A beginning course in accounting. The first of three semesters of practical accounting basics. Presents the accounting cycle for service and merchandising enterprises. Give attention to procedural aspects of accounting with emphasis on the accounting cycle, and special journals.

CB 995821 Lec 3, Lab 2, Cr 4

### TACC 1405 BASIC ACCOUNTING II

(Formerly TSC ACCT 0184) Fee \$8.00

Continuation of TACC 1401. The second of three semesters of practical accounting basics. Accruals and deferrals, valuation of receivables, payables, inventories, plant assets, partnerships, corporations; financial statement analysis.

Prerequisite: TACC 1401.

CB 995821 Lec 3, Lab 2, Cr 4

### TACC 2401 BASIC ACCOUNTING III

(Formerly TSC ACCT 0194) Fee \$8.00

Continuation of TACC 1401 and TACC 1405 the third of three semesters of practical accounting basics. Includes using accounting for management purposes, departmental accounting, accounting for a manufacturing enterprise, cost accounting, analysis for management decisions, budgeting and planning, income taxes, and accounting systems.

Prerequisite: TACC 1405.

CB 995821 Lec 3, Lab 2, Cr 4

### TACC 2405 ACCOUNTING APPLICATIONS I

(Formerly TSC ACCT 0244) Fee \$8.00

An accounting package (DAC Easy Accounting) to include the general ledger, accounts receivable, accounts payable, purchase orders, billing, inventory and forecasting. Also includes payroll (DAC Easy Payroll).

CB 995821 Lec 3, Lab 2, Cr 4

### TACC 2410 ACCOUNTING APPLICATION II

(Formerly TSC ACCT 0254) Fee \$8.00

A spreadsheet package (Lotus 1-2-3) to prepare financial and managerial reports for budgeting and cost control and a tax package for preparing 1040 tax returns.

CB 995821 Lec 3, Lab 2, Cr 4

### TACC 2415 COOPERATIVE EDUCATION I

(Formerly TSC ACCT 0264) Fee \$8.00

Open only to students enrolled in 2-year accounting technology programs. This course includes supervised employment in the student's career field as well as evaluation by both the employer and faculty member. A weekly one-hour seminar is held in conjunction with the work experience.

Prerequisite: 30 hours completed in accounting and consent of Accounting Co-op Coordinator.

CB 995826 Lec 1, Lab 20, Cr 4

### TACC 2420 COOPERATIVE EDUCATION II

(Formerly TSC ACCT 0274) Fee \$8.00

Continuation of TACC 2415; TACC 2415 and TACC 2420 must be taken consecutively.

CB 995826 Lec 1, Lab 29, Cr 4

## ACCOUNTING (ACCT)

### ACCT 2401 PRINCIPLES OF ACCOUNTING I

(Formerly UTPAB ACC 2401) Fee \$8.00

Financial accounting as it applies to sole proprietorships, partnerships, and corporations. Financial accounting systems and accounting for equity rights.

Prerequisite: TACC 1401 and sophomore standing recommended.

CB 0602015125 Lec 3, Lab 2, Cr 4

### ACCT 2402 PRINCIPLES OF ACCOUNTING II

(Formerly UTPAB ACC 2402) Fee \$8.00

Fundamentals of the managerial accounting system, budgeting, financial analysis, quantitative technique, and accounting for departments and branches, price level changes and income tax as it affects decision making.

Prerequisite: ACCT 2401

CB 0602015125 Lec 3, Lab 2, Cr 4

### ACCT 3321 INTERMEDIATE ACCOUNTING I

(Formerly UTPAB ACC 3321)

The accounting process and financial statements; present value concepts; a detailed study of current assets and current liabilities; property, plant and equipment; intangible assets.

Prerequisites: ACCT 2402 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

### ACCT 3322 INTERMEDIATE ACCOUNTING II

(Formerly UTPAB ACC 3322)

The continuing study of Intermediate Accounting I; long term liabilities; long term investments; capital structure and earnings per share; pension costs, leases; statement of changes in financial position.

Prerequisite: ACCT 3321 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

### ACCT 3323 INCOME TAX PROCEDURE

(Formerly UTPAB ACC 3323)

Analysis of federal tax laws, with emphasis on determining net taxable income and preparing income tax returns for individuals.

CB 061901 Lec 3, Cr 3

### ACCT 3324 COST ACCOUNTING I

(Formerly UTPAB ACC 3324)

Basic cost accounting concepts and techniques, with an emphasis on providing information for management decision-making. Topics include job and process costing, cost-volume-profit analysis, budgeting, standard costs and variance analysis, direct costing, cost behavior, disciplinary costs, and relevant costs.

Prerequisite: ACCT 2402 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

**ACCT 3325 FUND ACCOUNTING**  
(Formerly UTPAB ACC 3325)

The special features of fund accounting as applied to not-for-profit entities, municipalities, school districts, and other governmental units.

*Prerequisite:* ACCT 2401 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

**ACCT 4320 ADVANCED ACCOUNTING I**  
(Formerly UTPAB ACC 4320)

Selected topics including accounting for income taxes, price level changes, foreign operations, estates and trusts, corporate reorganizations and liquidations and non-profit organizations.

*Prerequisite:* ACCT 3322 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

**ACCT 4321 ADVANCED ACCOUNTING II**  
(Formerly UTPAB ACC 4321)

Theory and techniques of consolidated financial statements. Accounting for partnerships and branches.

*Prerequisite:* ACCT 3322 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

**ACCT 4323 CONTEMPORARY ACCOUNTING THEORY**  
(Formerly UTPAB ACC 4323)

Contemporary advanced accounting and auditing theory, including controversial issues, with emphasis on income determination and asset valuation; particular attention is given to current publications of professional and governmental agencies.

*Prerequisites:* ACCT 3322 with grade of "C" or better; credit for ACCT 4324 or concurrent enrollment therein with the permission of the instructor.

CB 060201 Lec 3, Cr 3

**ACCT 4324 AUDITING I**  
(Formerly UTPAB ACC 4324)

A survey of auditing standards and procedures applied by public accountants and internal auditors in examining financial statements and verifying underlying data. Includes elements of operational auditing.

*Prerequisite:* ACCT 3322 with grade of "C" or better.

CB 060201 Lec 3, Cr 3

**ACCT 4329 ADVANCED INCOME TAX PROCEDURE**  
(Formerly UTPAB ACC 4329)

Tax regulations applicable to partnership and corporations, together with preparing federal tax returns for such businesses. Federal gift, estate and inheritance taxes are considered.

*Prerequisite:* ACCT 3323 with grade of "C" or

better.

CB 061901

Lec 3, Cr 3

**ACCT 4331 ACCOUNTING REPORT WRITING**  
(Formerly UTPAB ACC 4331)

An applied communication/report writing course for accounting majors with full recognition given to current reporting standards. Emphasis on data accumulation, documentation, drafting and communication of the different types of opinion letters, management letters, representation letters, compilation reports, internal control reports, interim reports, reports to the S.E.C., proper notes to financial statements, written communication with other professional accountants, and special reports.

*Prerequisite:* Completion of ACCT 4324 or concurrent enrollment.

CB 231101

Lec 3, Cr 3

**ACCT 6320 FINANCIAL AID MANAGERIAL ACCOUNTING**  
(Formerly UTPAB ACC 6320)

A study of the principles, conventions and concepts underlying internal and external reporting of accounting information by a business organization, and applying these principles in evaluating, interpreting and utilizing accounting data for managerial decisions.

*Prerequisite:* ACCT 2402, FINA 3383.

CB 060201

Lec 3, Cr 3

**ACCT 6321 ADVANCED COST AND MANAGERIAL ACCOUNTING**  
(Formerly UTPAB ACC 6321)

Advanced cost and managerial accounting concepts. Effects on internal reporting. Topics include evolution and development of cost accounting, cost allocations, and other topics of current interest.

*Prerequisite:* ACCT 3324.

CB 060201

Lec 3, Cr 3

**ACCT 6323 ACCOUNTING SEMINAR**  
(Formerly UTPAB ACC 6323)

A study of current and special topics concerning accounting. Emphasis on literature from professional public accounting societies and governmental agencies.

*Prerequisite:* ACCT 2402.

CB 060201

Lec 3, Cr 3

**ACCT 6330 SEMINAR IN AUDITING**  
(Formerly UTPAB ACC 6330)

Examination of auditing philosophy and contemporary issues. Study of auditing research including the behavioral aspects of auditing.

*Prerequisite:* ACCT 4324.

CB 060201

Lec 3, Cr 3

## ANTHROPOLOGY (ANTH)

**ANTH 2301 PHYSICAL ANTHROPOLOGY**  
(Formerly TSC ANTH 0223)

Human evolution, race, heredity, the organic basis of culture history through the Paleolithic period.

CB 4502015142

Lec 3, Cr 3

**ANTH 2346 INTRODUCTION TO ANTHROPOLOGY**  
(Formerly TSC ANTH 0213)

Major aspects of culture-social organization, economics, religion, etc.; cultural patterns and socio-cultural change; prehistory of mankind and the development of cultures.

CB 4502015142

Lec 3, Cr 3

**ANTH 2351 CULTURAL ANTHROPOLOGY**  
(Formerly TSC ANTH 0233)

Key concepts, methods and theory in the study of cultural diversity, social institutions, linguistics of culture change among world peoples.

CB 45020151422

Lec 3, Cr 3

## ART (ARTS)

**ARTS 1301 ART APPRECIATION**  
(Formerly TSC ART 0103)

An introduction to creative art; relationship of line, mass, color, texture. A survey of the history and philosophy of art and architecture in the Western World.

CB 5007035130

Lec 3, Cr 3

**ARTS 1303 ART HISTORY SURVEY I**  
(Formerly TSC ART 0113)

A survey of painting, sculpture, architecture, and the minor arts from prehistoric times to the 14th century.

*Prerequisite:* Reading 0301 or appropriate assessment.

CB 5007035230

Lec 3, Cr 3

**ARTS 1304 ART HISTORY SURVEY II**  
(Formerly TSC ART 0123)

A survey of painting, sculpture, architecture, and the minor arts from the 14th century to the present. *Prerequisite:* Reading 0301 or appropriate assessment.

CB 5007035230

Lec 3, Cr 3

**ARTS 1311 TWO DIMENSIONAL DESIGN**  
(Formerly TSC ART 0153) Fee \$8.00

Principles of design and development of design structures on two dimensional surfaces.

CB 5007055130

Lec 3, Lab 3, Cr 3

**ARTS 1312 THREE DIMENSIONAL DESIGN**  
(Formerly TSC ART 0163) Fee \$8.00

Three-dimensional structures, exercise and experiments in theories and techniques, using appropriate material and processes.



- Prerequisite:* ARTS 1311  
CB 5007055130 *Lec 3, Lab 3, Cr 3*
- ARTS 1316 DRAWING I**  
(Formerly TSC ART 0133)  
The investigation of drawing media and techniques, including descriptive and expressive possibilities.  
CB 5007055230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 1317 DRAWING II**  
(Formerly TSC ART 0143) *Fee \$8.00*  
Continuation of Drawing I with emphasis on forms of expression and stress on the human figure.  
*Prerequisite:* ARTS 1316  
CB 5007055230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 1370 SCULPTURE FOR THE NON-ART MAJOR**  
(Formerly TSC ART 1003) *Fee \$8.00*  
Introduction to expression of the three-dimensional forms in space utilizing metal, clay, wood, or plaster. (Not for art majors.)  
CB 5007095130 *Lec 1, Lab 2, Cr 3*
- ARTS 1374 DRAWING FOR THE NON-ART MAJOR**  
(Formerly TSC ART 0213) *Fee \$8.00*  
Use of line and mass to convey ideas and emotions, and the study of selected periods of art history with special reference to drawing.  
CB 5007055230 *Lec 1, Lab 2, Cr 3*
- ARTS 1376 PAINTING FOR THE NON-ART MAJOR**  
(Formerly TSC ART 0223) *Fee \$8.00*  
Use of one or more painting media to convey ideas and emotions and to suggest form and space. In addition, the study of historic and contemporary solutions to similar problems.  
CB 5007055230 *Lec 1, Lab 2, Cr 3*
- ARTS 2316 PAINTING I**  
(Formerly TSC ART 0253) *Fee \$8.00*  
Exploration of ideas using painting media and techniques.  
*Prerequisite:* ARTS 1316  
CB 5007085230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2317 PAINTING II**  
(Formerly TSC ART 0263) *Fee \$8.00*  
Continuation of Painting I with emphasis on special problems determined by the student in cooperation with the instructor.  
*Prerequisite:* ARTS 2316  
CB 5007085230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2326 SCULPTURE I**  
(Formerly TSC ART 0203) *Fee \$8.00*  
Experiences in metal, clay, stone, wood and plaster with emphasis on expression in three-dimensional form in space. (For art majors, see ARTS 1370.)  
CB 5007095130 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2333 PRINT MAKING I**  
(Formerly TSC ART 1013) *Fee \$8.00*  
Critical evaluation of graphic media as well as creating works in serigraphy and other print media.  
CB 5007995130 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2346 CERAMICS I**  
(Formerly TSC ART 0273) *Fee \$8.00*  
Exploration of ideas using basic ceramic processes. (For art majors.)  
CB 5002025130 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2347 CERAMICS II**  
(Formerly TSC ART 0283)  
Continuation of Ceramics I with emphasis on glaze formulation. (For art majors.)  
*Prerequisite:* ARTS 2346  
CB 5002025130 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2356 PHOTOGRAPHY I**  
(Formerly TSC ART 2013) *Fee \$8.00*  
Study of fundamental lighting, posing, camera techniques, composition, processing and printing relating to all shooting with special emphasis on portraits and still life.  
CB 5006055230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2357 PHOTOGRAPHY II**  
(Formerly ART 2023) *Fee \$8.00*  
Continuation of ARTS 2356.  
*Prerequisite:* ARTS 2356.  
CB 5006055230 *Lec 2, Lab 4, Ind 3, Cr 3*
- ARTS 2377 CERAMICS I FOR THE NON-ART MAJOR**  
(Formerly TSC ART 0233) *Fee \$8.00*  
Introduction to ceramic processes. Investigation of hand building, throwing, glazing and firing procedures. (Not for art majors.)  
CB 5002025130 *Lec 1, Lab 2, Cr 3*
- ARTS 2378 CERAMICS II FOR THE NON-ART MAJOR**  
(Formerly TSC ART 0243) *Fee \$8.00*  
Continuation of ART 2376.  
*Prerequisite:* ARTS 2376.  
CB 5002025130 *Lec 1, Lab 2, Cr 3*
- ARTS 3332 VISUAL ART AS COMMUNICATION**  
(Formerly UTPAB ART 3332)  
A survey of the development of techniques used to communicate nontemporal visual information, including fine art and popular imagery. Understanding the relationship of paper, books, printing, film, and photography, and their impact on culture.  
CB 480203 *Lec 3, Cr 3*
- ARTS 3352 CONTEMPORARY ART**  
(Formerly UTPAB ART 3352)  
Art history from the 19th Century in Europe to the present. Development and growth of today's arts and aesthetics.  
CB 500703 *Lec 3, Cr 3*
- ARTS 3371 ADVANCED CERAMICS**  
(Formerly UTPAB ART 3371) *Fee \$8.00*  
Advanced studio problems in ceramics. (May be repeated for total of 12 hours credit). A minimum of three hours of outside assignments per week required.  
CB 500202 *Lec 2, Lab 4, Cr 3*
- ARTS 3381 PERCEPTION AND EXPRESSION IN ART I**  
(Formerly UTPAB ART 3381)  
Strengthens visual perception and divergent thinking on studio activities for prospective teachers of elementary art. Emphasizes further studies of development in depth, and curriculum development for teachers of upper elementary and middle school art.  
*Prerequisite:* ART 3381 or permission of instructor.  
CB 131302 *Lec 3, Cr 3*
- ARTS 3383 ART IN THE SECONDARY SCHOOL**  
(Formerly UTPAB ART 3383)  
Survey of visual education at the secondary level. Required for teaching art in the junior and senior high school.  
CB 131302 *Lec 3, Cr 3*
- ARTS 4333 GRAPHIC DESIGN**  
(Formerly UTPAB ART 4333) *Fee \$8.00*  
A systematic approach to design problem-solving, with a series of studio assignments and critiques relating directly to two- and three-dimensional graphic design. Develops creative and technical ability by producing professional assignments. A minimum of three hours of outside assignments per week required.  
CB 500402 *Lec 3, Lab 3, Cr 3*
- ARTS 4336 VISUAL THINKING AND APPLICATION OF COMPUTER IMAGES**  
(Formerly UTPAB ART 4336) *Fee \$8.00*  
Introduction to computer use directed towards visual application. Stresses using computers for visually oriented people and using visual thinking for computer oriented people.  
CB 500402 *Lec 3, Lab 3, Cr 3*
- ARTS 4337 INTERNSHIP IN ART STUDIO**  
(Formerly UTPAB ART 4337) *Fee \$8.00*  
Opportunities in applied learning related to visual art through local business, government, industry, or institutional organizations, working under faculty direction with periodic and final written reports and supporting portfolio.

CB 500701

Lec 2, Lab 4, Cr 3

**ARTS 4353 AMERICAN ART**  
(Formerly UTPAB ART 4353)

History of visual arts in the United States from the 17th century to the present, including the art of the Native Americans.  
*Prerequisite:* TSC ART 113 and 123.

CB 500703

Lec 3, Cr 3

**ARTS 4354 LATIN AMERICAN ART AND ARCHITECTURE**

(Formerly UTPAB ART 4354)

Major monuments of Spanish-Portuguese art and architecture in the New World, 16 century to the present. Emphasizes post-Conquest mixtures of European and Indigenous styles during the colonial period and major developments in modern Latin American art since independence.

CB 500703

Lec 3, Cr 3

**ARTS 4355 CONNOISSEURSHIP**  
(Formerly UTPAB ART 4355)

Reading, discussion, and practical experience in qualitative analysis of works of art and application of art, with particular emphasis on drawings, prints, paintings, and sculpture. Relationships of art forms and art objects to architecture, construction, leisure industry, and quality of life will be included.

CB 500703

Lec 3, Cr 3

**ARTS 4356 ANALYSIS AND METHODS OF RESEARCH**

(Formerly UTPAB ART 4356)

The study of artistic form and visual perception as a tool for the art historian's study of style and expression. The course includes methodological approaches by art historians. Selected readings, explanations, and demonstrations of methods, including archaeological analysis, codicology, connoisseurship, ideology and social context, architectural theory, and cross-cultural modes.

CB 500703

Lec 3, Cr 3

**ARTS 4383 RESEARCH IN TEACHING SECONDARY ART**

(Formerly UTPAB ART 4383)

Methods for teaching creative art in the junior and senior high school.

*Prerequisite:* ARTS 3383.

CB 131302

Lec 3, Cr 3

**BIOLOGY (BIOL)****BIOL 1322 HUMAN NUTRITION**  
(Formerly TSC HECO 0113)

A study of the basic principles of nutrition in health and disease. Stresses the modern concept of an adequate diet based on the nutritional needs of the individual.

CB 1905035133

Lec 3, Cr 3

**BIOL 1406 GENERAL BIOLOGY I**  
(Formerly TSC BIO 0114)

Fee \$8.00

The unity of living things; molecular biology, cell energetics (photosynthesis, respiration), organic molecules, inorganic molecules, atoms; cellular biology, cell structure and function, eukaryotic cells, prokaryotic cells; cell division; survey of monera, fungi plant protists and plantae; morphology physiology and reproduction of flowering plants.

CB 2601015124

Lec 3, Lab 3, Cr 4

**BIOL 1407 GENERAL BIOLOGY II**  
(Formerly TSC BIO 0124)

Fee \$8.00

Molecular biology, cellular genetics, DNA, RNA, protein synthesis, cloning, genetic engineering; evolution; population biology, general ecology; a survey of major animal phyla with animal dissections; general anatomy and physiology of man with fetal pig dissections.

CB 2601015124

Lec 3, Lab 3, Cr 4

**BIOL 2306 FIELD BIOLOGY**  
(Formerly TSC BIO 0273)

Fee \$8.00

A survey of the biology of the flora and fauna of a unique cloud forest; emphasizes ecological relationships and environmental changes which effect these biota. Includes the geological history as well as past and recent archaeological considerations. The lecture series is held on the main campus and taught by various members of the biology faculty and staff. There will be local field trips plus an excursion to the Rancho del Cielo Biology Station in southwestern Tamaulipas, Mexico. Special projects will be assigned to each student. Plus room and board charges while at the station.

CB 2606035124

Lec 3, Lab 2, Cr 3

**BIOL 2370 CLOUD FOREST BOTANY**  
(Formerly TSC BIO 0283)

Fee \$8.00

Biology of algae, fungi, bryophytes and vascular plants of the Rancho del Cielo environment. Includes reproduction; life histories; structures and functions of roots, stems, and leaves; and ecological relationships between plants, animals and their environment with special reference to the forest zones around Rancho del Cielo Biology Station. The lecture series and some laboratory will be given on the main campus. The major portion of the laboratory will be held at the station. A special project will be assigned to each student. Plus room and board charges while at the station.

CB 2603015124

Lec 3, Lab 2, Cr 3

**BIOL 2374 SPECIAL PROBLEMS IN BIOLOGY**  
(Formerly TSC BIO 0293)

Fee \$8.00

This course will explore the fields of biology such as ecology, conservation, environmental energy, pollution, and population genetics to identify special problems, study these special problems, and arrive at solutions for these problems. Special attention will be given to adapting these solutions to an integrated interdisciplinary understanding of science. Field trips may be required.

CB 2606035124

Lec 3, Cr 3

**BIOL 2401 HUMAN ANATOMY AND PHYSIOLOGY I**

(Formerly TSC BIO 0214)

Fee \$8.00

General biological principles; cellular biology; integumentary, skeletal, muscular and nervous systems with related topics.

CB 2607065124

Lec 3, Lab 3, Cr 3

**BIOL 2402 HUMAN ANATOMY AND PHYSIOLOGY II**

(Formerly TSC BIO 0224)

Fee \$8.00

Continuation of BIO 2401; Urogenital, circulatory, respiratory, digestive and endocrine systems; human development. Emphasizes on nutrition, metabolism, electrolytic and fluid balance.

*Prerequisite:* BIOL 2401

CB 2607065124

Lec 3, Lab 3, Cr 3

**BIOL 2420 MICROBIOLOGY**  
(Formerly TSC BIO 0254)

Fee \$8.00

An introduction to the field of microbiology, bacterial morphology, structure, growth and reproduction; microbial survey plus viruses; metabolism; genetic control of microbes; resistance to infection; transmission of disease; environmental and applied microbiology; developments of sound laboratory techniques; identification of bacteria unknowns.

*Prerequisite:* BIOL 1406, 1407, or 2401, 2402. CH 1311, 1312 highly recommended.

CB 2605015124

Lec 3, Lab 4, Cr 3

**BIOL 2428 COMPARATIVE VERTEBRATE ANATOMY**

(Formerly TSC BIO 0244)

Fee \$8.00

Brief survey of chordates, summary vertebrate history and development; development and morphology of vertebrate organ systems; dissection of representative vertebrates. (Primarily biology major and minors.)

*Prerequisite:* Six semester hours of general biology or general zoology.

CB 2607015324

Lec 3, Lab 4, Cr 3

**BIOL 2470 WILDFLOWERS OF SOUTH TEXAS**  
(Formerly TSC BIO 0264)

Fee \$8.00

A survey course of South Texas native plants involving identification, distribution, principles of element

taxonomy, field trips and collection, herbarium techniques.

CB 2603015224 Lec 3, Lab 3, Cr 4

### BIOL 3303 GENETICS

Introduction to genetics with consideration of its application in biology and human welfare.

Prerequisite: Nine semester hours of biology.

CB 260401 Lec 3, Cr 3

### BIOL 3408 PLANT MORPHOLOGY

Fee: \$8.00

A study of the morphology, development and relationships of fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Particular attention is given to the evolution of these groups.

Prerequisites: Nine semester hours of biology.

CB 260301 Lec 3, Lab 3, Cr 4

### BIOL 3409 ECOLOGY

Fee \$8.00

A study of the basic environmental factors affecting plants and animals, and their relation to economic and conservation problems.

Prerequisite: 12 semester hours of biology.

CB 260603 Lec 3, Lab 3, Cr 4

### BIOL 3412 CELL BIOLOGY

(Formerly UTPAB BIOL 4403)

Fee \$8.00

A study of cell structure and function with emphasis on bioenergetics, membranes, genes, and genetic control, cell division and its regulation, cellular differentiation. (May not be repeated for credit.)

Prerequisite: Nine semester hours of biology.

CB 260401 Lec 3, Lab 3, Cr 4

### BIOL 4100 BIOLOGY SEMINAR

A study of current biological literature and the discussion of research in progress. Required of all biology majors in their senior year, open only to non-majors by permission.

CB 260101 Lec 1, Cr 1

### BIOL 4309 HERPETOLOGY

Fee \$8.00

A study of the anatomy, evolution, distribution, systematics, ecology and physiology of amphibians and reptiles; primarily of North American species with special emphasis on local forms.

Prerequisite: Nine semester hours of biology.

CB 260701 Lec 2, Lab 3, Cr 3

### BIOL 4314 PLANT TAXONOMY

(Formerly UTPAB BIOL 3309)

Fee \$8.00

Identification of vascular plants, with emphasis on native flowering plants.

Prerequisites: Nine semester hours of biology.

CB 260699 Lec 2, Lab 3, Cr 3

### BIOL 4402 MARINE ZOOLOGY

Fee \$8.00

A study of the common marine animals, especially invertebrates in coastal waters, particular attention is to be given to structural and physiological relationships.

Prerequisite: 12 semester hours of biology.

CB 260607 Lec 3, Lab 3, Cr 4

### BIOL 4410 MARINE BOTANY

Fee \$8.00

A study of common local marine flora with emphasis on the macroscopic algae forms. Students are expected to furnish their own transportation to nine or ten field laboratory sessions.

Prerequisites: Nine semester hours of biology.

CB 260607 Lec 3, Lab 3, Cr 4

### BIOL 6101 BIOLOGY GRADUATE SEMINAR

All graduate students are required to enroll for credit in Biology Graduate Seminar three separate semesters. All biology graduate students are strongly encouraged to attend this seminar each semester they are enrolled in graduate school. Each student when enrolled for credit will, with the approval of the seminar director, select some particular aspect of current biological research and present a scholarly review of it before seminar participants, other graduate students and the biology faculty.

CB 260101 Lec 1, Cr 1

### BIOL 6301 MARINE ECOLOGICAL STUDIES

Fee \$8.00

Analysis of factors that influence plant and animal populations in the coastal habitat. Effects of pollutions will be considered.

Prerequisite: Consent of instructor.

CB 260607 Lec 3, Lab 3, Cr 3

### BIOL 6302 MARINE ECOLOGY

Fee \$8.00

A study of current topics in biology; may be repeated for credit as topics change.

Prerequisite: Consent of instructor.

CB 260607 Lec 3, Lab 3, Cr 3

### BIOL 6303 ADVANCED ECOLOGY

Fee \$8.00

Use of modern techniques to analyze interrelationships between plants, animals and the environment. Terrestrial and fresh water environments will be considered.

Prerequisite: Consent of instructor.

CB 260603 Lec 3, Lab 3, Cr 3

### BIOL 6306 FIELD BOTANY

Fee \$8.00

A study of the adaptations and economic importance of the native flora.

Stresses methods of collection, preservation and classification.

Prerequisite: Consent of instructor.

CB 260301 Lec 3, Lab 3, Cr 3

### BIOL 6308 FRESH WATER PHYCOLOGY

Fee \$8.00

Structure, reproduction and identification of the fresh water algae with special emphasis on the ecology and identification of local forms.

Prerequisite: Consent of the instructor.

CB 260399 Lec 3, Lab 3, Cr 3

### BIOL 6309 MARINE PHYCOLOGY

Fee \$8.00

A study of current topics in biology; may be repeated for credit as topics change.

Prerequisite: Consent of instructor.

CB 260399 Lec 3, Lab 3, Cr 3

### BIOL 6311 MARINE PHYCOLOGICAL STUDIES

Fee \$8.00

A detailed study of the microscopic flora along the lower Texas coast. Emphasizes the taxonomy and seasonal and environmental variations in the populations.

Prerequisite: Consent of instructor.

CB 260399 Lec 3, Lab 3, Cr 3

### BIOL 6365 GRADUATE BIOLOGICAL RESEARCH PROBLEMS

The student, in conference with a member of the graduate faculty, will define an independent research problem in botany, microbiology or zoology. The student's committee or the department chair, will approve the problem prior to enrollment. If undertaken in summer, the student should enroll in no other course that summer term. The student's report will be written in an approved thesis style. A maximum of three credit hours in graduate biological research problems will count towards a M.S.I.S. with a biology concentration.

CB 260101 Lec 3, Cr 3

## BUSINESS, GENERAL (BUSI)

### BUSI 1301 INTRODUCTION TO BUSINESS

(Formerly TSC BA 0113)

A survey of the various fields of business and their interrelationships, production and distribution systems, finance, accounting, statistics, capital, labor, marketing, taxes, governmental regulations, and other aspects of business necessary for understanding modern business enterprises and organization. Especially recommended for students pursuing a two or four-year business curriculum.

CB 0604015125 Lec 3, Cr 3

**BUSI 1372 PRINCIPLES OF MANAGEMENT**  
(Formerly TSC BA 0243)

Designed to prepare students in the fundamentals of all phases of administrative, staff and operative management. Successful management principles and techniques which are given for all fields of business include business objectives, policies, functions, executive leadership, organization structure, operative procedures and control procedures.

CB 0604015125 Lec 3, Cr 3

**BUSI 2301 BUSINESS LAW**  
(Formerly TSC BA 0233)

Designed to provide an understanding of laws governing more familiar business transactions and relationships with special attention given to contracts, agencies, sales, negotiable instruments, insurance, partnerships and corporations.

CB 0601015125 Lec 3, Cr 3

**BUSI 3312 ADMINISTRATIVE OFFICE  
MANAGEMENT**  
(Formerly UTPAB GENB 3312)

The management functions of planning, organizing, actuating and controlling in a facilitating administrative system are applied to case problems in office administration. Principles of internal organization, motivational theories and informational technology are studied through the medium of the role playing, panels and critiques, and discussion. Pertinent research applicable to the field of office management is also studied.

CB 070401 Lec 3, Cr 3

**BUSI 3335 ORGANIZATIONAL  
COMMUNICATIONS**  
(Formerly UTPAB GENB 3335)

A systems approach to information processing, the practical and psychological aspects of formal and informal communication in organizations. Stresses inter-and intra-personal communication related to various corporate cultures. Inter-cultural differences in various communication scenarios are also studied.

*Prerequisite: Satisfaction of general requirements in English.*

CB 060101 Lec 3, Cr 3

**BUSI 3337 BUSINESS LAW I**  
(Formerly UTPAB GENB 3337)

The study of the development and functioning of our legal environment. The development of case law and precedents, the application of procedural and substantive law pertaining to civil and penal matters, study and analysis of cases and rules of law relating to basic business practices, governmental regulations of business, property rights, and business

ethics. Course also includes torts, contracts, commercial transactions, and agency.

CB 220101 Lec 3, Cr 3

**BUSI 3338 BUSINESS LAW II**  
(Formerly UTPAB GENB 3338)

A continuation and expansion of the study of rules of law in a business society, including sales, commercial paper and credit transactions with emphasis on the Uniform Commercial Code; business organization; government regulations; property, wills and trusts; consumer protection; bankruptcy.

*Prerequisite: BUSI 3337*  
CB 220101 Lec 3, Cr 3

**BUSI 3341 ELEMENTARY BUSINESS AND  
ECONOMIC STATISTICS**

(Formerly UTPAB GENB 3341)

An analysis of descriptive statistics and statistical inference. Topics include collecting, organizing, and presenting numerical data; center tendency, variation, skewness, probability, probability distributions, sampling distributions, estimation theory and hypothesis testing. Computer laboratory assignments covering the above topics will be assigned.

CB 061302 Lec 3, Cr 3

**BUSI 3342 INTERMEDIATE BUSINESS AND  
ECONOMIC STATISTICS**

(Formerly UTPAB GENB 3342)

A continuation of elementary statistics, including regression and correlation, index numbers, time series, nonparametric statistics and other decision-making tools. Computer laboratory assignments covering the above topics will be assigned.

*Prerequisite: BUSI 3341.*  
CB 061302 Lec 3, Cr 3

**BUSI 4330 INTERNATIONAL BUSINESS**  
(Formerly UTPAB GENB 4330)

Business concepts, analytical processes, and philosophical bases for international business operations. Emphasizes environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices, and international operations, strategies, and policy.

*Prerequisite: MANA 3361, MARK 3371, FINA 3383, or consent of instructor.*

CB 060901 Lec 3, Cr 3

**BUSI 4346 TOPICS IN GENERAL BUSINESS**  
(Formerly UTPAB GENB 4346)

Designed to offer students professional experience in actual business situations or applied research into business and economic problems. This course does not count for the co-op program.

CB 060101 Lec 3, Cr 3

**BUSI 6310 BUSINESS RESEARCH**  
(Formerly UTPAB GENB 6310)

Business research techniques and methodologies. Topics include identifying valid research activities, reviewing literature, data sources and collecting research design and methodology, computer statistical analysis, and writing and oral communication of the research paper.

*Prerequisites: FINA 3383, BUSI 3341, MANA 3361*  
CB 060101 Lec 3, Cr 3

**BUSI 6317 ADMINISTRATIVE  
COMMUNICATION**  
(Formerly UTPAB GENB 6317)

Interdisciplinary study of communication processes in business. Includes systems and technologies and organizational and psychological processes formulating, conducting and reporting a significant research project in communications.

CB 060101 Lec 3, Cr 3

**BUSI 6380 INTERNATIONAL BUSINESS**  
(Formerly UTPAB GENB 6380)

Readings and cases in international business. Emphasizes the impact of comparative differences in the domestic and international business environment and operations, including the impact of historical, economic, cultural, and political foundations on operations. Specific international business topics of unique contemporary importance are also studied.

*Prerequisite: 12 semester hours of graduate business courses.*

CB 060901 Lec 3, Cr 3

**BUSI 6390 ADMINISTRATIVE POLICY AND  
STRATEGY**  
(Formerly UTPAB GENB 6390)

A study of management problems under dynamic conditions. Comprehensive, integrative cases will be studied and analyzed.

*Prerequisite: 18 semester hours of MBA core courses.*  
CB 060401 Lec 3, Cr 3

**BUSI 7300 THESIS**  
(Formerly UTPAB GENB 7300)

Research and writing of the thesis.

CB 060101 Lec 3, Cr 3

**BUSI 7301 THESIS**  
(Formerly UTPAB GENB 7301)

Research and writing of the thesis.

CB 060101 Lec 3, Cr 3

## CHEMISTRY (CHEM)

### CHEM 1105 INTRODUCTORY CHEMISTRY LABORATORY I

(Formerly TSC CHEM 0131) Fee \$8.00

Laboratory practice that illustrates elementary general, organic, and biochemical experimental techniques.

Prerequisite or concurrent enrollment: CHEM 1305.  
CB 4005015139 Lab 4, Cr 1

### CHEM 1107 INTRODUCTORY CHEMISTRY LABORATORY II

(Formerly TSC CHEM 0141) Fee \$8.00

Continuation of CHEM 1105, with greater emphasis on organic and biochemical laboratory techniques.

Prerequisite: CHEM 1305 and credit or registration for CHEM 1105. and CHEM 1307.

CB 4005015139 Lab 4, Cr 1

### CHEM 1111 GENERAL CHEMISTRY LABORATORY I

(Formerly TSC CHEM 0111) Fee \$8.00

Introduction to laboratory techniques of chemical experimentation.

Prerequisite or concurrent enrollment: CHEM 1311  
CB 4005015239 Lab 4, Cr 1

### CHEM 1112 GENERAL CHEMISTRY LABORATORY II

(Formerly TSC CHEM 0121) Fee \$8.00

Introduction to some basic laboratory techniques used in studying chemical kinetics, chemical equilibrium, electrochemistry, and qualitative inorganic analysis; introduction to instruments used in pH measurement and visible spectrophotometry.

Prerequisite or concurrent enrollment: CHEM 1111 and CHEM 1312.

CB 4005015239 Lab 4, Cr 1

### CHEM 1305 INTRODUCTORY CHEMISTRY I (Formerly TSC CHEM 0133)

A terminal course in chemistry for non-science majors, or technology students. The major topics covered are atomic and molecular structure, chemical bonding, the states of matter, solution calculations, and acid-base concepts; includes a brief introduction to organic chemistry and biochemistry.

Prerequisite: concurrent enrollment CHEM 1105.  
CB 4005015139 Lec 3, Cr 3

### CHEM 1307 INTRODUCTORY CHEMISTRY II (Formerly TSC CHEM 0143)

Fee \$8.00

Continuation of CHEM 1305. Elementary study of organic and biochemistry; the nomenclature, preparation, and reactions of the principle classes of organic compounds by functional group; structures and metabolic reactions of carbohydrates, lipids, and proteins; a look at hormones,

enzymes, and biosynthetic pathways; physiological action of drugs, food, nutrients, poisons, and causing agents.

Prerequisite: CHEM 1305. Concurrent enrollment CHEM 1107

CB 4005015139 Lec 3, Cr 3

### CHEM 1311 GENERAL CHEMISTRY I (Formerly TSC CHEM 0113)

Study of atomic and molecular structure, chemical stoichiometry, chemical bonding, states of matter, solutions and colloids, and acid-base concepts.

Prerequisite: Credit for two years of high school algebra OR credit or registration for MATH 1314 College Algebra

CB 4005015239 Lec 3, Cr 3

### CHEM 1312 GENERAL CHEMISTRY II (Formerly TSC CHEM 0123)

Continuation of CHEM 1311. Study of chemical kinetics and equilibria, electron transfer reactions, electrochemistry, nuclear chemistry, chemical thermodynamics, and some descriptive inorganic chemistry.

Prerequisite: CHEM 1311 .  
CB 4005015239 Lec 3, Cr 3

### CHEM 2123 ORGANIC CHEMISTRY LABORATORY I

(Formerly CHEM 0211) Fee \$8.00

Laboratory application of techniques used in experimental organic chemistry.

Prerequisite or concurrent enrollment in CHEM 2323.

CB 4005045239 Lab 5, Cr 1

### CHEM 2125 ORGANIC CHEMISTRY LABORATORY II

(Formerly TSC CHEM 0221) Fee \$8.00

Additional laboratory application of techniques used in experimental organic chemistry.

Prerequisite: CHEM 2123 and credit or concurrent enrollment in CHEM 2325 .

CB 4005045239 Lab 5, Cr 1

### CHEM 2323 ORGANIC CHEMISTRY I (Formerly TSC CHEM 0213)

Study of the structure, properties, preparations and reactions of aliphatic and aromatic compounds; stereo chemistry, reaction mechanisms, and the use of spectroscopic techniques are included.

Prerequisite: CHEM 1312 and CHEM 1112.

CB 4005045239 Lec 3, Cr 3

### CHEM 2325 ORGANIC CHEMISTRY II (Formerly TSC CHEM 0223)

Continuation of CHEM 2323. Includes a brief introduction to the chemistry of polymers, fats, carbohydrates, amino acids and proteins.

Prerequisite: CHEM 2323.

CB 4005045239 Lec 3, Cr 3

### CHEM 2401 QUANTITATIVE ANALYSIS (Formerly TSC CHEM 0234)

Fee \$8.00  
The principles and laboratory techniques of gravimetric, volumetric, and colorimetric methods of chemical analysis.

Prerequisite: CHEM 1312 and CHEM 1112.  
CB 4005025139 Lec 2, Lab 6, Cr 4

### CHEM 3301 INORGANIC CHEMISTRY

An introductory study of the elements other than carbon and their compounds based on the periodic classification and certain related theoretical concepts explaining structure and reactivity.

Prerequisite: CHEM 1112 and 1312.  
CB 400503 Lec 3, Cr 3

### CHEM 3103 BIOCHEMISTRY LAB (Formerly UTPAB CHEM 3103)

Fee \$8.00  
Introduction to the basic techniques and methods used in the study of biomolecules.

Prerequisite or concurrent enrollment: CHEM 3303.  
CB 206201 Lab 3, Cr 1

### CHEM 3303 BIOCHEMISTRY (Formerly UTPAB CHEM 3403)

Study of the chemical properties of the biomolecules: amino acids, proteins, enzymes, carbohydrates, lipids, nucleic acids, and coenzymes; metabolic energy; the biosynthesis of informational molecules, such as DNA and RNA, will also be discussed.

Prerequisite: CHEM 2323 and CHEM 2123.  
CB 260201 Lec 3, Cr 3

### CHEM 3402 ADVANCED QUANTITATIVE ANALYSIS

(Formerly UTPAB CHEM 3402) Fee \$8.00

A continuation of CHEM 2401 covering the more advanced quantitative methods, with special emphasis on separation and analysis of mixtures.

Prerequisite: CHEM 2401.  
CB 400503 Lab 2, Lab 4, Cr 4

## CHILD CARE AND DEVELOPMENT (TCCD)

### TCCD 1231 CHILD CARE AND DEVELOPMENT LABORATORY EXPERIENCE III

(Formerly TSC CCD 0142) Fee \$8.00

Lecture and laboratory course designed to implement creative play activities for young children.

Prerequisite: TCCD1421 and concurrent enrollment in or credit for TCCD 1331.

CB 995222 Lec 1, Lab 4, Cr 2

**TCCD 1241 CHILD CARE AND DEVELOPMENT  
LABORATORY EXPERIENCE IV**

(Formerly TSC CCD 0152) Fee \$8.00

Lecture and laboratory course with emphasis on planning and preparing cognitive activities for both large and small groups.

*Prerequisite: TCCD1231 and concurrent enrollment or credit for TCCD 1341.*

CB 995222 Lec 1, Lab 4, Cr 2

**TCCD 1301 LANGUAGE ARTS FOR THE YOUNG  
CHILD**

(Formerly TSC CCD 0103)

Techniques and materials designed to prepare teachers of young children to develop a comprehensive language arts program.

CB 995222 Lec 3, Cr 3

**TCCD 1306 CHILD GROWTH AND  
DEVELOPMENT**

(Formerly TSC CCD 0113)

A study of the growth and development of children from birth to the pre-school period. To help care givers understand and guide growth and development through the pre-school years, special emphasis is given to the interrelatedness of physical, emotional, social and mental development.

CB 995222 Lec 3, Cr 3

**TCCD 1321 INFANT CARE EDUCATION**

(Formerly TSC CCD 0123)

This course offers training in the areas of physical, mental, emotional and social growth of the infant from the prenatal period to two years of age; guidance and care of infants in groups; infant stimulation; planning environments for infants.

CB 995222 Lec 3, Cr 3

**TCCD 1326 CURRICULUM DEVELOPMENT**

(Formerly TSC CCD 0133)

Creative curriculum planning with emphasis on setting up learning centers and activities; questioning techniques; integration of curriculum areas, lesson planning and implementation; assessment instruments and procedures will also be examined.

CB 995222 Lec 3, Cr 3

**TCCD 1331 CREATIVE ART, MUSIC AND  
RECREATION ACTIVITIES FOR  
CHILDREN**

(Formerly TSC CCD 0143) Fee \$8.00

A study of creative arts, music, and recreational activities for the young child. Individual projects are planned and presented in the nursery school laboratory.

CB 995222 Lec 2, Lab 2, Cr 3

**TCCD 1341 ORGANIZATION AND  
MANAGEMENT OF A CHILD CARE  
FACILITY I**

(Formerly TSC CCD 0153)

General competencies and business management aspects of child care program administration. Includes attention to regulations, other legal concerns, personnel management, and finances.

CB 995222 Lec 3, Cr 3

**TCCD 1401 CDA PREPARATION I**

(Formerly TSC CCD 0104)

A lecture/lab course for those employed in a child care facility interested in obtaining a CDA. Course focuses on procedures, observations, and portfolio preparation.

CB 995222 Lec 1, Lab 6, Cr 4

**TCCD 1406 CDA PREPARATION II**

(Formerly TSC CCD 0204)

A lecture/lab course to develop teaching strategies in the functional areas as designed by the CDA Awarding System.

*Prerequisite: TCCD 1401*

CB 995222 Lec 1, Lab 10, Cr 4

**TCCD 1411 CHILD CARE & DEVELOPMENT  
LABORATORY EXPERIENCE I**

(Formerly TSC CCD 0114) Fee \$8.00

Provides students with actual experiences to observe the development of pre-school children and to formulate guidance techniques.

*Prerequisite: Concurrent enrollment or credit for TCCD 1306.*

CB 995222 Lec 1, Lab 15, Cr 4

**TCCD 1421 CHILD CARE AND DEVELOPMENT  
LABORATORY EXPERIENCE II**

(Formerly TSC CCD 0134) Fee \$8.00

A study for the curriculum methods, the scope and sequence of learning experiences. The lab experience will consist of at least 15 hours per week under the supervision of the college and the employer in a designated child care facility.

*Prerequisite: TCCD1306 and concurrent enrollment in or credit for TCCD 1326.*

CB 995222 Lec 1, Lab 15, Cr 4

**TCCD 2351 THE EXCEPTIONAL CHILD**

(Formerly TSC CCD 0213)

A study of the needs and methods of guiding children with special psychological and physiological needs. Field experience with exceptional children will be provided.

CB 995222 Lec 2, Lab 2, Cr 3

**TCCD 2356 NUTRITION AND SAFETY FOR  
CHILDREN**

(Formerly TSC CCD 0223)

A study of the effects of food and feeding on child growth, development and learning. Includes planning, selection and serving food to meet children's needs. Also a section is devoted to safety and how children learn and develop safe practices.

CB 995222 Lec 3, Cr 3

**TCCD 2361 ORGANIZATION & MANAGEMENT  
OF A CHILD CARE FACILITY II**

(Formerly TSC CCD 0243)

An in-depth study of program aspects of child care facilities. Planning and implementing child care programs with focus on site selection, design, curriculum development, food preparation and service, and family and community relationships are also studied.

CB 995222 Lec 3, Cr 3

**TCCD 2366 ACTIVITIES FOR THE EXCEPTIONAL  
CHILD**

(Formerly TSC CCD 0233)

Course studies techniques that can be used in caring for exceptional children.

CB 995222 Lec 3, Cr 3

**TCCD 2451 CHILD CARE AND DEVELOPMENT  
LABORATORY EXPERIENCE V**

(Formerly TSC CCD 0214) Fee \$8.00

Lecture and laboratory course designed to implement all aspects of early childhood development to provide quality care and instruction. Emphasis is placed on lesson planning and assessment techniques.

*Prerequisite: TCCD1241 and concurrent enrollment in or credit for TCCD 2351.*

CB 995222 Lec 1, Lab 15, Cr 4

## COMMUNICATION (COMM)

**COMM 1129 PUBLICATIONS LABORATORY**

(Formerly TSC JOUR 0101)

Supervised work as a member of the university newspaper staff. The student is expected to learn editing and make decisions. A student may register for this course one semester, with a maximum of five semester hours.

*Must be enrolled concurrently in either COMM 2311 or COMM 2315, or have credit for both courses.*  
CB 0904015426 Lab 3, Cr 3

**COMM 1335 INTRODUCTION TO TELEVISION**

(Formerly TSC JOUR 0133)

The study of the development, regulation, economics, social responsibilities and industry practices of broadcasting and cable communication; non-broadcast television; new technologies and other communication systems.

CB 0907015126 Lec 3, Cr 3



**COMM 2303 SURVEY OF RECORDING TECHNIQUES**

(Formerly TSC MUS 0153)

An introduction into audio recording including the nature of sound, operation of recording equipment, session procedures, studio techniques, recording techniques, and sound reinforcement for live performances.

*Prerequisite:* READ 0301 or appropriate assessment.  
CB 1001045126 Lec 3, Cr 3

**COMM 2311 NEWS GATHERING AND REPORTING I**

(Formerly TSC JOUR 0113)

Theory and practice of news gathering and writing with emphasis on effective writing. Assignments cover general news, interviews, speeches, meetings, and other fields of activity.

*Students enrolled in this course must take COMM 1129 concurrently.*  
CB 0901015226 Lec 3, Cr 3

**COMM 2315 NEWS GATHERING AND REPORTING II**

(Formerly TSC JOUR 0123)

A continuation of COMM 2311, with emphasis on further developing news gathering and reporting skills. Reporting speeches, interviews, meetings, and other types of reportorial writing are assigned.

*Students enrolled in this course must take COMM 1129 concurrently.*  
*Prerequisite:* COMM 2311.  
CB 0901015326 Lec 3, Cr 3

**COMM 2324 STUDIO TECHNOLOGY I**

(Formerly TSC MUS 0253)

Fee \$8.00

Students will produce, engineer, mix, set-up, and perform in actual recording sessions. Samples for portfolios may be acquired.

*Prerequisite:* MUS 2373.  
CB 100104626 Lec 1, Lab 4, Cr 3

**COMM 2325 STUDIO TECHNOLOGY II**

(Formerly TSC MUS 0263)

Fee \$8.00

Continuation of COMM 2324.

CB 100104626 Lec 1, Lab 4, Cr 3

**COMM 2331 RADIO AND TV ANNOUNCING**

(Formerly TSC SPCH 0153)

Study of voice, diction, pronunciation, phonetics, and delivery in various types of announcing.

CB 100105326 Lec 3, Cr 3

**COMM 2373 BASIC RECORDING TECHNIQUE**

(Formerly TSC MUS 0163)

Fee \$8.00

A continuation and intensive study of materials presented in MUS 2303.

*Prerequisite:* MUS 2303  
CB 100105126 Lec 3, Cr 3

**COMM 3316 INTERCULTURAL COMMUNICATION**

Study of the symbolic and relativistic nature of culture and the resultant problems in attempting to communicate meaning across cultural lines.

CB 231001 Lec 3, Cr 3

**COMM 4308 SPECIAL PROBLEMS IN RHETORICAL CRITICISM**

Significant issues and topics in rhetorical criticism; principles of criticism applied to political and social communication behavior.

CB 231001 Lec 3, Cr 3

**COMPUTER INFORMATION SYSTEMS (TCIS)**

**TCIS 1311 COMPUTER FUNDAMENTALS**

(Formerly TSC CIS 0123)

A computer literacy course open to all students. Provides general knowledge about computers, the skills to use the computer as a problem-solving tool, and the awareness of their effects on society. Topics include: history, terminology, packaged software applications, ethics, and elementary programming concepts.

CB 996021 Lec 3, Cr 3

**TCIS 1372 COMPUTER CENTER OPERATIONS**

(Formerly TSC CIS 0133)

A course to instruct the student in computer center operations, security and control of computer systems, peripheral equipment usage and job process scheduling.

*Prerequisite:* TCIS 1311 or computer experience.  
CB 996021 Lec 3, Cr 3

**TCIS 1373 COMPUTER LOGIC AND FLOWCHARTING**

(Formerly TSC CIS 0143)

Emphasizes reading and understanding instructions and taking these instructions and implementing a logically sound solution.

CB 996021 Lec 3, Cr 3

**TCIS 1401 INTRODUCTION TO BASIC PROGRAMMING**

(Formerly TSC CIS 0134)

Fee \$8.00

A study of computers and their uses in business; computer programming using the basic programming language and hands-on processing.

*Prerequisite:* credit for or registration in of TCIS 1373 or approval of instructor.  
CB 996021 Lec 3, Lab 2, Cr 4

**TCIS 1404 INTRODUCTION TO MICROCOMPUTERS**

(Formerly TSC CIS 0114)

Fee \$8.00

A course to acquaint the student with the capabilities and potential uses of a microcomputer. Topics covered include

operating systems, programming languages, office automation, business applications, data base applications and expansion capabilities.

CB 996021 Lec 3, Lab 2, Cr 4

**TCIS 1408 ADVANCED BASIC PROGRAMMING**

(Formerly TSC CIS 0234)

Fee \$8.00

A continuation of TCIS 1401. Emphasizes advanced file handling techniques, table searching, and internal sorting.

*Prerequisite:* TCIS 1401 (Formerly CIS 0234)  
CB 996021 Lec 3, Lab 2, Cr 4

**TCIS 1471 DATA ENTRY**

(Formerly TSC CIS 0104)

Fee \$8.00

Data entry and verification operations will be emphasized by hands-on-training. Drills will be used to develop maximum speed and accuracy. Also includes an in-depth study of source documents, the conversion of source data into computer media, input record layout design, common input codes, and data entry control.

CB 996021 Lec 3, Lab 2, Cr 4

**TCIS 2316 BUSINESS SYSTEMS DESIGN**

(Formerly TSC CIS 0213)

A study of the techniques to evaluate an existing system, determine its requirements, and design and document a business data processing system.

*Prerequisite:* TCIS 2401.  
CB 996021 Lec 3, Cr 3

**TCIS 2328 COMPUTER INFORMATION SYSTEMS FIELD PROJECT**

(Formerly TSC CIS 0293)

Fee \$8.00

A work-oriented data processing problems, contributed by local business, are planned, developed and resolved in the environment of a normal business operation. The student is given the opportunity to use data processing skills in a simulated or actual employment situation.

*Prerequisite:* credit for or registration in TCIS 2316 and TCIS 2424.  
CB 996021 Lec 1, Lab 4, Cr 3

**TCIS 2401 INTRODUCTION TO COBOL PROGRAMMING**

(Formerly TSC CIS 0154)

Fee \$8.00

A study of the most widely used commercial programming language for large computers. Explanation of the divisions, terms and logic of the language and practice in writing business programs.

*Prerequisite:* TCIS 1401 or approval of instructor.  
CB 996021 Lec 3, Lab 2, Cr 4

**TCIS 2404 DATA BASE CONCEPTS**

(Formerly TSC CIS 0164)

Fee \$8.00

Surveys the logical organization of data bases. The merits of network, hierarchical,

and relational data bases will be reviewed, and concepts of data independence, security, and integrity studied. Commercially available data bases will be reviewed and assignments issued that require establishing a working data base.  
 CB 996021 *Lec 3, Lab 2, Cr 4*

**TCIS 2408 DATA COMMUNICATION**  
 (Formerly TSC CIS 0274) *Fee \$8.00*  
 Review of the various forms of computerized communications. Includes telecommunications and information systems, network techniques for data, voice, text, and image transmissions.  
 CB 996021 *Lec 3, Lab 2, Cr 4*

**TCIS 2414 COMPUTER GRAPHICS**  
 (Formerly TSC CIS 0284) *Fee \$8.00*  
 Writing and using software needed to produce various graphics, including two dimensional graphics. Current applications and hands-on experience are emphasized.  
*Prerequisite: TCIS 1401*  
 CB 996021 *Lec 3, Lab 2, Cr 4*

**TCIS 2420 RPG II PROGRAMMING**  
 (Formerly TSC CIS 0244) *Fee \$8.00*  
 An in-depth study of the logic, fundamentals and program specifications of the Report Program Generator computer language. Designed to give the student basic programming skill in RPG II.  
*Prerequisite: TCIS 2401*  
 CB 996021 *Lec 3, Lab 2, Cr 4*

**TCIS 2424 ADVANCED COBOL**  
 (Formerly TSC CIS 0254) *Fee \$8.00*  
 Advanced COBOL is a continuation of COBOL programming. Emphasis is placed on advanced file handling techniques, table searching, and internal COBOL sorting.  
*Prerequisite: TCIS 2401*  
 CB 996021 *Lec 3, Lab 2, Cr 4*

## COMPUTER SCIENCE (COSC)

Computer Science (COSC) courses are designed for the academic transfer student. They will satisfy the computer science requirement at this and other academic institutions.

COSC courses are listed in the Manual of Approved General Academic Transfer Courses issued by the Coordinating Board of the Texas College and University System.

**COSC 1301 COMPUTERS & MODERN SOCIETY**  
 (Formerly TSC CS 0103)  
 A general computer literacy course to develop student's awareness of the expanding role of computer technology,

and to provide rudimentary knowledge and skills related to personal and social uses of computers. Topics include applications of computers; ethical issues involving computers; history, algorithms and elementary programming in a higher level language; usage of packaged software; and hardware and software terminology.  
 CB 1101015127 *Lec 3, Cr 3*

**COSC 1305 COMPUTER SYSTEM WITH BUSINESS APPLICATIONS**  
 (Formerly TSC CS 0133)  
 An introduction to the primary components of a business computer system and to the primary application software packages used to increase business productivity. These topics are reinforced with microcomputer laboratory exercises.  
*Prerequisite: MATH 0303 (Intermediate Algebra) (Formerly MATH 1023) with grade of "C" or better, or 17 in the ACT math area.*  
 CB 1101015227 *Lec 3, Cr 3*

**COSC 1417 FORTRAN PROGRAMMING**  
 (Formerly TSC CS 0114) *Fee \$8.00*  
 Fundamental characteristics of a digital computer, algorithms, programming, and program structure; computer solutions using the FORTRAN programming language.  
*Prerequisite: MATH 1314 (College Algebra) and MATH 1316 (Trigonometry) or high school equivalent.*  
 CB 1102015227 *Lec 3, Lab 3, Cr 4*

**COSC 1418 INTRODUCTION TO COMPUTER SCIENCE**  
 (Formerly TSC CS 0124) *Fee \$8.00*  
 An introduction to computer science and computer programming. The fundamentals of the PASCAL programming language are introduced. Methods of problem-solving, techniques of algorithm development, and concepts of structured programming are emphasized.  
*Prerequisite: MATH 1314 (College Algebra) or high school equivalent.*  
 CB 1102015227 *Lec 3, Lab 3, Cr 4*

**COSC 2418 COMPUTER SCIENCE II**  
 (Formerly TSC CS 0214) *Fee \$8.00*  
 A second programming course using PASCAL to illustrate problem solving by structured design; to provide an introduction to elementary data structures including linked lists, stacks, queues, trees, and graphs; and to teach advanced programming techniques including recursion, sorting, and searching.  
*Prerequisite: high school or college trigonometry and COSC 1418 (Intro. to Computer Science).*  
 CB 1102015327 *Lec 3, Lab 3, Cr 4*

**COSC 2420 COMPUTER PROGRAMMING IN A SECOND LANGUAGE**  
 (Formerly TSC CS 0234) *Fee \$8.00*  
 Computer programming in two high level programming languages selected from languages such as C, Ada, Modula 2, or LISP. Designed for students who already know how to program in a high level language.  
*Prerequisite: COSC 1417 or COSC 1418 or consent of instructor.*  
 CB 1102015327 *Lec 3, Lab 3, Cr 4*

**COSC 2425 COMPUTER ORGANIZATION AND MACHINE LANGUAGE**  
 (Formerly TSC CS 0224) *Fee \$8.00*  
 An introduction to computer organization, machine language programming, and using of assembly language programming systems. Basic instructional sets, arithmetic and logic operations, indexing, indirect addressing, Micro definition and interpreters. Seven computer programming projects are included.  
*Prerequisite: COSC 1417 (FORTRAN programming) or COSC 1418 (Introduction to Computer Science) or consent of instructor.*  
 CB 1102015427 *Lec 3, Lab 3, Cr 4*

**COSC 3311 COMPUTER PROGRAMMING FOR SECONDARY TEACHERS**  
 (Formerly UTPAB CS 3311)  
 This course provides secondary education majors with the background needed to teach computer programming and/or computer mathematics in high school. Topics include applications of programming to areas in mathematics and science as well as techniques of data processing.  
*Prerequisite: 12 hours of computer science.*  
 CB 110301 *Lec 3, Cr 4*

**COSC 3320 DIGITAL SYSTEM FUNDAMENTALS**  
 (Formerly UTPAB CIS 3320)  
 Boolean algebra and logic gate simplification of Boolean functions, design of sequential logic, registers and counters, memory units, register transfer logic, and functional design of basic computer systems.  
 CB 110401 *Lec 3, Cr 4*

**COSC 3330 FILE STRUCTURES FOR ON LINE SYSTEMS**  
 (Formerly UTPAB CIS 3330)  
 An introduction to the organization of data for on line retrieval purposes. The course includes a study of tools for the on line analysis of data, ordered lists, file structures, pointers and linkages, directories, memory management, and data access methods.  
*Prerequisite: COBOL programming with grade of C or better.*  
 CB 110401 *Lec 3, Cr 4*



**COSC 3333 DATA STRUCTURES***(Formerly UTPAB CS 3333)*

Basic concepts of data and computer storage structures. The organization and maintenance of data files and sorting/searching techniques are studied. Linear lists, strings arrays, orthogonal lists, trees and multilinked structures are developed.

*Prerequisite: COSC 1418*

CB 110401

*Lec 3, Cr 3***COSC 3334 SYSTEMS PROGRAMMING***(Formerly UTPAB CS 3334)*

An introduction to the organization and structure of the major hardware components of computers, the design of assemblers, linkers and loaders, and the fundamental concepts of operating systems.

*Prerequisite: COSC 2425*

CB 110501

*Lec 3, Cr 3***COSC 3335 DATABASE MANAGEMENT SYSTEMS***(Formerly UTPAB CIS 3335)*

An introduction to the logical organization of data bases. The hierarchical, network and relational approaches to data base design are developed and evaluated. Data independence, security, and integrity are discussed in detail as are commercially available data base management systems.

*Prerequisite: COSC 3330*

CB 110401

*Lec 3, Cr 3***COSC 3336 ORGANIZATION OF PROGRAMMING LANGUAGES**

Introduction to specification analysis and implementation of programming languages, including runtime behavior, desirable features, and limitations of various languages.

*Prerequisite: COSC 1418, 3333*

CB 110501

*Lec 3, Cr 3***COSC 3337 SYSTEMS ANALYSIS***(Formerly UTPAB CIS 3336)*

This course is concerned with the critical analysis of data processing operations in an organization and their redesign for computer applications.

CB 110501

*Lec 3, Cr 3**Prerequisite: CIS 3330.***COSC 3340 SOFTWARE DESIGN AND DEVELOPMENT**

A formal approach to state-of-the-art techniques in software design and development. Provides students with the opportunity to work on large projects in a group situation.

*Prerequisite: COSC 3333*

CB 110201

*Lec 3, Cr 3***COSC 3350 NUMERICAL METHODS**

This course includes interpolation, numerical integration, numerical solutions to differential equations and a study of numerical solutions to systems of equations.

*Prerequisite: MATH 3347, 3349, 4348.*

CB 270301

*Lec 3, Cr 3***COSC 3352 INTRODUCTION TO MINICOMPUTERS**

An introductory course covering both computer hardware and software using a minicomputer as an example. Topics include numbering systems and arithmetic operations, computer architecture, logic circuits, assembly language programming and applications. Design of logic circuits and computer programs is included.

*Prerequisite: COSC 2425*

CB 110501

*Lec 3, Cr 3***COSC 4331 INTRODUCTION TO OPERATING SYSTEMS**

A study of computer operating systems, the programs or set of programs that enable a person to easily and efficiently use the computer. This course presents the ideas and algorithms that are necessary or helpful in designing an operating system.

*Prerequisite: COSC 2425, 3333*

CB 110401

*Lec 3, Cr 3***COSC 4336 COMPUTER NETWORK ARCHITECTURES AND PROTOCOLS**

A study of packet switching networks, including ARPANET, DECNET, public network architectures; physical layer protocols, data link layer protocols; network layer protocol design issues including routing flow and congestion control; satellite and packet networks, including ALOHA, and local networks including contention bus schemes.

*Prerequisite: COSC 2425, 3333*

CB 110401

*Lec 3, Cr 3***COSC 4351 SYSTEM PERFORMANCE ANALYSIS**

A study of performance indices, evaluation techniques, including measurement instrumentation and design of experiments, interpretation of results; simulation modeling including simulator design, model calibration, statistical analysis of output data; introduction to analytic modeling; workload characterization; tuning, procurement, and capacity planning applications; program performance application.

*Prerequisite: COSC 4331, MATH 3337*

CB 110501

*Lec 3, Cr 3***COSC 4352 INTRODUCTION TO ARTIFICIAL INTELLIGENCE**

The field of artificial intelligence is introduced by investigating game playing, computer vision, automatic theorem proving, natural language understanding, and knowledge representation. Students are required to read and comment on papers from current literature, and propose potential approaches and system designs for solving a number of open problems.

*Prerequisite: COSC 3336.*

CB 140901

*Lec 3, Cr 3***COSC 4353 COMPUTER INTERCONNECTING STRUCTURES**

The design of interconnecting networks for multiple computer system communication is considered. Such networks include superconcentrators, permuters, concentrators, and expanders/generalizers. Control complexity and network size trade-offs are discussed. The connection assignment problem of diagnosable systems is treated for permanent and intermittent fault models. Syndrome processing algorithms are developed and analyzed.

*Prerequisite: COSC 4331.*

CB 110501

*Lec 3, Cr 3***CRIMINAL JUSTICE (CRIJ)****CRIJ 1301 INTRODUCTION TO CRIMINAL JUSTICE***(Formerly TSC CJ 0113)*

History and philosophy of criminal justice and ethical considerations defines crime and its nature and impact; overview of the criminal justice system, law enforcement; the court system, prosecution and defense, the trial process, and corrections.

CB 997021

*Lec 3, Cr 3***CRIJ 1306 THE COURTS AND CRIMINAL PROCEDURES***(Formerly TSC CJ 1203)*

The judiciary in the criminal justice system, including the right to counsel, pretrial release, grand juries, the adjudication process, types and rules of evidence, and sentencing.

CB 997921

*Lec 3, Cr 3***CRIJ 1307 CRIME IN AMERICA***(Formerly TSC CJ 1133)*

American crime problems in historical perspective; social and public policy factors affecting crime; the impact of crime; crime trends; social characteristics of specific crimes; and prevention of crime.

CB 997021

*Lec 3, Cr 3*

**CRIJ 1308 CRIME PREVENTION**  
(Formerly TSC CJ 1033)

A study of crime prevention as a joint venture between private security and law enforcement. Included are discussions of the history of crime prevention, physical security measures, special problems in loss control, and general security procedures. Emphasizes preventing crimes against property.

CB 997021

Lec 3, Cr 3

CB 997021

Lec 3, Cr 3

CB 997021

Lec 3, Cr 3

**CRIJ 1378 SPECIALIZED SECURITY PROBLEMS**  
(Formerly TSC CJ 1063)

A comprehensive study of the complexities of security problems and counter measures, emphasizing control in industry, commercial settings, hospitals, and other areas requiring private security.

CB 997021

Lec 3, Cr 3

**CRIJ 2328 POLICE SYSTEMS AND PRACTICES**  
(Formerly TSC CJ 1153)

The police profession, the organization of law enforcement systems, the police role, police discretion and ethics, police community interaction, and current and future issues.

CB 997921

Lec 3, Cr 3

**CRIJ 1310 FUNDAMENTALS OF CRIMINAL LAW**

(Formerly TSC CJ 1233)

The nature of criminal law and its philosophical and historical development; major definitions, concepts and classifications of crime; elements of crimes and penalties, using Texas statutes as illustrations; criminal responsibility.

CB 997021

Lec 3, Cr 3

**CRIJ 2301 COMMUNITY RESOURCES IN CORRECTIONS**

(Formerly TSC CJ 0263)

An introductory study of the role of the community in corrections, including community programs for adults and juveniles, administration of community programs; legal issues, and future trends in community treatment.

CB 997021

Lec 3, Cr 3

**CRIJ 2333 TEXAS PEACE OFFICER LAW**  
(Formerly TSC CJ 1083)

A study of laws that are directly related to police field work. Included are traffic, intoxicated driver, the Penal Code, elements of crimes, the Family Code, Alcoholic Beverage Code, and civil liability.

*Prerequisite: thirty semester hours of approved academic courses to include 21 hours of the transfer curriculum in Criminal Justice.*

CB 997021

Lab 80, Cr 3

**CRIJ 1370 INTRODUCTION TO PRIVATE SECURITY**

(Formerly TSC CJ 1013)

An overview of the history, development and philosophy of private security in the United States. Emphasizes on where private security fits into today's society; the Texas Private Security Act, and the relationship of private security with policing and the entire criminal justice system.

CB 997021

Lec 3, Cr 3

**CRIJ 2313 CORRECTIONAL SYSTEMS AND PRACTICE**

(Formerly TSC CJ 1193)

Corrections in the criminal justice system, organization of correctional systems, correctional role, institutional operations, alternatives to institutionalization, treatment and rehabilitation, and current and future issues.

CB 997921

Lec 3, Cr 3

**CRIJ 2334 TEXAS PEACE OFFICER PROCEDURES**

(Formerly TSC CJ 1093)

A study of the techniques and procedures used by police officer on patrol. Included are controlled substance identification, handling abnormal persons, traffic collision investigation, note-taking and report writing, vehicle operation, traffic direction, crowd control and jail operations.

*Prerequisite: Thirty semester hours of approved academic courses to include 21 hours of the transfer curriculum in criminal justice.*

CB 997021

Lab 96, Cr 3

**CRIJ 1372 SECURITY ORGANIZATION & ADMINISTRATION**

(Formerly TSC CJ 1023)

Focuses on the organization and management principles of private security. Modern methods, personnel problems, training, and budgetary issues are discussed.

CB 997021

Lec 3, Cr 3

**CRIJ 2314 CRIMINAL INVESTIGATION**  
(Formerly TSC CJ 0253)

Introduces investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

CB 997021

Lec 3, Cr 3

**CRIJ 2335 TEXAS PEACE OFFICER SKILLS**  
(Formerly TSC CJ 1073)

Demonstration and practice of the skills expected of a police officer, including patrol, traffic stops, use of force, mechanics of arrest, firearms safety and emergency medical care.

*Prerequisite: thirty semester hours of approved academic courses to include 21 hours of the transfer curriculum in criminal justice.*

CB 997021

Lab 80, Cr 3

**CRIJ 1374 LEGAL ASPECTS OF PRIVATE SECURITY**

(Formerly TSC CJ 1043)

This course studies of judicial decisions clarifying the distinctions between police and private powers and their impact on management decisions. Provides the basis of information on legal issues and problems in the security field. Civil liability is introduced.

CB 997021

Lec 3, Cr 3

**CRIJ 2322 JUVENILE DELINQUENCY**  
(Formerly TSC CJ 1213)

Provides an overview of the Texas Family Codes emphasizing Title 3, and officer-juvenile offender interaction; the nature of juvenile delinquency and prevention theories and techniques.

CB 997021

Lec 3, Cr 3

**CRIJ 2323 LEGAL ASPECTS OF LAW ENFORCEMENT**

(Formerly TSC CJ 1243)

Presents police authority responsibilities, and constitutional restraints; law of arrest, search and seizure and police liability.

CB 997021

Lec 3, Cr 3

**CRIJ 3303 NATURE OF CRIME**

Provides an overall perspective of the crime problem with special emphasis given to philosophical and theoretical ideas pertaining to crime and its control, including examining of the victim and criminal typologies.

CB 430104

Lec 3, Cr 3

**CRIJ 1376 PHYSICAL SECURITY**  
(Formerly TSC CJ 1053)

An in-depth examination of the general scope and functions of security. Discussions focus on the fundamental principles of physical protection, internal security and systems of defense. Students are required to design a security plan for a given situation or facility.

**CRIJ 2326 POLICE COMMUNITY RELATIONS**  
(Formerly TSC CJ 0293)

The role of the police officer in achieving and maintaining a positive public response, and exposes the human element of the police community and creating communication channels between the public and the law.

**CRIJ 3314 PUBLIC AND PRIVATE SECURITY**

Studies of security measures taken by industry, retail stores, private policing agencies, military services, and the United States Government, distinguishing

between law enforcement and security responsibilities.

CB 430109 *Lec 3, Cr 3*

**CRIJ 3331 LEGAL ASPECTS OF CORRECTIONS**  
Legal problems and principles from conviction to release, including consideration of convictions, imprisonment, sentencing, conditional release, post conviction procedures, prisoners' rights, probationers' rights, and validity of conviction.

CB 220101 *Lec 3, Cr 3*

**CRIJ 3341 PROBATION AND PAROLE**  
The philosophy, history and principles of probation, parole and other community-based treatment programs, the philosophy of punishment and rehabilitation; trends, practices and current research in probation and parole, including methods of analysis, selection and prediction.

CB 430102 *Lec 3, Cr 3*

**CRIJ 3344 INTERVIEWING TECHNIQUES & PROCESSES FOR CORRECTIONAL AGENCIES**

Addresses techniques and interactions involved in the face to face interview; knowledge of behavioral reactions; development of an awareness of likely responses to the behavior of the interviewer; and interview techniques for pre-sentence investigations, classification, supervision, and related correctional tasks.

CB 090101 *Lec 3, Cr 3*

**CRIJ 3345 CORRECTIONAL ADMINISTRATION**  
Fundamental concepts of management, organization, and administration as specifically applicable to correctional institutions, field services, and community-based corrections.

CB 430102 *Lec 3, Cr 3*

**CRIJ 3361 CRIME AND JUSTICE IN AMERICA**  
This course is designed to give both majors and non-majors a broad overview of crime and the criminal justice system in the United States. Materials, presented on an issue basis, address system capabilities and responses, the dynamics of criminal incidence and reporting, and the future of crime and criminal justice.

CB 430104 *Lec 3, Cr 3*

**CRIJ 3402 CURRENT LITERATURE AND RESEARCH IN CRIMINAL JUSTICE**

Reviews current literature and examines of selected problems affecting the criminal justice system; offers instruction in steps involved in the scientific approach to problem solving; discusses research techniques and paper writing and applications of research in criminal justice.

CB 430199 *Lec 3, Lab 1, Cr 4*

**CRIJ 4311 ADVANCED POLICE ORGANIZATION AND ADMINISTRATION**

In-depth discussion of organizational and administrative theory, comparative discussion of philosophies utilized in business and public administration with potential relationships to police organizations, and the methodology of societal trends affecting criminal justice administration.

CB 430108 *Lec 3, Cr 3*

**CRIJ 4312 PRINCIPLES OF LAW ENFORCEMENT SUPERVISION**

Examines the principles involved in law enforcement supervision; principles of leadership; psychology involved in handling grievances and in building morale; duties and responsibilities of command level personnel; law enforcement budgeting procedures, supervisory problems and responsibilities relating to discipline; and internal affairs investigations.

CB 430108 *Lec 3, Cr 3*

**CRIJ 4313 SEMINAR OF ISSUES IN LAW ENFORCEMENT**

Analyses and discusses contemporary issues in policing with particular attention to current developments, service delivery, and the changing police role; integration established scientific knowledge with practical police experiences in various areas of policing.

CB 430107 *Lec 3, Cr 3*

**CRIJ 4343 SEMINAR OF ISSUES IN CORRECTIONS**

Analyses and discusses contemporary correctional systems, including discussion of recent research concerning correctional institutions and various corrections field services. Emphasis is given to both administrative and treatment concerns in corrections.

CB 430102 *Lec 3, Cr 3*

**CRIJ 4361 INTERNATIONAL STUDY OF CRIME AND JUSTICE**

Studies criminal justice programs and institutions outside of the United States through in-country visitations supplemented by assigned readings, papers, discussion, and dialogue with leading in-country criminal justice personnel. The course permits students to obtain a realistic comparative study of criminal justice in countries other than the United States through first hand experiences.

CB 430104 *Lec 3, Cr 3*

**CRIJ 4362 SPECIAL TOPICS IN CRIMINAL JUSTICE**

Gives advanced undergraduate students the academic flexibility and opportunity to study contemporary issues in crime and criminal justice. It may be retaken once for credit upon approval of the department chairperson.

CB 430104 *Lec 3, Cr 3*

**CRIJ 4401 PRACTICUM-FIELD EXPERIENCES**

Teaches job interview techniques and resume writing and placement in a criminal justice agency or related experience for on-the-job training for a minimum of 120 hours. Students are evaluated by agency critiques, daily logs, and a weekly meeting with the intern coordinator.

CB 430104 *Lec 3, Cr 4*

**CRIJ 4441 CORRECTIONAL CASEWORK AND COUNSELING**

Examines the role and techniques of casework in corrections with emphasis on integrating casework and counseling responsibilities and procedures. The course includes examining of therapeutic techniques and processes in various correctional settings and studying of service delivery programs tailored to the specific needs of correctional clients. This course requires a minimum of 30 hours of casework experience in addition to regular coursework.

CB 430102 *Lec 3, Cr 4*

## DANCE (DANC)

**DANC 1241 BALLET I**  
(Formerly TSC DAN 0102) *Fee \$8.00*

Introduction to technique, theory and vocabulary of classical ballet. Previous ballet experience necessary.

CB 500301530 *Lab 3, Cr 2*

**DANC 1242 BALLET II**  
(Formerly TSC DAN 0112) *Fee \$8.00*

A continuation of DAN 0102.

*Prerequisite: DAN 0102 or equivalent skills.*

CB 500301530 *Lab 3, Cr 2*

**DANC 1251 THEATRE DANCE I**  
(Formerly TSC DAN 0122) *Fee \$8.00*

An introduction to all aspects of theater dance. Emphasizes on technique and vocabulary leading to skills in performing jazz, tap, modern, character, and folkloric dance. Previous dance experience necessary.

CB 500301530 *Lab 3, Cr 2*

**DANC 1252 THEATRE DANCE II**  
 (Formerly TSC DAN 0132) Fee \$8.00  
 A continuation of DANC 1251.  
 Prerequisite: DANC 1241 or equivalent skills.  
 CB 500301530 Lab 3, Cr 2

**DANC 2241 BALLET III**  
 (Formerly TSC DAN 0202) Fee \$8.00  
 A continuation of DANC 1242.  
 Prerequisite: DANC 1242 or equivalent skills.  
 CB 500301530 Lab 3, Cr 3

**DANC 2242 BALLET IV**  
 (Formerly TSC DAN 0212) Fee \$8.00  
 A continuation of DANC 2241.  
 Prerequisite: DANC 2241 or equivalent skills.  
 CB 500301530 Lab 3, Cr 2

**DANC 2251 THEATRE DANCE III**  
 (Formerly TSC DAN 0122) Fee \$8.00  
 A continuation of DANC 1252.  
 Prerequisite: DANC 1252 or equivalent skills.  
 CB 500301530 Lab 3, Cr 2

**DANC 2252 THEATRE DANCE IV**  
 (Formerly TSC DAN 0232) Fee \$8.00  
 A continuation of DANC 2251.  
 Prerequisite: DANC 2251 or equivalent skills.  
 CB 500301530 Lab 3, Cr 2

## DRAFTING TECHNOLOGY (TDRA)

**TDRA 1401 COMPUTER AIDED DRAFTING I**  
 (Formerly TSC DRFT 0144) Fee \$8.00  
 Designed for draftspersons who have studied various specialty areas of drafting. Students will become familiar with the graphic and coordinate systems. Students will change the program to meet their own needs and prove their understanding of the process illustrated with each particular program.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 1405 TECHNICAL DRAFTING I**  
 (Formerly TSC DRFT 0154) Fee \$8.00  
 A course designed to provide fundamental knowledge of the principles of drafting. Basic skills and techniques of drafting, included including use of drafting equipment; lettering, freehand orthographic and pictorial sketching; geometric, construction, orthographic instrument drawing; isometric, oblique, and perspective drawing.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 1410 TECHNICAL DRAFTING II**  
 (Formerly TSC DRFT 0164) Fee \$8.00  
 Preparation of production drawings of professional quality, emphasizing dimensioning and tolerances. A study of gears, cams, fasteners, springs; assembly drawings of small machines; design

characteristics; detail drawings; manufacturing specifications, and foundry pattern drawing.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 1415 ELECTRONIC DRAFTING**  
 (Formerly TSC DRFT 0174) Fee \$8.00

An introductory course in schematic and layout development and study of electrical and physical symmetry of basic electronic circuits. The purpose of this course is to develop an understanding of electronic symbols and the use of industrial standards. Content includes lettering, orthographic projection, isometric drawing, schematic and block diagrams, printed circuit diagrams, and layout procedures.  
 CB 98622 Lec 3, Lab 4, Cr 4

**TDRA 1420 PERSPECTIVE DRAWING**  
 (Formerly TSC DRFT 0184) Fee \$8.00

Introduces the student to the art of perspective drawing, both two-point and one-point. Includes 5 small scale and a large scale perspective in ink. Students are expected to produce a large scale inked rendering for their final project.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 1425 COMPUTER AIDED DRAFTING II**  
 (Formerly TSC DRFT 0194) Fee \$8.00

Utilizes software needed to produce various graphic including two dimensional graphics, and using a computer driven plotter and digitizer. Current applications and hands-on experience are emphasized.  
 CB 998722 Lec 3, Lab 4, Cr 4

**TDRA 2430 PIPING DRAFTING**  
 (Formerly TSC DRFT 0214) Fee \$8.00

An advanced drafting course to introduce students to drafting room procedures as related to process piping and the petrochemical industry. Students will make drawings of varying degrees of complexity including all facets of piping drafting from flow sheets to pipe spool drawings. Emphasis on insulation and pressure vessels.  
 Prerequisite: TDRA 1405 and TDRA 1410  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2435 STRUCTURAL DRAFTING I**  
 (Formerly TSC DRFT 0224) Fee \$8.00

Designed to acquaint students with structural drafting, utilizing and improving the skills learned in previous basic drafting courses. Approximately 10 drawings will be made. Emphasis is placed on wood construction including techniques of structural wood and shop fabrication drafting. In addition to the basic drafting, students will be instructed in structural terminology related to drawing as well as design engineering.

Students will also be instructed in structural beam and column calculation as well as detail these members and their connections.  
 Prerequisite: TDRA 1405 and TDRA 1410  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2440 STRUCTURAL DRAFTING II**  
 (Formerly TSC DRFT 0234) Fee \$8.00

A continuation of Structural Drafting I, in which students learned structural steel drafting. In this course, students must produce drawings and simple beam calculations in concrete and steel. Approximately 10 drawings and 4 tests will be administered throughout the semester. Periodic field trips will be taken to sites of new construction to give students first-hand examples of all the structural members coming together in the field.  
 Prerequisite: TDRA 2435  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2445 TOPOGRAPHIC DRAFTING**  
 (Formerly TSC DRFT 0244) Fee \$8.00

A study of area symbols, authorized abbreviations, classifications, types of maps, scales, topographic mapping and construction of maps, well-spotting, isopach and contour maps, theory and construction of stratigraphic and construction cross sections, contour and contour sketching, and coloring, copying, duplication, reproduction.  
 Prerequisite: minimum one year drafting (TDRA 1405 and 1410 or 1415).  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2450 ARCHITECTURAL DRAFTING**  
 (Formerly TSC DRFT 0254) Fee \$8.00

An introduction to architectural working drawings. The study and development of plans, sections, elevations and details and preparing of a set of working drawings for a frame residence.  
 Prerequisite: minimum one year drafting or consent of instructor.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2455 SURVEYING I**  
 (Formerly TSC DRFT 0264) Fee \$8.00

A study of the construction, care and use of surveying instruments, theory and practice of chaining, differential and profile leveling traversing, computation of areas and earth work; theory and practice of stadia and its application to topographical surveying; public land surveying; lines and grade.  
 Prerequisite: TDRA 1405 and 1410.  
 CB 998622 Lec 3, Lab 4, Cr 4

**TDRA 2460 SURVEYING II**  
 (Formerly TSC DRFT 0274) Fee \$8.00

A continuation of TDRA 2455.

122

*Prerequisite: TDRA 2455.*

CB 998622

*Lec 3, Lab 4, Cr 4*

### **TDRA 2465 SPECIAL PROJECTS**

*(Formerly TSC DRFT 0284)*

*Fee \$8.00*

A third semester architectural course which teaches students to produce working drawings for commercial buildings. Includes all phases of architecture. Students will need to possess a knowledge of lettering and line work acquired from previous basic courses. The instructor will choose projects for students.

*Prerequisite: Two semesters of Drafting and TDRA 2450.*

CB 998622

*Lec 3, Lab 4, Cr 4*

### **TDRA 2470 SPECIAL PROBLEMS**

*(Formerly TSC DRFT 0294)*

*Fee \$8.00*

The fourth and final phase of a three semester course in architectural drafting. Students will utilize all of the background skills acquired in previous basic courses and apply them to the detailing of either a large residence or a commercial building. A portion of this course include student cost estimating.

*Prerequisite: TDRA 2450 and TDRA 2465.*

CB 998622

*Lec 3, Lab 4, Cr 4*

## **DRAMA (DRAM)**

### **DRAM 1310 INTRODUCTION TO THEATRE**

*(Formerly TSC DRM 0113)*

Fundamentals of dramatic art, structural techniques, character analysis and interpretation; make-up, costuming, set design, construction, and lighting; and participation in plays.

CB 5005015130

*Lec 3, Lab 3, Cr 3*

### **DRAM 1351 INTRODUCTION TO ACTING**

*(Formerly TSC DRM 0123)*

Introductory study and analysis of acting, with emphasis on stage movement, spatial awareness, behavioral techniques, and character development.

CB 5005015730

*Lec 3, Lab 3, Cr 3*

### **DRAM 2361 HISTORY OF THE THEATRE**

*(Formerly TSC DRM 0153)*

A study of the history of the theatre including critical review and analysis of selected plays from Greek antiquity to the present.

CB 500501830

*Lec 3, Cr 3*

consumer protection, advertising, health care, and low-income consumers.

CB 4506015242

*Lec 3, Cr 3*

### **ECON 2301 ECONOMIC PRINCIPLES I-MACRO ECONOMICS**

*(Formerly TSC ECON 0213)*

Introduction to national income analysis. Topics include an introduction to supply and demand analysis; the economic functions of government; the determinants of output, employment, and the general price level; national income accounting; classical, Keynesian and neoclassical models of the economy; the Federal Reserve; fiscal and monetary policy; the balance of payments; economic growth and development. Open only to students who have completed all required developmental courses in reading and/or writing as assessed by the University.

CB 4506015142

*Lec 3, Cr 3*

### **ECON 2302 ECONOMIC PRINCIPLES II-MICRO ECONOMICS**

*(Formerly TSC ECON 0223)*

Introduction to price theory. A detailed study of markets emphasizing the themes of efficiency and equity. Topics include elasticity; consumer behavior, the behavior of the firm under perfect and imperfect competition, government regulation, natural resources, labor, international trade, and the distribution of income and wealth. Open only to students who have completed all required developmental courses in reading and/or writing as assessed by the University.

CB 4506015142

*Lec 3, Cr 3*

### **ECON 3351 INTERMEDIATE MACROECONOMIC THEORY**

*(Formerly UTPAB ECO 3351)*

An analysis of the construction, character and operational use of macroeconomic models of classical, Keynesian, and monetarist origins. Applications of these models are made to problems of inflation, unemployment, interest rates, and investment in the United States economy.

*Prerequisites: ECON 2301, 2302.*

CB 450601

*Lec 3, Cr 3*

### **ECON 3352 INTERMEDIATE MICROECONOMIC THEORY**

*(Formerly UTPAB ECO 3352)*

The theory of consumer demand and the theory of the firm. Supply and demand analysis, distribution theory and imperfect competition.

*Prerequisites: ECON 2301, 2302.*

CB 450601

*Lec 3, Cr 3*

### **ECON 3358 LABOR ECONOMICS**

*(Formerly UTPAB ECO 3358)*

Labor market structures and processes; patterns and determinants of work and wages; labor force participation, unemployment, and discrimination, human capital; public policy on manpower development and utilization.

*Prerequisites: ECON 2301, 2302.*

CB 450601

*Lec 3, Cr 3*

### **ECON 4310 COMPARATIVE ECONOMIC SYSTEMS**

*(Formerly UTPAB ECO 4310)*

The major types of economics will be described to show how different economic and social arrangements are used to achieve full employment, price stability, equitable income distribution, and economic growth.

*Prerequisites: ECON 2301, 2302.*

CB 450601

*Lec 3, Cr 3*

### **ECON 4359 HISTORY OF ECONOMIC THOUGHT**

*(Formerly UTPAB ECO 4359)*

A survey is made of the entire field of economics. Prescientific, classical, and contemporary works are studied to understand the development of economic theory and its current direction and scope.

*Prerequisites: ECON 2301, 2302.*

CB 450601

*Lec 3, Cr 3*

### **ECON 6350 MANAGERIAL ECONOMICS**

*(Formerly UTPAB ECO 6350)*

The application of economic analysis to management in the business firm. Considers demand analysis, production costs, pricing policies and invested planning. Extensive use is made of case problem analysis.

*Prerequisites: ECON 2301, 2302.*

CB 060501

*Lec 3, Cr 3*

### **ECON 6351 ECONOMICS SEMINAR**

*(Formerly UTPAB ECO 6351)*

Readings and discussion of selected topics in economics.

*Prerequisites: MBA prerequisite courses or departmental permission.*

CB 450601

*Lec 3, Cr 3*

## **EDUCATION (EDUC)**

### **EDUC 2370 INTRODUCTION TO EXCEPTIONAL CHILDREN**

*(Formerly TSC ED 0213)*

Introduction to the physical and psychological characteristics of the exceptional child. Emphasis is on theory and understanding mental retardation, learning and physical disabilities, and the gifted and talented.

CB 1310015128

*Lec 3, Cr 3*

## **ECONOMICS (ECON)**

### **ECON 1303 CONSUMER ECONOMICS**

*(Formerly TSC ECON 0113)*

The structure and function of the American economy as it affects the consumer. A survey of problems facing consumers including credit, insurance, investments, home ownership, renting,

## EDUCATIONAL

### ADMINISTRATION (EDAD)

#### EDAD 6337 ADMINISTRATION OF SPECIAL INSTRUCTIONAL PROGRAMS

(Formerly UTPAB ED 6337)

Emphasis is placed on the administration of special elementary and secondary school programs including career, vocational, special, compensatory, bilingual, and gifted and talented education.

CB 130401 Lec 3, Cr 3

#### EDAD 6338 THE PRINCIPALSHIP

(Formerly UTPAB ED 6338)

A study of the unique functions of a principal in administering elementary, middle, junior and secondary schools. Special emphasis is on the principal's leadership in management and instruction.

CB 130405 Lec 3, Cr 3

#### EDAD 6381 PROBLEMS IN ORGANIZATION AND ADMINISTRATION OF PUBLIC SCHOOLS

(Formerly UTPAB ED 6381)

Research, readings and study of the organization and administration of elementary and secondary schools; analysis of the role of middle management personnel in improving instruction; an analysis of administrative functions and leadership styles are emphasized.

CB 130401 Lec 3, Cr 3

#### EDAD 6384 INTRODUCTION TO EDUCATIONAL ADMINISTRATION

(Formerly UTPAB ED 6384)

An overview of public school administration introducing such topics as processes of organization and administration; instructional and staff; personnel; finance; leadership roles, curriculum, physical plant operation, maintenance, and legal aspects.

CB 131205 Lec 3, Cr 3

#### EDAD 6385 PUBLIC SCHOOL LAW

(Formerly UTPAB ED 6385)

Constitutional provisions, statutory laws, court decisions, torts and regulations governing public schools with special reference to their influence upon the administration and function of public schools.

CB 220101 Lec 3, Cr 3

#### EDAD 6386 ADMINISTRATION OF PUPIL PERSONNEL SERVICES

(Formerly UTPAB ED 6386)

A problems approach to understanding, developing and managing special pupil services of concern to teachers, counselors, supervisors and administrators.

CB 130401 Lec 3, Cr 3

#### EDAD 6389 ADMINISTRATION AND ORGANIZATION OF SCHOOL BUSINESS SERVICES

(Formerly UTPAB ED 6389)

Principles and procedures of developing and managing a sound financial plan for local school districts with emphasis on Texas Educational Agency financial and accounting procedures. Emphasis on school law, taxation, property management and maintenance, school transportation and managing business personnel.

CB 130401 Lec 3, Cr 3

#### EDAD 6393 ADMINISTRATION OF SCHOOL STAFF PERSONNEL

(Formerly UTPAB ED 6393)

Analysis of personnel organization, administration and function in school systems; relationships of various school positions; a study of ethics, welfare, security and professional improvement.

CB 130401 Lec 3, Cr 3

#### EDAD 6397 ANALYSIS OF TEACHING BEHAVIOR

(Formerly UTPAB ED 6397)

Methods of gathering, analyzing and interpreting data in leadership conferences with student teachers, interns and teachers; applying technology in evaluating skills to show effective behavior. Required of all principals. Emphasis is placed on the Texas Teacher Appraisal System (TTAS).

Prerequisite: ED 6370.

CB 130401 Lec 3, Cr 3

#### EDAD 6398 INTERNSHIP IN MIDDLE MANAGEMENT

(Formerly UTPAB ED 6398)

A field-based course in which students practice skills and theories acquired as they assume responsibilities associated with each of the middle management positions in local school districts.

CB 130401 Lec 3, Cr 3

## EDUCATION – AUDITORIALLY HANDICAPPED (EDAH)

#### EDAH 3340 FOUNDATIONS OF EDUCATION FOR THE DEAF

An introduction to the history of deaf education and related educational philosophies. Includes a study of the characteristics of deaf people and the psychological and social implications of deafness.

CB 131003 Lec 3, Cr 3

#### EDAH 3343 LANGUAGE FOR THE DEAF I

An overview of the theories of language development for the deaf. Procedures for assessing receptive and expressive

language skills, and techniques for improving language development.

CB 131003 Lec 3, Cr 3

#### EDAH 3361 TEACHING READING TO THE DEAF

Comparison of various approaches to teaching the deaf to read, including whole language, basals, sight words, and key words.

CB 131003 Lec 3, Cr 3

#### EDAH 4345 NORMAL SPEECH AND LANGUAGE DEVELOPMENT

A study of the normal acquisition of speech and language including the linguistic features of English and form and functions of language.

CB 230601 Lec 3, Cr 3

## EDUCATION – CURRICULUM & INSTRUCTION (EDCI)

#### EDCI 0300 COLLEGE STUDY SKILLS

(Formerly TSC ED 0133)

A course to increase student success in college. Topics include time management, note-taking, study techniques, test taking strategies, communication skills, and personal issues that face many college students.

CB 3201035735 Lec 3, Cr 3

#### EDCI 3301 DESIGN & MANAGEMENT OF INSTRUCTION

(Formerly UTPAB ED 3301, EDS 3301)

Instructional methods and strategies that emphasize practical application of the teaching-learning process to planning, organizing, selecting, using and managing teaching media and technology. Teaching the essential elements of the school curriculum will be emphasized to include the use of audio, visual, video and computer systems.

CB 130501 Lec 3, Cr 3

#### EDCI 3305 SOCIO CULTURAL FOUNDATIONS OF EDUCATION

(Formerly UTPAB ED 3305)

An examination of the social and cultural forces that influence education in multi-cultural settings. Emphasis will be given to the pluralistic nature of American society, its culturally diverse student populations, and its educational institutions.

CB 130901 Lec 3, Cr 3

#### EDCI 3312 TESTING AND MEASUREMENT

This course emphasizes the role of the teacher in evaluating and guiding children in elementary school. Constructing, administering, interpreting and applying results of evaluation devices will be studied as they apply to directed learning and behavior in classrooms.



CB 130301	Lec 3, Cr 3	CB 131305	Lec 3, Cr 3	design instruction to enable elementary students to reach educational goals and objectives. Long-range planning, lesson planning, and using instructional media and community resources are stressed. The scope, sequence and materials for teaching the elementary school curriculum are studied.
EDCI 3315	<b>THE BILINGUAL CURRICULUM IN THE CONTENT AREAS</b>	EDCI 3332	<b>SOCIAL STUDIES &amp; SCIENCE IN THE ELEMENTARY SCHOOL</b>	<i>Prerequisites: EDCI 4301 and 4302.</i>
In this course the state-mandated curriculum for the content areas are studied, focusing on the essential elements of science, mathematics, social studies, and health in a bilingual classroom, including the role of language, in comprehensive, systematic program design.		Methods of teaching social studies and science in elementary school. Practical applications of the teaching-learning process for teaching the essential elements are emphasized.		CB 131202
CB 130201	Lec 3, Cr 3	CB 131317	Lec 3, Cr 3	Lec 3, Cr 3
EDCI 3316	<b>TEACHING OF SPANISH READING IN THE BILINGUAL CLASSROOM</b>	EDCI 4301	<b>FOUNDATIONS OF EDUCATION</b>	EDCI 4306
<i>(Formerly UTPAB ED 3316)</i>		This course focuses on the principles of education including historical and philosophical development, purposes, goal setting, legislation, and rights and responsibilities in a multicultural society. The course also stresses the structure and function of local, state, and federal roles in education, and promoting participation in the profession.		<b>INSTRUCTIONAL METHODOLOGY &amp; CLASSROOM MANAGEMENT</b>
In this course provides a rationale, goals, and diagnostic and instructional strategies for teaching Spanish reading as the first language in a bilingual classroom. Special emphasis is placed on initial and developmental reading in Spanish and transition into English reading.		CB 130901	Lec 3, Cr 3	This course focuses on teaching methods that emphasize practical application of teaching-learning theories and principles of classroom organization and discipline. Strategies for giving basic instructions and developing higher-level thinking skills are stressed. The scope, sequence, materials and methods for teaching the elementary school curriculum are studied.
<i>Prerequisite: EDCI 3323</i>		EDCI 4302	<b>EDUCATIONAL PSYCHOLOGY IN THE ELEMENTARY SCHOOL</b>	<i>Prerequisites: EDCI 4301, 4302, 4305.</i>
CB 131315	Lec 3, Cr 3	The principal focus of this course is on major theories of the teaching-learning process and human growth and development as they relate to the elementary school. It includes the effect of multicultural differences on teaching as well as the needs of special learners. Measuring and evaluating student achievement are examined.		CB 131202
EDCI 3322	<b>FOUNDATIONS OF BILINGUAL EDUCATION</b>	CB 130801	Lec 3, Cr 3	Lec 3, Cr 3
The study of cultural, psychological, socio-economic, linguistic, cognitive and curriculum factors affecting the academic achievement of bilingual students. This course also investigates the philosophical, legal, and sociological aspects of bilingual education in the American public school system. National, state, and local guidelines designed to meet the needs of multi-lingual, multi-cultural student populations are reviewed.		EDCI 4303	<b>EDUCATIONAL PSYCHOLOGY IN THE SECONDARY SCHOOLS</b>	EDCI 4307
CB 300401	Lec 3, Cr 3	The principal focus of this course is on major theories of the teaching-learning process and human growth and development as they relate to the secondary school. It includes the effect of cultural differences upon teaching as well as the needs of special learners. Measuring and evaluating student achievement are examined.		<b>SECONDARY PRE-STUDENT TEACHING PRACTICUM</b>
EDCI 3324	<b>ENGLISH AS A SECOND LANGUAGE</b>	CB 130801	Lec 3, Cr 3	This field based, pre-student teaching course focuses on the skills needed to meet the requirements of the Texas Teacher Appraisal System. The application of a lesson plan cycle that incorporates the essential elements of the Texas curriculum, principles and applications of reading skills in content areas, application of tests and measurements, and teaching techniques and media are studied. The course also includes practical application of teaching methods, classroom management and curriculum organization, planning and evaluation.
The rationale, theories, and goals of a comprehensive ESL curriculum program that complies with the needs of the public schools and the standards of the State of Texas are studied.		EDCI 4304	<b>FIRST LANGUAGE LEARNING &amp; SECOND LANGUAGE ACQUISITION</b>	<i>Prerequisites: EDCI 4301 and 4303.</i>
CB 131401	Lec 3, Cr 3	This course investigates learning language in a bilingual setting beginning with early childhood and continuing through secondary school. Special emphasis is placed on first language development and second language acquisition, transference of skills and concepts, and comparative study of two languages.		CB 131205
EDCI 3328	<b>TEACHING ELEMENTARY SCHOOL MATHEMATICS</b>	CB 130801	Lec 3, Cr 3	Lec 3, Cr 3
Instructional methods and strategies emphasizing practical applications of the teaching-learning process to teaching elementary school mathematics. The scope and sequence of the essential elements for elementary school mathematics are taught.		EDCI 4305	<b>INSTRUCTIONAL PLANNING &amp; CURRICULUM DEVELOPMENT</b>	EDCI 4308
CB 131311	Lec 3, Cr 3	This course presents principles of curriculum organization and planning based on learners' needs. Students will		<b>CURRICULUM IN THE SECONDARY SCHOOL</b>
EDCI 3331	<b>LANGUAGE ARTS - CHILD LITERATURE IN THE ELEMENTARY SCHOOL</b>	EDCI 4305	<b>INSTRUCTIONAL PLANNING &amp; CURRICULUM DEVELOPMENT</b>	This field based, pre-student teaching course focuses on applying Texas curriculum requirements incorporating a lesson cycle for planning, implementing, and evaluating teaching and learning in secondary schools within legal and ethical guidelines. It includes basic principles and procedures of classroom management, with emphasis on discipline, teaching strategies, and procedures which include group and individual processes adapted to the teacher's personality and students' needs and abilities. Micro-teaching with appropriate instructional media and technology for the secondary student are included.
Methods of teaching language arts in elementary school with special emphasis on communication skills and children's literature. Attention is given to teaching English as a second language.		CB 230601	Lec 3, Cr 3	<i>Prerequisites: EDCI 4301, 4303, and 4307.</i>
		EDCI 4305	<b>INSTRUCTIONAL PLANNING &amp; CURRICULUM DEVELOPMENT</b>	CB 131205
		This course presents principles of curriculum organization and planning based on learners' needs. Students will		Lec 3, Cr 3

**EDCI 4310 DIRECTED TEACHING - ESL**  
(Formerly UTPAB ED 4310)

This course must be taken by all undergraduate student teachers working toward an English-as-a-Second-Language endorsement for teaching in ESL programs. The course requires observation and teaching in a public school ESL classroom for 6 weeks full-time, Monday through Friday. This work is done under the direction of a fully certified teacher of the class to which the student is assigned. Periodic observations and evaluations are done by the course instructor. Weekly seminars and individual conferences are a required part of the course.

*Prerequisite: approval by the Teacher Education Committee. Student must also be enrolled in EDCI 4311 - Elementary or EDCI 4398 - Secondary.*  
CB 139999 Lec 1, Cr 3

**EDCI 4311 DIRECTED TEACHING - ELEMENTARY**  
(Formerly UTPAB ED 4311)

This course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school classroom to which the student is assigned. This work is done under the guidance of the teacher of the class and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Weekly seminars and individual conferences are required as part of the course. Students are in the public school classrooms all day, Monday through Friday, for six weeks.

*Prerequisite: approval by the Teacher Education Committee.*  
CB 139999 Lec 1, Cr 3

**EDCI 4312 DIRECTED TEACHING - EARLY CHILDHOOD**

This course consists of observation, limited participation in teaching, then full teaching responsibility in an early childhood classroom to which the student is assigned. This work is done under the guidance of the teacher of the class and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom all day, Monday through Friday, for 12 weeks.

*Prerequisite: Approval by the Teacher Education Committee.*  
CB 139999 Lec 1, Cr 3

**EDCI 4315 PRINCIPLES OF TEACHING WORKSHOP FOR ELEMENTARY/SECONDARY TEACHERS**

This workshop course is designed to give people entering teaching a theoretical and practical base for their introduction

to teaching and for planning learning activities.

*Special permission must be given to each participant before enrollment in the course.*

CB 130301 Lec 3, Cr 3

**EDCI 4398 STUDENT TEACHING - SECONDARY II**

(Formerly UTPAB ED 4398)

This course is designed to provide secondary school student-teaching experience for teacher education students seeking all-level certification. Student teachers seeking all-level certification will enroll in this course and EDCI 4311 (Directed Teaching-Elementary); secondary student teachers seeking Generic Special Education endorsement will enroll in this course and EDCI 4313 (Directed Teaching-Generic Special Education).

*Student must have completed the following required courses: EDCI 3301, 3302, 3303, 3312, 4332, 4333.*  
CB 139999 Lec 1, Cr 3

**EDCI 4611 DIRECTED TEACHING - ELEMENTARY**

(Formerly UTPAB ED 4611)

This course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom all day, Monday through Friday, for 12 weeks.

*Prerequisite: Approval by the Teacher Education Committee*  
CB 139999 Lec 1, Cr 6

**EDCI 4620 INTERNSHIP ELEMENTARY/SECONDARY SCHOOLS**

Full-time supervised classroom teaching with seminars designed to relate the classroom teaching/learning experience to corresponding educational theory. Applicable to both elementary and secondary majors. May not substitute for student teaching.

*Prerequisite: Baccalaureate degree and acceptance into the UTB Alternative Certification Program.*  
CB 130301 Lec 1, Cr 6

**EDCI 4621 INTERNSHIP ELEMENTARY/SECONDARY SCHOOLS**

Full-time supervised classroom teaching with seminars that relate the classroom teaching and learning experience to educational theory. Applicable to both elementary and secondary majors. May not substitute for student teaching.

*Prerequisites: EDCI 4620.*

CB 130301 Lec 1, Cr 6

**EDCI 4641 STUDENT TEACHING - SECONDARY**

Student teaching for all options - one 36 hours teaching field, or one 48 hour teaching field in approved subjects. Requires a 14 week program which includes two weeks in class on the university campus and 12 weeks full day student teaching in an approved school. Weekly seminars re-emphasize previous course content and its application to the classroom.

*Prerequisite: EDCI 3301, 3302, 3303, 3312, 4331.*  
*Required for Certifications.*  
CB 139999 Lec 1, Cr 6

**EDCI 5342 TESTS AND MEASUREMENT FOR THE SECONDARY CLASSROOM TEACHER**

(Formerly UTPAB ED 5342)

This course emphasizes the role of the teacher in selecting and administering standardized achievement and diagnostic tests, and in the interpreting and using test results to direct learning in the classroom.

CB 130604 Lec 3, Cr 3

**EDCI 6300 INTRODUCTION TO RESEARCH**  
(Formerly UTPAB ED 6300)

This course introduces students to techniques of research and to the various fields of graduate work offered on this campus. It must be taken or be in progress before applying for orals.

CB 130601 Lec 3, Cr 3

**EDCI 6301 INSTRUCTIONAL TECHNOLOGY IN TEACHING**

(Formerly UTPAB ED 6301)

An advanced course designed to provide students with skills, insight and practice in selecting, using, producing and managing teaching tools. The course is helpful to teachers and other who want to direct instructional media centers in public schools.

CB 130501 Lec 3, Cr 3

**EDCI 6311 ADVANCED CHILD PSYCHOLOGY**

This is an advanced study of children from conception to puberty, or from the pre-school through the elementary level, with emphasis on the roles played by maturation and learning. The course includes a study of recent research dealing with theories of cognitive unfolding and personality integration.

*Prerequisite: EDCI 4302*  
CB 130801 Lec 3, Cr 3

**EDCI 6312 EDUCATIONAL MEASUREMENT**  
(Formerly UTPAB ED 6312)

The content of this course includes... variance, item analysis, reliability... true score theories, and validity... topics will be related to constructing... interpreting norm and criterion... measures, teacher made tests, and systematic observational scales.

130801 Lec 3, Cr 3

**EDCI 6316 DEVELOPMENTAL AND ASSESSMENT OF PSYCHOLINGUISTIC PROCESSES**

(Formerly UTPAB ED 6313)

The course is designed to acquaint the student with the physiological mechanisms involved in the acquisition of speech and language and to define those physical, psychological and perceptual aspects that contribute to the developmental language tasks appropriate to various chronological and mental ages. The student will be guided toward understanding of the relationship between aural and written language and social behavior. Observation of children will be included in the requirement.

421201 Lec 3, Cr 3

**EDCI 6319 PRACTICUM IN BILINGUAL EDUCATION**

(Formerly UTPAB ED 6319)

Supervised practical experience in a bilingual/bicultural elementary classroom; essential components of a bilingual/bicultural education program are analyzed and put into effect by each participant. Laboratory responsibility will be based on theoretical concerns. Field experiences will complement study of principles governing community involvement, curriculum and instruction, teaching materials, staff development, and assessment.

131202 Lec 3, Cr 3

**EDCI 6322 THE BILINGUAL CHILD**

(Formerly UTPAB ED 6322)

This course studies the problems and strengths of bilingual children, with emphasis on the educational programs of multi-cultural, multi-ethnic elementary schools.

131202 Lec 3, Cr 3

**EDCI 6324 SECOND LANGUAGE TEACHING: THEORY AND METHODOLOGY**

(Formerly UTPAB ED 6324)

A study of the acquisition of languages of bilingual children, focusing on the role of the child, the community and the school through various stages of language development, and the relationship of linguistic, cultural and conceptual processes within a bilingual/bicultural

environment. Evaluating methods and materials for language teaching as these relate to social context and the principles of communication is stressed.

CB 131202 Lec 3, Cr 3

**EDCI 6330 THE CURRICULUM IN THE ELEMENTARY SCHOOL**

(Formerly UTPAB ED 6330)

Developing of the elementary school curriculum, significant factors which help to shape the curriculum, and implications of research in curriculum construction are studied. Opportunity to select and organize appropriate learning experiences for children of the different levels is offered.

CB 130301 Lec 3, Cr 3

**EDCI 6331 THE CURRICULUM IN THE SECONDARY SCHOOL**

(Formerly UTPAB ED 6331)

An overview of theories, principles and issues in curriculum planning. In addition to an examining current curricular practices, particular emphasis will be placed on promising research ideas and local efforts to improve secondary schools.

CB 131205 Lec 3, Cr 3

**EDCI 6334 CURRICULUM DEVELOPMENT - PROBLEMS AND PROCESSES**

(Formerly UTPAB ED 6334)

This course will examine systematic approaches to developing and evaluating elementary and secondary school curricula. Methods of developing and applying criteria for curriculum analysis of each major curriculum area will be studied.

*Prerequisite: ED 6330, ED 6331, or equivalent.*

CB 130301 Lec 3, Cr 3

**EDCI 6335 TEACHING ELEMENTARY SCHOOL SUBJECTS IN THE BILINGUAL SCHOOL**

(Formerly UTPAB ED 6335)

A course emphasizing a variety of advanced instructional strategies appropriate to teaching modern elementary Mathematics, Science and Social Studies to the bilingual child through the Spanish and English language. Competency will be established in the areas of planning, assessment, teaching, learning, communication, management, concept development, the self-concept, materials community and professional leadership. Precise terminology in English and Spanish and its application in the classroom will be stressed.

CB 131202 Lec 3, Cr 3

**EDCI 6336 PROBLEMS IN EDUCATION (TOPIC COURSE)**

(Formerly UTPAB ED 6336)

This course's major emphasis is on current innovations in education. Students

will conduct research related to selected problems. This research may include conducting action research, working with educational determinants, new education programs, and/or working with classroom teachers and other people in the community to improve the education program. Credit may be applied toward the graduate programs in education when the student chooses an appropriate problem. This course may be repeated once for credit.

CB 130101 Lec 3, Cr 3

**EDCI 6353 TEACHING THE DISADVANTAGED SECONDARY LEARNER**

(Formerly UTPAB ED 6353)

The course emphasizes the problems experienced in teaching educationally and/or culturally disadvantaged secondary school students. Techniques and materials useful in classrooms are studied.

CB 131205 Lec 3, Cr 3

**EDCI 6367 STATISTICAL METHODS**

(Formerly UTPAB ED 6367)

The content of this course will include central tendency; variance; normal, T, chi square, and F distributions; bivariate correlation and regression analysis, T test between means, goodness of fit and test of independence chi square; one-way and factorial ANOVA. Emphasis is on hypothesis testing; Type I and II errors; and understanding statistical significance.

CB 270501 Lec 3, Cr 3

**EDCI 6380 PRACTICUM FOR SECONDARY TEACHERS**

(Formerly UTPAB ED 6380)

Examination of the discipline of the subject-field selected coupled with intensive study of research findings, the publications of learned societies and advanced experiments to improve teaching.

CB 130301 Lec 3, Cr 3

**EDCI 6388 SOCIO-CULTURAL FOUNDATIONS OF EDUCATION**

(Formerly UTPAB ED 6388)

Identifying and analyzing of cultural forces which shape the direction of American education with emphasis on the purposes of education in their social and cultural contexts. The multicultural factors in society which affect public schools and influence learning and acquiring skills important to survival and self-fulfillment will be placed upon understanding the culture of Mexican-American children.

CB 130201 Lec 3, Cr 3

**EDCI 6394 PSYCHOLOGY OF DECISION MAKING**

(Formerly UTPAB ED 6394)

Analysis of skills and techniques needed by school administrators; emphasis on synergistic leadership, teacher-administrator relations, group processes and group dynamics, and assessing administrative performance.

CB 130401 Lec 3, Cr 3

**EDCI 7300 THESIS**

(Formerly UTPAB ED 7300)

CB 130101 Lec 3, Cr 3

**EDCI 7301 THESIS**

(Formerly UTPAB ED 7301)

CB 130101 Lec 3, Cr 3

## EARLY CHILDHOOD EDUCATION (EDEC)

**EDEC 4314 SEMINAR & PRACTICUM IN EARLY CHILDHOOD EDUCATION**

Emphasis on integrating and using the knowledge and skills gained from all previous courses. Field experience in a TEA accredited Pre-K or kindergarten setting is required. Seminars will be held to guide students in putting their programs into effect. Current trends and research including surveys of day care are included in the seminars.

*Prerequisites:* EDEC 4390, 4391, 4392, 4394.

CB 131204 Lec 3, Cr 3

**EDEC 4390 GROWTH AND DEVELOPMENT OF YOUNG CHILDREN**

(Formerly UTPAB EDCI 4309)

Emphasis on developmental and growth characteristics from birth through the eighth year. Affective development, psychomotor development, social and emotional development. Cultural dynamics of family relationships and the family and school are emphasized. Observations, readings, lectures; class activities include day care as well as TEA accredited schools for pre-kindergarten and kindergarten children. Fifteen hours of field experience required.

CB 190799 Lec 3, Cr 3

**EDEC 4391 EARLY CHILDHOOD CURRICULUM**

(Formerly UTPAB EDCI 4391)

Emphasis on a curricular framework that includes providing the environment, materials, methods and practices that are developmentally appropriate for young children. Assessment, classroom management, and lesson planning will also be addressed.

CB 190799 Lec 3, Cr 3

**EDEC 4392 CREATIVE ACTIVITIES IN EARLY CHILDHOOD EDUCATION**

(Formerly UTPAB EDCI 4392)

Materials, equipment, supplies, and activities to be used with young children will be studied. Materials in children's literature and fine arts will be developed. Research and developmental theories to find developmentally appropriate materials and activities will be addressed.

CB 190799 Lec 3, Cr 3

**EDEC 4393 CULTURAL DIMENSIONS RELATED TO EARLY CHILDHOOD**

(Formerly UTPAB EDCI 4393)

Multi-cultural, pluralistic societies will be reviewed with emphasis on major components of culture. The study of cultures of Hispanics and other minorities is an integral part of this course. Dynamics of socioeconomic status, stereotyping, family structure, language acquisition, and health/nutrition will be researched.

CB 131204 Lec 3, Cr 3

**EDEC 4394 BASIC SKILLS IN EARLY CHILDHOOD EDUCATION**

Emphasis on informal unstructured experiences that prompt socioemotional and linguistic growth, and structured practices in basic pre-academic skills that are part of cognitive development. Readiness for first language learning and second language acquisition will be addressed. Parent education, stressing the importance of school and family working together, will also be considered in this course.

CB 131204 Lec 3, Cr 3

**EDEC 5391 CONSTRUCTING CURRICULUM FOR EARLY CHILDHOOD CENTERS**

(Formerly UTPAB ED 5391)

Identification of basic beliefs about the nature of young children, assumptions concerning the processes of development, theories of learning, socio-cultural factors and values upon which curricula are based. Construction of a curriculum in math, science, social learning and language for children of ages 3, 4 and 5, including planning both the learning environment and daily activities. Observing, assisting and teaching in early childhood centers are required. Credit not granted for both EDEC 4391 and EDEC 5391.

CB 131202 Lec 3, Cr 3

**EDEC 5393 ADVANCED STUDIES OF CULTURAL DIVERSITY**

(Formerly UTPAB ED 5393)

Designed to investigate facets of cultural diversity in young children and their relationship to child growth and development; competence of teachers and home-school relationships. Credit not

granted for both EDEC 4393 and EDCI 5393.

CB 131202 Lec 3, Cr 3

## EDUCATIONAL PSYCHOLOGY COUNSELING (EPSY)

**EPSY 6100 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6100)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite:* Permission of Instructor.

CB 131101 Lec 1, Cr 1

**EPSY 6101 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6101)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite:* Permission of Instructor.

CB 131101 Lec 1, Cr 1

**EPSY 6102 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6102)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite:* Permission of Instructor.

CB 131101 Lec 1, Cr 1

**EPSY 6103 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6103)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite:* Permission of Instructor.

CB 131101 Lec 1, Cr 1

**EPSY 6104 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6104)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite:* Permission of Instructor.

CB 131101 Lec 1, Cr 1

**EPSY 6105 SEMINAR IN COUNSELING AND GUIDANCE**

(Formerly UTPAB ED 6105)

Through a series of six steps, develop skills related to helping profession primarily for in-service training with counselors and teachers.

*Prerequisite: Permission of Instructor.*

CB 131101 *Lec 1, Cr 1*

**EPsy 6302 ADVANCED EDUCATIONAL PSYCHOLOGY**

*(Formerly UTPAB ED 6302)*

A research approach to teaching and learning. Human learning, conditions for effective learning, interference with learning and behavioral objectives will be emphasized.

*Prerequisite: EDCI 4302, 4303 or equivalent.*

CB 130801 *Lec 3, Cr 3*

**EPsy 6304 HUMAN GROWTH AND DEVELOPMENT**

*(Formerly UTPAB ED 6304)*

Advanced study in the application of life-span developmental theories to human behavior, learning and personality. Includes understanding the nature and needs of people at all developmental levels from pre-natal through old age.

CB 420701 *Lec 3, Cr 3*

**EPsy 6314 PSYCHO-EDUCATIONAL ASSESSMENT I**

*(Formerly UTPAB ED 6314)*

The content of this course will include administering, scoring, and interpreting of Raven's Progressive Matrices (in pantomime), Wechsler scales (WAIS-R, WISC-R, WPPSI), sociocultural, and adaptive behavior scales. Models of unbiased assessment of children whose sociocultural and linguistic backgrounds differ from American core culture will be covered.

*Prerequisite: EDCI 6312*

CB 130801 *Lec 3, Cr 3*

**EPsy 6341 ADVANCED ADOLESCENT PSYCHOLOGY**

*(Formerly UTPAB ED 6341)*

The history and systems of adolescent psychology. Modern theories and current research in learning and pupil motivation, especially in relation to various aspects of the educational process.

CB 420701 *Lec 3, Cr 3*

**EPsy 6342 PROBLEMS IN GUIDANCE**

*(Formerly UTPAB ED 6342)*

A course involving individual study in planning guidance program. The student will present a paper which will be bound and placed in the library and in the office of counselor education.

CB 131101 *Lec 3, Cr 3*

**EPsy 6345 EDUCATIONAL AND OCCUPATIONAL INFORMATION**

*(Formerly UTPAB ED 6345)*

A survey and analysis of the processes of assisting people to choose, prepare for, enter, and progress in an occupation. The course trains leaders who can help people

make decisions and choices in planning a future and building a career.

CB 131101 *Lec 3, Cr 3*

**EPsy 6360 INTRODUCTION TO GUIDANCE AND COUNSELING**

*(Formerly UTPAB ED 6360)*

Philosophy, principles, and current practices of pupil guidance. Pupils' social, emotional, intellectual and attitudinal dimensions are explored. Group guidance and individual counseling techniques that apply in public schools are studied through lectures, discussions and class participation.

CB 131101 *Lec 3, Cr 3*

**EPsy 6362 THEORIES AND TECHNIQUES IN COUNSELING**

*(Formerly UTPAB ED 6362)*

A survey of psycho-therapy, comparing the contributions of psychoanalysis, non-directive therapy and behavior therapy. Specialized approaches such as group therapy, play therapy and family therapy will be studied. Local facilities that use a variety of these therapeutic techniques will be visited.

*Prerequisite: EPsy 6360 and permission of instructor.*

CB 130801 *Lec 3, Cr 3*

**EPsy 6363 PERSONAL GROWTH**

*(Formerly UTPAB ED 6363)*

Discussions and practical application of group dynamics within a framework of group therapy. Limited to 20 graduate students accepted into the counseling and guidance program.

CB 130801 *Lec 3, Cr 3*

**EPsy 6365 COUNSELING PRACTICUM I**

*(Formerly UTPAB ED 6365)*

A study of selected counseling theories and supervised experience in individual counseling. Cases assigned off campus in schools and community agencies.

*Prerequisites: EPsy 6360, 6362, 6363. Must be taken within last nine hours of program. Limit 12 students.*

CB 420601 *Lec 3, Cr 3*

**EPsy 6366 COUNSELING PRACTICUM II**

*(Formerly UTPAB ED 6366)*

Trends, issues, and ethical considerations affecting the counseling profession. Supervised experiences in individual and group counseling requiring advanced technical skills. May include supervised experiences in professional employment settings. May be repeated for credit twice.

*Prerequisites: EPsy 6360, 6363, 6368, or consent of instructor.*

CB 420601 *Lec 3, Cr 3*

**EPsy 6368 GROUP COUNSELING**

*(Formerly UTPAB ED 6368)*

This course develops an understanding of group processes, theories and techniques. Demonstrated competence in this knowledge and in applying group procedures will be required. Limit 20 students.

*Prerequisites: EPsy 6360, 6362, and 6363.*

CB 131101 *Lec 3, Cr 3*

## EDUCATIONAL SUPERVISION (EDSU)

**EDSU 6370 SUPERVISION OF INSTRUCTION**

*(Formerly UTPAB ED 6370)*

Fundamental problems of supervising instruction in small and moderate size public schools; the nature and organization of supervision, supervisory plans and principles; effect of recent educational practices on supervision; duties, relationships and training of supervisory officials; standards for judging teachers; methods of improving instruction; case studies in supervision; the use of conferences, teacher's meetings, demonstration teaching, visitation and research studies as supervisory tools. Includes credit for TEA required Instructional Leadership Training.

CB 130301 *Lec 3, Cr 3*

**EDSU 6371 PRACTICUM IN SUPERVISION**

*(Formerly UTPAB ED 6371)*

Experience in supervisory methods and practices for elementary school and secondary school supervisors. Teacher rating scales, in-service programs and staff development processes will be analyzed and put into effect by each participant. A strong focus upon clinical supervision.

*Prerequisite: EDSU 6370.*

CB 130401 *Lec 3, Cr 3*

**EDSU 6379 PROBLEMS IN EDUCATIONAL SUPERVISION**

*(Formerly UTPAB ED 6379)*

Participants will define and resolve a supervisory problem in their specific area of interest. Participant will be directed in their study by a graduate faculty member. A formal research paper dealing with a specific supervisory problem will be required.

*Prerequisite: EDSU 6370, 6371.*

CB 130401 *Lec 3, Cr 3*

## EDUCATION-GENERIC SPECIAL (SPED)

### SPED 4301 PERCEPTION AND LANGUAGE DEVELOPMENT

(Formerly UTPAB ED 4301)

This course studies perception and its relationship to language, with an emphasis on oral language development and psycholinguistic processes as they relate to the mildly and moderately cognitively disabled hispanic bilingual child.

CB 131011 Lec 3, Cr 3

### SPED 4302 PERCEPTION AND COGNITIVE DEVELOPMENT

(Formerly UTPAB ED 4302)

This course will study the neurological bases for perception and cognition. Problem solving and information processing will be emphasized. In addition, multisensory and perceptual-motor methodology used in teaching mildly and moderately disabled children will be studied.

CB 131011 Lec 3, Cr 3

### SPED 4303 INDIVIDUALIZED INSTRUCTION FOR MILDLY AND MODERATELY DISABLED

(Formerly UTPAB ED 4303)

This course will study specialized techniques and methods for teaching the mildly and moderately disabled special education child in academic areas. The methods covered will include task analysis, behavior modification, successive and simultaneous processing of information, classroom management and classroom organization.

CB 131001 Lec 3, Cr 3

### SPED 4307 FIELD EXPERIENCES IN GENERIC SPECIAL EDUCATION

(Formerly UTPAB ED 4307)

This course will provide students with field experience teaching mentally retarded, learning disabled and emotional disturbed children. Training for parents of exceptional children will be included.

*Prerequisite:* SPED 2370.

CB 131001 Lec 3, Cr 3

### SPED 4309 PRACTICUM IN GENERIC SPECIAL EDUCATION

(Formerly UTPAB ED 4309)

This course provides students in the generic special education teacher training program with clinical experiences working with mentally retarded, learning disabled, and emotionally disturbed. This course will require students to use cognitive and behavioral task analysis and classroom management principles and techniques to teach handicapped students to learn how

to learn through information processing and multi-sensory-perceptual approaches.

*Prerequisite:* Nine hours of upper level special education courses.

CB 131001 Lec 3, Cr 3

### SPED 4313 DIRECTED TEACHING - GENERIC SPECIAL EDUCATION

(Formerly UTPAB ED 4313)

This course must be taken by all undergraduate students working toward special education certification. The course requires observing and teaching in a public school special education classroom all day, Monday through Friday, for six weeks. This work is done under the direction of a fully certified teacher of the class to which the student is assigned and under the supervision of a college professor who observes and evaluates the student's progress. Seminars and individual conferences are a required part of the course.

*Prerequisite:* 18 hours of upper level special education courses. Approval by the Teacher Education Committee. Students must also be enrolled in EDCI 4311, EDCI 4398 or EDCI 4641.

CB 139999 Lec 3, Cr 3

### SPED 4371 TESTING AND ASSESSMENT OF EXCEPTIONAL INDIVIDUALS

(Formerly UTPAB ED 4371)

This course will include norm and criterion referenced measures, systematic observational procedures, and clinical observation techniques. There will be an emphasis on assessing handicapped individuals who vary linguistically and socio-culturally. This course will relate assessing and appraising of exceptional individuals to instruction and treatment.

CB 420601 Lec 3, Cr 3

### SPED 4372 EXCEPTIONAL INDIVIDUAL (Formerly UTPAB ED 4372)

This course will include the exceptional individual in the sociocultural context of family, community, education, and vocation. Training parents of exceptional individuals will be included. Social, emotional, and cognitive development of mildly and moderately handicapped individuals through infancy, early childhood, adolescence, and adulthood.

CB 451101 Lec 3, Cr 3

## ELECTRONICS (TELC)

### TELC 1301 BEGINNING HANDSKILLS

(Formerly TSC ELEC 0103) Fee \$8.00

Handskills associated with electrical and electronic technologies. The laboratory will emphasize developing proficiency in soldering; hand tool familiarization; component identification; reading and drawing block diagrams, schematics, and wiring diagrams associated with

electronics; and PC board construction. Students are required to purchase at least one kit for construction in class.

CB 998824 Lec 2, Lab 4, Cr 3

### TELC 1405 BASIC CIRCUITS

(Formerly TSC ELEC 0104) Fee \$8.00

Basic electronics principles and circuits. Topics include energy, electricity, conductors, resistive circuits, magnetism, generators, meters, instrument, inductance, capacitance, RCL circuits, and basic AC-DC motors. Appropriate laboratory will parallel the lecture. This course may not be substituted for any course in the Electronic Technology AAS degree plan.

CB 998824 Lec 3, Lab 4, Cr 3

### TELC 1410 DIGITAL ELECTRONICS I

(Formerly TSC ELEC 0114) Fee \$8.00

A first year digital electronics course designed to provide the student with a understanding of Boolean algebra, digital circuits, gates and switching circuits.

CB 998824 Lec 3, Lab 4, Cr 3

### TELC 1420 TV FUNDAMENTALS

(Formerly TSC ELEC 0124) Fee \$8.00

Basic TV systems: low and high voltage power supplies, vertical and horizontal sweep synchronization, tuners, I amplifiers, video, AGC, color and sound circuits. Appropriate laboratory will parallel the lecture. This course may not be substituted for any course in the Electronics Technology AAS degree plan.

*Prerequisite:* TELC 1405.

CB 998824 Lec 3, Lab 4, Cr 3

### TELC 1425 AUTOMOTIVE COMPUTERS

(Formerly TSC ELEC 0134) Fee \$8.00

Automotive computer systems used for fuel, ignition, and pollution control along with their sensors. The course will provide a basic presentation of the electronics fundamentals required to understand solid state ignition, basic computers, and computer input and output devices. Methods for diagnosing problems and testing systems will be presented. Appropriate laboratory experience will parallel the lecture.

CB 998824 Lec 3, Lab 4, Cr 3

### TELC 1430 BASIC SEMICONDUCTORS

(Formerly TSC ELEC 0144) Fee \$8.00

Basic semiconductors and the application in diodes and power supply transistors and amplifiers, power amplifiers, oscillators, radio reception and transmission, and integrated circuits. Appropriate laboratory experiences will parallel the lecture. This course may not be substituted for any course in the Electronics Technology AAS degree plan.

CB 998824 Lec 3, Lab 4, Cr 3

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**TELC1435 DC THEORY**  
*(Formerly TSC ELEC 0154)* Fee \$8.00  
 A first-year course designed to introduce students to DC voltage, current and resistance in parallel and series circuits. Loop and nodal analysis using Thevenin's and Norton's theorems are included.  
*Prerequisite: High School Algebra or concurrent enrollment in College Algebra.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC1440 AC THEORY**  
*(Formerly TSC ELEC 0164)* Fee \$8.00  
 A continuation of ELEC 0154 covering topics in AC circuits, phases, inductance, inductive reactance, capacitance, capacitive reactance, RLD circuits, resonance, and filters.  
*Prerequisite: TELC 1435.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC1445 DIGITAL ELECTRONICS II**  
*(Formerly TSC ELEC 0174)* Fee \$8.00  
 A first year digital electronics course designed to provide students with an understanding of microprocessors, programming in machine language, interfacing with computers, and a further study of number systems.  
*Prerequisite: TELC 1410.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC1450 SATELLITE SYSTEMS**  
*(Formerly TSC ELEC 0184)* Fee \$8.00  
 A study of satellite receiving theory including antenna site selection, antenna alignment, special microwave circuits, cabling of mechanical and electronic controls, and satellite receiver circuits. Appropriate laboratory work will be provided using three satellite receiver systems.  
*Prerequisite: TELC 1420 or TELC 2401.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC1455 ELECTRONICS COMMUNICATION**  
*(Formerly TSC ELEC 0194)* Fee \$8.00  
 A third semester course designed to introduce students to the amplitude, frequency, and pulse modulation techniques used in modern communications systems. Transmission lines, wave guides, wave propagation, and antennas will also be covered. Appropriate laboratory experience will parallel the lecture.  
*Prerequisite: TELC 1440 and TELC 1445.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC2240 SPECIAL PROJECTS**  
*(Formerly TSC ELEC 0262)* Fee \$8.00  
 A course to help the students gain additional knowledge and skill in electronics by working on projects. The projects may be kits purchased by the

student, equipment needing repair, or special design projects which the instructor believes will increase the student's general electronics skills.  
*Prerequisite: third or fourth semester standing in the electronics program.*  
 CB 998824 Lec 1, Lab 4, Cr 2

**TELC 2410 VIDEO CASSETTE SYSTEMS**  
*(Formerly TSC ELEC 0214)* Fee \$8.00  
 A study of video cassette recording theory including video, audio, and manufacturer's materials for alignment and testing of all systems.  
*Prerequisite: TELC 1415 or 2401.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2415 VIDEO SYSTEMS**  
*(Formerly TSC ELEC 0224)* Fee \$8.00  
 A study of television theory covering basic systems, power supplies, horizontal and vertical sweep circuits and their synchronization, high voltage circuits, channel selection methods, if amplifiers, video, AGC color, picture tubes, and sound; with appropriate laboratory experiences.  
*Prerequisite: TELC 1435 and TELC 1410.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2425 DIGITAL IV, COMPUTER DIAGNOSTICS**  
*(Formerly TSC ELEC 0234)* Fee \$8.00  
 A study of board level trouble-shooting techniques for computer maintenance using diagnostic software and problem isolation charts. The course will include experience in disassembling (removing all boards), and reassembling a microcomputer, disc drive, and line printer.  
*Prerequisite: TELC 1440 and 1445.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2430 DIGITAL III, ROBOTICS**  
*(Formerly TSC ELEC 0244)* Fee \$8.00  
 A study of computer interfacing with time, sound, light, motion detection, sonar ranging, and mobility axis using machine language programming of Hero-1 training robot and a Heathkit programmed robotics course.  
*Prerequisite: TELC 1440 and 1445.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2435 SEMICONDUCTORS I**  
*(Formerly TSC ELEC 0254)* Fee \$8.00  
 A second-year course to introduce students to semiconductor devices and solid state circuits. Diode and transistor theory will be covered along with power supplies and basic transistor amplifier theory. Appropriate laboratory experiences will be provided to reinforce the materials presented during lecture.  
*Prerequisite: TELC 1440.*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2455 SEMICONDUCTORS II**  
*(Formerly TSC ELEC 0264)* Fee \$8.00  
 A continuation of ELEC 2435 in which additional amplifier theory and additional solid state devices and applications are discussed. Appropriate laboratory experiences that parallel the lecture material will be provided.  
*Prerequisite: TELC 2435*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2460 ELECTRICAL MACHINES**  
*(Formerly TSC ELEC 0274)* Fee \$8.00  
 Study of the theory and operation of direct and alternating current machines. Appropriate laboratory experiments will include the operation of DC motors, DC generators, and three phase and single phase AC motors and alternators.  
*Prerequisite: TELC 1440*  
 CB 998824 Lec 3, Lab 4, Cr 4

**TELC 2465 ELECTRO OPTICS AND LASERS**  
*(Formerly TSC ELEC 0284)* Fee \$8.00  
 An introduction to optical electronic devices, lightwave communications, optical sources, optical detectors, fiber optics, lasers and laser physics.  
*Prerequisite: TELC 1440.*  
 CB 998824 Lec, Lab 4, Cr 4

**TELC 2470 INSTRUMENTATION AND INSTRUMENTS**  
*(Formerly TSC ELEC 0294)* Fee \$8.00  
 An introduction to the theory and use of general electronics test equipment such as VOM, audio oscillator, RF oscillator, oscilloscope, and frequency counters.  
*Prerequisite: enrollment in third or fourth semester of the electronics program.*  
 CB 998824 Lec 3, Lab 4, Cr 4

## EMERGENCY MEDICAL TECHNOLOGY (TEMT)

**TEMT 1705 EMT - BASIC**  
*(New course)* Fee \$8.00  
 Students are taught the overall role and responsibility of the Emergency Medical Technician in performing both the emergency care and optional aspects of the job. (i.e., extrication, triage and rescue techniques)  
 CB 998140 Lec 6, Lab 5, Cr 7

**TEMT 1190 CLINICAL PRACTICUM**  
*(New course)*  
 The practicum is a supervised learning experience in a clinical facility that will enable the student to develop the insight, understanding, and skills used on emergency medical procedures. The course will provide the student the time to analyze and solve problems related to

a medical emergency. Taught concurrently with EMT - Basic.

*Prerequisite:* TEMT 1705.

CB 998140

Lab 3, Cr 1

#### TEMT 1191 AMBULANCE ROTATION

*(New course)*

Ambulance training provides an opportunity for the student to put newly acquired knowledge and skills into actual observation on actual ambulance runs and to develop good record keeping techniques.

*Prerequisite:* TEMT 1705.

CB 998140

Lab 3, Cr 1

#### TEMT 1193 INTERMEDIATE - CLINICAL AND ALS PRACTICUM

*(New course)*

The practicum will allow the students to reinforce their theoretical and practical experiences learned in the previous EMS courses. The clinical areas included during the student rotation in the clinical affiliates include: intensive care, labor and delivery, pediatrics, medical floors and emergency room. The remainder of the practicum will be spent on the MICU units of the available Emergency Medical Services Provider.

*Prerequisite:* TEMT 1715

CB 998040

Lab 10, Cr 1

#### TEMT 1715 EMT - INTERMEDIATE

*(New course)*

Fee \$8.00

This course will allow the student to become familiar with and demonstrate the proper identification of patients in need of fluid replacement, types of fluid used for replacement, breathing difficulties, shock, respiratory system, the human system and patient assessment. Students must also demonstrate their ability to handle, insert and maintain equipment used in the management of these patients.

*Prerequisite:* TEMT 1705

CB 998140

Lec 6, Lab 5, Cr 7

#### TEMT 2190 PARAMEDIC MOBILE INTENSIVE CARE UNIT ROTATION I

*(New course)*

The student will be exposed to actual treatment of patients in a pre-hospital setting. Possible diagnosis and patient assessments will be performed with the guidance of a vintage paramedic preceptor. Communication skills will be evaluated while riding in a mobile intensive care unit.

*Prerequisite:* TEMT 2525

CB 998140

Lab 4, Cr 1

#### TEMT 2192 PARAMEDIC CLINICAL PRACTICUM II

*(New course)*

The areas of clinical internship will be focused on operating room, emergency

room, intensive care unit, labor and delivery and various laboratories. The student will activate and perform all skills to the optimum in proficiency. All clinical preceptors will make a final decision evaluation at this time.

*Prerequisite:* TEMT 2525

CB 998140

Lab 5, Cr 1

#### TEMT 2194 PARAMEDIC MOBILE INTENSIVE UNIT ROTATION II

*(New course)*

The students that have successfully reached this level of rotation will perform all basic, intermediate, and advanced skills with minimal preceptor intervention. All MICU rotation preceptors will make final student field evaluation at this time. All student practicum rotations will be evaluated by primary instructor to gauge a final grade.

*Prerequisite:* TEMT 2525

CB 998140

Lab 6, Cr 1

#### TEMT 2205 TRIAGE AND MANAGEMENT

*(New course)*

Fee \$8.00

This course will introduce the principles of management, telemetry and communications. Stress will be placed on the important premise that paramedics must work as team members with other allied health professionals. The principles of triage in a simulated multi-trauma situation will be discussed/performed by the student. An introduction to hazard and rescue control will also be included.

*Prerequisite:* TEMT 2515

CB 998140

Lec 1, Lab 2, Cr 2

#### TEMT 2290 PARAMEDIC CLINICAL PRACTICUM I

*(New course)*

Fee \$8.00

This practicum is designed as a reinforcement of theoretical and practical experiences of respiratory distress management, fluid imbalance and the pharmacology associated with fluid replacement. This practicum will include clinical experienced that will be divided among the hospital and ambulance service.

*Prerequisite:* TEMT 2515

CB 998140

Lec 1, Lab 2, Cr 2

#### TEMT 2301 EMS AND THE LAW

*(New course)*

This course will familiarize the students with the laws of the state of Texas governing their actions and patients' rights. Medical Ethics will be discussed in great detail.

*Prerequisite:* TEMT 2505.

CB 998140

Lec 3, Cr 3

#### TEMT 2315 PHARMACOLOGY

*(New course)*

Fee \$8.00

Pharmacology provides drug information, discusses the action of drug, discusses the metric system and how to calculate drug dosages, discusses the administration of drugs, and give the techniques of administration.

*Prerequisite:* TEMT 2515

CB 998140

Lec 1, Lab 2, Cr 1

#### TEMT 2505 EMT - PARAMEDIC I

*(New course)*

Fee \$8.00

This course will allow the student to become familiar with advanced medical terminology, and to demonstrate the proper identification of patients with cardiac arrhythmias, cardiac arrest, congestive heart failure, cardiogenic shock and hypertensive states. Student will become familiar with obstetrical, gynecology emergencies, soft tissue injuries, pediatric and neonatal emergencies, and emergency care of the emotionally disturbed. The students must also demonstrate the proper use of the defibrillator, rotation of tourniquet, endotracheal intubation and medical head lung resuscitation through the lab competency exam.

*Prerequisite:* TEMT 1715

CB 998140

Lec 4, Lab 4, Cr 1

#### TEMT 2515 EMT - PARAMEDIC II

*(New course)*

Fee \$8.00

This course will allow the students to become familiar with and demonstrate the proper identification of patients with CNS disorders, medical emergencies, soft tissue injuries, musculoskeletal injuries, cardiovascular system, central and nervous system. The students must demonstrate the proper use of techniques for spinal immobilization, the EOA or EGTA, and nasogastric tube insertion using a State skill competency exam.

*Prerequisite:* TEMT 2505

CB 998140

Lec 3, Cr 1

#### TEMT 2525 EMT - PARAMEDIC III

*(New course)*

Fee \$8.00

This course will allow the student to become familiar with telemetry and communications skills, and demonstrate the proper identification of and, the proper techniques used to manage pediatric or geriatric emergencies. The course will also allow the student to become familiar with proper identification of obstetrical presentations, identification of gynecological and obstetrical emergencies and the proper management techniques used in the care of these patients. Defensive driving will be discussed in theory along with EMS management.

*Prerequisite:* EMT 2515

CB 998140

Lec 4, Lab 4, Cr 1



## ENGINEERING (ENGR)

### ENGR 1201 INTRODUCTION TO ENGINEERING (Formerly TSC ENGR 0102)

Engineering as a career, considering the various fields of engineering, history, and professionalism. Basic engineering analysis and problem solving, introducing calculators and computers.

*Prerequisite:* MATH 1316 or 1348 or 2412

CB 1401015129 *Lec 2, Cr 2*

### ENGR 1304 ENGINEERING GRAPHICS (Formerly TSC ENGR 0153) *Fee \$8.00*

Designed especially for students who plan to major in engineering. Freehand lettering, care and use of instruments, geometric construction, orthographic projection, pictorial methods, working drawings.

CB 4801015129 *Lec 2, Lab 4, Cr 3*

### ENGR 1407 PLANE SURVEYING (Formerly TSC ENGR 0144) *Fee \$8.00*

Use and care of instruments, note keeping, distance measurements, traverse surveying, areas, angles and elevations, legal principles, field problems, earthwork, volumes, triangulation and base lines.

*Prerequisite:* MATH 1316 or high school equivalent.

CB 1408015129 *Lec 3, Lab 4, Cr 4*

### ENGR 2301 ENGINEERING MECHANICS I (STATICS)

(Formerly TSC ENGR 0213)

Vector algebra, force systems, free-body diagrams, equilibrium, frames and machines, friction, centroids and moments of inertia.

*Prerequisite:* PHYS 2325 and MATH 2313.

CB 1411015229 *Lec 3, Cr 3*

### ENGR 2302 ENGINEERING MECHANICS II (DYNAMICS)

(Formerly TSC ENGR 0223)

Kinematics and dynamics, including work-energy and impulse-momentum methods, applied to engineering problems involving particles and rigid bodies.

*Prerequisites:* ENGR 2301 and MATH 2314.

CB 1411015329 *Lec 3, Cr 3*

## ENGLISH (ENGL)

English 0301 and English 0302 are developmental courses assigned according to scores on the TSC assessment test. These courses require concurrent enrollment in Reading 0301 or Reading 0302 or appropriate reading assessment scores. In some cases, students may be required to complete developmental courses in Reading and English before enrolling in other courses. English 0301,

English 0302 and Reading courses cannot be used to satisfy degree requirements.

All 2000 level English courses require successful completion of English 1301 and English 1302. Some programs require a minimum grade of "C" in English 1301 and 1302. For UTPA, UTB, and most other universities, all English 2000 level literature classes (except English 2307, Creative Writing) may be taken in any sequence or mix.

### ENGL 0101 DEVELOPMENTAL WRITING LAB 0102, 0103, 0104

(Formerly TSC ENG 1101, 1111, 1121, 1131)

Developmental course. Practice in expository and argumentative essay writing for students who have failed the writing portion of the TASP test but who are not qualified for ESOL 0388, ENGL 0301, or ENGL 0302. Students will write at least one full essay a week and will complete exercises as individually assigned in order to develop particular skills of idea generation, sentence style, word choice, and organization patterns. May be repeated as ENGL 0102, 0103, and 0104. Graded satisfactory or unsatisfactory.

CB 3201035635 *Lab 2, Cr 1*

### ENGL 0320 COLLEGE WRITING SKILLS I (Formerly TSC ENG 1033)

Developmental course. Practice in the fundamentals of written English. The emphasis is on functional writing for successful completion of assignments. Fundamentals of grammar, mechanics, and organization are stressed in the production of clear sentences and paragraphs, and multi-paragraph themes to address specific audiences. Students may be required to attend sessions at the Writing Lab. Students must enroll for Reading 0301 or Reading 0302 concurrently or demonstrate appropriate assessment scores in Reading.

*Prerequisite:* Appropriate assessment score in writing or grade of A, B, or C in ESOL 0388.

CB 3201035635 *Lec 3, Cr 3*

### ENGL 0321 COLLEGE WRITING SKILLS II (Formerly TSC ENG 1043)

Developmental course. A continuation of practice in fundamental skills begun in ENG 1003. Continued practice in audience analysis, organization, and effective sentences. Students may be required to attend sessions at the Writing Lab. Students must enroll for Reading 0301 or 0302 concurrently or demonstrate appropriate reading assessment scores.

*Prerequisite:* Grade of B or C in ENGL 1003 or appropriate assessment score in writing.

CB 3201035635 *Lec 3, Cr 3*

### ENGL 1301 COMPOSITION I (Formerly TSC ENG 0113)

Expository writing with emphasis on thinking and composing skills required to write full length essays. Some reading of non-fiction prose and/or literature will be included.

*Prerequisites:* A grade of A in ENGL 0301, a grade of A, B, or C in ENGL 0302, or placement based on assessment scores.

CB 2304015135 *Lec 3, Cr 3*

### ENGL 1302 COMPOSITION II (Formerly TSC ENG 0123)

Continuation of ENGL 1301. Emphasis on persuasive writing, forms of argument, and research techniques. Student compositions are largely based on non-fiction readings. Research paper required.

*Prerequisites:* ENGL 1301.

CB 2304015135 *Lec 3, Cr 3*

### ENGL 2311 TECHNICAL WRITING (Formerly TSC ENG 0103)

Fundamentals of technical writing particularly adapted to students in two year technical programs. Does not fulfill bachelor's degree requirements. Report forms, gathering and evaluating information, technical definitions. Methods of development are normally related to student's field of study.

*Prerequisites:* Appropriate scores on assessment tests, completion of ENGL 1003 with a grade of A, or completion of ENGL 0302 with a grade of A, B, OR C.

CB 2311015135 *Lec 3, Cr 3*

### ENGL 2314 BUSINESS AND INDUSTRIAL WRITING

(Formerly TSC ENG 0203)

Advanced technical writing adapted to students in programs leading to bachelor's degrees in Engineering and Business Administration. Topics for reports, statistical tables and graphs, business letters, memoranda and primary and secondary research are normally related to student's field of study.

*Prerequisites:* ENGL 1301 and 1302.

CB 2311015135 *Lec 3, Cr 3*

### ENGL 2322 BRITISH LITERATURE I (Formerly TSC ENG 0213)

Study of the development of English literature. Readings of major works representative of the Anglo-Saxon period to the beginning of the Romantic Movement. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2308015135 *Lec 3, Cr 3*

### ENGL 2323 BRITISH LITERATURE II (Formerly TSC ENG 0223)

Continuation of the study, in chronological sequence, of English literature. Readings of major works

representative of the Romantic and Victorian periods and from selected twentieth century authors. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2308015135 *Lec 3, Cr 3*

**ENGL 2326 AMERICAN LITERATURE I**  
(Formerly TSC ENG 0253)

A critical study of the work of major American writers in their social and philosophical contexts during major literacy periods prior to 1870. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2307015135 *Lec 3, Cr 3*

**ENGL 2327 AMERICAN LITERATURE II**  
(Formerly TSC ENG 0263)

A critical study of the work of major American writers after 1870, examining literacy, social, and philosophical contexts. Research paper required.

*Prerequisites:* ENGL 1301 and 1302.

CB 2307015135 *Lec 3, Cr 3*

**ENGL 2331 WORLD LITERATURE I**  
(Formerly TSC ENG 0233)

Studies of English translations of selected masterpieces from ancient civilizations through the period of the Renaissance. Additional readings from classics of the English-speaking people. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2303015235 *Lec 3, Cr 3*

**ENGL 2332 WORLD LITERATURE II**  
(Formerly TSC ENG 0243)

Studies of English translations of selected continental European masterpieces from the time of Renaissance to the modern period. Parallel readings from English and American literature. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2303015235 *Lec 3, Cr 3*

**ENGL 2339 INTRODUCTION TO LITERATURE**  
(Formerly TSC ENG 0293)

Reading of literature, chiefly modern, with emphasis on the characteristics of each genre: short story, novel, poetry, drama and popular non-fiction. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2303015135 *Lec 3, Cr 3*

**ENGL 2372 SELECTED STUDIES IN LITERATURE: MODERN LITERATURE BY WOMEN**  
(Formerly TSC ENG 2173)

A critical study of literature written by women from 1901 to the present, analyzing the works in their social and philosophical contexts. The course will introduce students to women's literature and examine historical relationship with

the traditional canon. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2303015335 *Lec 3, Cr 3*

**ENGL 2374 SELECTED STUDIES IN LITERATURE: SCIENCE FICTION**  
(Formerly TSC ENG 2273)

A chronological survey of Science Fiction through a critical study of selected short stories and novels in their literary, social, and philosophical contexts. The course will examine definitions and prototypes of the genre. Research paper required.

*Prerequisites:* ENGL 1301 and ENGL 1302.

CB 2303015335 *Lec 3, Cr 3*

**ENGL 3305 THE ROMANTIC PERIOD**  
(Formerly UTPAB ENG 3305)

A study of early nineteenth-century English romantic writers with emphasis on the poets.

*Prerequisite:* 12 semester hours of English.

CB 230801 *Lec 3, Cr 3*

**ENGL 3310 TWENTIETH CENTURY ENGLISH AND AMERICAN**

(Formerly UTPAB ENG 3310)

A study of the trends and movements in contemporary English and American poetry with emphasis on the works of the major writers.

*Prerequisite:* 12 semester hours of English.

CB 230301 *Lec 3, Cr 3*

**ENGL 3311 TWENTIETH-CENTURY ENGLISH FICTION**

(Formerly UTPAB ENG 3311)

A study of the fiction of the twentieth century in England with emphasis on the major writers.

*Prerequisite:* 12 semester hours of English.

CB 230801 *Lec 3, Cr 3*

**ENGL 3312 SURVEY OF AMERICAN LITERATURE**

A chronological study of the principal authors, their works and the trends in American literature, from the Colonial period to the Civil War.

*Prerequisite:* 12 semester hours of English.

CB 230701 *Lec 3, Cr 3*

**ENGL 3313 SURVEY OF AMERICAN LITERATURE**

(Formerly UTPAB ENG 3313)

A chronological study of the principal authors, their works and the trends in American literature, from the Civil War to the twentieth century.

*Prerequisite:* 12 semester hours of English.

CB 230701 *Lec 3, Cr 3*

**ENGL 3319 INTRODUCTION TO DESCRIPTIVE LINGUISTICS**

(Formerly UTPAB ENG 3319)

An introduction to the methods of linguistics science with emphasis on problem solving techniques and application to specific problems.

*Prerequisite:* 12 semester hours of English.

CB 230601 *Lec 3, Cr 3*

**ENGL 3321 LANGUAGE AND CULTURE**

Systematic exploration of social aspects of language and language use, including language attitudes, socio-linguistic dynamics of language contact situations, language learning, and the social and linguistic nature of dialects, language variation, and language change.

CB 230601 *Lec 3, Cr 3*

**ENGL 3330 ENGLISH GRAMMAR**  
(Formerly UTPAB ENG 3330)

A study of grammatical concepts with concentration on basic sentence structure, principles of punctuation, and functional grammar. Course designed for, but not limited to, prospective teachers of students with limited English speaking/writing ability and/or ESOL students.

*Prerequisite for bilingual/bicultural students:* ENGL 3319.

CB 230101 *Lec 3, Cr 3*

**ENGL 4301 SHAKESPEARE**  
(Formerly UTPAB ENG 4301)

A study of representative plays in comedy, history and tragedy.

*Prerequisite:* 12 semester hours of English.

CB 230801 *Lec 3, Cr 3*

**ENGL 4303 THE BIBLE AS LITERATURE**  
(Formerly UTPAB ENG 4303)

A genre study of the Bible as literature, focusing on those portions most clearly literary such as the short stories, parables and poetry. The Bible as source material in English and American literature is also considered.

*Prerequisite:* 12 semester hours of English.

CB 230301 *Lec 3, Cr 3*

**ENGL 4309 CHAUCER**  
(Formerly UTPAB ENG 4309)

A study of the major poetry of Geoffrey Chaucer in Middle English.

*Prerequisite:* 12 semester hours of English.

CB 230801 *Lec 3, Cr 3*

**ENGL 4310 AMERICAN LITERATURE OF THE SOUTH**

(Formerly UTPAB ENG 4310)

A study of the works of representative writers of the South.

*Prerequisite:* 12 semester hours of English.

CB 230701 *Lec 3, Cr 3*

**ENGL 4312 MILTON**  
(Formerly UTPAB ENG 4312)  
A study of the major poems and selected prose.  
Prerequisite: 12 semester hours of English.  
CB 230801 Lec 3, Cr 3

**ENGL 4316 MEXICAN AMERICAN LITERATURE**  
(Formerly UTPAB ENG 4316)  
A study of the literature by and about Mexican Americans, with emphasis on the literary techniques and the cultural reflection in this literature.  
CB 230301 Lec 3, Cr 3

**ENGL 4322 CREATIVE WRITING I**  
(Formerly UTPAB ENG 4322)  
Practice in the writing of poetry and brief prose; with a study of literary forms, techniques and values from the writer's point of view.  
Prerequisite: 12 semester hours of English and permission of the instructor.  
CB 230501 Lec 3, Cr 3

**ENGL 4325 COMPOSITION TECHNIQUES**  
(Formerly UTPAB ENG 4325)  
An advanced course in formal English composition stressing effective communication with special emphasis on the exposition of abstract ideas and internal logic.  
Prerequisite: 12 semester hours of English.  
CB 230401 Lec 3, Cr 3

**ENGL 4327 READING**  
(Formerly UTPAB ENG 4327)  
This course examines the acquisition of reading and the role of literacy in relation to language structures and language proficiency. Particular attention is directed toward Spanish/English bilingualism.  
CB 231315 Lec 3, Cr 3

**ENGL 4328 INTRODUCTION TO ENGLISH AS A SECOND LANGUAGE**  
(Formerly UTPAB ENG 4328)  
A study of the process of learning English as a second language. Special attention is given to problems encountered in reading, writing, and comprehending English.  
CB 231401 Lec 3, Cr 3

**ENGL 4330 THEORIES OF GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**  
(Formerly UTPAB ENG 4330)  
A survey of dialects, language performance, and contrastive analyses of grammar as they are applicable to the equal and/or second language learner. Designed for, but not limited to, prospective teachers of students with

limited English proficiency and/or teachers of ESOL students.  
Prerequisite for students in bilingual program: ENGL 3319, 3330, SPAN 3330.  
CB 230601 Lec 3, Cr 3

**ENGL 4331 PROBLEMS IN GRAMMAR, DIALECTS, AND LANGUAGE PERFORMANCE**  
(Formerly UTPAB ENG 4331)  
A study of the second language learner's transition from regional Spanish to standard English. Emphasis on the particular characteristics of the English and Spanish dialects of the region and the manner in which they interrelate. The course will treat theory already learned as well as that presented in the course in the light of practical methodological tools.  
Prerequisites: TSC SPAN 2173.  
Prerequisites for bilingual certification students: ENGL 3319, 3330, SPAN 3330, ENGL/SPAN 4330.  
CB 230601 Lec 3, Cr 3

**ENGL 6301 SHAKESPEARE**  
(Formerly UTPAB ENG 6301)  
A study of the comedies, histories, tragedies, and romances of Shakespeare, emphasizing wide reading of the playwright.  
CB 230801 Lec 3, Cr 3

**ENGL 6303 THE BIBLE AS LITERATURE**  
(Formerly UTPAB ENG 6303)  
A study of the Bible as literature, emphasizing the genres and literary techniques employed by the writers. The course also treats the Bible as a major source for English and American literature.  
CB 230301 Lec 3, Cr 3

**ENGL 6305 THE ROMANTIC PERIOD**  
(Formerly UTPAB ENG 6305)  
A study of early nineteenth-century English romantic writers with emphasis on the poets Wordsworth, Coleridge, Shelley, Keats, and Byron.  
CB 230801 Lec 3, Cr 3

**ENGL 6308 HISTORY OF THE ENGLISH LANGUAGE**  
(Formerly UTPAB ENG 6308)  
A history of the English language from the Anglo-Saxon period to the present.  
CB 230601 Lec 3, Cr 3

**ENGL 6310 TWENTIETH-CENTURY ENGLISH AND AMERICAN POETRY**  
(Formerly UTPAB ENG 6310)  
A study of major English and American poets of the twentieth century.  
CB 230301 Lec 3, Cr 3

**ENGL 6312 MILTON**  
(Formerly UTPAB ENG 6312)

A study of the major poems and selected prose of John Milton.  
CB 230801

**ENGL 6354 LINGUISTICS AND READING**  
(Formerly UTPAB ENG 6354)  
A study of current models of reading with an introduction to linguistics and an examination of linguistic contributions to the understanding of the reading process. Includes issues of literacy and acquisition of reading.  
CB 131315 Lec 3, Cr 3

**ENGL 6355 SECOND LANGUAGE ACQUISITION**  
(Formerly UTPAB ENG 6355)  
Examination of studies and models of the acquisition of a second language. Includes linguistic, sociolinguistic, and cultural aspects.  
CB 230601 Lec 3, Cr 3

**ENGL 6362 THE VICTORIAN PERIOD**  
A study of the late nineteenth-century literature in England.  
CB 230801

**ENGL 6363 TWENTIETH CENTURY-ENGLISH NOVEL**  
A study of the major novelists of England in the twentieth century.  
CB 230801 Lec 3, Cr 3

**ENGL 6371 TWENTIETH-CENTURY AMERICAN NOVEL**  
(Formerly UTPAB ENG 6371)  
A study of the major novelists in the United States in the twentieth century.  
CB 230701 Lec 3, Cr 3

**ENGL 6372 HAWTHORNE AND MELVILLE**  
(Formerly UTPAB ENG 6372)  
A study of the major novels and short stories of Nathaniel Hawthorne and Herman Melville.  
CB 230701 Lec 3, Cr 3

## ENGLISH AS A SECOND LANGUAGE (ESOL)

**BASIC COMPETENCE CURRICULUM**  
The English as a Second Language curriculum is specifically designed to prepare non-native speakers of English who are literate in their native language for participation in an academic college environment in which the language of instruction is Standard American English. To help students achieve appropriate proficiency, the ESL program includes four levels, each consisting of two three-credit, six-contact hour courses which must be taken concurrently. All language skills (reading, writing, listening, speaking, grammar, as well as other related skills, such as critical thinking and note-taking)

are taught and practiced extensively. To effectively integrate the language skills taught, the two courses of each level must be taken concurrently. A grade of C or higher in each of the two concurrent courses must be achieved to pass to the next level.

**ESOL 0311 ESL LEVEL I**  
(Formerly ESL 0113)

ESOL 0311 and 0312 constitute the first level of the ESL curriculum. This level of coursework is intended for beginning English speakers who are literate in their native language. The two courses must be taken concurrently. Placement into this level is determined by the English Placement Test.

CB 3201035135 Lec 6, Cr 3

**ESOL 0312 ESL LEVEL I**  
(Formerly ESL 0123)

A course for beginning English speakers. Must be taken concurrently with ESOL 0311.

CB 3201035135 Lec 6, Cr 3

**ESOL 0313 ESL LEVEL II**  
(Formerly ESL 0133)

ESOL 0313 and ESOL 0314 constitute the second level of the ESL curriculum. This level has been designed for high-beginning and low-intermediate students.  
*Prerequisite: A grade of C or higher in ESOL 0311 and ESOL 0312, or appropriate score on the English Placement Test.*

CB 3201035135 Lec 6, Cr 3

**ESOL 0314 ESL LEVEL II**  
(Formerly ESL 0143)

A course for high-beginning and low-intermediate students. Must be taken concurrently with ESOL 0313.

*Prerequisite: A grade of C or higher in ESOL 0311 and ESOL 0312, or appropriate score on the English Placement Test.*

CB 3201035235 Lec 6, Cr 3

**ESOL 0315 ESL LEVEL III**  
(Formerly ESL 0153)

ESOL 0315 and ESOL 0316 constitute the third level of the ESL curriculum. This level is intended for intermediate speakers of English as a second language. The two courses must be taken concurrently.

*Prerequisite: A grade of C or higher in ESOL 0313 and ESOL 0314, or appropriate score on the English Placement Test.*

CB 3201035235 Lec 6, Cr 3

**ESOL 0316 ESL LEVEL III**  
(Formerly ESL 0163)

A course for intermediate speakers of English as a second language. Must be taken concurrently with ESOL 0315.

*Prerequisite: A grade of C or higher in ESOL 0313 and ESOL 0314, or appropriate score on the English*

*Placement Test.*

CB 3201035335 Lec 6, Cr 3

**ESOL 0317 ESL LEVEL IV**  
(Formerly ESL 1053)

ESOL 0317 and ESOL 0318 constitute the fourth level of the ESL curriculum. This level is designed for high-intermediate ESL students. The two courses must be taken concurrently to provide for maximum integration of the student's English language skills.

*Prerequisite: A grade of C or higher in ESOL 0315 and ESOL 0316, or appropriate score on the English Placement Test.*

CB 3201035235 Lec 6, Cr 3

**ESOL 0318 ESL LEVEL IV**

A course for high-intermediate ESL students. Must be taken concurrently with ESOL 0317.

*Prerequisite: A grade of C or higher in ESOL 0315 and ESOL 0316, or appropriate score on the English Placement Test.*

CB 3201035335 Lec 6, Cr 3

## FINANCE (FINA)

**FINA 3380 MANAGERIAL FINANCE**

The finance function in the firm and the specific responsibilities of the firm's financial manager. Emphasis is on financial decisions using managerial information systems as an integrating force to deliver planned results. This includes, but is not limited to, decisions affecting the internal management of the firm and the acquisition of new assets and funds.

*Prerequisites: 6/7 hours Principles of Accounting, ECON 2301, 2302*

CB 060301 Lec 3, Cr 3

**FINA 3381 MONEY AND BANKING**

The components, nature, functions, creation and destruction of money and credit; financial institutions and their functions; introduction to monetary theory and policy for the purpose of establishing the framework of the monetary economy.

*Prerequisite: ECON 2301, 2302.*

CB 060301 Lec 3, Cr 3

**FINA 3382 INVESTMENT PRINCIPLES**

Analysis and valuation of investment securities of corporations and governmental agencies. The purchase and sale of securities through brokerage houses and investment banking firms will be studied.

*Prerequisite: ECON 2301 and 2302.*

CB 061001 Lec 3, Cr 3

**FINA 3384 FUNDAMENTALS OF REAL ESTATE**

Physical and economic characteristics of real estate, applicable law, taxation, appraisal, marketing and finance.

CB 061701 Lec 3, Cr 3

**FINA 3385 PRINCIPLES OF INSURANCE AND RISK MANAGEMENT**

Methods to identify and control the risks facing individuals and business firms are revealed. The use of insurance and other mechanisms to finance the losses are explored. The topics covered include: risk analysis, loss prevention, self-insurance, property insurance, casualty insurance and life insurance.

CB 060801 Lec 3, Cr 3

**FINA 4381 INTERNATIONAL FINANCE**

Application of finance principles in the international environment: including the nature of the balance of payments mechanism, the factors affecting the foreign exchange market; defensive techniques to protect the business against foreign exchange risk; and investing financing, and work capital management within a multinational firm.

*Prerequisite: FINA 3380*

CB Lec 3, Cr 3

**FINA 4382 PORTFOLIO MANAGEMENT**

Offers the theoretical framework and techniques and applications of investment management. Develops models for performance evaluation emphasizing optimum combination of risk and return.

*Prerequisites: FINA 3382.*

CB 061001 Lec 3, Cr 3

**FINA 4385 FINANCIAL INSTITUTIONS AND MARKETS**

The dynamics of financial markets and their interaction with suppliers of funds, particularly financial intermediaries.

*Prerequisites: 6/7 semester hours of Principles of Accounting and ECON 2301, 2302.*

CB 060301 Lec 3, Cr 3

**FINA 4389 COMMERCIAL BANKING**

The principles and policies affecting the services, organization and management of funds in the commercial bank; policy formulation is emphasized; coordination with general economic and money market conditions is covered.

*Prerequisites: FINA 3381.*

CB 060301 Lec 3, Cr 3

**FINA 6340 FINANCIAL ADMINISTRATION**

Management of the flow of funds in the firm. Analysis for obtaining the optimum utilization of funds, behavior of financial institutions and markets.

*Prerequisites: FINA 3380.*

CB 060301 Lec 3, Cr 3

**FINA 6341 FINANCE SEMINAR**

Readings, reports and discussion of selected topics in finance.

Prerequisite: FINA 3380 and 12 semester hours of graduate business courses

CB 060301

Lec 3, Cr 3

**FIRE SCIENCE (FS)****FS 0103 FUNDAMENTALS OF FIRE PROTECTION**

History and philosophy of fire protection; review of statistics of loss of life and property by fire; introduction to agencies involved in fire protection; current legislative developments; position classification and pay plans; employee organizations; a discussion of current related problems and review of expanding future fire protection problems.

CB 996821

Lec 3, Cr 3

**FS 0113 FIRE ADMINISTRATION I**

An in depth study of the organization and management as related to a fire department including budgeting, maintenance of records and reports, and management of fire department officers. Personnel administration and distribution of equipment and personnel and other related topics including relation of various government agencies to fire protection areas. Fire Service Leadership as viewed from the company officer's position.

CB 996821

Lec 3, Cr 3

**FS 0123 LEGAL ASPECTS OF FIRE PROTECTION**

CB 998621

Lec 3, Cr 3

A study of legal rights and duties, liability concerns and responsibilities of the fire department while carrying out their duties. Introduction and basic concepts of Civil and Criminal Law, the Texas and Federal judicial prevention bureaus. An in-depth study of various cases concerning fire fighters, fire departments, and municipalities.

**FS 0133 SPECIFICATION, INTERPRETATION AND BUILDING CODES**

A study of writing and analyzing building specifications for small buildings, guarantees, contracts, cost control; estimating as applied to specifications; study of governmental regulations and codes.

CB 996821

Lec 3, Cr 3

**FS 0143 FIRE PREVENTION**

The objectives and views of inspections, fundamental principles, methods, techniques, and procedures of fire prevention administration. Fire prevention organization; public cooperation and image; recognition of fire hazards; insurance problems and legal

aspects; development and implementation of a systematic and deliberate inspection program. Survey of local, state and national codes pertaining to fire prevention and related technology; relationship between building inspection agencies and fire prevention organization.

CB 996821

Lec 3, Cr 3

**FS 0153 FIRE ADMINISTRATION II**

Study to include insurance rates and ratings, preparation of budgets, administration and organization of training in the fire department, city water requirements, fire alarm and communications systems, importance of public relations, report writing and record keeping, measurement of results, use of records to improve procedures, and other related topics. Also includes study of municipal and state agencies and the design and construction of fire department buildings.

CB 996821

Lec 3, Cr 3

**FS 0203 INDUSTRIAL FIRE PROTECTION I**

Specific concerns and safeguards related to business and industrial organizations. A study of industrial fire brigade organization and development, plan layout, fire prevention programs, extinguishing factors and techniques, hazardous situations and prevention methods, and gaining cooperation between the public and private fire department organizations. Study of elementary industrial fire hazards in manufacturing plants.

CB 998721

Lec 3, Cr 3

**FS 0213 INDUSTRIAL FIRE PREVENTION II**

Development of fire and safety organizations in industry; relationship between private and public fire protection organizations; current trends, deficiencies and possible solutions for industrial fire problems; role of insurance and other special organizations; an in depth study of specific industrial processes, equipment, facilities and work practices to understand the potential hazards and techniques to detect and control such hazards. Field trips to selected plants and demonstrations of new techniques, equipment and innovations.

CB 996821

Lec 3, Cr 3

**FS 0223 FIRE FIGHTING TACTICS AND STRATEGY**

Essential elements in analyzing the nature of fire and determining the requirements. Efficient and effective utilization of manpower equipment and apparatus. Emphasis to be placed on planning, study of conflagration problem fire ground organization problem solving

related to fire ground decision making and attack tactics and strategy.

CB 996821

Lec 3, Cr 3

**FS 0233 HAZARDOUS MATERIALS I**

Study of chemical characteristics and behavior of various materials that burn or react violently to storage, transportation; handling hazardous materials, i.e., flammable liquids, combustible solids, and gases. Emphasis on emergency situations and most favorable methods of handling fire fighting and control.

CB 996821

Lec 3, Cr 3

**FS 0243 FIRE SAFETY EDUCATION**

A survey of physical, chemical and electrical hazards and their relationship to loss of property and/or life. Study of codes, laws, problems, and cases. Detailed examination and study of the physical and psychological variables related to the occurrence of casualties. Safe storage, transportation and handling techniques are stressed to eliminate or control potential risks.

CB 996821

Lec 3, Cr 3

**FS 0253 FIRE PROTECTION SYSTEMS**

Study of the required standard for water supply; special hazards protection systems; automatic sprinklers and special extinguishing systems; automatic signaling and detection systems; rating organizations and underwriting agencies.

CB 996821

Lec 3, Cr 3

**FS 0263 FIRE AND ARSON INVESTIGATION**

A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence; preparing for a course case; selected discussion of laws, decisions and opinions; kinds of arsonists, interrogation procedures, cooperation and coordination between fire fighters and arson investigators, and other related topics.

CB 998621

Lec 3, Cr 3

**FS 0273 URBAN FIRE PROBLEM ANALYSIS**

Intensive study of the urban fire problem. Problems covered by lack of zoning and other land use laws. Operation research techniques, and systems engineering are utilized as analytic procedures for the technological assessment of public fire protection, including water supply, fire alarm, and fire department traditional assessment methods and urban analysis. Socioeconomic and management factors as related to city planning. Environmental problems incurred should be studied in depth.

CB 996821

Lec 3, Cr 3

## FRENCH (FREN)

### FREN 1311 ELEMENTARY FRENCH I (Formerly TSC FREN 1023)

A course designed to develop the ability to understand, speak, read and write the French language.

CB 1609015131 Lec 3, Cr 3

### FREN 1312 ELEMENTARY FRENCH II (Formerly TSC FREN 1033)

A continuation of FREN 1311.

Prerequisite: FREN 1311 or consent of instructor.  
(CB 1609015131 Lec 3, Cr 3)

### FREN 2311 INTERMEDIATE FRENCH I (Formerly TSC FREN 2311)

A review of the grammar. Emphasis on reading and writing.

Prerequisite: French 1312 or equivalent skills.  
(CB 1609015231 Lec 3, Cr 3)

### FREN 2312 INTERMEDIATE FRENCH II A continuation of FREN 2311.

Prerequisite: FREN 2311 or equivalent skills.  
(CB 1609015231 Lec 3, Cr 3)

## GEOGRAPHY (GEOG)

### GEOG 1301 ELEMENTS OF PHYSICAL GEOGRAPHY (Formerly TSC GEOG 0123)

The earth's external features; landscape development under the influence of volcanism and mountain-building forces, rivers and their work, underground waters, waves and currents, and the wind; the principle soil groups as related to landscape and climate.

CB 4507015142 Lec 3, Cr 3

### GEOG 1303 GENERAL WORLD GEOGRAPHY (Formerly TSC GEOG 0113)

Landscapes and peoples of continents, the major culture realms and nations, their resources, land-use, and industries.

CB 4507015342 Lec 3, Cr 3

### GEOG 3333 LATIN-AMERICAN GEOGRAPHY

A regional study of the geography of Mexico, the Caribbean, Central and South America. Includes an investigation of the physical, cultural and economic factors of various regions and how these affect present day conditions.

CB 450701 Lec 3, Cr 3

### GEOG 3334 CONSERVATION OF WORLD RESOURCES

A survey of the distribution of world resources, with special emphasis on new and novel solutions to problems of resource scarcity. Topics include food, scenic and recreational resources, and other selected components of the biosphere and lithosphere. Cultural, economic, demographic, and political

behaviors of human societies are considered as they affect the world's physical resources.

Prerequisite: GEOG 1301 or 1303

CB 450701

Lec 3, Cr 3

## GEOLOGY (GEOL)

### GEOL 1403 PHYSICAL GEOLOGY (Formerly GEOL 0104)

Fee \$8.00

The classification and analysis of geologic agents responsible for the origin, structure, and sculpturing of the earth's crust, including a comprehensive description of materials comprising the earth. Occasional field trips may be required.

CB 4006015139 Lec 3, Lab 4, Cr 4

### GEOL 1404 HISTORICAL GEOLOGY (Formerly TSC GEOL 0114)

Fee \$8.00

The geologic history of the earth and its inhabitants as revealed by fossil record with emphasis on North America. Occasional field trips may be required.

CB 4006015139 Lec 3, Lab 4, Cr 4

### GEOL 2309 MINERALOGY (Formerly TSC GEOL 0203)

Fee \$8.00

A study of the physical and chemical properties of minerals. Laboratory consists of hand specimen identification of rock formations and ore minerals.

Prerequisite: GEOL 1403 and credit or registration for CHEM 1312.

CB 4006015239 Lec 2, Lab 4, Cr 3

## GERMAN (GERM)

### GERM 1311 ELEMENTARY GERMAN I (Formerly TSC GER 1033)

A study of the essentials of German grammar, pronunciation, elementary conversation and prose reading.

CB 1605015131 Lec 3, Cr 3

### GERM 1312 ELEMENTARY GERMAN II (Formerly TSC GER 1043)

A continuation of German 1311.

Prerequisite: German 1311 or equivalent skills.

CB 1605015131 Lec 3, Cr 3

### GERM 2311 INTERMEDIATE GERMAN I (Formerly TSC GER 2023)

A review of the German language structure with emphasis on the development of aural comprehension and speaking ability. Selected readings based on everyday subjects as well as cultural material. Also includes dictation and simple exercised in composition.

Prerequisite: German 1312 or equivalent skills.

CB 1605015231 Lec 3, Cr 3

### GERM 2312 INTERMEDIATE GERMAN II

A continuation of German 2311.

Prerequisite: German 2311 or equivalent skills.

CB 1605015231 Lec 3, Cr 3

## GOVERNMENT (GOVT)

Government courses are not open to students enrolled in Developmental Reading or Developmental Writing. Government 2301 and 2302 satisfy the legislative requirement of six hours of American and Texas Government for a baccalaureate degree.

### GOVT 2301 AMERICAN GOVERNMENT I (Formerly TSC GOVT 0213)

A survey of the fundamental principles of political science of the American system of government, and of the origin, development and structure of the constitutions and government of the United States and Texas.

(CB 4510015142 Lec 3, Cr 3)

### GOVT 2302 AMERICAN GOVERNMENT II (Formerly TSC GOVT 0223)

A survey of the inputs and outputs of the American government including political participation, civil rights and liberties, public economics and foreign policy.

(CB 4510015142 Lec 3, Cr 3)

### GOVT 2303 INTERNATIONAL RELATIONS (Formerly TSC GOVT 0243)

The theory and practice of international relations with particular attention to the forces and processes contributing to conflict and cooperation among nations.

(CB 4509015142 Lec 3, Cr 3)

### GOVT 2304 INTRODUCTION TO POLITICAL SCIENCE

(Formerly TSC GOVT 0233)

An introductory survey of the field of Political Science, with emphasis on basic concepts, public law, theory and organization of the modern state, political dynamics, and institutions. Open to freshmen.

(CB 4510015242 Lec 3, Cr 3)

### GOVT 3185 INTERNSHIP

This course is designed for student seeking credit through an internship placement. The internship must be directly related to government; the student must be under direct academic supervision and the student must complete written assignments to be evaluated by the supervising teacher. The course may be repeated for credit with a maximum of four hours counted toward fulfillment of the requirements for a major in Government.

Prerequisite: GOVT 2301, 2302.

(CB 451001 Lec 1, Cr 3)

- GOVT 3314 AMERICAN STATE GOVERNMENT**  
A study of the basic functions, structure, procedures and problems of American and local government with an emphasis upon intergovernmental relations.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 3322 POLITICS OF DEVELOPING NATIONS**  
Analysis of political institutions and processes with focus on "Third World" nations.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 3323 INTRODUCTIONS TO PUBLIC ADMINISTRATION**  
A survey of public administration in the United States highlighting a wide variety of topics in the discipline, but with emphasis upon the general machinery of the national bureaucracy and on the powers, problems, and control of its agencies.  
*Prerequisites:* GOVT 2301, 2302.  
CB 440401 *Lec 3, Cr 3*
- GOVT 3331 METHODS OF POLITICAL SCIENCE RESEARCH**  
Analysis of the study of politics, models of inquiry, research methods, and introduction to the use of computers in political science research.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 3343 INTERNATIONAL POLITICS**  
A study of the political principles, problems and factors involved in the foreign policies and relations of the nation-state with particular emphasis on the sources and uses of national power and the difficulties in limiting the use of such power.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001
- GOVT 3363 AMERICAN HISPANIC POLITICS**  
A study of the American Hispanic experience. Analyzes political socialization and culture, political participation and behavior, leadership, organizations, and power in the American political system.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4312 URBAN AND METROPOLITAN PLANNING**  
An analysis of the various political factors shaping the direction and tasks of the planner. Attention is given to zoning, capital improvement budgeting, subdivision control and related aspects of the interrelationship of such planning with that done by other local units of government.  
*Prerequisites:* GOVT 2301, 2302.  
CB 150204 *Lec 3, Lab*
- GOVT 4320 AMERICAN CONSTITUTIONAL LAW: FEDERALISM**  
A study of the allocation of government powers by use of court cases, with special emphasis on the national government and an introduction to the judicial functions of the American legal system.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4321 AMERICAN CONSTITUTIONAL LAW: CIVIL LIBERTIES**  
A study of the limitations of government powers in the United States by use of court cases, with primary emphasis on civil and political rights.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4332 AMERICAN POLITICAL THEORY**  
An analysis of American political theory and values from the Colonial period to the present. The work of Jefferson, Jackson, Calhoun, Bellamy, Hoover and Galbraith are included.  
*Prerequisite:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4360 AMERICAN EXECUTIVE PROCESS**  
Advanced study of the development of the power and influence of the president and other American executives; procedures and politics of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system.  
*Prerequisite:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4363 AMERICAN LEGISLATIVE PROCESS**  
Advanced study of the legislative process; structure, powers, organization, political control and procedures of congress, state legislatures and local legislative bodies in the rest of the political system.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4365 AMERICAN ADMINISTRATIVE PROCESS**  
Advanced study of the law and procedures of national, state and local administrative agencies and their behavior; problems in administrative management; theory of complex organizations; policy outcomes of the administrative process.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4367 AMERICAN JUDICIAL PROCESS**  
Advanced study of the structure, functions and procedures of the national, state and local judicial systems; the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4383 POLITICS OF CENTRAL AMERICA AND THE CARIBBEAN**  
A survey of governmental structures and politics in Central America and the Caribbean. Examines competing ideologies, group developments, party interest, influence of revolution, relationships among political, social and economic structures and Central America's role in the world political arena.  
*Prerequisites:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 4384 SEMINAR IN LOCAL GOVERNMENT PROBLEMS I**  
An examination and study of administrative problems in local government.  
*Prerequisites:* GOVT 2301, 2302.  
CB 440401 *Lec 3, Cr 3*
- GOVT 4386 SOUTH AMERICAN POLITICS**  
A survey of governmental structures and politics in South America. Examines competing ideologies, group developments, party interests, influence of revolution, relationship between political, social and economic structures and South America's role in the world political arena.  
*Prerequisite:* GOVT 2301, 2302.  
CB 451001 *Lec 3, Cr 3*
- GOVT 6360 AMERICAN EXECUTIVE PROCESS AND POLICY OUTPUTS**  
Advanced study of the development of the power and influence of the president and other American executives; procedures and policies of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system.  
CB 451001 *Lec 3, Cr 3*
- GOVT 6367 AMERICAN JUDICIAL PROCESS**  
Advanced study of the structure, functions and procedures of the national, state and local judicial systems, the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy.  
CB 451001 *Lec 3, Cr 3*

**GOVT 6376 UNITED STATES-MEXICO,  
CENTRAL AMERICA &  
CARIBBEAN RELATIONS**

Study of the formulation, conduct and consequences of U.S. foreign policy in Mexico, Central American and the Caribbean. The roles of the President, Congress, interest groups, the military and intelligence agencies, and public opinion will be examined. Specific cases of major foreign policy decisions will be examined.  
CB 450901 Lec 3, Cr 3

**GOVT 6386 POLITICS OF SOUTH AMERICA**

A survey of governmental structures and politics in South America. Examines the political processes and their relationship to existing social and economic structures of South America.  
CB 451001 Lec 3, Cr 3

## HISTORY (HIST)

History courses are not open to students enrolled in Developmental Reading or Developmental Writing. History 1301 and 1302 satisfy the legislative requirement of six hours in American History for graduation from any state college or university in Texas. HIST 2301 (Texas History) may be substituted for HIST 1301.

**HIST 1301 UNITED STATES TO 1877  
(Formerly TSC HIST 0213)**

Discovery; the colonial period; the American Revolution; establishing the nation, political, territorial and socio-economic growth; the sectional controversy; civil war; reconstruction in the South to 1877.  
CB 4508015142 Lec 3, Cr 3

**HIST 1302 UNITED STATES SINCE 1877  
(Formerly TSC HIST 0223)**

The growth of transportation and industry, the agrarian protest and the movement toward economic and political reform. The creation of an overseas empire, the United States in two world wars; the Cold War, and the role of the United States as a dominant world power.  
CB 4508015142 Lec 3, Cr 3

**HIST 2141 ADVANCED HISTORICAL  
ANALYSIS  
(Formerly TSC HIST 0271)**

An in depth study of selected topics.  
CB 4508015642 Lec 1, Cr 1

**HIST 2301 TEXAS HISTORY  
(Formerly TSC HIST 0253)**

A history of Texas from the Spanish period to the present day. Emphasis will be placed upon the Indians, the role of the Spanish and Mexicans, the period of Anglo-American settlement, the revolution, the republic and the development of the modern state. May be substituted for HIST

1301 to meet three of the six hours of state required American history.  
CB 4508015242 Lec 3, Cr 3

**HIST 2311 WESTERN CIVILIZATION TO 1600  
(Formerly TSC HIST 0113)**

A survey of the principal aspects of Western Civilization from earliest times to 1600. Traces the development of the customs, institutions, and culture often referred to as "Western" civilization.  
CB 4508015442 Lec 3, Cr 3

**HIST 2312 WESTERN CIVILIZATION SINCE  
1600**

(Formerly TSC HIST 0123)  
A continuation of the history of western civilization to contemporary times. The ages of expansion and of revolutions; the development of modern political, social, economic, and technological trends.  
CB 4508015442 Lec 3, Cr 3

**HIST 2331 MEXICAN HISTORY  
(Formerly TSC HIST 0233)**

The history of Mexico from the Pre-Colombian period to the present. The Spanish Colonial Period through Mexican independence; the National Period to 1910; the contemporary political, social, and economic aspects of modern Mexico.  
CB 4808015542 Lec 3, Cr 3

**HIST 2380 MEXICAN-AMERICAN STUDIES  
(Formerly TSC HIST 0243)**

A survey course including history, literature, culture, and contributions of the Mexican-American relating to their experiences in the Southwest for the last century and a half.  
CB 4511015342 Lec 3, Cr 3

**HIST 3313 AMERICAN COLONIAL ERA TO  
1783**

A study of American Colonial history from the founding of the first colony through the American Revolution with emphasis given to the development of American civilization; causes, and results of the American Revolution.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3

**HIST 3324 FORMATIVE PERIOD OF THE  
AMERICAN NATION, 1783-1840**

A study of the early years of the American nation from the critical period to the adoption of the constitution and launching of the new government through the transformation of American Society by the Jacksonian Era of the Common Man.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3

**HIST 3333 COLONIAL MEXICO, CENTRAL  
AND SOUTH AMERICA**

A study of the establishment of Spanish dominion; geography and natural resources; institutional and social development; cultural aspects and contribution.  
CB 450801 Lec 3, Cr 3

**HIST 4303 THE EMERGENCE OF MODERN  
AMERICA, 1877-1917**

A study of the growth of American business and industry, the emergence of the United States as a world power, the populist protest and progressive reform movements.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3

**HIST 4313 TWENTIETH CENTURY AMERICA,  
1917 TO PRESENT**

A study of the history of the United States from World War I to the present with emphasis on domestic and foreign affairs in their relationship to and effect on each other.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3

**HIST 4343 ERA OF THE SECTIONAL CONFLICT  
1840-1877**

United States history from 1840 to 1877 with emphasis upon the development of sectionalism, the breakdown of American political parties, Civil War and Reconstruction.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3

**HIST 4356 HISTORY OF PRE-HISPANIC  
AMERICA**

A study of the civilizations of Indian America before the arrival of the Spaniards.  
CB 450801 Lec 3, Cr 3

**HIST 4357 HISTORY OF MODERN LATIN  
AMERICA**

A study of the political and cultural trends of the Latin American nation since independence.  
CB 450801 Lec 3, Cr 3

**HIST 4370 THE RENAISSANCE AND THE  
REFORMATION: 1300-1650**

A study of the political, social and cultural development of Western Europe from the decline of the Medieval system, through the Age of the New Monarchies with emphasis on France, Germany and Italy.  
Prerequisite: 6 semester hours of History.  
CB 450801 Lec 3, Cr 3



- HIST 4375 ABSOLUTISM AND ENLIGHTENMENT IN EUROPE, 1650-1789**  
Traces the development of the Absolutist State, benevolent despotism, and the intellectual and scientific trends of the enlightenment.  
*Prerequisite:* 6 semester hours of History with TSC HIST 123 recommended. (May not be repeated for credit).
- HIST 4377 FRENCH-LED REVOLUTIONARY EUROPE**  
A study of Europe from the late 18th to late 19th century, in which France provided the principal model for culture and political change.  
CB 450801 Lec 3, Cr 3
- HIST 4378 GERMAN-LED MODERN EUROPE**  
A study of Europe from the late 19th century to present in which Germany has provided the principal model for culture and political change, with a consideration of the roots of this German model back to the start of the 19th century.  
CB 450801 Lec 3, Cr 3
- HIST 4396 ANCIENT HISTORY**  
A study of the historical foundations of the Middle East, Greece, and Rome.  
CB 450801 Lec 3, Cr 3
- HIST 4397 ENGLAND AND FRANCE TO 1500**  
A study of the historical foundations of these two key European cultures.  
CB 450801 Lec 3, Cr 3
- HIST 4398 HISTORY OF ASIA AND RUSSIA**  
A survey of Asian and Russian history and culture.  
CB 450801 Lec 3, Cr 3
- HIST 6301 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY TO 1860**  
In a survey and critique of the bibliography and problems of various eras in American history before the Civil War.  
CB 450801 Lec 3, Cr 3
- HIST 6303 SEMINAR AND PROBLEMS STUDY IN ERAS IN AMERICAN HISTORY SINCE 1860**  
A survey and critique of the bibliography and problems of various eras in American history since 1860. May be repeated for credit when topic varies.  
CB 450801 Lec 3, Cr 3
- HIST 6312 THE BRITISH EMPIRE**  
A study in the rise and fall of the British empire.  
CB 450801 Lec 3, Cr 3

- HIST 6313 THE MEDITERRANEAN**  
A study of the struggle for the control of the Mediterranean through history.  
CB 450801 Lec 3, Cr 3
- HIST 6314 BROWNSVILLE AND MATAMOROS HISTORY**  
A study of the role of Brownsville and Matamoros within border. Mexican, and American history, with an emphasis on primary research.  
CB 450801 Lec 3, Cr 3
- HIST 6315 STUDIES IN BIBLE HISTORY**  
An examination of the Bible as a work of ancient history, applying critical historical methodology.  
CB 450801 Lec 3, Cr 3
- HIST 6316 STUDIES IN MEXICAN AND AMERICAN HERITAGES**  
An intensive investigation of selected historical problems in the Mexican-American and Anglo-American cultural heritages and the fusion and clash of these cultures.  
CB 450801 Lec 3, Cr 3
- HIST 6381 HISTORY OF CASTILE TO 1500\***  
A study of the theories regarding the formation of Castilian society.  
CB 450801 Lec 3, Cr 3
- HIST 6385 THE MIDDLE AGES**  
Studies in the cultural, political, economic, military, religious and social history of the medieval period.  
CB 450801 Lec 3, Cr 3

## HOME ECONOMICS (HECO)

See Biology

## HONORS PROGRAM (HONR)

Honors courses are not open to students enrolled in Developmental Reading or Developmental Writing.

### HONR 1301 HONORS STUDIES (Formerly TSC HON 0113)

A multi-disciplinary honors course made up of a selection of mini-seminars in the areas of behavioral science, humanities, fine arts, languages, physical and social sciences. After reviewing an Honor Studies catalogue, students choose several mini-seminars to participate in for the semester. Seminar topics will vary.

*Prerequisite:* Open only to students who have completed at least 12 hours of course work with a 3.0 (B) average.

CB 3004015122 Lec 3, Cr 3

### HONR 1302 INDEPENDENT STUDIES (Formerly TSC HON 0123)

Honors course for students who have completed HONR 1301 – Honors Studies. Students will select individual topics to research and a committee of faculty to assist them. A final project in the form of a paper, film, work of art, replication of an experiment, or other approved academic endeavor will be presented to the committee.

CB 3004015122 Lec 3, Cr 3

## HOSPITALITY MANAGEMENT (THRM)

### THRM 1301 INTRODUCTION TO HOSPITALITY MANAGEMENT (Formerly TSC HRM 0113)

An introduction to the hospitality industry comprised of the many business organizations that provide services to individuals away from home. Such organizations include hotels/motels, restaurants, catering services, airlines, travel agencies, convention and tourist centers, country clubs, recreational parks and educational and health care institutions.

CB 995424 Lec 3, Cr 3

### THRM 1305 FOOD AND BEVERAGES ADMINISTRATION AND PRACTICES (Formerly TSC HRM 0123)

Surveys entire food and beverage operations from purchasing, receiving and storage to preparation and service. The entire food service operation is studied from a managerial perspective and includes topics such as menu planning, receiving, storing and issuing, food production, food and beverage service, bar operations, budgeting and pre-control, operational analysis, sanitation, equipment layout and selection, and maintenance.

CB 995424 Lec 3, Cr 3

### THRM 2401 HOSPITALITY MANAGEMENT CO-OP I (Formerly TSC HRM 0214)

Only open to students enrolled in the Hospitality Management Program. This course includes supervised employment in the students chosen career field. The student is evaluated by both the employer and Management Development Faculty members. A weekly one-hour seminar is held in conjunction with the work experience.

### THRM 2405 HOSPITALITY MANAGEMENT CO-OP II (Formerly TSC HRM 0224)

Continuation of THRM 2401.  
*Prerequisite:* THRM 2401 and consent of Hospitality Management Coordinator.

CB 995424 Lec 1, Lab 20, Cr 4

**THRM 2310 HOSPITALITY MAINTENANCE AND ENGINEERING**

(Formerly TSC HRM 0233)

Examines the organization of the engineering department and provides the technical information needed to establish effective preventative maintenance procedures. This examination of all phases of maintenance and engineering management provides the essential technical information in electricity, air conditioning, plumbing, heating, acoustics, elevators, and other equipment, as well as emphasizing management operation decisions.

CB 995424

Lec 3, Cr 3

**THRM 1310 HOSPITALITY MARKETING**

(Formerly TSC HRM 0263)

A course designed to assist in the development and implementation of an effective marketing plan related to the various organizations within the hospitality industry. Topics vary from market analysis to media selection.

CB 995424

Lec 3, Cr 3

**THRM 2315 HOTEL/MOTEL ADMINISTRATION AND PRACTICES**

(Formerly TSC HRM 0283)

A detailed study of all aspects of management for hotel/motel operations is made, including organization, policy and procedures, control techniques, and other personnel duties or functions.

CB 995424

Lec 3, Cr 3

**HUMAN SERVICES (THUM)**

**THUM 1301 FUNDAMENTALS OF HUMAN SERVICES**

(Formerly TSC HS 0113)

This course focuses on the history, purpose, philosophy, methods, and values governing human services in the United States. Emphasis is on the diversified needs, goals, application, and organizational development of such services.

CB 17040100

Lec 3, Cr 3

**THUM 1303 INTRODUCTION TO SUBSTANCE ABUSE**

(Formerly TSC HS 0123)

An overview of substance abuse. The topics covered will include the literature on abuse, pharmacology and effects of drugs, and the physiological, social, and legal implications surrounding substance abuse.

CB 17040100

Lec 3, Cr 3

**THUM 1305 PROCEDURES IN HUMAN SERVICES**  
(Formerly TSC HS 0133)

Social treatment of individuals, groups, and communities by human service workers is the core of this course.

Additionally, communicating with various types of groups and understanding of grants will be emphasized.

CB 17040100

Lec 3, Cr 3

**THUM 1307 THE ADDICTIVE PERSONALITY**

(Formerly TSC HS 0143)

The focus of this course is on individual and group behavior and the socio-cultural and psychological aspects of addictive behavior.

CB 17040100

Lec 3, Cr 3

**THUM 2301 INTERVIEWING, PRINCIPLES AND METHODS**

(Formerly TSC HS 0213)

This course covers gathering, imparting, information by utilizing interviewing techniques in development of treatment plan, case history, evaluation of progress and problems encountered. Interviewing for informational purposes, analytical and research needs, and individual and group interviewing.

CB 17040100

Lec 3, Cr 3

**THUM 2403 COUNSELING METHODS**

(Formerly TSC HS 0224)

The techniques and processes of interviewing, counseling, and data interpretation are the main points of this course. Simulations and mock-experiences will be included.

CB 17040100

Lec 3, Lab 3, Cr 4

**THUM 2305 TREATMENT MODALITIES**

(Formerly TSC HS 0233)

Emphasis is on the various treatment modalities. It includes an examination of treatment programs relevant to chemical dependency such as Eriksonian, Jung, behavioral and cognitive models of therapy.

CB 17040100

Lec 3, Cr 3

**THUM 2307 CURRENT ISSUES IN HUMAN SERVICES**

(Formerly TSC HS 0243)

An in-depth examination of contemporary topics in Human Services such as drug abuse, teen pregnancy, delinquency, the homeless, AIDS, and ethics. Specific emphasis will focus on problems in Cameron County that arise as a result of the sharing of the border with Mexico.

CB 17040100

Lec 3, Cr 3

**THUM 2609 SPECIALIZED COOP**

(Formerly TSC HS 0253)

A minimum of 300 hours of supervised observation/participation in a Human Services agency in which the student has a career interest. Integration of intake and treatment theory and practice in the chosen area. Weekly one hour class

sessions to discuss progress, problems, etc. A final written report is required at the completion of the 300 hours.

*Prerequisite: Must have passed (C or above) all Human Services courses. (Exception: The student working on the certificate must have successfully completed all asterisked H.S. courses.)*

CB 17040100

Lec 1, Field 20, Cr 6

**INTERDISCIPLINARY STUDIES (INDS)**

**INDS 3301 THEORIES OF KNOWLEDGE**

Analysis of humankind's "ways of knowing," including empirical and non-empirical methods. Perspectives and issues are drawn from the various sciences and humanities as well as non-academic sources of knowledge.

CB 380101

Lec 3, Cr 1

**INDS 3303 CULTURE AND HUMANITY: HUMAN DIVERSITY IN CROSS CULTURAL PERSPECTIVE**

Analysis of the diversity of the human experience from a cross-cultural perspective. Particular attention is paid to differing world-views and institutional patterns (e.g., the economy, religion, politics, family, medicine) as well as the role of technology and science within different cultural contexts.

CB 300401

Lec 3, Cr 3

**INDS 3304 FRONTIER STUDIES: THE U.S.-MEXICO BORDER**

Orientation in the theory and practice of field work (in either English or Spanish) for the analysis of the historical, social, economic, cultural, political, folkloric, and linguistic aspects of the U.S.-Mexico border region. Prospects for the future of the borderlands area are addressed.

CB 050102

Lec 3, Cr 3

**INTERNATIONAL TRADE AND TRANSPORTATION MANAGEMENT (TINT)**

**TINT 1301 EXPORT/IMPORT PROCEDURES**

(Formerly TSC IT 0113)

This course is designed to provide the student with a detailed study of export and import procedures. The areas covered include computation of duties, preparation of import and export document, licenses, perform invoices, a study of government regulations, transportation logistic, calculation of duty, marking of goods, customs bonds, export financing programs and other export/import management functions.

CB 995629

Lec 3, Cr 3

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**TINT 1305 PRINCIPLES OF TRANSPORTATION**  
(Formerly TSC IT 0123)

This course provides a comprehensive study of transportation management. The economic development and history of transportation is introduced. Air, rail, water, truck, and pipeline modes are studied. The benefit and cost factors of each transportation mode are examined. Emphasis is placed on learning the use of the most common shipping documents. The course covers application of local, state and federal government regulations. Practice is given in determining freight classifications procedures and pricing methods. Insurance claims procedures and common carrier liability are studied.

CB 995629 Lec 3, Cr 3

**TINT 2301 CUSTOMS REGULATIONS**  
(Formerly TSC IT 0213)

The customs regulations course presents an in depth coverage of U.S. Customs laws, U.S. legislative acts and Texas state law which govern international trade. Exercise sets are utilized to assist the student in learning how to locate answers to questions regarding classification of goods, tariffs, quotas, and duty rates. Day to day operations within U.S. customhouse brokers are presented.

CB 995629 Lec 3, Cr 3

**TINT 2305 INTERNATIONAL MARKETING**  
(Formerly TSC IT 0223)

This course presents the student with a detailed exposure to international marketing procedures and additional areas needing consideration prior to entering a foreign market. Emphasis is placed on instilling the ability to develop a plan for marketing a product internationally. The cultural impact of aesthetics, religion, education, social groups, and technological level on the marketing plan are examined. The methods for developing primary and secondary research data are analyzed. Product life cycle, foreign market product strategy and pricing strategy are covered. Foreign distribution options, middlemen, and the impact of exchange rates on profits are presented. Advertising concerns in another culture are reviewed as well as selecting the promotional mix. International trade issues including protectionism, ethics, and product dumping are discussed.

CB 995629 Lec 3, Cr 3

**TINT 2401, 2405**

**INTERNATIONAL TRADE CO-OP SEMINARS I & II**

(Formerly TSC IT 0214, 0224)

The seminars are open to students in the TINT Program. They provide students the opportunity to gain "real world" experience in the field and to be paid at the same time. The seminar meets as a class for one hour each week to discuss work related topics such as: metric conversions, warehousing inventory systems, countertrade, selling to socialist countries, and case studies. An individual program is worked out for each student in conjunction with the employer and the student coordinator.

CB 995629 Lec 1, Lab 20, Cr 4

## ITALIAN (ITAL)

**ITAL 1311 ELEMENTARY ITALIAN I**  
(Formerly TSC ITAL 1033)

A course designed to develop fundamental skills in listening, comprehension, speaking, reading and writing, emphasizing conversation, vocabulary acquisition, reading, composition and culture.

CB 1609025131 Lec 3, Cr 3

**ITAL 1312 ELEMENTARY ITALIAN II**  
(Formerly TSC ITAL 1043)

A continuation of Italian 1311.

Prerequisite: ITAL 1311 or consent of instructor.

CB 1609025131 Lec 3, Cr 3

## JOURNALISM

See Communication

## KINESIOLOGY (KINE)

**KINESIOLOGY ACTIVITY**

Fee \$8.00

Instruction in individual, dual and fitness activities which are designed to develop in the student the necessary skills and knowledge to engage in productive lifetime leisure activities. All courses emphasize beginning skills except those designated II, which are at the intermediate level. To enroll in a II level course, students may either have taken the I level or already possess the fundamental skills of the activity. A course cannot be repeated for credit.

- KINE 1100 Advanced Life Saving
- KINE 1101 Aerobic Dance and Exercise
- KINE 1102 Angling and Bait Casting
- KINE 1103 Archery
- KINE 1104 Badminton
- KINE 1105 Ballet I
- KINE 1106 Ballet II
- KINE 1107 Basketball
- KINE 1108 Body Mechanics
- KINE 1109 Bowling
- KINE 1110 Flag Football
- KINE 1111 Folk and Square Dance
- KINE 1112 Folkloric Dance
- KINE 1113 Golf
- KINE 1114 Gymnastics
- KINE 1115 Jazz and Modern Dance
- KINE 1116 Jogging
- KINE 1117 Paddle Tennis
- KINE 1118 Pington
- KINE 1119 Racquetball
- KINE 1120 Sailing
- KINE 1121 Self-Defense
- KINE 1122 Soccer
- KINE 1123 Softball
- KINE 1124 Swimming
- KINE 1125 Table Tennis
- KINE 1126 Tap Dance
- KINE 1127 Tennis I
- KINE 1128 Tennis II
- KINE 1129 Volleyball
- KINE 1130 Weight Training
- KINE 1131 Wrestling
- KINE 1132 Surfing

CB 3601085128 Lab 2, Cr 1

**KINE 0243 HEALTH EDUCATION PROGRAM IN THE ELEMENTARY SCHOOL**

A study of health behaviors, habits and concerns particular to preadolescents from ages 4-12.

CB 1313075628 Lec 3, Cr 3

**KINE 1238 CONCEPTS OF FITNESS FOR LIFE**  
(Formerly TSC KIN 0122)

This course is designed to improve the students knowledge of total well-being with emphasis upon cardiovascular endurance, proper nutrition, weight control, strength and flexibility. Students will assess their own fitness needs, establish realistic goals and evaluate their progress toward reaching these goals.

CB 13131075328 Lec 2, Lab 1, Cr 2

**KINE 1301 INTRODUCTION TO SPORT AND EXERCISE SCIENCE**

(Formerly TSC KIN 0113)

A survey course designed to introduce the prospective kinesiology education major to the history, philosophy, scientific foundations, objectives and current status of sports and exercise in educational and recreational settings. Required for kinesiology majors and minors.

CB 1313145128 Lec 3, Cr 3

**KINE 1304 PERSONAL AND COMMUNITY HEALTH**

(Formerly TSC KIN 0213)

This a survey course designed to acquaint the student with the major health issues of today. Includes the study of mental and social health issues, the body systems, nutrition, fitness, disease, drug use and abuse, health care systems and environmental health concerns.

CB 1313075228 *Lec 3, Cr 3*

**KINE 1306 FIRST AID**

(Formerly TSC KIN 0223)

Topics of study include cardiopulmonary resuscitation, bleeding and shock, fractures, dislocations and medical emergencies. Upon successful completion of skills and knowledge tests, the student may be certified through the American Red Cross.

CB 1313075128 *Lec 3, Cr 3*

**KINE 1308 SPORTS OFFICIATING (FOOTBALL/ VOLLEYBALL)**

(Formerly TSC KIN 0263)

Instruction in the rules and techniques of officiating football and volleyball will be given. Opportunities for practice in both the classroom and college intramural setting will be provided.

CB 1313145628 *Lec 3, Cr 3*

**KINE 1309 SPORTS OFFICIATING (BASKETBALL/SOFTBALL)**

(Formerly TSC KIN 0273)

Instruction in the rules and techniques of officiating basketball and softball will be given. Opportunities for practice in both the classroom and intramural setting will be provided.

CB 1313145528 *Lec 3, Cr 3*

**KINE 1321 COACHING ATHLETICS**

(Formerly TSC KIN 0283)

Designed to provide the student with an overview of the many areas of concern involved in coaching major sports. Includes the nature of the coaching profession; organizing practices and games; psychological and sociological aspects of coaching; communications with school personnel, parents and the media; and the ethics of coaching.

CB 1313145528 *Lec 3, Cr 3*

**KINE 1331 PHYSICAL ACTIVITIES IN THE ELEMENTARY SCHOOL**

(Formerly TSC KIN 0233)

A study of physical activities suitable for preadolescents from ages 4-12. Activities studied include individual and group games, movement exploration, rhythms, tumbling and fitness.

CB 1313145328 *Lec 3, Cr 3*

**KINE 2370 KINESIOLOGY (BIOMECHANICS)**

The study of the science of human motion, including the use of implements and objects involved in the performance of movement. The course is based specifically on biomechanics, musculoskeletal anatomy and neuromuscular physiology.

*Prerequisite: BIOL 1407 or 2401.*

CB 2607069124 *Lec 3, Cr 3*

**KINE 3302 FOUNDATIONS OF SPORTS AND EXERCISES FOR PRE-ADOLESCENT**

(Formerly UTPAB KIN 3302)

Theory application of modified individual, dual, and team sports for the pre-adolescent. Course includes knowledge and basic fundamentals for sport-related skill development. Included in the course are games of lower organization, relays, motor skills, lead-up games and related team sports.

CB 1313140004 *Lec 3, cr 3*

**KINE 3309 MODIFIED TEAM AND INDIVIDUAL SPORTS**

(Formerly UTPAB KIN 3309)

A study of team and individual sports appropriate for adolescents and adults. Emphasis is given to the study of rules, terminologies, history and sociological aspects within the contexts of physical development and motor performances.

CB *Lec 3, cr 3*

**KINE 3311 PSYCHOLOGICAL BEHAVIOR IN SPORT**

(Formerly UTPAB KIN 3311)

A study of the behavior of individuals participating in play, games, and sports. A logical analysis of knowledge required for understanding the behavioral dimensions of sport.

CB 3410991002 *Lec 3, Cr 3*

**KINE 3312 THE INTRAMURAL PROGRAM**

(Formerly UTPAB KIN 3312)

History, status, and objectives of the intramural movement. Sport events, schedule making, tournament organization, scoring plans, rules and regulations, awards and administration of sporting events.

CB 1313140004 *Lec 3, cr 3*

**KINE 3314 DANCE FOR CHILDREN AND ADOLESCENTS**

(Formerly UTPAB KIN 3314)

A study of historical foundations and philosophical roots relating to the development of dance in the United States. Includes the forces, controversies, and leaders affecting dance as an integral part of current society.

CB 500301 *Lec 3, Cr 3*

**KINE 3317 THEORY OF GYMNASTICS**

(Formerly UTPAB KIN 3317)

Course includes knowledge biomechanics, and theory fundamental of gymnastics. Safety, legal liability, historic development, and current trends are addressed.

CB 3401991002 *Lec 3, Cr 3*

**KINE 3320 HISTORY AND PRINCIPLES OF SPORT AND MOVEMENT SCIENCE**

(Formerly UTPAB KIN 3320)

Study of the sporting events of early civilizations and their evolution into modern society. Includes the Olympic Games, the European influence on sport in the United States and the modern sport movement in the United States including intercollegiate and interscholastic sports.

CB 3401991002 *Lec 3, Cr 3*

**KINE 3352 CARE, TREATMENT AND PREVENTION OF ATHLETIC INJURIES**

(Formerly UTPAB KIN 3352)

Prevention and correction of accident in physical exercise and athletic activities. The use of proper personal and field equipment, support methods, conditioning exercises, therapeutic and medical examinations and massage.

CB 1702990114 *Lec 3, Cr 3*

**KINE 3353 PHYSIOLOGY OF EXERCISE AND HUMAN PERFORMANCE**

(Formerly UTPAB KIN 3353)

Basic systematic adaptations to exercise with specific emphasis on the interrelationship of physiological function of the human body, and the changes resulting from physical activity.

CB 3401991002 *Lec 3, Cr 3*

**KINE 3356 AESTHETICS (HARMONY) OF MOVEMENT**

(Formerly UTPAB KIN 3356)

A study of motor skills and physical development from birth to adulthood with emphasis on childhood. Course includes study of neurological, physiological, intellectual, social and emotional factors that influence gross and fine movement activities.

CB 3401991002 *Lec 3, Cr 3*

**KINE 4310 MEASUREMENT TECHNIQUES IN PHYSICAL AND EXERCISE SPORTS**

(Formerly UTPAB KIN 4310)

Course includes knowledge and theoretical fundamentals of statistical measurement basics. It includes construction, selection, administration and interpretation of performance and knowledge tests in physical activities.

CB 3401991002 *Lec 3, Cr 3*

**KINE 4313 SEMINAR IN SPORTS, DANCE AND EXERCISE SCIENCE**

(Formerly UTPAB KIN 4313)

Selected topics on sports, dance or exercise science. Current trends and theories are included. Course covers skills, legal implications and specific topics in the areas of perceptual motor skills, sports, dance or exercise science that are not available as part of the regular course offerings. Courses may be repeated for credit when the topics vary, but not more than nine hours will apply to a bachelor's degree.

CB 3401991002 Lec 3, Cr 3

**KINE 4320 MANAGEMENT OF SPORTS AND RECREATION PROGRAMS**

(Formerly UTPAB KIN 4320)

A study of the principles and policies of managing fitness, sports and recreational programs. Administrative procedures involving factors such as program organization, record and report writing, equipment, and staff development; functions and duties of supervision.

CB 1313140004 Lec 3, Cr 3

**KINE 4351 THE ADAPTED KINESIOLOGY PROGRAM**

(Formerly UTPAB KIN 4351)

Study of adaptations for the exceptional child. Theory and implications of specific disabilities with application to exercise and sports. Characteristics of special population children as related to the physiological basis of movement.

CB 1313140004 Lec 3, Cr 3

**KINE 4356 MOTOR LEARNING AND HUMAN PERFORMANCE**

(Formerly UTPAB KIN 4356)

Current theories and practices concerning improvement of motor skills and performance. Includes study of maturational, physiological, and psychological elements of the motor learning process.

CB 3401991002 Lec 3, Cr 3

**KINE 4360 WATER SPORTS AND SAFETY INSTRUCTION**

Study of marketing, promoting, and investigating the unique aspects of administering water sports and safety programs. Includes public relations techniques utilized by successful water sport organizations.

CB Lec 3, Cr 3

**KINE 4361 SPORTS FACILITIES AND MANAGEMENT**

(Formerly UTPAB KIN 4361)

Applied knowledge and techniques designed to facilitate the management and development of sport facilities. Emphasizes development of practical

skills for successful facility operation. Includes construction, procurement and maintenance as needed in relation to quality and intended use.

CB 3401991002 Lec 3, Cr 3

**KINE 5313 WORKSHOP IN KINESIOLOGY**

(Formerly UTPAB PE 5313)

This course is designed to provide in-depth experience for the prospective teacher, coach and recreation leader in the development of both current theories and practices in presenting selected areas of kinesiology such as aquatics, dance, gymnastic and/or sports. The course may be repeated for credit, up to nine semester hours, when the topic is different.

Prerequisite: 12 semester hours of physical education or approval of the instructor.

CB 1313140004 Lec 3, Cr 3

**KINE 5351 KINESIOLOGY CURRICULUM FOR THE HANDICAPPED STUDENT**

(Formerly UTPAB PE 5351)

The selection and planning of kinesiology for students whose activity must be adapted due to demands imposed by gravity, trauma, injury, congenital defect, illness or disease. Laboratory work with students will be scheduled.

CB 1313140004 Lec 3, Cr 3

**KINE 5355 SUPERVISION AND ADMINISTRATION OF THE KINESIOLOGY PROGRAM**

(Formerly UTPAB PE 5355)

A study of the principles and policies of supervising and administering the kinesiology program in the public schools.

CB 1313140004 Lec 3, Cr 3

**KINE 6301 HISTORY AND PHILOSOPHY OF KINESIOLOGY**

(Formerly UTPAB 6301)

Historical development of kinesiology from primitive to modern times. Philosophy of modern kinesiology with application to present day kinesiology programs.

CB 1313140004 Lec 3, Cr 3

**KINE 6302 METHODS OF RESEARCH IN KINESIOLOGY**

(Formerly UTPAB PE 6302)

Introduction to methods and materials to research in the field. Approved methods of writing term papers and research papers.

CB 1313140004 Lec 3, Cr 3

**KINE 6303 APPLIED TESTS AND MEASUREMENT IN KINESIOLOGY**

(Formerly UTPAB PE 6303)

A critical consideration of the importance and limitations of measurements in kinesiology. Emphasis

placed on those measurements that are most needed today. The statistical treatment and interpretation of research data.

CB 1313140004 Lec 3, Cr 3

**KINE 6304 SCIENTIFIC FOUNDATIONS OF KINESIOLOGY**

(Formerly UTPAB PE 6304)

Background of kinesiology from biological, anatomical, and physiological aspects.

CB 131314 Lec 3, Cr 3

**KINE 6305 CURRICULUM CONSTRUCTION IN KINESIOLOGY**

(Formerly UTPAB PE 6305)

A critical study of principles, problems and procedures in the construction of a kinesiology program. Attention will be given to the application of these principles in the construction of a course of study for a specific situation.

CB 1313140004 Lec 3, Cr 3

**KINE 6320 INDEPENDENT RESEARCH**

(Formerly UTPAB PE 6320)

Individual investigation of a problem in kinesiology that involves one of the techniques of research. Students will work under a designated faculty member and must have research approved prior to registering.

CB 1313140004 Lec 3, Cr 3

## LEGAL ASSISTING (TLAW)

**TLAW 1301 FUNDAMENTALS OF PARALEGALISM**

(Formerly LA 0113)

This course is designed to give students a basic understanding of the various functions of the legal assistant in the American legal system and to build a foundation of basic knowledge and skill development which is necessary for someone seeking a career in the paralegal/legal assistant field.

CB 995828 Lec 3, Cr 3

**TLAW 1305 FUNDAMENTALS OF CIVIL LAW**

(Formerly LA 0123)

Focus is on those laws concerned civil or private rights and remedies. Emphasis will include family, negligence, and bankruptcy.

CB 995828 Lec 3, Cr 3

**TLAW 2301 EVIDENCE AND INVESTIGATION**

(Formerly LA 0213)

This course deals with discovery and preparation for trial. It includes the use of private investigators, techniques of preserving evidence, legal discovery tools and evidentiary rules governing discovery.

CB 995828 Lec 3, Cr 3

**TLAW 2305 LITIGATION**  
(Formerly LA 0223)

This course offers instruction on civil and criminal litigation procedures commencing from the initial client interview to and including the trial. Emphasis will be placed on procedures authorized under the provisions of the code of civil procedure. Special emphasis will be placed on the content and preparation of documents used in civil and criminal law suits.

Lec 3, Cr 3

**TLAW 2310 LEGAL RESEARCH**  
(Formerly LA 0233)

This course is designed to give students basic knowledge of sources of law for purpose of legal research.

Lec 3, Cr 3

**TLAW 2415 PARALEGAL CO-OP**  
(Formerly LA 0244)

Open only to students enrolled in the Legal Assisting program. This course includes supervised employment in the student's chosen career field, as well as evaluation by both the employer and the faculty member. A weekly one-hour seminar is held in conjunction with the work experience.

*Prerequisite: Core courses must be completed before attempting Co-Op, and consent of Co-Op Coordinator.*

CB 995828

Lec 3, Cr 3

## MANAGEMENT (TMAN)

**TMAN 1101 JOB SKILLS**  
(Formerly TSC BA 0101)

This course is designed to introduce the student to the job search process. Topics covered will be job search methods and sources, resume writing, job interview process, professional grooming and job retention. Available to all majors.

CB 995621

Lec 1, Cr 1

**TMAN 1301 PRINCIPLES OF MARKETING**  
(Formerly TSC BA 0153)

A study of the place of marketing in our economic structure through the use of the marketing concept; analysis of the distribution systems and channels of distribution, marketing strategy and the consumer, sales promotion procedures and advertising techniques, the mechanics of attracting attention and creating interest, and the nature and use of media. Case method used to analyze present marketing structure and other areas of marketing decision making.

CB 995621

Lec 3, Cr 3

**TMAN 1305 FINANCIAL MATH I**  
(Formerly TSC BA 0173)

A course designed to provide a review of mathematical concepts related to discounts, markups and markdowns, understanding of checking accounts and payroll procedures, simple and compound interest. The student will be exposed to installment buying, Rule of 78 refunding procedure and credit card accounts.

CB 995824

Lec 3, Cr 3

**TMAN 1315 FINANCIAL MATH II**  
(Formerly TSC BA 0183)

The application of basic financial functions. Emphasis will be placed on financial reports and ratios, cash flow statement and break even analysis. Other major topics include asset management, inventory control, overhead, and credit and collection procedures. Depreciation, various taxes, stocks and bonds, annuities, sinking funds, insurances, home ownership and foreign currency exchange rates will be covered.

*Prerequisite: Credit for TMAN 1305 Financial Math I.*

CB 995824

Lec 3, Cr 3

**TMAN 1401 COOPERATIVE EDUCATION I**  
(Formerly TSC BA 0164)

Open only to students enrolled in the Mid-Management Development Program. This course includes supervised employment in the student's chosen career field. The student is evaluated by both the employer and Management Development faculty members. A weekly one-hour seminar is held in conjunction with the work experience.

CB 995621

Lec 1, Lab 20, Cr 4

**TMAN 1405 COOPERATIVE EDUCATION II**  
(Formerly TSC BA 0174)

Continuation of TMAN 1401.

*Prerequisite: TMAN 1401 and consent of Management Development Coordinator.*

CB 995621

Lec 1, Lab 20, Cr 4

**TMAN 2301 HUMAN RELATION IN BUSINESS**  
(Formerly TSC BA 0273)

An approach to human behavior in the modern business world. Emphasis on the way people interact with the social, organizational and human elements they encounter in the work environment. Communication and attitude are stressed as factors in human behavior.

CB 995621

Lec 3, Cr 3

**TMAN 2305 PERSONNEL MANAGEMENT**  
(Formerly TSC BA 0253)

A practical course designed to acquaint the student with a sound knowledge of those theories and policies relating to the management of company personnel.

Studies of job organization, personnel recruitment, selection, testing motivation development, evaluation, remuneration and other related topics are coupled with the analysis of case studies in order to sharpen the student's problem-solving capabilities in personnel movement management.

CB 995621

Lec 3, Cr 3

**TMAN 2310 INTRODUCTION TO INTERNATIONAL BUSINESS**  
(Formerly TSC BA 0293)

This course provides an introduction to the study of international business. Topical areas surveyed include procedures for importing and exporting, foreign labor relations, global economic factors, financial trade documents, currency transactions, foreign market analysis, and the effects of operating within different cultures, social and legal systems. Also covered is a survey of career opportunities within international business.

CB 995621

Lec 3, Cr 3

**TMAN 2401 COOPERATIVE EDUCATION III**  
(Formerly TSC BA 0214)

Continuation of TMAN 1405.

*Prerequisite: TMAN 1405 and consent of Management Development Coordinator.*

CB 995621

Lec 1, Lab 20, Cr 4

**TMAN 2405 COOPERATIVE EDUCATION IV**  
(Formerly TSC BA 0224)

Continuation of TMAN 2401.

*Prerequisite: TMAN 2401 and consent of Management Development Coordinator.*

CB 995621

Lec 1, Lab 20, Cr 4

## MANAGEMENT (MANA)

**MANA 3332 HUMAN RELATIONS IN MANAGEMENT**

The theory and application of behavioral sciences to the human element in organizations. Individual behavior and motivation, as well as small group interaction in organizations, is emphasized. The human resource is portrayed in vital, complex factor in management.

CB 061501

Lec 3, Cr 3

**MANA 3361 PRINCIPLES OF MANAGEMENT**

It is a study of the management functions of planning, organizing, leading and controlling. Emphasis is placed on organizational theory and behavior.

CB 060401

Lec 3, Cr 3

**MANA 3362 PERSONNEL MANAGEMENT**

Current developments within the field of personnel administration are reviewed. A study is made of the conceptual principles, policies and organizational

cedures utilized by business institutions in the management of personnel. Covered areas are selection, placement, compensation, morale, labor turnover, collective bargaining, and supervisory activities.

*Prerequisite:* MANA 3361.

CB 061601

Lec 3, Cr 3

#### MANA 3363 PRODUCTION MANAGEMENT

The concept of the production function and its applicability to all types of business forms, problems which provide background for the integration of scientific decision processes relative to an analysis of production activities and computer applications in the productions/operation environment.

*Prerequisite:* BUSI 3341.

CB 061302

Lec 3, Cr 3

#### MANA 3364 ORGANIZATION THEORY AND DESIGN

A study is made of the theory and process of designing, utilizing, and evaluating organizational structures.

*Prerequisite:* MANA 3361.

CB 060401

Lec 3, Cr 3

#### MANA 4361 ORGANIZATIONAL BEHAVIOR

Development of management theory with emphasis on the investigation of individual and group behavior in organizations.

*Prerequisite:* MANA 3361.

CB 060401

Lec 3, Cr 3

#### MANA 4364 SOCIETAL PROBLEMS IN BUSINESS

The behavior and social responsibilities of business firms and other business institutions in modern society.

*Prerequisite:* MANA 3361.

CB 060401

Lec 3, Cr 3

#### MANA 4366 SMALL BUSINESS MANAGEMENT

A study of the special characteristics of small business. Emphasis will be placed on the selecting and starting of a small business and the essential function of management in the first years of operation.

*Prerequisite:* MANA 3361, MARK 3371

CB 060401

Lec 3, Cr 3

#### MANA 4368 INDUSTRIAL RELATIONS

An examination of current issues and problem areas facing management and unions in their relationship with employees, government and the community. Emphasis is placed on the role of union and management in the process, on the relationship of this process to contemporary labor legislation, contract negotiations, and daily administration of company and union relations.

*Prerequisite:* MANA 3361.

CB 060401

Lec 3, Cr 3

#### MANA 4369 BUSINESS POLICY

(Formerly UTPAB GENB 4369)

A broad course in business management designed to integrate earlier studies in business. Comprehensive case problems are studied with student participation in decision making related to business operations under conditions of uncertainty.

*Prerequisite:* ACCT 2401, 2402, ECON 2301, 2302, FINA 3380, MANA 3361, MARK 3371.

CB 060401

Lec 3, Cr 3

#### MANA 6330 MANAGEMENT THEORY AND ORGANIZATIONAL BEHAVIOR

An analysis is made of formal organizational theory and the interrelationship of individuals in organizations. A study is made of the organization as a system of authority, status, leadership, direction, communication and influence.

*Prerequisite:* MANA 3361

CB 061501

Lec 3, Cr 3

#### MANA 6331 PERSONNEL ADMINISTRATION AND INDUSTRIAL RELATIONS

An analysis of the functions of personnel administration and of the relationship between the personnel-industrial relations system and the total organization system. Contemporary industrial relations, philosophies and practices.

*Prerequisite:* MANA 3361.

CB 061601

Lec 3, Cr 3

#### MANA 6332 MANAGEMENT SEMINAR

The development of management thought and practice with emphasis on current trends and problems in management.

*Prerequisite:* 12 semester hours of graduate business credit.

CB 060401

Lec 3, Cr 3

#### MANA 6360 OPERATIONS MANAGEMENT

This course focuses on the role of the production function in the business system and the study of production system operations. Emphasis is placed on production system design, integration of system inputs, outputs, and transformations, and computes applications to decision processes utilized in managing operations and achieving optimal production.

*Prerequisite:* BUSI 3341 and MANA 3361.

CB 060401

Lec 3, Cr 3

## MARKETING (MARK)

#### MARK 3371 PRINCIPLES OF MARKETING

The marketing structure as it operates in our economic system. With emphasis on improving the flow of goods and

services from producer to consumer. Practical application of principles and techniques. Designed as a beginning course in marketing.

CB 061401

#### MARK 3372 CONSUMER BEHAVIOR

An overall view of the basic perspectives of consumer behavior. An interdisciplinary approach is utilized by studying the fields of economics, psychology, sociology and anthropology as they relate to marketing. Emphasis is placed on the fundamental process of motivation, perception and learning, as well as analysis of individual predispositions and group influences in marketing.

*Prerequisite:* MARK 3371.

CB 061401

Lec 3, Cr 3

#### MARK 3373 WHOLESALING INDUSTRIAL MARKETING

A comprehensive study of marketing in other than the retail area. Topics include: wholesale institutions, their competitive positions and strategies; channels of distribution; marketing to industrial consumers and industrial buying power. Readings, cases, and special projects.

*Prerequisite:* MARK 3371 or consent of instructor.

CB 061401

Lec 3, Cr 3

#### MARK 3374 MARKETING STRATEGY

Applications of marketing principles to strategy formulation. Topics include: target market selection, market mix development and new product planning. Both consumer and industrial marketing is stressed through the use of cases, readings, and special projects. Recommended as the second course in marketing.

*Prerequisite:* MARK 3371.

CB 061401

Lec 3, Cr 3

#### MARK 3375 RETAILING

Principles and methods of modern retailing, emphasis on problems of store location and layout, buying, pricing credit, stock control, personnel and sales promotion. Designed for students who wish to gain a general knowledge of the retail field as well as those specializing in marketing.

*Prerequisite:* MARK 3371.

CB 061401

Lec 3, Cr 3

#### MARK 4371 SALES MANAGEMENT AND PERSONAL SELLING

The selection, training, compensation, organization, and control of a field sales organization is studied. Primary emphasis is devoted to the selection and training of

the sales force for the selling process and making a sales presentation.

*Prerequisite:* MARK 3371, MANA 3361.

CB 061401

Lec 3, Cr 3

#### MARK 4372 PROMOTION MANAGEMENT

This survey course covers the development and management of an organization's advertising and sales promotional effort. The course includes a review of advertising, production, scheduling, and media buying. Emphasis is on the coordination of media strategy with field sales force activities.

*Prerequisite:* MARK 3371.

CB 061401

Lec 3, Cr 3

#### MARK 4376 INTERNATIONAL MARKETING

The aspects of marketing affected when doing business in the international area are included. This is a survey course dealing with international advertising, sales promotion, pricing, and marketing research. It is designed for students who may work for a multi-national corporation.

*Prerequisite:* MARK 3371 or consent of instructor.

CB 080703

Lec 3, Cr 3

#### MARK 4377 MARKETING MANAGEMENT

Emphasis on acquiring a knowledge of various tools and models that may be useful in assisting the marketing manager in his decision-making process. All areas of marketing are discussed within the decision-making framework, with practical application of techniques emphasized.

*Prerequisite:* MARK 3371, MANA 3361

CB 061401

Lec 3, Cr 3

#### MARK 4378 MARKETING RESEARCH

Quantitative research procedures and techniques utilized in business today. Problems definition, sources of research data, survey methods, questionnaire design and sampling techniques. Practical application of procedures and techniques is emphasized through class research projects.

*Prerequisite:* MARK 3371, BUSI 3341.

CB 061402

Lec 3, Cr 3

#### MARK 6370 MARKETING POLICY AND MANAGEMENT

A study of marketing policy and decision making based upon a consumer orientation; innovation and creative adaptation to change; cultural implication of marketing action; and the role of theory in marketing.

*Prerequisite:* MARK 3371, MANA 3361.

CB 061402

Lec 3, Cr 3

#### MARK 6371 MARKETING SEMINAR

A study of historical and current thought in marketing theory and practice.

*Prerequisite:* MARK 3371, MANA 3361.

CB 061401

Lec 3, Cr 3

#### MARK 6372 MARKETING STRATEGY

A study of current promotion management techniques for consumer products. The course offers an opportunity to develop skills in utilizing consumer research, sales analysis, and mass media data for promotion planning, creation, execution, and evaluation.

*Prerequisites:* MARK 3371, MANA 3361.

CB 061401

Lec 3, Cr 3

## MATHEMATICS (MATH)

All new, full-time and part-time students entering The University of Texas at Brownsville will be given a mathematics assessment test prior to registration regardless of the student's background in mathematics. The results of the test will be evaluated by the Counseling Center and will assist the counselors in placing students in the mathematics course most commensurate with the students' skills. Students who are found to be deficient in their basic skills based on their test results will be directed to the appropriate developmental course: MATH 0301, Math 0302, or MATH 0303. Students found not deficient in their basic skills will be directed to MATH 1313 or MATH 1314. Students who have a strong mathematics background, including recent, advanced high school mathematics (Trigonometry and Analysis or Calculus) and who have successfully passed may register for MATH 1348 and/or MATH 2313.

### Developmental-Level Mathematics Courses

#### MATH 0100 DEVELOPMENTAL MATHEMATICS LAB

(Formerly TSC MATH 1101)

Developmental course. Enrollment in this course is restricted to those students who have failed the mathematics portion of the TASP test but who are not qualified for MATH 0320, 0321, 0322. Students will pursue an individualized plan of study under the supervision of a mathematics instructor. In addition to the two hours of lab per week, students are expected to devote additional time in the Tutorial Center working with computer tutorials as recommended by the instructor. May be repeated as MATH 0101, 0102, 0103. Graded satisfactory or unsatisfactory.

CB 3201045137

Lab 2, Cr 1

#### MATH 0320 BASIC MATHEMATICS

(Formerly TSC MATH 1003)

Designed for students needing a review of fundamental operations of arithmetic. Provides work with whole numbers, fractions, decimals, percentages, ratio and

proportion, signed numbers, scientific notation, metric conversions and basic geometric concepts. Usually offered Fall, Spring, Summer.

CB 3201045137

Lec 3, Cr 3

#### MATH 0321 INTRODUCTORY ALGEBRA (Formerly TSC MATH 1013)

A beginning course in algebra designed for the student with a minimal background in mathematics. Topics include an introduction to sets; arithmetic and algebra of counting numbers, integers, and rational numbers; algebraic techniques and applications; solution of linear and quadratic equations; solving systems of equations; factoring and multiplying polynomial operations; rational expressions.

*Prerequisite:* MATH 0320 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Spring, Summer.

CB 3201045137

Lec 3, Cr 3

#### MATH 0322 INTERMEDIATE ALGEBRA (Formerly TSC MATH 1023)

A course designed to prepare students for College Algebra. Topics include linear equations and inequalities, exponents and polynomials, special products and factors, rational expressions, rational exponents and radicals, word problems and linear functions and their graphs. Credit cannot be counted if credit has been received previously for MATH 1314 or 1316.

*Prerequisite:* MATH 0321 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Spring, Summer.

CB 3201045237

Lec 3, Cr 3

### College-Level Mathematics Courses

#### MATH 1313 COLLEGE MATHEMATICS (Formerly TSC MATH 0143)

A course designed for the applications of mathematical principles and methods necessary to meet the high demands for mathematics competency in business and industry, and the development of analytical thinking. Topics include sets, logic, introduction to probability and statistics, informal geometry, problem solving, finance, calculators and computers.

*Prerequisite:* MATH 0321 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Spring, Summer. (Students wishing to transfer to a four-year institution should consult with a counselor regarding transferability of credit.)

CB 2701016937

Lec 3, Cr 3

#### MATH 1314 COLLEGE ALGEBRA (Formerly TSC MATH 0113)

A course covering linear and quadratic equations, quadratic and nonlinear functions and relations, systems of



equations and inequalities, theory of determinants, determinants and matrices, logarithmic functions, the binomial theorem, permutations, combinations, progressions, mathematical induction, and other college algebra topics as time permits.  
*Prerequisite:* MATH 0322 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Spring, Summer.  
 CB 2701015437 Lec 3, Cr 3

**MATH 1316 TRIGONOMETRY**  
 (Formerly TSC MATH 0123)  
 Topics include trigonometric functions, functions of all angles, right triangles, radian measure and circular functions, graphs of trigonometric functions, identities, inverse trigonometric functions, trigonometric equations, oblique triangles, complex numbers, and practical problems.  
*Prerequisite:* MATH 1314 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Spring, Summer.  
 CB 2701015337 Lec 3, Cr 3

**MATH 1324 BUSINESS ALGEBRA**  
 (Formerly TSC MATH 0273)  
 This course is designed to meet the needs of students majoring within the School of Business. Topics include those from College Algebra which apply to business and economics, simple and compound interest, annuities, applications of linear equations and inequalities, and linear programming.  
*Prerequisite:* MATH 1314 with a minimum grade of "C". Usually offered Fall, Spring, Summer.  
 CB 2701016737 Lec 3, Cr 3

**MATH 1325 BUSINESS CALCULUS**  
 (Formerly TSC MATH 0283)  
 This course is designed to meet the needs of students majoring within the School of Business. Topics include: applications of differential and integral calculus to business and economics, probability and statistics.  
*Prerequisite:* MATH 1324 with a minimum grade of "C". Usually offered Fall, Spring, Summer.  
 CB 2701016737 Lec 3, Cr 3

**MATH 1335 MATHEMATICAL CONCEPTS I**  
 (Formerly TSC MATH 0173)  
 An introductory course in mathematics for non-science and non-mathematics majors in which the basic concepts of mathematics are introduced and applied. Topics include: mathematical reasoning and problem solving; theory of sets, enumeration systems; systems of whole numbers and integers; and number theory. This course cannot be counted toward a major or minor in mathematics.  
*Prerequisite:* MATH 1314 with minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Fall, Summer.  
 CB 2701015137 Lec 3, Cr 3

**MATH 1336 MATHEMATICAL CONCEPTS II**  
 (Formerly TSC MATH 0193)  
 A continuation of MATH 1335 that includes topics in rational and real numbers, decimals, informal geometry and measurement, metric geometry, variations, applications of mathematics, simple statistical methods and probability and introduction to computers. This course cannot be counted toward a major or minor in mathematics.  
*Prerequisite:* MATH 1335 with a minimum grade of "C".  
 CB 2701015537 Lec 3, Cr 3

**MATH 1342 ELEMENTARY STATISTICS**  
 (Formerly TSC MATH 0233)  
 This course is designed to provide the student with an elementary overview of the nature and uses of descriptive and inferential statistics. Topics include descriptive statistics, measures of central tendency and dispersion, probability, distributions, tests of hypothesis and estimation for large and small samples, linear regression and correlation, comparisons, and analysis of variance.  
*Prerequisite:* MATH 1314 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Spring.  
 CB 2701015137 Lec 3, Cr 3

**MATH 1348 ANALYTIC GEOMETRY**  
 (Formerly TSC MATH 0183)  
 This course is designed for students with a reasonable sound background in algebra and trigonometry. Topics include basic geometric concepts, vectors, the straight line, the circle, conic sections, transformation of coordinates, curve sketching, transcendental curves, polar coordinates, parametric equations, and solid analytical geometry.  
*Prerequisite:* MATH 1316 with a minimum grade of "C" or high school Trigonometry, Analysis, and/or Calculus and successfully assessed. Usually offered Fall, Spring, Summer.  
 CB 2701015537 Lec 3, Cr 3

**MATH 2312 PRE-CALCULUS MATH**  
 (Formerly TSC MATH 0114)  
 This course is an alternative to MATH 1316 and MATH 1348 as a pre-calculus route. Topics include functions and their graphs, trigonometric, exponential and logarithmic functions, vectors, conics, systems of equations, sequences and series, and polar coordinates.  
*Prerequisite:* MATH 1314 with a minimum grade of "C" or equivalent as determined by the mathematics assessment test. Usually offered Spring.  
 CB 270105837 Lec 3, Lab 1, Cr 4

**MATH 2313 CALCULUS I**  
 (Formerly TSC MATH 0213)  
 This course covers functions, limits, and continuity; the derivative; differentiation of algebraic functions; the derivative as a rate of change; maximum and minimum with applications; Rolle's Theorem; the Mean-Value Theorem; higher derivatives; concavity; techniques of graphing; antiderivative; the definite integral and integration with applications.  
*Prerequisite:* MATH 2312 with a minimum grade of "C" or MATH 1348 with a minimum grade of "C" or high school Trigonometry, Analysis, and/or Calculus and successfully assessed. Usually offered Fall, Spring, Summer.  
 CB 2701015937 Lec 3, Lab 1, Cr 3

**MATH 2314 CALCULUS II**  
 (Formerly TSC MATH 0223)  
 A continuation of MATH 2313 covering further topics of applications of the definite integral; differentiation and integration of inverse, logarithmic, exponential and inverse trigonometric functions with applications; hyperbolic functions; several techniques of integration with application to areas, volume, length of arcs, surface of revolution, centroids, and center of mass; approximate integration; indeterminate forms; improper integrals and Taylor's formula; and polar coordinates and the conic sections.  
*Prerequisite:* MATH 2313 with a minimum grade of "C". Usually offered Fall, Spring, Summer.  
 CB 2701015937 Lec 3, Lab 1, Cr 3

**MATH 2318 LINEAR ALGEBRA**  
 (Formerly TSC MATH 0243)  
 An introductory course in linear algebra. Topics include systems of equations, determinants, matrices, vectors in N-space, and linear transformations and their matrix representations. Some emphasis is given to computer application of the above topics.  
*Prerequisite:* MATH 1348 or MATH 2312. Usually offered Spring.  
 CB 270101637 Lec 3, Cr 3

**MATH 3302 VECTOR ANALYSIS**  
 A study of the application of vector methods to the problems of mathematics and physics. Topics discussed include vector and scalar products, differentiation of vector valued functions, the divergence theorem, and Stokes theorem.  
*Prerequisite:* MATH 2314.  
 CB 270401 Lec 3, Cr 3

**MATH 3303 HISTORY OF MATHEMATICS**  
 This course is a study of the historical development of ideas that shape modern mathematical thinking. Although

mathematicians are studied, emphasis is placed on mathematical development.

CB 270101

Lec 3, Cr 3

### MATH 3304 GEOMETRIC STRUCTURES

Study of abstract geometric systems for the purpose of developing the understanding of and ability to create mathematical proofs.

CB 270401

Lec 3, Cr 3

### MATH 3305 EUCLIDEAN AND

#### TRANSFORMATIONAL GEOMETRY

An in-depth study of geometrical concepts. Topics include axiomatic geometry, symmetry, congruency, similarity, transformations, and measure.

Prerequisite: MATH 1348

CB 270401

Lec 3, Cr 3

### MATH 3337 APPLIED STATISTICS

This course concerns itself with probabilistic models, regression analysis, nonparametric statistics, and the basics of experimental design. Computer laboratory experience will be an important part of the class.

Prerequisite: Junior level standing, and either MATH 1316, 1325, or 2313. It is highly recommended that the student have some knowledge of statistics such as offered in MATH 2342. This course replaces MATH 3308 and is the same as STAT 3337. A student may use MATH 3337 to replace a grade received in MATH 3308; however, one may receive credit for only MATH 3308, MATH 3337, or STAT 3337.

CB 270501

Lec 3, Cr 3

### MATH 3347 CALCULUS III

Topics include calculus of several variables; partial derivatives and multiple integrals.

Prerequisite: MATH 2314.

CB 270101

Lec 3, Cr 3

### MATH 3349 DIFFERENTIAL EQUATIONS

This course contains a study of ordinary differential equations, and applications.

Prerequisite: MATH 2314.

CB 270301

Lec 3, Cr 3

### MATH 3373 DISCRETE STRUCTURES

(Formerly UTPAB MATH 4373)

This course is an introduction to discrete mathematics, studying enumeration, lattices, graphs and other topics in combinatorics. Particular emphasis is given to those structures applicable in Computer Science.

Prerequisite: MATH 1314 and Junior standing.

CB 270301

Lec 3, Cr 3

### MATH 4302 THEORY OF NUMBERS

This course includes a study of Peano's postulates, prime and composite integers, divisibility properties of the integers, congruence, and Diophantine equations.

Prerequisite: MATH 1314.

CB 270501

Lec 3, Cr 3

### MATH 4339 MATHEMATICAL STATISTICS I

This course introduces the student to the mathematical theory of statistics and probability. Topics include probability densities, mathematical expectation, the distribution of linear combinations of random variables and the central limit theorem.

Prerequisite: MATH 2314, MATH 3347.

CB 270501

Lec 3, Cr 3

### MATH 4340 MATHEMATICAL STATISTICS II

This course is a continuation of MATH 4339. Topics include a study of sampling distributions estimation, tests of hypothesis, correlation and regression, and the analysis of variance.

Prerequisite: MATH 3347 and MATH 4339.

CB 270501

Lec 3, Cr 3

### MATH 4348 LINEAR ALGEBRA

Topics include an introduction to vector spaces, linear transformations and associated matrices, bilinear and quadratic forms, eigenvalues and eigenvectors, and similarity of matrices.

Prerequisite: MATH 1314, MATH 2318.

CB 270101

Lec 3, Cr 3

### MATH 4351 MODERN ALGEBRA

This course provides an introduction to algebraic structures. Topics to be taken from groups, rings and fields.

Prerequisite: MATH 2314.

CB 270401

Lec 3, Cr 3

### MATH 4357 REAL ANALYSIS

This course presents a rigorous introduction to the elements of real analysis. Topics include sequences, series, functions, limits, continuity, and derivatives.

Prerequisite: MATH 2314 (MATH 2342) and MATH 3347.

CB 270401

Lec 3, Cr 3

### MATH 4364 SPECIAL PROBLEMS IN MATHEMATICS

This course covers special undergraduate topics in mathematics which are not elsewhere in the department. May be repeated for credit.

CB 270101

Lec 3, Cr 3

### MATH 4371 MULTIVARIABLE ANALYSIS

This course covers various topics selected from the theory and application of the calculus of functions of several variables.

CB 270101

Lec 3, Cr 3

### MATH 4379 SPECIAL PROBLEMS IN APPLIED MATHEMATICS

This course covers special undergraduate topics in applied

mathematics which are not taught elsewhere in the department. May be repeated for credit when topic is different.

CB 270101

Lec 3, Cr 3

## MEDICAL LABORATORY TECHNOLOGY (TMLT)

### TMLT 1190 CLINICAL PRACTICE I

(Formerly TSC MLT 0141)

Clinical Practicum I is designed to introduce the student to the operation of the medical laboratory and specimen collection. Students will gain experience in phlebotomy and specimen collection.

Prerequisite: TMLT 1405 or permission of instructor.

CB 998028

Lec 0, Lab 5, Cr 1

### TMLT 1290 CLINICAL PRACTICUM II, III, IV, V, 2290, 2293, 2296

(Formerly TSC MLT 0262, 0272, 0282, 0292)

These courses are designed to provide the student with clinical experience in all areas of the modern medical laboratory.

Prerequisites: TMLT 01190, 1305, 1405, 1415, 1500  
CB 993028

Lab 10, Cr 1

### TMLT 1293 ADVANCED PHLEBOTOMY

(Formerly TSC MLT 0152)

A continuation of the practical experience in sample collection including venous, arterial and capillary blood collection. Areas of emphasis are pediatric, neonatal and critically ill patients. Special collection procedures are introduced.

Prerequisite: TMLT 1190 or permission of instructor.

CB 998028

Lec 1, Lab 5, Cr 1

### TMLT 1305 IMMUNOLOGY

(Formerly MLT 0123)

A study of the immunological mechanisms of the body is presented in this course. Topics included are cell mediated immunity, humoral immunity, the immunoglobulins, antibody production, antigen-antibody reactions and the various techniques used in the immunology laboratory to detect disease and abnormal immunological states.

Prerequisite: TMLT 1405, and with a grade of "C" or better.

CB 993028

Lec 2, Lab 4, Cr 1

### TMLT 1315 PARASITOLOGY, MYCOLOGY/ MYCOBACTERIOLOGY

(Formerly TSC MLT 0133)

This course covers the parasites, fungi and mycobacteria of humankind. Topics include host parasite relationships, life cycles, parasitic identification forms and techniques for recovering these forms, parasitologic disease and their treatment.

Mycology topics include dermatophytes,

subcutaneous mycoses, systemic mycoses, and the techniques used for isolation and identification. Mycobacteriologic topics include tuberculosis, Hansen's, disease, the "Atypical" mycobacteria, and techniques used to identify these organisms.

*Prerequisite:* TMLT 1405 with a grade of "C" or better.

CB 998028 Lec 2, Lab 4, Cr 3

#### TMLT 1405 INTRODUCTION TO THE CLINICAL LABORATORY

*(Formerly MLT 0114)* Fee \$8.00

The study of the basic fundamentals needed to function in a medical laboratory. Included will be the areas of laboratory safety, fundamental laboratory equipment and glassware, laboratory safety, fundamental laboratory equipment and glassware, laboratory measurements and mathematics, specimen collection and processing and urinalysis. Also included will be basic laboratory organization and management, medical ethics and the use of medical textbooks and reference material.

CB 993028 Lec 3, Lab 4, Cr 4

#### TMLT 1415 CLINICAL MICROBIOLOGY

*(Formerly MLT 0124)* Fee \$8.00

This course is a study of the bacteria that inhabit and infect humankind. The biochemical and morphologic techniques used to identify these organisms as well as the media and techniques used to isolate them will be covered. Also included will be the pathology of certain infectious disease states and proper specimen collection and handling. The bacterial groups covered are the Gram positive cocci, Gram negative cocci, Gram negative bacilli, Gram positive bacilli, and the anaerobes.

*Prerequisites:* TMLT 1405 with a grade of "C" or better.

CB 998028 Lec 3, Lab 5, Cr 4

#### TMLT 1505 HEMATOLOGY

*(Formerly TSC MLT 0125)* Fee \$8.00

This course will introduce the student to the cellular components of the blood. Topics covered include hematopoiesis, hematologic measurements and techniques, the anemias, the leukemias, other blood dyscrasias, cell counting in other body fluids, and coagulation.

*Prerequisite:* TMLT 1405, with a grade of "C" or better.

CB 993028 Lec 4, Lab 6, Cr 5

#### TMLT 2110 SEMINAR

*(Formerly TSC MLT 0241)* Fee \$8.00

This seminar is designed to correlate the patient aspects and laboratory aspects of disease states using the case study route.

These case studies will be used to show the interrelationships between the various laboratory disciplines and to reinforce didactic information in these areas. Students will analyze case studies from the five major areas including clinical chemistry, hematology, immunohematology, microbiology, and immunology/urinalysis.

*Prerequisites:* TMLT 1190, 1305, 1315, 1405, 1415, 1505, 2405, and 2705 with a grade of "C" or better.  
CB 998028 Lec 1, Lab 0, Cr 1

#### TMLT 2405 IMMUNOHEMATOLOGY

*(Formerly TSC MLT 0234)* Fee \$8.00

This course includes the study of blood group immunology, cross-matching techniques, the blood groups in humans and the techniques used to detect blood group related disorders. Also included are donor selection and processing, blood components, and the collection and processing of blood bank blood.

*Prerequisite:* TMLT 1305, 1405 with a grade of "C" or better.

CB 998028 Lec 3, Lab 5, Cr 4

#### TMLT 2705 CLINICAL CHEMISTRY

*(Formerly TSC MLT 0217)* Fee \$8.00

This course is designed to provide the student with experience in chemistry applied in the clinical laboratory including organic and inorganic compounds of blood. Preparation of reagents and introduction to laboratory instrumentation will also be presented.

*Prerequisite:* TMLT 1405, with a grade of "C" or better.

CB 993028 Lec 6, Lab 7, Cr 7

## MUSIC (MUSI)

### Theory

#### MUSI 1116 EAR TRAINING AND SIGHT-SINGING I

*(Formerly TSC MUS 0151)*

An aural harmonic of MUSI 0113, Rhythmic, melodic and harmonic dictation. Also training in singing intervals, chords, and melodies at sight. (To Be Taken Concurrently with MUSI 1173 and 1311.)

CB 5009036630 Lab 2, Cr 1

#### MUSI 1117 EAR TRAINING AND SIGHT-SINGING II

*(Formerly TSC MUSI 0161)*

Continuation of MUSI 0151. (To Be Taken Concurrently with MUSI 0123 and MUSI 0121.)

CB 5009036630 Lab 2, Cr 1

#### MUSI 1162 DICTION I

*(Formerly TSC MUS 0201)*

A study of phonetic sounds of the English, German, French, or Italian

languages to promote the ability to sing in those languages.

*Prerequisite:* READ 0301 or appropriate assessment.

CB 5009036330 Lab 2, Cr 1

#### MUSI 1171 DICTION II

*(Formerly TSC MUS 0211)*

A continuation of MUSI 1162.

*Prerequisite:* MUSI 1162.

CB 5009036330 Lab 2, Cr 1

#### MUSI 1263 IMPROVISATION

*(Formerly MUSI 0282)*

Designed to provide background in the art of improvisation and knowledge of basic materials and practices as a foundation for improvising or extemporaneous playing. Course may be repeated for additional credit.

CB 5009036530 Lec 1, Lab 2, Cr 2

#### MUSI 1300 FOUNDATION IN MUSIC

*(Formerly TSC MUS 0193)*

A study of the basic fundamentals of music, with an introduction to Melodic, rhythmic, and harmonic instruments. Emphasis will be placed on singing and reading music. Designed for the non-music major.

*Prerequisite:* READ 0301 or assessment.

CB 5009045130 Lec 3, Cr 3

#### MUSI 1301 MUSIC FUNDAMENTALS

*(Formerly TSC MUS 0173)*

An introduction to the elements of music. Includes study of music reading in various clefs, notation, rhythm, time signatures and meters, scales and modes, key signatures, intervals, and chords. Designed for non-music majors, but may also be taken (as a prerequisite to MUSI 1311) by music majors or minors with no previous experience.

CB 5009015230 Lec 3, Cr 3

#### MUSI 1311 MUSIC THEORY I

*(Formerly TSC MUSI 0113)*

The study of rhythms, scales and modes, keys, intervals, chords and chord progressions, cadences, non-harmonic tones and simple modulation. Emphasis is on harmonization of melodies and partwriting in accordance with 17th and 18th century practices. (To be taken concurrently with MUSI 1116 and 1173.)

*Prerequisite:* READ 0302 or appropriate assessment score.

CB 5009045130 Lec 3, Cr 3

#### MUSI 1312 MUSIC THEORY II

*(Formerly TSC MUSI 0123)*

Continuation of MUSI 1311. (To be taken concurrently with MUSI 1117 and 1173.)

CB 5009045130 Lab 2, Cr 1

**MUSI 2116 EAR TRAINING AND SIGHT SINGING III**  
(Formerly TSC MUS 0251)  
Continuation of MUSI 1117. (To be taken concurrently with MUSI 2311 and MUSI 1173.)  
CB 5009036730 Lab 2, Cr 1

**MUSI 2118 EAR TRAINING AND SIGHT-SINGING IV**  
(Formerly TSC MUS 0261)  
Continuation of MUSI 2116. (To Be Taken Concurrently with MUSI 2312 and MUSI 1173.)  
CB 5009036730 Lab 2, Cr 1

**MUSI 2311 MUSIC THEORY III**  
(Formerly TSC MUS 0213)  
Continuation of MUSI 1312. Advanced partwriting and harmonization of melodies using diatonic and altered traits, seventh chords and less common progressions and modulations. Laboratory includes application of partwriting rules at the keyboard. Includes all modulations, melodic harmonizations, and realization of accompaniment from figured bass. (To Be Taken Concurrently with MUSI 2116 and MUSI 1173.)  
Prerequisite: MUSI 1311.  
CB 50009045230 Lec 3, Lab 1, Cr 3

**MUSI 2312 MUSIC THEORY IV**  
(Formerly TSC MUS 0223)  
Continuation of MUSI 2116. (To be taken concurrently with MUSI 2118 AND MUSI 1173.)  
CB 5009045230 Lec 3, Lab 1, Cr 3

## Literature

**MUSI 1159 MUSICAL THEATRE**  
(Formerly TSC MUS 1401)  
The study and performance of a musical selected from the works of the Music Theatre repertoire.  
CB 5009036130 Lec 2, Lab 2, Cr 1

**MUSI 1306 MUSIC APPRECIATION**  
(Formerly TSC MUS 0103)  
A non-technical survey course designed for the intelligent appreciation of traditional musical styles represented throughout history. Recordings, filmstrips, and live performances help illustrate the influence of music within the various fine arts. (Does not fill any requirement for a music major.)  
Prerequisite: READ 0301 or appropriate assessment score.  
CB 5009025130 Lec 3, Cr 3

**MUSI 1308 MUSIC LITERATURE I**  
(Formerly TSC MUS 0133)  
A comprehensive survey of the literature of music for all media from earliest available Greek music to

contemporary works. (To Be Taken Concurrently with MUSI 1173.)  
Prerequisite: READ 0302 or appropriate assessment score.  
CB 5009025230 Lec 3, Lab 2, Cr 3

**MUSI 1309 MUSIC LITERATURE II**  
(Formerly TSC MUS 0143)  
Continuation of MUSI 1308 (To Be Taken Concurrently with MUSI 1173.)  
Prerequisite: READ 0302 or appropriate assessment score.  
CB 5009025230 Lec 3, Lab 2, Cr 3

**MUSI 2310 ROCK JAZZ APPRECIATION**  
(Formerly TSC MUS 0183)  
A general survey of rock and jazz music. Elements of music and an overview of the various eras of rock and jazz will be studied. Open to all college students. (Does not fill any requirement for a music major.)  
Prerequisite: READ 0301 or appropriate assessment.  
CB 5009025330 Lec 3, Cr 3

## Class Instruction

**MUSI 1166 WOODWIND CLASS I**  
(Formerly TSC MUS 1031) Fee \$8.00  
Introduction to the mechanics and care of the flute, clarinet, and saxophone; embouchure, breath control, tonguing and intonation problems, literature, maintenance, and minor repair are emphasized.  
Prerequisite: READ 0301 or appropriate assessment.  
CB 5009035130 Lab 2, Cr 1

**MUSI 1168 BRASS CLASS I**  
(Formerly TSC MUS 1011) Fee \$8.00  
Introduction to the mechanics and care of the cornet and french horn. Embouchure, breath control, tonguing and intonation problems. Alternate fingerings and different mouthpieces, literature, maintenance and minor repair are also studied.  
Prerequisites: READ 0301 or appropriate assessment.  
CB 5009035130 Lab 2, Cr 1

**MUSI 1170 PERCUSSION CLASS I**  
(Formerly TSC MUS 1021)  
Special attention is given to hand position, sticking techniques and tuning of snare, bass and trap drums and timpani. Cymbals and other utility percussion instruments, their uses and effects, will also be studied.  
Prerequisite: READ 0301 or appropriate assessment.  
CB 5009035130 Lab 2, Cr 1

**MUSI 1172 STRINGS CLASS I**  
(Formerly TSC MUS 1041) Fee \$8.00  
Introduction to the fundamentals of the violin, viola, cello and bass, with emphasis on basic technique and bowing.  
Prerequisite: READ 0301 or appropriate assessment.  
CB 5009035130 Lab 2, Cr 1

**MUSI 1179 GUITAR CLASS I**  
(Formerly TSC MUS 1061) Fee \$8.00  
Development of guitar technique and musical style in a class situation.  
CB 5009035130 Lab 3, Cr 1

**MUSI 1180 GUITAR CLASS II**  
(Formerly TSC MUS 1161) Fee \$8.00  
Continuation of MUSI 1061.  
Prerequisite: MUSI 1061.  
CB 5009039130 Lab 3, Cr 1

**MUSI 1181 PIANO CLASS I**  
(Formerly TSC MUS 1071) Fee \$8.00  
Development of piano technique and musical style in a class situation.  
CB 5009035230 Lab 3, Cr 1

**MUSI 1182 PIANO CLASS II**  
(Formerly TSC MUS 1171) Fee \$8.00  
Continuation of MUSI 1071.  
Prerequisite: MUSI 1071.  
CB 5009035230 Lab 3, Cr 1

**MUSI 1183 VOICE CLASS I**  
(Formerly TSC MUS 1051) Fee \$8.00  
Introduction to instruction in the fundamentals of singing, with emphasis on breathing and tone production.  
CB 5009035330 Lab 3, Cr 1

**MUSI 1184 VOICE CLASS II**  
(Formerly TSC MUS 1151) Fee \$8.00  
Advanced instruction in the fundamentals of singing, with emphasis on breathing and tone production. Continuation of MUSI 1051.  
CB 5009035330 Lab 3, Cr 1

**MUSI 2166 WOODWIND CLASS II**  
(Formerly TSC MUS 1131) Fee \$8.00  
Introduction to the mechanics and care of double reed instruments (oboe and bassoon); embouchure, breath control, tonguing, literature, maintenance, and minor repair and intonation problems are emphasized. Continuation of MUSI 1031.  
CB 5009035130 Lab 2, Cr 1

**MUSI 2168 BRASS CLASS II**  
(Formerly TSC MUS 1111) Fee \$8.00  
Introduction to the mechanics and care of the trombone, baritone horn and tuba (bass); embouchure, breath control, tonguing and intonation problems are emphasized. Alternate fingerings literature, maintenance, and minor repair

and use of different mouthpieces are also studied.

Prerequisite: READ 0301 or appropriate assessment.  
 CB 5009035130 Lab 2, Cr 1

**MUSI 2170 PERCUSSION CLASS II**  
 (Formerly TSC MUS 1121) Fee \$8.00  
 Continuation of MUSI 1021 with emphasis on mallet instruments.  
 CB 5009035130 Lab 2, Cr 1

**MUSI 2172 STRINGS CLASS II**  
 (Formerly TSC MUS 1141) Fee \$8.00  
 Advanced instruction with emphasis on third positions and vibrato. Continuation of MUSI 1041.  
 CB 5009035130 Lab 2, Cr 1

**MUSI 2181 PIANO CLASS III**  
 (Formerly TSC MUS 1181) Fee \$8.00  
 Continuation of MUSI 1171.  
 Prerequisite: MUSI 1171.  
 CB 5009035230 Lab 3, Cr 1

**MUSI 2182 PIANO CLASS IV**  
 (Formerly TSC MUS 1191) Fee \$8.00  
 Continuation of MUSI 1181.  
 Prerequisite: MUSI 1181.  
 CB 5009035230 Lab 3, Cr 1

**Ensembles**

**MUSI 1131 ESTUDIANTINA**  
 (Formerly MUSI 0281)  
 A traditional folkloric instrumental and vocal group open to all students with permission of the director. Students will study and perform folk music of Mexico and Spain. Course may be repeated for credit.  
 CB 5009035630 Lab 3, Cr 1

**MUSI 1154 VOCAL ENSEMBLE**  
 (Formerly MUSI 0181)  
 Performance in vocal ensembles of various sizes. The student will gain experience and knowledge of ensemble literature, exposure to correct concepts of ensemble sonority, and historical interpretation of various periods of music. Course may be repeated for additional credit.  
 CB 5009035830 Lab 3, Cr 1

**MUSI 1173 RECITAL**  
 (Formerly MUSI 0121)  
 Required of all music majors and minors. Music majors will attend a minimum of approved programs per semester. Plus elected off-campus events. The musical events will vary from semester to semester, but shall generally consist of band and choir concerts plus chamber and solo recitals. One semester

hour. Course may be repeated for additional credit.  
 CB 5009039130 Lab 1, Cr 1

**MUSI 1239 STAGE BAND/JAZZ ENSEMBLE**  
 (Formerly MUSI 0242)  
 Instrumental music group open to all college students who play an appropriate instrument with permission of instructor. Rehearsal and performance of popular, dance, and jazz music on and off campus. Course may be repeated for more credit.  
 CB 5009035630 Lab 5, Cr 2

**MUSI 1241 CAMPUS CHOIR**  
 (Formerly MUSI 0142)  
 Open to all students of the College. The chorus studies performs a wide variety of music representing the literature of the great eras of music history. Course may be repeated for additional credit.  
 CB 5009035730 Lab 5, Cr 2

**MUSI 2127 CONCERT BAND**  
 (Formerly MUSI 0271)  
 Open to all students of the College with permission of the director. The concert band studies and performs a wide variety of music representing the literature and sonority of sounds of the great eras of music history up to the contemporary sounds of today's composers. Course may be repeated for additional credit.  
 CB 5009035530 Lab 3, Cr 1

**MUSI 2135 VOCAL JAZZ CHOIR**  
 (Formerly MUSI 0171)  
 The choir is performance oriented, concentrating on compositions for small vocal ensembles. Literature performed may include compositions of contemporary and popular music. Course may be repeated for additional credit.  
 CB 5009035630 Lab 3, Cr 1

**MUSI 3311 ESSENTIAL ELEMENTS OF MUSIC I**  
 Basic elements of music with appropriate techniques and principles of singing, playing, moving and listening to music. Not for Music majors. This course meets the Fine Arts option of the General Education Program Requirements.  
 Prerequisite: 60 semester hours.  
 CB 131312 Lec 3, Cr 3

**APPLIED MUSIC (MUAP)**

Concurrent enrollment in an ensemble and recital class (MUSI 1173) is required, unless waived by the department chair.

**MUAP 1201 APPLIED VIOLIN I**  
 (Formerly MUSI 1242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1202 APPLIED VIOLIN I**  
 (Formerly MUSI 1342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2201 APPLIED VIOLIN III**  
 (Formerly MUSI 2242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2202 APPLIED VIOLIN IV**  
 (Formerly MUSI 2342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1205 APPLIED VIOLA I**  
 (Formerly MUSI 1242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1206 APPLIED VIOLA II**  
 (Formerly MUSI 1342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2205 APPLIED VIOLA III**  
 (Formerly MUSI 2242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2206 APPLIED VIOLA IV**  
 (Formerly MUSI 2342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1209 APPLIED CELLO I**  
 (Formerly MUSI 1242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1210 APPLIED CELLO II**  
 (Formerly MUSI 1342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2209 APPLIED CELLO III**  
 (Formerly MUSI 2242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2210 APPLIED CELLO IV**  
 (Formerly MUSI 2342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1213 APPLIED BASS I**  
 (Formerly MUSI 1242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1214 APPLIED BASS II**  
 (Formerly MUSI 1342) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2213 APPLIED BASS III**  
 (Formerly MUSI 2242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2214 APPLIED BASS IV**  
 (Formerly MUSI 1242) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 1217 APPLIED FLUTE/PICCO I**  
 (Formerly MUSI 1232) Fee \$35.00  
 CB 5009035430 Lab 1, Pract 10, Cr 2

<b>MUAP 1218 APPLIED FLUTE/PICCO II</b> (Formerly MUSI 1332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1234 APPLIED SAXOPHONE II</b> (Formerly MUSI 1332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1254 APPLIED TUBA II</b> (Formerly MUSI 1312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2217 APPLIED FLUTE/PICCO III</b> (Formerly MUSI 2332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2233 APPLIED SAXOPHONE III</b> (Formerly MUSI 2232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2253 APPLIED TUBA III</b> (Formerly MUSI 2212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2218 APPLIED FLUTE/PICCO IV</b> (Formerly MUSI 2332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2234 APPLIED SAXOPHONE IV</b> (Formerly MUSI 2332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2254 APPLIED TUBA IV</b> (Formerly MUSI 2312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1221 APPLIED OBOE/ENG HORN I</b> (Formerly MUSI 1232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1237 APPLIED TRUMPET/CORNET I</b> (Formerly MUSI 1212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1257 APPLIED PERCUSSION I</b> (Formerly MUSI 1222) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1222 APPLIED OBOE/ENG HORN II</b> (Formerly MUSI 1332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1238 APPLIED TRUMPET/CORNET II</b> (Formerly MUSI 1312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1258 APPLIED PERCUSSION II</b> (Formerly MUSI 1322) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2221 APPLIED OBOE/ENG HORN III</b> (Formerly MUSI 2232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2237 APPLIED TRUMPET/CORNET III</b> (Formerly MUSI 2212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2257 APPLIED PERCUSSION III</b> (Formerly MUSI 2222) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2222 APPLIED OBOE/ENG HORN IV</b> (Formerly MUSI 1242) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2238 APPLIED TRUMPET/CORNET IV</b> (Formerly MUSI 2312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2258 APPLIED PERCUSSION IV</b> (Formerly MUSI 2322) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1225 APPLIED BASSOON/CNTR BSN I</b> (Formerly MUSI 1232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1245 APPLIED TROMBONE I</b> (Formerly MUSI 1212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1261 APPLIED GUITAR I</b> (Formerly MUSI 1282) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1226 APPLIED BASSOON/CNTR BSN II</b> (Formerly MUSI 1332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1246 APPLIED TROMBONE II</b> (Formerly MUSI 1312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1262 APPLIED GUITAR II</b> (Formerly MUSI 1382) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2225 APPLIED BASSOON/CNTR BSN III</b> (Formerly MUSI 2232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2245 APPLIED TROMBONE III</b> (Formerly MUSI 2212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2261 APPLIED GUITAR III</b> (Formerly MUSI 2282) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2226 APPLIED BASSOON/CNTR BSN IV</b> (Formerly MUSI 2332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2246 APPLIED TROMBONE IV</b> (Formerly MUSI 2312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2262 APPLIED GUITAR IV</b> (Formerly MUSI 2382) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1229 APPLIED CLAR/BASS I</b> (Formerly MUSI 1232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1249 APPLIED EUPHONIUM/BARITONE I</b> (Formerly MUSI 1212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1265 APPLIED ORGAN I</b> (Formerly MUSI 1272) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1230 APPLIED CLAR/BASS II</b> (Formerly MUSI 1332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1250 APPLIED EUPHONIUM/BARITONE II</b> (Formerly MUSI 1312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1266 APPLIED ORGAN II</b> (Formerly MUSI 1372) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2225 APPLIED CLAR/BASS III</b> (Formerly MUSI 2232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2249 APPLIED EUPHONIUM/BARITONE III</b> (Formerly MUSI 2212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2265 APPLIED ORGAN III</b> (Formerly MUSI 2272) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 2226 APPLIED CLAR/BASS IV</b> (Formerly MUSI 2332) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2250 APPLIED EUPHONIUM/BARITONE IV</b> (Formerly MUSI 2312) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 2266 APPLIED ORGAN IV</b> (Formerly MUSI 2372) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
<b>MUAP 1233 APPLIED SAXOPHONE I</b> (Formerly MUSI 1232) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1253 APPLIED TUBA I</b> (Formerly MUSI 1212) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2	<b>MUAP 1269 APPLIED PIANO I</b> (Formerly MUSI 1262) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2
		<b>MUAP 1270 APPLIED PIANO II</b> (Formerly MUSI 1362) Fee \$35.00 CB 5009035430 Lab 1, Pract 10, Cr 2

**MUAP 2269 APPLIED PIANO III**  
 (Formerly MUSI 2212) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

**MUAP 2270 APPLIED PIANO IV**  
 (Formerly MUSI 2312) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

**MUAP 1281 APPLIED VOICE I**  
 (Formerly MUSI 1252) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

**MUAP 1282 APPLIED VOICE II**  
 (Formerly MUSI 1352) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

**MUAP 2281 APPLIED VOICE III**  
 (Formerly MUSI 2252) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

**MUAP 2282 APPLIED VOICE IV**  
 (Formerly MUSI 2352) Fee \$35.00  
 03009035430 Lab 1, Pract 10, Cr 2

## NURSING ASSOCIATE DEGREE (TNSG)

**TNSG 1201 ORIENTATION TO NURSING**  
 (Formerly TSC NURS 0102)

The student is introduced to the Associate Degree Nursing Program philosophy, purposes, objectives and conceptual framework. The course provides a foundation of the basic group concepts in nursing: the three interrelated roles of practice of the ADN; principles of health teaching; the process of individual and group communication; roles of the health team members; the wellness-illness continuum; legal regulation of nursing practice; ethical issues in nursing; alterations in homeostasis; and a brief history of the profession of nursing. Maslow's hierarchy of basic human needs is presented as a framework for nursing intervention. The nursing process is introduced as an adaptation of scientific approach to nursing practice.

*Prerequisite: BIO 2401*  
 CB 998021 Lec 2, Lab 0, Cr 2

**TNSG 1203 BASIC MEDICATION ADMINISTRATION**  
 (Formerly TSC NURS 0112)

This course is designed as an introductory course in medication administration. The nursing process is utilized to administer medications to adult clients in a safe and skill manner. General information concerning medications and their administration is presented, and the nurse's responsibility is emphasized. The actions and interactions of drugs on body structure and function are explored.

Nursing interventions, including calculations, required for safe administration of medication are incorporated.

*Prerequisite: BIO 2401, BIO 2402, TNSG 1201.*  
 CB 998021 Lec 2, Lab 0, Cr 2

**TNSG 1405 FUNDAMENTALS OF NURSING**  
 (Formerly TSC NURS 0114) Fee \$8.00

This course applies principles from the biological, psychological, and social sciences in assisting the client to meet his basic human needs. The nursing process is utilized to individualize nursing care of the client, to provide for his safety, and to meet his needs for hygiene, mobility, pain relief, sleep, nutrition, elimination and prevention of complications.

*Prerequisite: BIO 2401, BIO 2402, and TNSG 1201.*  
 CB 998021 Lec 2, Lab 6, Cr 4

**TNSG 1407 ADULT CLIENT WITH MINOR ALTERATIONS IN HOMEOSTASIS I**  
 (Formerly TSC NURS 0124) Fee \$8.00

The focus of this course is the adult client experiencing minor alterations in oxygenation, perfusion, and fluid and electrolyte balance. Emphasis is on the client as a biopsychosocial human being who constantly interacts with his environment. This course provides the foundation for more complex nursing. The student will focus on the nursing process and integration of scientific principles from other disciplines.

*Prerequisites: TNSG 1203, 1405, BIO 2420, and PSY 2314.*  
 CB 998021 Lec 2 Lab 6, Cr 4

**TNSG 1409 ADULT CLIENT WITH MINOR ALTERATIONS IN HOMEOSTASIS II**  
 (Formerly TSC NURS 0134) Fee \$8.00

The focus of this course is the adult client experiencing minor alterations in regulatory, neurological, musculoskeletal, and gastrointestinal function. Emphasis is on the client as a biopsychosocial human being who constantly interacts with his environment. This is a basic nursing course which provides the foundation for more complex nursing. The student will concentrate on the nursing process and the integration of scientific principles from other disciplines.

*Prerequisite: TNSG 1203, 1405 and PSY 2314.*  
 CB 998021 Lec 2, Lab 6, Cr 4

**TNSG 1811 LVN TRANSITION**  
 (Formerly TSC NURS 0108)

This course is designed to assess and evaluate the Licensed Vocational Nurse's knowledge base in selected cognitive, affective, and psychomotor skills in nursing. The course also introduces nursing theory and skills not covered in a traditional vocational nursing program.

After successful completion of Nursing TNSG 1811, the student will receive credit for all Level I nursing courses (TNSG 1201, 1203, 1405, 1407, 1409) for a total of 16 semester hours credit. The students then advance to Level II enrolling in TNSG 2413 or 2415 in the summer as a sophomore nursing student.

*Prerequisite: High School Chemistry or CHEM 1311; BIO 2401, 2402, 2420, PSY 2314. Co-requisites: PSY 2301, and ENG 1301.*  
 CB 998021 Lec 4, Lab 12, Cr 8

**TNSG 2223 CONTEMPORARY ISSUES AND TRENDS**  
 (Formerly TSC NURS 0252)

This course is designed to assist the student in the transition from the role of student nurse to the role of graduate nurse. Emphasis is placed upon two of the five interrelated roles in nursing practice of the Associate Degree Nurse: manager of client care and member within the profession of nursing. Issues related to managing care for a group of clients are explored with clinical experience for this role provided in concurrent nursing course TNSG 2521. The role of member within the profession of nursing includes the expectations of nursing practice within the legal framework of the profession and the contemporary issues and trends facing nursing today and in the future.

*Prerequisite: TNSG 2413, 2415, 2417.*  
 CB 998021 Lec 2, Lab 0, Cr 2

**TNSG 2413 THE FAMILY IN PSYCHO/SOCIAL CRISIS**  
 (Formerly TSC NURS 0204) Fee \$8.00

The course is a study of adaptive and maladaptive coping patterns applied to the understanding of therapeutic communications skills, interpersonal relationships and other beginning skills utilized to meet the psycho/social needs of the client and his family. Development of self awareness and an accepting/supportive nurse-client relationship with other mental health care team members, while interacting with client and his family.

*Prerequisite: TNSG 1407, 1409, PSYC 2301*  
 CB 998021 Lec 2, Lab 6, Cr 4

**TNSG 2415 THE CHILDBEARING FAMILY**  
 (Formerly TSC NURS 0214) Fee \$8.00

This course covers care of the client and family during the childbearing experience, emphasizing health promotion, self-care and the normality of childbearing. Consideration of the scope, roles, issues, and ethical and legal aspects of maternity nursing stimulate the students to examine their personal values and possible value conflicts as they develop professional values. Human sexuality, reproductive choices, and sexually transmitted diseases

are presented. The nursing process is adapted to meet the needs of the client and their family during pregnancy, labor, delivery and postpartum periods, and to the newborn. The study of each of these periods begins with a present of normal physiologic adaptations. Identification of the teaching needs, nutritional requirements and pharmacological considerations during each part of the perinatal experience reinforce the healthiness of childbearing. The specific assessments and nursing interventions of maternity care are demonstrated and practiced. Risks and complications, both maternal and fetal/newborn, are considered as alternations in the healthy childbearing state.

*Prerequisites:* TNSG 1407, 1409, PSYC 2301  
CB 998021 *Lec 2, Lab 6, Cr 4*

**TNSG 2417 THE CHILDBEARING FAMILY**  
(Formerly TSC NURS 0224) *Fee \$8.00*

This course covers the care of the child-client and his family. Theories of growth and development in relation to the nursing care of the childbearing family, as well as the impact of illness and hospitalization on that family, are explored. The nursing process is utilized in meeting the basic human needs of the child and his family. Conditions commonly occurring in childhood and nursing interventions for these conditions are emphasized. A major focus of the course is health promotion for the child and his family. Opportunity is provided to care for the child and his family in a variety of settings.

*Prerequisites:* TNSG 1407, 1409, PSYC 2301  
CB 998021 *Lec 2, Lab 6, Cr 4*

**TNSG 2519 CLIENT/FAMILY WITH MAJOR ALTERATIONS IN HOMEOSTASIS I**  
(Formerly TSC NURS 0235) *Fee \$8.00*

The nursing process is utilized in structured health care settings to assist the client/family experiencing emergency situations and /or major alterations in urinary elimination, cellular function and regulatory mechanism in meeting basic human needs for the promotion, maintenance and/or restoration of health at any point along the wellness-illness continuum. In cooperation with community health care agencies, continuity of client care is provided. Increasingly complex nursing interventions, including nutritional and pharmacological components, are integrated throughout the course.

*Prerequisite:* TNSG 2413, 2415, 2417.  
CB 998021 *Lec 3, Lab 8, Cr 5*

**TNSG 2521 CLIENT/FAMILY WITH MAJOR ALTERATIONS IN HOMEOSTASIS II**  
(Formerly TSC NURS 0245) *Fee \$8.00*

The nursing process is utilized in structured health care settings to assist the client/family experiencing emergency situations and/or major alterations in oxygenation, perfusion, neurosensory perception and skill integrity related to thermal injury in meeting basic human needs for the promotion, maintenance and/or restoration of health at any point along the wellness-illness continuum. In co-operation with community health care agencies, continuity of client care is provided. Increasingly complex nursing intervention, including nutritional and pharmacological components, are integrated throughout the course. Students are given opportunity to practice some limited management skills.

*Prerequisite:* TNSG 2413, 2415, 2417.  
CB 998021 *Lec 3 Lab 8 Cr 5*

## VOCATIONAL NURSING (TVNU)

**TVNU 1201 SCIENCE FOR VOCATIONAL NURSING**  
(Formerly TSC VN 0102:01)

Normal Nutrition is one of the two segments of this course and is designed to introduce the scientific principles in basic nutrition, nutrient function in health and disease with emphasis on the food sources of nutrients, social aspects of nutrition, and importance of food nutrition. Microbiology is the second segment of this course; it introduces the student to the world of microorganisms with an emphasis on disease prevention and control programs that include community resources.

*Prerequisite:* Admission to the program.  
CB 997821 *Lec 2, Cr 2*

**TVNU 1204 NURSING SKILLS THEORY**  
(Formerly TSC VN 0107:01)

This course includes the nursing process, and medical terminology. The course is designed to introduce the vocational nursing student to a wide variety of nursing skills that range fro the simple to the complex. Emphasis is placed on the utilization of scientific principles to guide the student in developing competency in the performance for these skills.

CB 997821 *Lec 2, Lab 10, Cr 2*

**TVNU 1207 GERIATRICS**  
(Formerly TSC VN 0112:01)

This course is designed to introduce the vocational nursing student to the special needs of the geriatric patient. Emphasis

will be placed on the use of the nursing process, an understanding of the pathological variations from normal functioning, and application of the principles from the biological, physical, social, and behavioral sciences.

*Prerequisite:* Admission to the program.  
CB 997821 *Lec 2, Cr 1*

**TVNU 1261 CLINICAL PRACTICUM III**  
(New course)

This course introduces the student to the clinical aspect of the care of the pediatric patient and the needs and support of the family. Includes application of the nursing process. Concurrent with TVNU 1310.

*Prerequisite:* Successful completion of the first semester. Enrollment in corresponding lecture classes.  
CB 997821 *Lec 7, Cr 1*

**TVNU 1269 CLINICAL PRACTICUM II**  
(New course)

This course is designed for an introduction to maternity and newborn nursing care with practical experience in the areas of labor and delivery room, postpartum care and care of the newborn. Teaching the new mother and father is incorporated in this practicum.

*Prerequisite:* Successful completion of the first semester. Enrollment in corresponding lecture classes.  
CB 997821 *Lec 7, Cr 1*

**TVNU 1302 FUNDAMENTALS OF NURSING (P & V, G & D, M.H.)**

(Formerly TSC VN 0103:01)  
This course is designed to guide the vocational nursing student in self assessment for necessary personal and professional adjustments that are essential in developing as a valuable member of the health care team. The course provides basic theories and principles of human growth and development, techniques for effective communication skills, and concepts to assist the student in understanding positive mental health practices.

*Prerequisite:* Admission to the program.  
CB 997821 *Lec 3, Cr 3*

**TVNU 1308 MATERNAL AND NEWBORN**  
(Formerly TSC VN 0105:01)

This course is designed to introduce the student to concepts related to the family unit. Course content will include physiological changes associated to pregnancy, fetal development, prenatal care, nursing care during labor and delivery, post partum, and care of the newborn infant. Use of the nursing process will be integrated throughout.

*Prerequisite:* Successful achievement of the Fall Semester.  
CB 997821 *Lec 3, Lab 7, Cr 5*



**TVNU 1310 PEDIATRIC NURSING**  
(Formerly TSC VN 0115:01)

This course introduces the student to the special needs of the child and the family. Emphasis will be placed on the use of the nursing process along with an understanding of pathophysiological variations, and the application of principles from the biological, physical, social, and behavioral sciences.

*Prerequisite:* Successful achievement of the Fall Semester.  
CB 997821 Lec 3, Lab 7, Cr 5

**TVNU 1312 PHARMACOLOGY**  
(Formerly TSC VN 0123:01)

This course is designed to present information to assist the student in developing beginning understanding of drug forms, effects by classification, current drug therapy, accurate calculation of dosage, and principles of medication preparation and safe administration.

*Prerequisite:* Successful achievement of the Fall Semester.  
CB 997821 Lec 3, Cr 3

**TVNU 1364 CLINICAL PRACTICUM IV**  
(New course)

This course is designed to allow the student to gain experience in nursing care. Knowledge and application of the nursing process are utilized in providing direct patient care in the clinical facility. Administration of medications will be emphasized. Concurrent with TVNU 1513.

*Prerequisite:* Successful completion of the first semester. Enrollment in corresponding lecture classes.  
CB 997821 Lab 11, Cr 3

**TVNU 1365 CLINICAL PRACTICUM I**  
(New course)

This course is designed with an introduction to basic patient care in the clinical facility. The student has the opportunity to apply nursing procedures in the clinical setting. Application of the nursing process is emphasized.

*Prerequisite:* Admission to the program.  
CB 997821 Lab 12, Cr 3

**TVNU 1366 CLINICAL PRACTICUM V**  
(New course)

This course provides the foundation for more complex nursing utilizing the nursing process. The student is expected to assess, plan and correlate nursing care according to the individual patients. Concurrent with TVNU 1315.

*Prerequisite:* Successful completion of the Fall and Spring semester. Enrollment in corresponding lecture classes.  
CB 997821 Lab 12, Cr 3

**TVNU 1368 CLINICAL PRACTICUM VI**  
(New course)

This course is designed to integrate the nursing skills and knowledge from the previous semesters. The nursing process is utilized in more complex nursing situations.

*Prerequisite:* Successful completion of Fall, Spring and Summer semester. Enrollment in corresponding lecture classes.  
CB 997821 Lab 28, Cr 3

**TVNU 1403 ANATOMY AND PHYSIOLOGY**  
(Formerly TSC VN 0104:01)

This course is designed to provide the vocational nursing student with introductory level information of the structure and function of the human body as a basis to later give understanding of disease processes and their effect on the human body.

*Prerequisite:* Admission to the program.  
CB 997821 Lec 4, Cr 4

**TVNU 1513 MEDICAL SURGICAL NURSING I**  
(Formerly TSC VN 0108:01)

This course is designed to introduce the student to concepts and theories associated with the nursing care of the adult patient with a major focus on selected pathophysiological conditions and modalities of treatment, including the impact of illness, cultural influences, and the incorporation of the family in implementation of the nursing process.

*Prerequisite:* Successful achievement of the Fall Semester.  
CB 997821 Lec 2, Lab 11, Cr 8

### Summer Sessions

**TVNU 1315 ADVANCED MEDICAL-SURGICAL NURSING I**  
(Formerly TSC VN 0106:01)

This course is a continuation of Medical-Surgical Nursing. It is designed to familiarize the student with selected disorders that affect the nervous, sensory, and endocrine systems. Emphasis is placed on knowledge deficits for the patient and his family and the need for patient teaching as an important aspect of comprehensive care and respective compliance.

*Prerequisite:* A grade of C or above in TVNU 1513.  
CB 997821 Lec 3, Lab 12, Cr 6

**TVNU 1317 ADVANCED MEDICAL-SURGICAL NURSING II**  
(Formerly TSC VN 0116:01)

This course is designed to assist the student in developing a beginning understanding of psychological disorders with emphasis on recognizing inappropriate human behavior and approaches for therapeutic nursing

interventions. This course will include a separate segment that is designed to enable the student to develop a beginning understanding of the scientific principles and techniques in intravenous therapy and establish a foundation that will further enable the student to develop competence in performance of skills related to I.V. infusion therapy.

CB 997821

Lec 3, Lab 28, Cr 6

## PHILOSOPHY (PHIL)

Philosophy courses are not open to students enrolled in Developmental Reading or Developmental Writing.

**PHIL 1301 INTRODUCTION TO PHILOSOPHY**  
(Formerly TSC PHIL 0213)

Introduction to Philosophy is designed to acquaint students with the range of topics within philosophy and to provide them with general notions of the history of ideas. More specifically, the course will stress critical thinking as the foundation for all philosophical analysis. Topics include epistemology, metaphysics, ethics, and logic.

CB 380105135

Lec 3, Cr 3

**PHIL 1316 HISTORY OF JUDAISM**  
(Formerly REL 0103)

A nonsectarian, historical study of the Hebrew people, their literature, and their religious concepts from the earliest known period to the time of Christ. Major personalities of the Old Testament and the continuity of Hebrew history are examined.

CB 3802015235

Lec 3, Cr 3

**PHIL 1317 HISTORY OF CHRISTIANITY**  
(Formerly REL 0113)

The Christian movement in the Mediterranean world during the first century. The life of Christ, the beginning of the Christian church, the life and letters of Paul, and the general development of the New Testament, from a nonsectarian historical viewpoint.

CB 3802015235

Lec 3, Cr 3

**PHIL 2306 INTRODUCTION TO ETHICS**  
(Formerly TSC PHIL 0223)

Analysis of basic principles and methods of evaluating human behavior, including critical examination of both classical and contemporary ethical theories, with emphasis upon their application to personal decision making and contemporary moral issues.

CB 380115335

Lec 3, Cr 3

## PHYSICS (PHYS)

**PHYS 1101 GENERAL PHYSICS LABORATORY I**  
(Formerly TSC PHYS 0111) Fee \$8.00  
Laboratory experiments in classical mechanics, heat, and wave motion.  
Prerequisite or concurrent enrollment: PHYS 1301  
CB 4008015339 Lab 4, Cr 1

**PHYS 1102 GENERAL PHYSICS LABORATORY II**  
(Formerly TSC PHYS 0121) Fee \$8.00  
Laboratory experiments in electricity, magnetism, light, and modern physics.  
Prerequisite or concurrent enrollment: PHYS 1302  
CB 4008015339 Lab 4, Cr 1

**PHYS 1301 GENERAL PHYSICS I**  
(Formerly TSC PHYS 0113)  
Fundamentals of classical mechanics, heat and thermodynamics, vibratory motion, waves and sound.  
Prerequisite: High school trigonometry or credit for MATH 1314 and credit or registration for MATH 1316.  
CB 4008015339 Lec 3, Cr 3

**PHYS 1302 GENERAL PHYSICS II**  
(Formerly TSC PHYS 0123)  
Fundamentals of electricity, magnetism, electromagnetic interaction, light, and modern physics.  
Prerequisite: PHYS 1301  
CB 4008015339 Lec 3, Cr 3

**PHYS 1410 APPLIED PHYSICS**  
(Formerly TSC PHYS 0134) Fee \$8.00  
A course designed primarily for the technology programs to explain the basic concepts of the properties of matter, mechanics, and heat, with emphasis on applications and problem solving.  
Prerequisite: One year of high school algebra.  
CB 4008015239 Lec 3, Lab 4, Cr 4

**PHYS 1415 PHYSICAL SCIENCE I**  
(Formerly TSC PSCI 0114) Fee \$8.00  
A laboratory course in the physical sciences for non-science majors. Topics are selected from astronomy, chemistry, and mechanics to illustrate the philosophy and methods of science.  
CB 4001015139 Lec 3, Lab 3, Cr 4

**PHYS 1417 PHYSICAL SCIENCE II**  
(Formerly TSC PSCI 0124) Fee \$8.00  
A laboratory course in the physical sciences for non-science majors. Topics are selected from geology, meteorology, electricity and magnetism, and light to illustrate the philosophy and methods of science.  
CB 4001015139 Lec 3, Lab 3, Cr 4

**PHYS 2125 ENGINEERING PHYSICS LABORATORY I**  
(Formerly TSC PHYS 0201) Fee \$8.00  
Laboratory experiments in classical mechanics, heat, and vibratory motion.  
Prerequisite or concurrent enrollment: PHYS 2325  
CB 4008015439 Lab 4, Cr 1

**PHYS 2126 ENGINEERING PHYSICS LABORATORY II**  
(Formerly TSC PHYS 0211) Fee \$8.00  
Laboratory experiments in electricity, magnetism, light, and modern physics.  
Prerequisite or concurrent enrollment: PHYS 2326  
CB 4008015439 Lab 4, Cr 1  
Engineering Physics I  
(Formerly TSC PHYS 0203)

Introductory classical mechanics, including vibrations and waves, and heat and thermodynamics.  
Prerequisite: Credit or registration for MATH 2313.  
CB 4008015439 Lec 3, Cr 3

**PHYS 2326 ENGINEERING PHYSICS II**  
(Formerly TSC PHYS 0213)  
Introductory electro-magnetic theory and applications, electro-magnetic waves, solid state and modern physics.  
Prerequisite: PHYS 2325 and credit or registration for MATH 2314.  
CB 4008015439 Lec 3, Cr 3

## PSYCHOLOGY (PSYC)

**PSYC 1301 CAREER PLANNING**  
(Formerly TSC PSY 1013)  
Introduction of the components of career choice. Focus on assessment of personal skills and values and development of career research skills. Includes academic planning to achieve career goals and job hunting strategies.  
CB 4201995140 Lec 3, Cr 3

**PSYC 2301 INTRODUCTION TO PSYCHOLOGY**  
(Formerly TSC PSY 0213)  
A survey of the scope and methods of psychology; cultivation of a scientific attitude toward behavior.  
CB 4201015140 Lec 3, Cr 3

**PSYC 2302 APPLIED PSYCHOLOGY**  
(Formerly TSC PSY 1103)  
A survey of the application of psychological knowledge and methods in business, industry, medical assistance, law enforcement, and government work.  
CB 4201015240 Lec 3, Cr 3

**PSYC 2308 CHILD PSYCHOLOGY**  
(Formerly TSC PSY 0263)  
The study of the relationship of physical, emotional and mental factors in growth of the human personality. Basic principles of psychology with emphasis on the

importance of the first 10 years of patterning adult behavior.  
CB 4207015140 Lec 3, Cr 3

**PSYC 2314 HUMAN GROWTH AND DEVELOPMENT**  
(Formerly TSC PSY 0253)  
The study of the physical, mental, and emotional characteristics of the individual from infancy through maturity.  
CB 4207015240 Lec 3, Cr 3

**PSYC 2315 PSYCHOLOGY OF PERSONAL ADJUSTMENT**  
(Formerly TSC PSY 0223)  
A study of psychological adjustment, personal and social.  
Prerequisite: Three hours of PSYC and/or consent of the instructor.  
CB 4216105140 Lec 3, Cr 3

**PSYC 2316 PSYCHOLOGY OF PERSONALITY**  
(Formerly TSC PSY 0233)  
A study of major factors and conditions related to successful human adjustments, including parent-child relations, personality defense mechanisms, psychoanalytic concepts, anxiety states, and methods of personality measurement.  
Prerequisite: PSYC 2301.  
CB 4210015240 Lec 3, Cr 3

**PSYC 2317 STATISTICS OF PSYCHOLOGY, SOCIOLOGY AND EDUCATION**  
(Formerly TSC PSY 0243)  
Measures of central tendency and variability; statistical inference; correlation and regression.  
Prerequisite: PSYC 2301 or SOCI 1301.  
CB 4215015140 Lec 3, Cr 3

**PSYC 2319 SOCIAL PSYCHOLOGY**  
(Formerly TSC PSY 0273)  
The study of individuals' behavior in social environments.  
Prerequisite: Three hours of PSYC or SOCI.  
CB 4216015140 Lec 3, Cr 3

**PSYC 2370 EXPERIMENTAL PSYCHOLOGY**  
(Formerly TSC PSY 0293)  
Theoretical and practical problems of research methods and techniques of reporting research.  
Prerequisite: PSYC 2301.  
CB 4208019140 Lec 3, Cr 3

**PSYC 3301 RESEARCH METHODS IN PSYCHOLOGY**  
(Formerly UTPAB PSY 3301)  
Quantitative research methods and techniques used in contemporary psychological research; instruction in the steps involved in the scientific approach to solving problems and in applying the experimental method in the laboratory.  
CB 420801 Lec 3, Cr 3

**PSYC 3305 BEHAVIOR MANAGEMENT AND MODIFICATION**

(Formerly UTPAB PSY 3305)

An overview of behavioral control techniques for remediating and preventing problem behavior and for the encouraging normal behavior. Contrasting therapeutic approaches will be examined as well as the ethics of behavior control and the effect of behaviorism on 20th-century people.

Lec 3, Cr 3

CB 420201

**PSYC 3325 PSYCHOLOGY OF ADJUSTMENT**

(Formerly UTPAB PSY 3325)

This course studies the normal personality and the influences which foster effective adjustment.

Prerequisite: 6 hours of basic psychology.

Lec 3, Cr 3

CB 420101

**PSYC 3326 CONTEMPORARY ISSUES IN SOCIAL PSYCHOLOGY**

(Formerly UTPAB PSY 3326)

A review and discussion of recent issues and advances in social psychology. Focuses on contemporary concerns with regard to both theory and research in the laboratory and the community. May be counted as PSYC 3326 or SOCI 3326.

Prerequisite: PSYC 2319.

Lec 3, Cr 3

CB 421601

**PSYC 3343 TESTS AND MEASUREMENTS IN PSYCHOLOGY**

(Formerly UTPAB PSY 3343)

Concentrates on the theoretical aspects of constructing tests and on extensive surveys of the major types of standardized tests used in industry, schools and mental health settings.

Prerequisite: 6 hours of basic psychology, 3 hours of behavioral statistics.

Lec 3, Cr 3

CB 421301

**PSYC 4312 FEMALE AND MALE**

(Formerly UTPAB PSY 4311 or SOC 4311)

An examination of the physiological, psychological and sociological influences of sex role development, including such topics as human liberation, sexual behavior, child rearing practices and career opportunities. May not be repeated for credit.

Prerequisite: 9 hours of psychology and/or sociology.

Lec 3, Cr 3

CB 421601

**PSYC 4313 ABNORMAL PSYCHOLOGY**

(Formerly UTPAB PSY 4313)

Analysis, etiology and incidence of neurosis and psychosis, mental hygiene problems and adjustive behavior.

Prerequisite: 6 hours of basic psychology.

Lec 3, Cr 3

CB 420101

**PSYC 4318 THEORIES OF LEARNING**

(Formerly UTPAB PSY 4318)

A historical review of major theoretical positions in animal and human learning.

Prerequisite: 6 hours of basic psychology or consent of the instructor.

CB 420101

Lec 3, Cr 3

**PSYC 4319 COGNITIVE PROCESSES**

(Formerly UTPAB PSY 4319)

The experimental study of conscious, voluntary mental processes. Topics include recognition of written words and other patterns, recognition of speech, and comprehension of language; limits on ability to divide attention, concept forming, problems solving, and reasoning.

CB 420301

Lec 3, Cr 3

**PSYC 4333 THEORIES OF PERSONALITY**

(Formerly UTPAB PSY 4333)

Emphasis is on the major theories of personality which attempt to explain the psychological nature and behavior of people. Some consideration is given to the process involved in developing a theory of personality.

Prerequisite: 6 hours of basic psychology.

CB 421001

Lec 3, Cr 3

**PSYC 4363 SYSTEMS AND THEORIES IN PSYCHOLOGY**

(Formerly UTPAB PSY 4363)

A history of the development of psychology and a study of theories in psychology. Emphasis will be on comparing and contrasting theories in psychology.

CB 420101

Lec 3, Cr 3

**PSYC 5313 ABNORMAL PSYCHOLOGY**

(Formerly UTPAB PSY 5313)

Analysis, etiology, and incidence of neurosis and psychosis; mental hygiene problems, and adjustive behavior. A research project and supporting specialized readings will be emphasized. Students may not receive credit for both PSYC 4313 and PSYC 5313.

Prerequisite: 6 semester hours of psychology.

CB 420101

Lec 3, Cr 3

**PSYC 5318 LEARNING THEORIES**

(Formerly UTPAB PSY 5318)

A review of the major theories of learning based on animal and human research. Students may not receive credit for both PSYC 4318 and PSYC 5318.

Prerequisite: 6 hours of psychology or consent of the instructor.

CB 420101

Lec 3, Cr 3

**PSYC 5333 THEORIES OF PERSONALITY**

(Formerly UTPAB PSY 5333)

A study of the development, structure, and assessment of personality with a consideration of the major theoretical

attempts to account for the psychological nature and the behavior of man. A research project and supporting specialized readings will be emphasized. Students may not receive credit for both PSYC 4333 and PSYC 5333.

Prerequisite: 6 semester hours of psychology.

CB 420101

Lec 3, Cr 3

## RADIOLOGIC TECHNOLOGY (TRAD)

**TRAD 1190 CLINICAL APPLICATION**

(Formerly TSC RT 0131)

Students will spend 24 hours per week in practicing common radiographic procedures and specific procedures described in classroom lectures. Radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotation of duties will be performed as directed by hospital staff and/or the program director.

Prerequisite: TRAD 1310, 1405, BIOL 2401 with a "C" or better.

CB 998033

CI 24, Cr 2

**TRAD 1193 CLINICAL APPLICATION**

(Formerly TSC RT 0141)

Students will spend 24 hours per week in practicing common radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotation of duties will be performed as directed by hospital staff and/or the program director.

Prerequisite: TRAD 1190 with a "C" or better.

CB 998033

CI 24 Cr 1

**TRAD 1290 CLINICAL APPLICATION**

(Formerly TSC RT 0182)

Students will spend 24 hours per week practicing common radiographic procedures and specific procedures described in classroom lecture. Radiographic positioning and technique will be emphasized. Students will learn film critique. Selected rotation of duties will be performed as directed by the hospital staff and/or the program director.

Prerequisite: TRAD 1193 with a grade of "C" or better.

CB 998033

CI 24, Cr 2

**TRAD 1310 INTRODUCTION TO RADIOLOGIC TECHNOLOGY**

(Formerly TSC RT 0123)

This course introduced diagnostic roentgenology principles. Emphasis will be on darkroom chemistry and procedures. Elementary radiation protection will be included. Nursing procedures pertinent to radiology and the role of the radiographer in emergency situations will be studied.

CB 998033

Lec 3, Cr 3

**TRAD 1320 RADIOGRAPHIC FILM EVALUATION AND PATHOLOGY**

(Formerly TSC RT 0173)

Students will be instructed in the techniques of evaluating the quality of radiographs. This course also gives an understanding of various pathological conditions of the body and their effects on the disease processes to enable the student to produce the best diagnostic radiographs and to insure effective patient care to the seriously ill or trauma patients. *Prerequisite:* TRAD 1193 with a grade "C" or better. CB 998033 Lec 3, Cr 3

**TRAD 1405 BASIC RADIOGRAPHIC PROCEDURES**

(Formerly TSC RT 0114) Fee \$8.00

This course acquaints the student technologists with common diagnostic procedures in radiology. Standard radiographic projections are discussed and demonstrated. Basic and advanced positioning is included. Studies including contrast media are considered. CB 998033 Lec 3, Lab 3, Cr 3

**TRAD 1415 RADIOLOGIC TECHNIQUES**

(Formerly TSC RT 0154) Fee \$8.00

This course provides advanced study in radiographic exposure techniques. Emphasis will be placed on the relationship of variable factors, such as milliamperage, kilovoltage, exposure time, and distance on film density and contrast. Students will be introduced to imaging methods and specialized equipment. *Prerequisite:* TRAD 1193 with a final grade of "C" or better. CB 998033 Lec 3, Lab 3, Cr 4

**TRAD 1425 X-RAY PHYSICS I**

(Formerly TSC RT 0164) Fee \$8.00

This course extensively studies atomic structure. In addition, it covers magnetism, electromagnetism, electricity, motors, generators, transformers, rectification of electricity, the principles of image amplification, construction of X-ray tubes and methods of radiation detection and measurement. Basic radiation physics and preventive maintenance of X-ray machines are included. *Prerequisite:* TRAD 1193 with a grade of "C" or better. CB 998033 Lec 3, Lab 3, Cr 4

**TRAD 2190 CLINICAL APPLICATION**

(Formerly TSC RT 0241)

Students will spend 24 hours per week practicing common radiographic procedures and specific procedures described in classroom lecture. Radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotations of duties

will be given the opportunity to perform as directed by hospital staff and/or the program director.

*Prerequisite:* TRAD 2290, 2310, and 2320, with a grade of "C" or better. CB 998033 CI 24, Cr 2

**TRAD 2193 CLINICAL APPLICATION**

(Formerly TSC RT 0251)

Students will spend 24 hours per week practicing common radiographic procedures and specific procedures described in classroom lecture. Radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotation of duties will be performed as directed by hospital staff and/or the program director. *Prerequisite:* TRAD 2190 with a grade of "C" or better. CB 998033 CI 24, Cr 2

**TRAD 2210 RADIOLOGIC TECHNOLOGY I**

(Formerly TSC RT 0272)

This course covers the principles learned in physics, radiation protection, special procedures, contrast media, anatomy and physiology, and medical terminology. A battery of tests is given to familiarize students with reading and comprehending test questions. This testing process enables students to find their weaknesses and to strengthen these weaknesses. *Prerequisite:* TRAD 2293 with a grade of "C" or better. CB 998033 Lec 2, Cr 2

**TRAD 2220 RADIOLOGIC TECHNOLOGY II**

(Formerly TSC RT 0282)

This course deals with the principles learned in the areas of Radiographic Procedures and Radiological Techniques. A battery of tests is given to familiarize students with reading and comprehending test questions. This testing process enables students to find their weaknesses and to strengthen these weaknesses. *Prerequisite:* TRAD 2293 with a grade of "C" or better. CB 998033 Lec 2, Cr 2

**TRAD 2290 CLINICAL APPLICATION**

(Formerly TSC RT 0232)

Students will spend 24 hours per week practicing common radiographic procedures and specific procedures described in classroom lecture. Radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotations of duties will be performed as directed by hospital staff and/or the program director. *Prerequisite:* TRAD 1290, 1320, 1415, 1425 and BIOL 2402 with a grade of "C" or better. CB 998033 CI 24, Cr 2

**TRAD 2293 CLINICAL APPLICATION**  
(Formerly TSC RT 0262)

Students will spend 24 hours per week practicing common radiographic procedures and specific procedures described in classroom lecture. Radiographic positioning and technique will be emphasized. Students will learn film critique. Scheduled rotation of duties will be performed as directed by hospital staff and/or the program director. *Prerequisite:* TRAD 2193 with a grade of "C" or better. CB 998033 CI 24, Cr 1

**TRAD 2310 ADVANCED RADIOLOGIC PROCEDURES**

(Formerly TSC RT 0213)

This is a continuation of TRAD 1405 with emphasis on advanced roentgenology. Included here are complex examinations usually performed less frequently than those in Part I, such as optic foramen, mastoid, etc. *Prerequisite:* TRAD 1290, 1320, 1415, 1425, and BIOL 2402 with a grade of "C" or better. CB 998033 Lec 3, Cr 1

**TRAD 2320 RADIATION PROTECTION**

(Formerly TSC RT 0223)

A study of potential biological hazards of X-radiation. Emphasis on protective measures and safe techniques which can be used to eliminate unnecessary exposure to patients and personnel, along with principles of detection instruments and design recommendations for machines which produce radiation. *Prerequisite:* TRAD 1290, 1320, 1415, 1425, and BIOL 2402 with a grade of "C" or better. CB 998033 Lec 3, Cr 1

## READING (READ)

Students intending to pursue a degree are required to demonstrate a 10th grade reading ability before taking some academic transfer courses. Reading ability may be demonstrated by performance on the assessment test, passing the Reading portion of TASP, or a passing grade and achieving exit levels in READ 0320, 0321, or 0322. Reading 0320 or 0321 is required concurrently with English 0320 or 0321 unless the student has already achieved 10th grade reading skills.

**READ 0100, DEVELOPMENTAL READING LAB 0101, 0102, 0103**

(Formerly READ 1101)

Developmental course. Continued practice in reading skills for students who have failed the reading portion of the TASP test but who are not qualified to take READ 0320, READ 0321, or READ 0322. Students will work individually on exercises designed to improve vocabulary

comprehension, and critical thinking skills. May be repeated as READ 0101, 0102, 0103. Graded satisfactory or unsatisfactory.

CB 3201035535 Lab 2, Cr 1

### READ 0320 COLLEGE READING I

(Formerly TSC READ 0103)

A developmental course designed for students needing improvement in their reading skills. Emphasis is placed on developing necessary vocabulary and comprehension skills to equip the students for their college studies. Unless the student has achieved a 10th grade reading level or passed the Reading portion of TASP, the student must take the next Reading course, READ 0321.

*Prerequisite:* A grade of A or B in ESL or placement based on assessment scores.

CB 3201035535 Lec 3, Cr 3

### READ 0321 COLLEGE READING II

(Formerly TSC READ 0113)

A developmental course designed as a continuation of READ 0320 (College Reading I) and/or for those students who need to improve vocabulary and comprehension skills to succeed in college courses. Unless the student has achieved a 10th grade reading level or passed the Reading portion of TASP, the student must take the next Reading course, READ 0322.

*Prerequisite:* A grade of A, B, or C in READ 0320 or placement based on assessment scores.

CB 3201035535 Lec 3, Cr 3

### READ 0322 COLLEGE READING III

(Formerly TSC READ 0123)

Development course designed to advance reading skill beyond those required for success in READ 0321, concentrating on comprehension and critical thinking. If the student fails the Reading portion of TASP, the student must take READ 0100.

*Prerequisite:* A grade of A, B, or C in READ 0321 or placement based on assessment scores.

CB 3201035535 Lec 3, Cr 3

### READ 3313 INTRODUCTION TO READING IN THE SECONDARY SCHOOL

(Formerly UTPAB RDNG 3313)

This course will offer the teacher of secondary reading the opportunity to comply with the essential elements of reading grades seven through twelve, to include work attack skills, vocabulary development, comprehensive skills, and reading skills applied to a variety of practical situations. Application of the skills to the teaching of reading in the secondary classroom will also be emphasized.

CB 131315 Lec 3, Cr 3

### READ 3323 DEVELOPMENTAL READING IN THE ELEMENTARY SCHOOL

(Formerly UTPAB EDCI 3323)

The nature of the reading process, beginning reading, appropriate strategies for the acquisition of basic reading skills is the focus of this course. Provisions will be made for the teaching of reading to children who are culturally and linguistically diverse. Students will spend 15 clock hours of field experiences, working with children in the actual elementary classroom setting.

CB 131315 Lec 3, Cr 3

### READ 3326 READING ACROSS THE CURRICULUM CONTENT AREAS

(Formerly UTPAB RDNG 3326)

Analysis of research, study and library skills; examination of reading as applied to the various content areas with focus on effective reading processes across text types and subject-specific vocabulary.

CB 131315 Lec 3, Cr 3

### READ 3327 READING AND THE EXCEPTIONAL CHILD

(Formerly UTPAB RDNG 3327)

Examination of the affective, cognitive, cultural and linguistic correlates of reading disabilities; examination of the characteristics of gifted readers; analysis of learner reading styles across the modalities of auditory, visual, kinesthetic and tactile; analysis of the principles of assessment and relationships to both remediation and enrichment.

CB 131315 Lec 3, Cr 3

### READ 3328 READING ACQUISITION

(Formerly UTPAB RDNG 3328)

Psychological, sociological, cultural, physical and linguistic factors related to reading acquisition; analysis of scope and sequence of word recognition processes; sight word vocabulary, phonics, structural, morphemics and contextual analysis; study of the organizational and management parameters of reading instruction at the primary level.

CB 131315 Lec 3, Cr 3

### READ 3329 CORRECTING READING PROBLEMS

(Formerly UTPAB EDCI 3329)

This course requires the student to analyze reading difficulties encountered during regular classroom instruction, with emphasis on prevention or early correction. It includes an appraisal of materials and techniques useful to classroom teachers.

*Prerequisite:* READ 3323.

CB 131315 Lec 3, Cr 3

### READ 3331 READING AND WHOLE LANGUAGE LEARNING

(Formerly UTPAB RDNG 3331)

Reading as an integral part of the language arts process; study of the relationship between listening, speaking, reading and writing.

CB 131315 Lec 3, Cr 3

### READ 3351 LITERATURE FOR YOUNG ADULTS

(Formerly UTPAB EDCI 3351)

Emphasis is on the reading and evaluation of literature written for young adults (middle, junior and senior high school students). The selection and reading of a variety of literary genre for the young adult that encompasses literature reflecting cultural, ethnic, and social diversity within a multicultural society will be included.

CB 131315 Lec 3, Cr 3

### READ 4351 DEVELOPMENTAL READING IN SECONDARY SCHOOLS

(Formerly UTPAB EDCI 4351)

This course requires students to analyze the developmental nature of the reading process for students in secondary schools within a multicultural society. Students will be required to apply the appropriate reading strategies to teaching in the various content areas in secondary schools.

CB 131315 Lec 3, Cr 3

### READ 4367 TEACHING READING TO CHILDREN WITH LIMITED PROFICIENCY IN ENGLISH

(Formerly UTPAB EDCI 4367)

This course offers the student the opportunity to develop knowledge and instructional strategies for teaching reading to students of diverse cultural/linguistic backgrounds. Special emphasis will be placed on developing oral language proficiency as a prerequisite skill to reading and on instructional strategies designed specifically to meet the needs of such learners.

CB 131315 Lec 3, Cr 3

### READ 4369 READING PRACTICUM

(Formerly UTPAB ED 4369)

Student must possess knowledge and skills from prerequisite courses in the reading specialization program to (1) administer group diagnostic tools and use results to organize the class for effective reading instruction, (2) use individual diagnostic techniques appropriate for classroom instruction, (3) use sound classroom management and organizational techniques in teaching reading efficiently, and (4) use appropriate reading instructional strategies in teaching individual learners effectively.

*Prerequisite:* Departmental Approval Required.

CB 131315 Lec 3, Cr 3

**READ 5313 READING TESTS***(Formerly UTPAB ED 5313)*

A major function of this course is to help graduate students develop competencies in the selection, administration, scoring and interpretation of standardized tests, with particular emphasis upon their application to reading instruction. Special emphasis will also be given to the development and use of informal evaluative instruments to meet particular reading needs of students.

CB 131315

Lec 3, Cr 3

**READ 5351 TEACHING READING TO THE SECONDARY STUDENT***(Formerly UTPAB ED 5351)*

The relation of reading ability to academic achievement, procedures for teaching reading skills needed in content area reading, and reading difficulties encountered by secondary students are included in this course. Students will have the opportunity to use diagnostic tools and techniques to determine reading needs of secondary students and will develop reading-learning activities to meet those needs. Credit will not be given if READ 4351 has been taken.

CB 131315

Lec 3, Cr 3

**READ 6308 FOUNDATIONS OF READING INSTRUCTION***(Formerly UTPAB ED 6308)*

This course places major emphasis on the nature of the reading process and the essential components of a systematic, sequential program for developmental reading instruction, various approaches for teaching reading will be scrutinized and analyzed.

*Prerequisite: READ 3323 or admission by placement test.*

CB 131315

Lec 3, Cr 3

**READ 6309 TOPICS IN READING***(Formerly UTPAB ED 6309)*

This course is concerned primarily with innovations and current issues in reading instruction. Trainees will select topics of particular interest and concern to them for intensive study. Experiences of the trainee may include action research, working with classroom teachers and other adults in the school community to enhance the reading program. May be repeated once, when emphasis is on study in resource areas or professional areas related to the field of reading.

CB 131205

Lec 3, Cr 3

**READ 6310 CHILD AND ADOLESCENT LITERATURE***(Formerly UTPAB ED 6310)*

This course is designed to help the trainee gain competence in selecting and recommending literature for children and

adolescents and providing leadership and guidance to help student s develop maturity in reading. The trainees will be provided with experiences which will enable them to locate and select appropriate literature for students and to apply appropriate strategies for stimulating voluntary participation and continuous growth in independent reading.

CB 131315

Lec 3, Cr 3

**READ 6323 PROBLEMS IN THE TEACHING OF READING***(Formerly UTPAB ED 6323)*

This course is concerned with analyzing and prescribing materials and techniques for reading instruction to meet common reading problems, intergrating reading instruction with other facets of communication, relating reading instruction to sociocultural and linguistic characteristics of the learner. Recreational reading, grouping, content area reading and other problems are among those considered.

*Prerequisite: READ 6308*

CB 131315

Lec 3, Cr 3

**READ 6325 PRACTICUM IN READING INSTRUCTION***(Formerly UTPAB ED 6325)*

Supervised experience in working with individual children who are having reading difficulties.

*Prerequisite: Departmental Approval Required.*

CB 131315

Lec 3, Cr 3

**READ 6329 DIAGNOSTIC TEACHING OF READING***(Formerly UTPAB ED 6329)*

This course is designed to help students gain competency in diagnosing reading behavior and in prescribing appropriate diagnostic materials and techniques. Students will also receive guidance on making recommendations for reading instruction on the basis of such diagnosis.

*Prerequisite: READ 6323*

CB 131315

Lec 3, Cr 3

**RETAIL MANAGEMENT****(TRLM)****TRLM 1301 RETAILING***(Formerly TSC RM 0123)*

A study in the fundamental principles for success in the field of retailing. A practical look at choosing a location, store design and layout, organizational structure, supervision, price setting and sales promotion.

CB 995426

Lec 3, Cr 3

**TRLM 1305 MERCHANDISING/BUYING***(Formerly TSC RM 0263)*

A look into the skills required by the merchandiser in the framework of retailing. To merchandise is to plan, perform and plan as a merchandiser calls for knowledge and expertise of every phase in the buying and selling of goods at a profit.

CB 995426

Lec 3, Cr 3

**TRLM 2301 ADVERTISING AND SALES PROMOTION***(Formerly TSC RM 0243)*

A look into the exciting business of sales and image promotions. An exposure to the fundamentals of advertising, public relations, publicity, personal selling, and sales promotion. A basic understanding of what is needed to plan, execute, and evaluate sales promotion.

CB 995426

Lec 3, Cr 3

**TRLM 2315 INTRODUCTION TO SMALL BUSINESS MANAGEMENT***(Formerly TSC RM 0283)*

This study emphasizes those aspects of management that are uniquely important to small firms. It is designed to develop an understanding of the economic and social environment within which small concerns function. Also covered is the rapid growth of small business opportunity and problems in the franchising field as well as cases which provide current and applicable situations for analysis and decision making.

CB 995426

Lec 3, Cr 3

**RESPIRATORY THERAPY (TRES)****TRES 1110 RESPIRATORY CARE SEMINAR***(Formerly TSC RTT 0171)*

Provides readings and discussion of current issues and trends in respiratory care focused on the entry level of practice. A comprehensive assessment of entry level competence will be made. This course meets in summer session and requires three class hours per week for five and one-half weeks.

*Prerequisite: TRES 1293*

CB 998025

Lec 3, Cr 3

**TRES 1120 PATHOPHYSIOLOGY IN RESPIRATORY CARE II***(Formerly TSC RTT 0221)*

Continues the study of pulmonary diseases with additional emphasis on emergency thoracic disorders and cardiovascular diseases. This course meets in summer session and requires three class hours per week for five and one-half weeks.

*Prerequisite: TRES 1220*

998025 Lec 3, Cr 1

**TRES 1190 INTRODUCTION TO PATIENT CARE**  
(Formerly TSC RTT 0151)  
Introduces patient care and the health care system, modern respiratory services, health communication, ethical and legal applications of practice and general patient care. Provides some hands on practice and orientation to clinical facilities and case studies with physicians.  
998025 Clin 3, Cr 1

**TRES 1210 PATIENT ASSESSMENT**  
(Formerly TSC RTT 0152)  
Develops proficiency in recognizing patterns of cardiopulmonary dysfunction, conducting physical assessment of the patient, performing basic pulmonary function measurements and analysis of the chest radiograph, blood gas sampling.  
Prerequisites: TRES 1505, BIOL 2401; Corequisite: BIOL 2402  
998025 Lec 2, Cr 2

**TRES 1220 PATHOPHYSIOLOGY IN RESPIRATORY CARE I**  
(Formerly TSC RTT 0172)  
Prepares students to recognize the pathophysiology, clinical signs and symptoms and treatment approach for patients with asthma, COPD, RDS, and pulmonary infections and pneumonia. This course meets in summer session and requires seven class hours per week for five and one-half weeks.  
Prerequisite: TRES 1210.  
998025 Lec 7, Cr 2

**TRES 1290 CLINICAL PRACTICUM I**  
(Formerly TSC RTT 0162)  
Provides clinical practice in applying general patient airway care, oxygen therapy, humidity and aerosol therapy, chest physical therapy, and infection control; designed to develop the ability to communicate with other members of the health care team.  
Prerequisite: TRES 1505.  
998025 Clin 19, Cr 2

**TRES 1293 CLINICAL PRACTICUM II**  
(Formerly TSC RTT 0182)  
Provides clinical practice and evaluates proficiency in applying the procedures learned in TRES 1505, 1220, 1515. This course meets in summer session and requires 24 hours clinical per week for five and one-half weeks.  
Prerequisite: TRES 1290, 1515.  
998025 Clin 24, Cr 2

**TRES 1296 CLINICAL PRACTICUM III**  
(Formerly TSC RTT 0192)  
Continues clinical practice and proficiency evaluations from the previous clinical course. This course meets during

summer session and requires 24 hours of clinical per week for five and one-half weeks.  
Prerequisite: TRES 1293.  
998025 Clin 24, Cr 2

**TRES 1310 APPLIED SCIENCE FOR RESPIRATORY THERAPY**  
(Formerly TSC RTT 0143)  
Study of terms, symbols and units of measure, physical principles in respiratory care, solutions, body fluids and electrolytes, and review of cardiopulmonary physiology.  
998025 Lec 3, Cr 3

**TRES 1505 EQUIPMENT AND PROCEDURES I**  
(Formerly TSC RTT 0155) Fee \$8.00  
Covers selecting, assembling and operating equipment used in airway care, delivery of medical gases and humidity and aerosol therapy, chest physical therapy and infection control. Course is designed to develop proficiency in applying therapeutic procedures in controlling infection, maintaining an airway, mobilizing secretions, and assuring oxygenation.  
Corequisites: BIOL 2401, TRES 1190.  
998025 Lec 4, Lab 3, Cr 5

**TRES 1515 EQUIPMENT AND PROCEDURES II**  
(Formerly TSC RTT 0165) Fee \$8.00  
Covers selecting, assembling and operating equipment used in delivery of aerosol medications, hyperinflation therapy, and ventilatory support. Course is designed to develop proficiency in applying therapeutic procedures involved in aerosolized drugs, deep breathing and ventilatory support of the patient.  
Prerequisite: TRES 1505.  
998025 Lec 4, Lab 3, Cr 5

**TRES 2110 ADVANCED LEVEL PHARMACOLOGY**  
(Formerly TSC RTT 0251)  
Continues the study of drugs used to manage the cardiopulmonary patient with an emphasis on emergency drugs, cardiovascular agents, anesthetics, narcotics and sedatives and diuretics. The oral and parenteral bronchodilators will also be covered.  
Prerequisite: CHEM 1305, BIOL 2402.  
998025 Lec 1, Cr 1

**TRES 2290 ADVANCED LEVEL PRACTICUM I**  
(Formerly TSC RTT 0252)  
Provides clinical practice in adult intensive care units and introduces the student to neonatal intensive care and diagnostic laboratories.  
Prerequisite: TRES 1293.  
998025 Clin 19, Cr 2

**TRES 2293 ADVANCED LEVEL PRACTICUM II**  
(Formerly TSC RTT 0282)  
Continues the development of critical care skills and adds neonatal intensive care. Students will be tested for competence at the advanced level of respiratory care practice through direct observation and clinical simulations.  
Prerequisite: TRES 2290.  
998025 Clin 19, Cr 2

**TRES 2305 DIAGNOSTIC PROCEDURES**  
(Formerly TSC RTT 0233) Fee \$8.00  
Covers diagnostic procedures found in the full service pulmonary function and bronchoscopy labs. Quality control procedures in pulmonary function and blood gas analysis will be covered.  
Prerequisite: TRES 1120.  
998025 Lec 2, Lab 3, Cr 3

**TRES 2315 PEDIATRIC & NEONATOLOGY**  
(Formerly TSC RTT 0253) Fee \$8.00  
Course is designed to develop proficiency in using, selecting, and applying and operating the equipment and therapeutic procedures unique to the critically ill newborn and child.  
Prerequisite: TRES 1120, 1515.  
998025 Lec 2, Lab 3, Cr 3

**TRES 2610 ADVANCED LEVEL PROCEDURES**  
(Formerly TSC RTT 0266)  
Covers monitoring and interpreting hemodynamic data, cardiopulmonary data from various physiologic monitors, and managing of the critically ill. An introduction to pulmonary rehabilitation and home care will be provided. A comprehensive test of student competence at the advanced level of practice will be conducted.  
Prerequisite: TRES 2290.  
998025 Lec 6, Cr 6

## SECRETARIAL SCIENCE (TSEC)

**TSEC 1105 KEYBOARDING**  
(Formerly TSC SEC 0101) Fee \$8.00  
A beginning course designed for all majors. Thorough sentence drills, students are taught to touch-type the alpha/numeric keyboard and to develop correct typing techniques. Minimum speed on a three-minute timed writing is 25 words per minute with not more than five errors. Secretarial majors must take TSEC 1201 concurrently.  
995824 Lec 1, Cr 1

**TSEC 1201 ELEMENTARY TYPING**  
(Formerly TSC SEC 0152) Fee \$8.00  
This course is a continuation of TSEC 1105 Keyboarding to emphasize the format

and typing of letters, tables, centered announcements, outlines, and reports.

*Prerequisite:* TSEC 1105 Keyboarding.

CB 995824

Lec 2, Cr 2

### TSEC 1301 INTERMEDIATE TYPING

(Formerly TSC SEC 0163) Fee \$8.00

A course emphasizes speed development, production typing of letters, tables, manuscripts, and general office forms. Rules learned in elementary typing reviewed without teaching the keyboard. This course is taught on a computer.

*Prerequisite:* TSEC 1201 or one year of typing in high school (30-40 WPM).

CB 995824

Lec 3, Cr 3

### TSEC 1305 BUSINESS COMMUNICATION

(Formerly TSC BA 0163)

Emphasizes writing and punctuating sentences, writing numbers, dividing words, and effectively using business English in writing paragraphs. Vocabulary building, spelling, and proof-reading from a heavy part part of this course.

CB 995824

Lec 3, Cr 3

### TSEC 1310 ELECTRONIC CALCULATING MACHINES

(Formerly TSC SEC 0253) Fee \$8.00

A practical approach to operating and using the electronic calculator. Designed to show students how to use the calculator solves different business problems as fast as possible. Special emphasis on speed development using the touch system.

*Prerequisite:* TMAN 0173 or concurrent enrollment.

CB 995824

Lec and Pract 3, Cr 3

### TSEC 1315 PROFESSIONAL DEVELOPMENT

(Formerly TSC SEC 0183)

An introductory course in office occupations which emphasizes self-concept and personality, work attitudes and values, work organizes and solving problems. Also, interpersonal relationships, supervises of office personnel, as well as job applications, interviews, and work adjustment are covered.

CB 995824

Lec 3, Cr 3

### TSEC 1317 ELEMENTARY SHORTHAND

(Formerly TSC SEC 0103) Fee \$8.00

Principles of Gregg Shorthand, Series 90; emphasis on theory, dictation and transcription of dictated material. Dictation and transcription speed requirements of 50-80 WPM. Offered in the fall semester only.

*Prerequisite:* TSEC 1201 Elem. Typing or 1 year typing in high school.

CB 995824

Lec 3, Cr 3

### TSEC 1320 LEGAL TERMINOLOGY

(Formerly TSC SEC 0293)

Fee \$8.00

A practical course designed to familiarize students with legal terms, their spelling, definition, and use. Transcription of legal materials is included.

CB 995824

Lec 3, Cr 3

### TSEC 1325 ADVANCED TYPEWRITING

(Formerly TSC SEC 0213)

Fee \$8.00

A course to develop keyboarding skills in a variety of situations found in sales, general, accounting, legal and medical offices. Continued improvement of basic speed and accuracy with special emphasis on proofreading and following directions with minimum aid. This course is taught on a computer.

*Prerequisite:* TSEC 1301 or at least 2 years of high school typing, 40-50 WPM.

CB 995824

Lec 3, Cr 3

### TSEC 1330 LAW OFFICE MANAGEMENT

(Formerly TSC SEC 0193)

The course is intended to cover the guidelines for the legal assistant who may fill a variety of roles as the legal secretary, the legal assistant, and the office manager. Emphasis is on the major areas of responsibilities ranging from calendaring, organizing systems and procedures, personnel administration, purchasing office equipment and supplies, opening and closing files, statements, and automating the law office.

CB 995824

Lec 3, Cr 3

### TSEC 2301 OFFICE PROCEDURES

(Formerly TSC SEC 0263)

Fee \$8.00

A finishing course giving students opportunities to apply acquired skills. Coverage is broad and includes receptionists' duties, telecommunications, telephone techniques, mail services, business documents, travel procedures, reprographics, financial tasks, and other duties of the office specialist.

*Prerequisite:* TSEC 1301 or equivalent.

CB 995824

Lec 3, Cr 3

### TSEC 2305 FILING SYSTEMS

(Formerly TSC SEC 0273)

Fee \$8.00

A course to give students an understanding records management. Special emphasis is given to the systems approach, terminology, equipment and filing procedures. Rules are taught for alphabetic, subject, numeric, and geographic filing. Students should learn how filing and records management fit into business offices and organizations.

CB 995824

Lec 3, Cr 3

### TSEC 2315 WORD PROCESSING I

(Formerly TSC SEC 0203)

Fee \$8.00

A hands-on introduction to word processing, including concepts, careers, the

document cycle, information processing equipment, and terminology. The first of a two-part course in word processing covers the basics of WordPerfect 5.1 including creating documents, retrieving, editing, printing, formatting a document, copying and moving text, spelling, etc.

*Prerequisite:* TSEC 1201 or equivalent; TSEC 1301 recommended.

CB 995824

Lec 3, Cr 3

### TSEC 2320 BUSINESS CORRESPONDENCE

(Formerly TSC BA 0133)

Fee \$8.00

Instruction in the fundamentals of business writing. Basic course designed to help students develop confidence and skill in writing effective letters and memoranda. Emphasis on routine letter writing, specialized letter writing, and application letter and resumé writing.

*Prerequisite:* TSEC 1305 or concurrent enrollment.

CB 995824

Lec 3, Cr 3

### TSEC 2325 LEGAL DOCUMENTS I

(Formerly TSC SEC 0223)

Fee \$8.00

Specialized training in preparing, formatting, and understanding common legal documents in family law, wills and estates, and corporations. Students will be acquainted with information needed to begin preparing, typing/keyboarding, and filing the document with the proper agency.

*Prerequisite:* TSEC 1301 and 1320.

CB 995824

Lec 3, Cr 3

### TSEC 2330 WORD PROCESSING II

(Formerly TSC SEC 0283)

Fee \$8.00

A continuation course in word processing terminology, concepts, and equipment. Students develop advanced word processing skills through application, exercises and producing document by using word processing software on a microcomputer.

*Prerequisite:* TSEC 1301 or equivalent.

CB 995824

Lec 3, Cr 3

### TSEC 2335 LEGAL DOCUMENTS II

(Formerly TSC SEC 0243)

Fee \$8.00

Specialized training in the preparing, formatting, and understanding common legal documents in real estate, litigation, and negligence, and bankruptcy. Students will learn information needed to begin preparing typing/keyboarding, and filing the document with the proper agency.

*Prerequisite:* TSEC 1301 and 1320 or concurrent enrollment.

CB 995824

Lec 3, Cr 3

### TSEC 2401 COOPERATIVE EDUCATION I

(Formerly TSC SEC 0214)

Open only to students enrolled in secretarial programs. This course includes supervised employment in the student's chosen career field as well as evaluation



both the employer and faculty member. A weekly one-hour seminar is held in conjunction with the work experience. *Prerequisite:* 30 hours in a secretarial program; *prerequisite standing, 45 WPM typing; and consent of Office Occupations Coordinator.*  
 CB 995284 Lec 1, Lab 20, Cr 4

**TSEC 2405 COOPERATIVE EDUCATION II**  
*(Formerly TSC SEC 0224)*  
 Continuation of TSEC 2401. Must be taken consecutively.  
 CB 995824 Lec 1, Lab 20, Cr 4

## SOCIAL WORK (SOCW)

**SOCW 2361 INTRODUCTION TO SOCIAL WELFARE**  
*(Formerly TSC SW 0213)*  
 Traces the philosophy and historical development of social welfare as a institutional arrangement, reflecting its European roots and its evolution in America. A general overview of social welfare institutions, structures and functions helps students understand social work concepts, ethics and practice. Descriptions of social work approaches help identify facets of the profession and target populations. Requirements for licensing and graduate social work are introduced.  
 CB 4407015142 Lec 3, Cr 3

**SOCW 2362 SOCIAL WELFARE INSTITUTION AND LEGISLATION**  
*(Formerly TSC SW 0223)*  
 Traces the origin and development of social welfare institutions in the United States. Pays particular attention is to the structures and the functions of social welfare as an institution, social welfare organizations, historic and current social welfare legislation, gaps in the social welfare system, and problems of social reform.  
*Prerequisite:* Social Work 2361 or permission of the instructor.  
 CB 4407015242 Lec 3, Cr 3

## SOCIOLOGY (SOCI)

**SOCI 1301 INTRODUCTION TO SOCIOLOGY**  
*(Formerly TSC SOC 0213)*  
 The study of human society; relationship of culture, social interaction, and group life to personality and human behavior; analysis of group structure, social organization, and social process.  
 CB 45110151142 Lec 3, Cr 3

**SOCI 1306 SOCIAL PROBLEMS**  
*(Formerly TSC SOC 0223)*  
 A survey and analysis of contemporary social problems; their likely causes; how they affect us; with consideration of possible solutions that work toward social

improvement. Particular attention will be given to local problems.  
 CB 4511015242 Lec 3, Cr 3

**SOCI 2301 MARRIAGE AND FAMILY**  
*(Formerly TSC SOC 0243)*  
 A functional analysis of the contemporary American Family; basic sociological insights, including a brief historical and cross-cultural perspective as well as intensive study of American courtship, marriage, and family institutions.  
*Prerequisite:* Sophomore standing recommended.  
 CB 4511015742 Lec 3, Cr 3

**SOCI 2306 HUMAN SEXUALITY**  
*(Formerly TSC SOC 0273)*  
 A study of the physiological, psychological, and sociological aspects of human sexuality.  
 CB 4511015842 Lec 3, Cr 3

**SOCI 2331 CURRENT ISSUES IN SOCIOLOGY**  
*(Formerly TSC SOC 0293)*  
 An in-depth study of specific contemporary topics in sociology with special emphasis on such topics as the U.S.-Mexico Border, poverty in the Rio Grande Valley, and development along the South Texas coast.  
 CB 4511015742 Lec 3, Cr 3

**SOCI 3305 METHODS OF SOCIAL RESEARCH**  
*(Formerly UTPAB SOC 3301)*  
 Use of scientific methods in social research; formulation of research designs, hypothesis testing, sampling, interviewing, observation, coding, use of documents, questionnaires and scales. Emphasis on interpretation of social data.  
*Prerequisite:* SOCI1301 and PSYC 2317 or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3313 CRIMINOLOGY**  
*(Formerly UTPAB SOC 3313)*  
 A study of crime, its causes and its social treatment.  
*Prerequisite:* 3 hours of sociology or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3324 SOCIOLOGY OF HEALTH**  
*(Formerly UTPAB SOC 3324)*  
 Analysis of basic problems in the maintenance and preservation of health and delivery of health care services by social class. Focus is on environmental course of disease, social-psychological response to illness; and family cohesion, strain and resources as affected by illness.  
*Prerequisite:* 3 hours of sociology or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3326 CONTEMPORARY ISSUES IN SOCIAL PSYCHOLOGY**  
*(Formerly UTPAB SOC 3326)*  
 A review and discussion of recent issues and advances in social psychology. This course will focus on contemporary concerns with regard to both theory and research in the laboratory and the community. May be counted as SOC 3326 or PSY 3326.  
*Prerequisite:* Social Psychology.  
 CB 421601 Lec 3, Cr 3

**SOCI 3333 URBAN SOCIOLOGY**  
*(Formerly UTPAB SOC 3333)*  
 The culture, history and growth patterns of cities; demographic, ecological patterns and trends. Problems of housing and community organization.  
*Prerequisite:* SOCI 1301 or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3334 SOCIOLOGY OF WORK**  
*(Formerly UTPAB SOC 3334)*  
 Analysis of selected labor force characteristics including education, occupation, family, housing, and ethnic participation in major industries by job classification. Emphasis on the southwest region.  
*Prerequisite:* Three hours of sociology or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3353 JUVENILE DELINQUENCY**  
*(Formerly UTPAB SOC 3353)*  
 Delinquency in modern society, basic factors and conditions of juvenile delinquency and the problems of delinquency control.  
*Prerequisite:* SOCI 3313 or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 3393 SOCIOLOGY OF AGING**  
*(Formerly UTPAB SOC 3393)*  
 Analysis of the basic problems faced by the aged within a social context. Within an institutional framework, focus is on health, income, work, religion, leisure and interpersonal relationships of the aged.  
*Prerequisite:* Three hours of sociology or consent of the instructor.  
 CB 4511101 Lec 3, Cr 3

**SOCI 4313 AMERICAN MINORITIES**  
*(Formerly UTPAB SOC 4313)*  
 A study of the principal minority groups in American society and their sociological significance; problems of intergroup relations, social movements and related social changes occurring on the contemporary American scene.  
*Prerequisite:* Six hours of sociology or consent of the instructor.  
 CB 050299 Lec 3, Cr 3

**SOCI 4314 SOCIOLOGY OF DEVIANCE**  
(Formerly UTPAB SOC 4314)

The nature and extent of deviancy examined through a review of theory and research on deviant behavior. Selective examination of particular types of individual and subcultural deviance.

*Prerequisite:* Six hours of sociology or consent of the instructor.

CB 451101 Lec 3, Cr 3

**SOCI 4323 THE MEXICAN-AMERICAN PEOPLE**  
(Formerly UTPAB SOC 4323)

Presents an examination of the Mexican-American's economic status, cultural values, style of life, educational attainment, family status and political participation as affected by current socio-economic conditions and their historical antecedents.

*Prerequisite:* Six hours of sociology or consent of the instructor.

CB 050203 Lec 3, Cr 3

**SOCI 4335 SOCIAL THEORY**  
(Formerly UTPAB SOC 4333)

A survey of historical development and the theories of major sociologists.

*Prerequisite:* Nine hours of sociology or consent of the instructor.

CB 451101 Lec 3, Cr 3

**SOCI 4352 SOCIAL INEQUALITY**  
(Formerly UTPAB SOC 4352)

A discussion of research, concepts and theory related to inequality in social life, its causes and consequences. The (social) order of relations between the affluent and the poor and how inequality among the social classes is built into the culture and institutions of society (e.g. government, economics, religion, family). Special attention will be given to an examination of poverty in the Lower Rio Grande Valley and among minority populations in the U.S.

*Prerequisite:* SOCI 1301 or consent of instructor.

CB 451101 Lec 3, Cr 3

**SOCI 4383 INDEPENDENT STUDIES**  
(Formerly UTPAB SOC 4387)

Designed to offer students the opportunity to gain experience in research or in-depth theoretical/empirical readings in a substantive area not normally covered within standard courses. Research projects or advanced readings will vary according to student interest and faculty availability. Sequential registration for up to nine hours is permitted as topics vary.

*Prerequisite:* Nine hours of sociology and consent of the instructor.

CB 451101 Lec 3, Cr 3

**SOCI 5360 SOCIOLOGY OF EDUCATION**  
(Formerly UTPAB SOC 5360)

An analysis of the relationship of the educational institution to society and the patterns of order, change and conflict that emerge. Current issues, such as bureaucratization of schools and problems of minorities in the schools are examined with regard to related sociological principles and theory. An applied project and report will be required.

*Prerequisite:* Nine hours of sociology, psychology, and/or anthropology or consent of the instructor.

CB 451101 Lec 3, Cr 3

**SOCI 6313 AMERICAN MINORITIES**  
(Formerly UTPAB SOC 6313)

A study of the principal minority groups in American society and their sociological significance; problems of intergroup relations, social movements, and related social changes occurring on the contemporary American scene. A research project and supporting specialized readings will be emphasized. May not get credit for both SOCI 4313 and SOCI 5313.

*Prerequisite:* Nine semester hours of sociology

CB 050203 Lec 3, Cr 3

**SOCI 6323 THE MEXICAN-AMERICANS PRESENCE**  
(Formerly UTPAB SOC 6323)

Mexican-American and Anglo contacts and relations in the United States from Colonial times to the present, with special emphasis on the Southwestern United States. Social, economic and cultural differences are emphasized. Special attention is given to changes occurring among Mexican-Americans in the last few years and how this is affecting Mexican-American-Anglo relationships. Students will have to do a research project using primary resources as part of the course requirements.

*May not receive credit for both SOCI 4323 and SOCI 5323.*

CB 050203 Lec 3, Cr 3

**SOCI 6324 PROBLEMS OF U.S. HEALTH CARE SYSTEMS**  
(Formerly UTPAB SOC 4324)

A seminar course that allows student investigation into the nature and functioning of the health care institutions of modern industrial societies, with special emphasis on current problems in providing health care to the complex social populations of the United States, especially to the poor and to racial and ethnic minorities.

CB 451101 Lec 3, Cr 3

**SOCI 6333 PRO-SEMINAR ON SOCIOLOGICAL THEORY**  
(Formerly UTPAB SOC 6333)

An intensive analysis of the current state of sociological theory with consideration

of the historical influences on contemporary thought. Major theoretical issues in the discipline and within the social and behavioral science are considered. The relationships between theory and research are emphasized.

*(Required of MAIS students with sociology as a major of concentration.)*

CB 451101 Lec 3, Cr 3

**SOCI 6373 PROBLEMS OF AGING IN U.S. AND WORLD SOCIETIES**

A seminar analysis of the demographic, economic, social, political, and health care problems created by the "aging" of the population of industrial societies. Special attention is paid to the particular problems of the elderly poverty and minority populations of the Rio Grande Valley.

CB 191705 Lec 3, Cr 3

## SPANISH/HISPANIC STUDIES (SPAN)

The Department of Modern Languages offers a major and a minor in Spanish, a Translator and Bilingual Administration Certificate, and a graduate major program leading to a concentration in Spanish within the Master of Arts in an Interdisciplinary Studies degree. Teacher Certification plans are also available at both the elementary and secondary levels.

The department seeks to build upon the foundation of the extensive bilingual background of the area and the rich oral traditions of South Texas in such a way as to provide our students with a broad consciousness of the literacy and cultural traditions of the Western World at the same time that they are learning effective and practical communication skills with possible future application to such professions as teaching, translation or interpreting, international business, government service, journalism or broadcasting, publishing, and diplomacy.

**SPAN 1313 ELEMENTARY SPANISH I**  
(Formerly TSC SPAN 1033)

An introduction to the basic principles of grammar, emphasizing pronunciation, oral practice, conversation, and dictation. Also includes simple exercises in composition and easy reading within a cultural framework. Designed for and open only to students who do not speak Spanish.

*Prerequisite:* Departmental approval required prior to registration. This course requires basic skills in reading and writing.

CB 1609055131 Lec 3, Cr 3

**SPAN 1314 ELEMENTARY SPANISH II***(Formerly TSC SPAN 1043)*

Continuation of SPAN 1313. Not open to students whose native tongue is Spanish.

*Prerequisite: SPAN 1313.*

CB 1609055131

Lec 3, Cr 3

**SPAN 1373 BASIC SPANISH FOR BILINGUALS I***(Formerly TSC SPAN 1113)*

An introductory course for students who possess a spoken knowledge of southwestern U.S. Spanish and who wish to develop competency in reading and writing Standard Spanish. Through readings and written assignments the student will be introduced to the conventions of Spanish grammar and spelling. Through discussion and reading students will come to appreciate the place of the Mexican-American dialect of Spanish within the context of the Hispanic community.

CB 1609055131

Lec 3, Cr 3

**SPAN 1374 BASIC SPANISH FOR BILINGUALS II***(Formerly TSC SPAN 1123)*

Continuation of SPAN 1373.

*Prerequisite: SPAN 1373.*

CB 1609055131

Lec 3, Cr 3

**SPAN 2311 INTERMEDIATE SPANISH I***(Formerly TSC SPAN 2163)*

A comprehensive review of Spanish grammar with special emphasis on reading and writing. Selected prose readings by celebrated Hispanic writers.

*Prerequisite: SPAN 1314 or SPAN 1373.*

CB 1609055231

Lec 3, Cr 3

**SPAN 2312 INTERMEDIATE SPANISH II***(Formerly TSC SPAN 2173)*

Continuation of SPAN 2111.

*Prerequisite: SPAN 2311 or by department approval.*

CB 1609055231

Lec 3, Cr 3

**SPAN 2316 INTRODUCTION TO TRANSLATION ENGLISH/SPANISH***(Formerly TSC SPAN 2143)*

This is a Spanish course for students who intend to use the Spanish language professionally. The course is designed to develop the ability to do accurate written translations from English to Spanish and includes the application of the contrastive structures and grammar rules of source and target languages.

*Prerequisite: SPAN 1374 or Departmental approval.*

CB 1609055531

Lec 3, Cr 3

**SPAN 2317 BUSINESS SPANISH***(Formerly TSC SPAN 2153)*

This is a Spanish course for students who intend to use the Spanish language professionally. The course introduces Spanish business correspondence and the translation of commercial documents from English to Spanish.

*Prerequisites: SPAN 1374 or Departmental approval.*

CB 1609055531

Lec 3, Cr 3

**SPAN 2321 HISPANIC LITERATURE AND CIVILIZATION I***(Formerly TSC SPAN 2183)*

This is a Spanish course for students who intend to use the Spanish language professionally. The course introduces the literature, art, history and geography of the Hispanic world.

*Prerequisite: SPAN 1374 or Departmental approval. May be taken concurrently with SPAN 2311.*

CB 1609055331

Lec 3, Cr 3

**SPAN 2322 HISPANIC LITERATURE AND CIVILIZATION II***(Formerly TSC SPAN 2193)*

A study of the literature of the Hispanic world, including the cultural context in which it was written, from its beginnings to the present.

*Prerequisite: SPAN 1374. May be taken concurrently with SPAN 2312.*

CB 1609055331

Lec 3, Cr 3

**SPAN 3301 SPANISH LITERATURE (1100-1750)**

A survey of the literature of Spain from the beginnings to Romanticism. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3303 ADVANCED SPANISH COMPOSITION**

Intensive training in Spanish composition, including class publications of material in Spanish. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3304 ADVANCED SPANISH COMPOSITION**

Additional work in composition similar to Spanish 3303. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3306 BASIC CONCEPT OF SPANISH PHONETICS AND PHONOLOGY**

An analysis of the phonetic and phonological system of Spanish with special emphasis on the relationship between the phonetic system and writing. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 230601

Lec 3, Cr 3

**SPAN 3310 MASTERPIECES OF SPANISH AMERICAN LITERATURE I**

An investigation of the literary works of the principal narrators, poets and dramatists of Spanish American from the beginnings of Spanish Colonialism to Modernism. Analysis of form and content and study of the historical background and literary currents in each work. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3311 MASTERPIECES OF SPANISH AMERICAN LITERATURE II**

An investigation of the literary works of the principal narrators, poets and dramatists of Spanish American from Modernism to the present. Analysis of form and content and study of the historical background and literary currents in each work. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3316 THE MEXICAN NOVEL**

The study of the major novels of Mexico from beginning to the present. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3330 SPANISH GRAMMAR**

A study of grammatical concepts with concentration on basic sentence structure, the paragraph, principles of punctuation, and functional grammar. Course designed for Spanish majors and minors as well as Education Minors in bilingual education. Given in Spanish.

*Prerequisite: SPAN 2311 and 2312.*

CB 160905

Lec 3, Cr 3

**SPAN 3332 INTRODUCTION TO SPANISH/ ENGLISH TRANSLATION**

A basic orientation in the theory and practice of translating a text from Spanish to English, including consideration of both cultural and morpho-syntactical problems.

*Prerequisites: English 3330, SPAN 2311, 2312, 3303, 3304, 3306, and 3330.*

CB 160905

Lec 3, Cr 3

**SPAN 3333 INTRODUCTION TO ENGLISH/ SPANISH TRANSLATION**

A basic orientation in the theory and practice of translating a text from English to Spanish, including consideration of both cultural and morpho-syntactical problems.

*Prerequisites: English 3330, SPAN 2311, 2312, 3303 or 3304, and 3330.*

CB 160905

Lec 3, Cr 3

**SPAN 3334 BUSINESS SPANISH I**

Basic orientation and intensive practice in professional correspondence and report

writing with close reference to actual practice in Mexico and other Hispanic countries.

*Prerequisites:* English 3330, SPAN 2311, 2312, 3303, 3304, 3306, 3330.

CB 160905 *Lec 3, Cr 3*

**SPAN 4303 SPANISH CIVILIZATION**

A survey course covering the entire range of Iberian history outlining the major differences between Spanish culture and the cultures of other Western nations. Given in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4304 SPANISH LYRIC POETRY**

A survey of lyric poetry from its beginning to the present. Given in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4305 CERVANTES**

A study of the principal works of Miguel de Cervantes with particular emphasis on Don Quijote. Given in Spanish. All readings, examinations, and papers in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4307 SPANISH AMERICAN NOVEL**

This course begins with a study of literary and historical influences in 19th Century Spanish America. Gaucho and costumbrista novels such as those of Guiraldes, Blest Gana and Gamboa, are read along with works representative of European literary influences. The second part of the course is devoted to an intensive analytical examination of outstanding works that illustrate recent literary trends: E. Mallea, E. Sabato, Roa Bastos and Vargas Llosa. Given in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4309 CONTEMPORARY SPANISH LITERATURE**

A study of the principal literary works of Spain from the generation of 1898 to the present. Given in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4316 PROBLEMS AND ISSUES RELATED TO LANGUAGE**

Selected topics on language psychology and acquisition will be discussed. Current trends and problems related to the topic will be discussed.

*Prerequisite:* SPAN 2311 and 2312.

CB 131306 *Lec 3, Cr 3*

**SPAN 4332 ENGLISH/SPANISH COMMERCIAL TRANSLATION**

Intensive practice in the translation of commercial, financial and marketing texts, as well as shipping, insurance, and customs house documents.

*Prerequisite:* TSC SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4334 ENGLISH/SPANISH LEGAL TRANSLATION**

Intensive practice in the translation of contracts and government regulations, as well as texts relating to both civil and criminal court cases.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 4365 THE HISPANIC TRADITION OF THE UNITED STATES**

Critical survey of (1) Hispanic influence on U.S. writers, (2) U.S. writers dealing with Hispanic topics, (3) Hispanic authors that have written about the United States, and (4) U.S. residents that have written in Spanish. Given in Spanish. All examinations and papers in Spanish.

*Prerequisite:* SPAN 2311 and 2312.

CB 160905 *Lec 3, Cr 3*

**SPAN 6300 THEORY OF LITERARY ANALYSIS, BIBLIOGRAPHIC SEARCH TECHNIQUES, AND LITERARY WRITING METHODS**

A systematic study of bibliographic and reference information. Emphasis will be placed upon the study of indexes, national bibliographies, and bibliographical control. Also includes practice and guidance in the writing of graduate level papers.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6313 HISTORY OF THE SPANISH LANGUAGE**

A detailed study of the growth of the Spanish language from the beginning to the present. Given in Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6339 SPECIAL STUDENTS IN SPANISH AMERICAN LITERATURE**

Special topics from the field of Spanish American literature. This course may be taken three times as the topic varies.

*Prerequisite:* 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6341 SPECIAL STUDIES IN SPANISH LITERATURE**

Special topics from the field of Spanish literature. This course may be taken three times as the topic varies.

*Prerequisite:* 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6370 THE LITERATURE OF MEDIEVAL SPAIN**

Critical study of the major works of Spanish literature from its origins down to the end of the 15th century. Taught in Spanish. All readings, papers, and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6371 THE LITERATURE OF THE GOLDEN AGE OF SPAIN**

Critical study of major works of the Spanish Renaissance and Baroque Period. Taught in Spanish. All readings, papers and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6372 THE LITERATURE OF 19TH AND 20TH CENTURY OF SPAIN**

Critical study of major works of contemporary Spanish authors from the birth of Romanticism to the contemporary era. Taught in Spanish. All readings, papers, and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6373 THE LATIN AMERICAN NOVEL**

Critical study of Latin American narrative from its birth in Neoclassicism down to the contemporary novel of the "boom." Taught in Spanish. All readings, papers, and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6374 LATIN AMERICAN POETRY**

Critical study of major poetic works from the colonial period to the present day. Taught in Spanish. All readings, papers, and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

**SPAN 6375 THE LATIN AMERICAN ESSAY**

Critical study of the Latin American essay from the colonial chronicle to contemporary intellectual prose. Taught in Spanish. All readings, papers, and examinations in Spanish.

*Prerequisite:* Graduate standing and 12 hours of advanced Spanish.

CB 160905 *Lec 3, Cr 3*

## SPEECH (SPCH)

### SPCH 1315 FUNDAMENTALS OF SPEECH

(Formerly TSC SPCH 0113)

Theory and practice of the basic principles of oral communication. The course is designed to help the student develop skills in various kinds of public speaking. Emphasis on audience analysis, research speech composition and delivery. Students will present various types of speeches including informative, persuasive, and impromptu.

CB 2310015335

Lec 3, Cr 3

### SPCH 1318 INTERPERSONAL COMMUNICATION

(Formerly TSC SPCH 0143)

Designed to study communication barriers between individuals based on cultural, physical, and psychological differences. Emphasis will be placed on improving one-to-one communication and small group interaction.

CB 2310015435

Lec 3, Cr 3

### SPCH 1321 BUSINESS AND PROFESSIONAL COMMUNICATION

(Formerly TSC SPCH 0133)

Designed to provide the student with theory and practical experience needed to communicate in a variety of business settings. Emphasis is upon interviewing, decision making, and public address.

CB 2310015235 Lec 3, Cr 3

### SPCH 1342 SPEECH FOR THE BILINGUAL STUDENT

(Formerly TSC SPCH 0103)

Designed for bilingual students who want to improve their English. A study of the sound system, stress patterns, timing, melody, and phraseology of American English. Practice in presenting ideas to an audience.

CB 2310015835

Lec 3, Cr 3

## VOCATIONAL CLOCK HOUR PROGRAMS

### AIR CONDITIONING & REFRIGERATION

#### TACR1901 AIR CONDITIONING & REFRIGERATION

(Formerly TSC ACR 0903)

##### ADVANCED SYSTEMS

Students will have the opportunity to learn of the more technical systems and accessories presently applied in advanced air conditioning equipment. The air-to-air heat pump, water source heat pump,

heat reclaim systems, and economizers will be discussed. Installation and operation of advanced systems will be covered through analysis of wiring diagrams and product literature. Lab exercises with heat pump units will allow the student to gain useful technical abilities.

##### BASIC AC REFRIGERATION FUNDAMENTALS

Principles of refrigeration will be taught in conjunction with electro-mechanical theory. Students will learn basic electricity as it related to equipment typical of the refrigeration air conditioning industry. The basic refrigeration cycle will be presented concurrently with the electrical components that make it function.

##### COMMERCIAL AIR CONDITIONING SYSTEMS

Students will examine the different types of equipment applications classified as commercial air conditioning systems. Chilled water, roof top package, and centrifugal equipment will be taught in the classroom. Laboratory experience in installing, maintaining, and servicing commercial units will be implemented through field trips and available physical plant equipment. Students will have the opportunity to learn the wiring schematics, piping, and design differences necessary to successful service and maintenance of commercial air conditioning systems.

##### COMMERCIAL REFRIGERATION SYSTEMS

This course will introduce the student to the common types of commercial refrigeration systems. Walk-ins, reach-ins, ice-machines, and some specialty equipment will be covered in the course. Students will have the opportunity to learn the wiring schematics, piping, and design principles that necessitate the successful installation, maintenance, and service of typical commercial refrigeration systems. Laboratory experiences will be taught through field trips and available physical plant equipment.

##### CO-OPERATIVE EDUCATION

Students will be assigned to local industry for on-the-job training.

##### DOMESTIC SYSTEMS

This course will acquaint the student with the different types of home refrigeration systems and room air conditioners. The maintenance, service, and installation of refrigerators, freezers, and window units will be covered. Students will participate in actual repair of malfunctioning equipment. Leak repair, component replacement, evacuation, charging, and electrical troubleshooting will be laboratory experiences in the course. Schematics of the different types

of domestic units will be stressed in the classroom, necessary to successfully troubleshoot electrical problems of domestic refrigeration equipment.

##### DUCT FABRICATION

This course covers the fabrication of a typical residential duct system. Students will measure, cut and fabricate fiber glass and sheet metal ducts as well as assemble and install them to industry approved standards.

##### ENERGY MANAGEMENT

The future of the HVAC industry will rely heavily upon energy conservation and alternative energy forms. As these technologies develop, the AC Refrigeration field will be utilized in selling, installing, maintaining, and servicing this hi-tech equipment. In this course students will be familiarized with current techniques used in present-day energy conservation systems. Students will have the opportunity to learn of EMS as it applies to all phases of energy consumption. Alternative energy forms discussed will be solar, wind, geo-thermal, and hydro.

##### RESIDENTIAL A.C. SYSTEMS

Principles of residential air conditioning will offer students to learn to install, service, and maintain typical central cooling and heating systems. This course will cover the setting, wiring, piping, and start-up of residential split-system equipment. There will be heavy emphasis placed upon wiring schematics of gas furnaces, electric furnaces, and condensing units. Students will learn the refrigeration circuit of a central A.C. system and how to detect and correct problems that commonly occur. Electrical troubleshooting, leak detection-repair, evaluation, and charging of residential units will be performed in realistic laboratory situation.

##### SAFETY AND LAB PRACTICES

This course teaches students in the attitudes and techniques that will aid in the prevention of accidents while performing realistic job-related tasks in the laboratory. Personal safety and that of fellow students will be emphasized. Laboratory practices typical to the refrigerations and air conditioning trade will be taught with emphasis placed on safety while performing the tasks.

##### SOLAR SYSTEMS

This course will emphasize the fundamentals of the design, installation, maintenance, and service of typical residential solar systems. Active and passive solar applications will be covered

in the course. In depth study of active systems for domestic hot water will be integrated with lab exercises using realistic solar equipment simulation. Students will be introduced to the mechanics of solar cooling utilizing on absorption air conditioning systems.

#### **SUPERVISED PROJECTS**

This course will offer students with the skills and knowledge associated with actual on-site experience. The instructor will coordinate lecture and lab activities with operational equipment typical to the refrigeration and air-conditioning industry. Maintenance, service, design, and installation of equipment located within the physical plant of the institution will be utilized to simulate work situations. Students will receive employer/employee/customer relations instruction in a lecture situation necessary for successful employment. All lab work is supervised by the instructor and a qualified maintenance technician employed by TSC.

#### **SYSTEM DESIGN**

This course will cover designing residential air conditioning systems under given specifications and fiberglass duct fabrication techniques. Students will calculate the heat loss and gain of a residential structure. Interpreting house plans, analyzing construction specifications, and calculating with standard factors will be a major part of the course. Industry-approved standards will be used as guidelines in designing a typical residential duct system.

## **AUTO BODY REPAIR**

**TABR 1901 AUTO BODY REPAIR**  
(Formerly TSC ABR 0910)

#### **AUTO BODY REPAIR ESTIMATING & SHOP OPERATIONS**

A detailed study will be made in this course of the procedures to be used in determining the accurate cost of repair and presentation of the estimate to the customer and insurance company. The organization, management, planning and maintenance involved in the operation of an auto body repair facility are also covered in this course.

#### **AUTO CONSTRUCTION**

This course covers unitized and separate body and frame construction. Students will learn about the individual parts that make up the modern auto body, the different types of chassis on which it is mounted and typical bodies and the various panels of which they are constructed. Also covered is the

construction of modern car bodies, the theory and practical knowledge of assembly and disassembly of body components and the welding methods used in the trade are also covered.

#### **AUTOMOTIVE PAINTING**

This course is designed to help students acquire the necessary knowledge and skills needed in automotive painting. Students will have the opportunity to learn the correct mixing and application procedure of all kinds of paint being used in the automotive industry today.

#### **BASIC WELDING AND REPAIR**

Students will have the opportunity to learn basic welding, advanced body repairs, frame repair and straightening, repair of steering mechanisms, sectioning complete tail and top sections, cowls, and major rebuilding.

#### **BODY PANEL REPAIR**

In many cases the damage to fenders and other panels can be repaired by dolly to block and hammer, or other straightening methods. However, in other cases, considerable time can be saved by removing the damaged area and inserting a new section. This course includes hands-on instruction in the removal of a fender panel and replacement of a complete panel; replacing partial panels and door panel replacements; and ways to save time and lower costs.

#### **FIBERGLASS REPAIR**

Step by step procedures for repairing modern cars with fiberglass body components and using materials will be covered. Safety in the handling and use of repair materials will be stressed.

#### **METAL SHAPING**

This course covers identification of damage, proper procedures to be employed in straightening metal; correct ways to start the straightening process from simple dent to a complicated series of dents. Metal-shrinkage, as well as expansion and flexibility will also be covered. Proper use of rotary or disk, oscillating and belt sanders as well as the selection of the correct abrasive grit to be used will be demonstrated. Skills needed to repair minor and major rust damage, and the adjustment of panels and glass work will be stressed.

#### **OCCUPATIONAL ORIENTATION AND SAFETY**

Students will have the opportunity to learn and practice safety regulations, set up a safe shop, establish safe working conditions and make safety a part of every service procedure. O.S.H.A. regulations will be covered as well as the safe use of

all tools and equipment. Job opportunities, responsibilities, attitudes and working environment will also be covered.

## **AUTOMOTIVE MECHANICS**

**TAMC 1901 AUTOMOTIVE MECHANICS**  
(Formerly TSC AM 0901)

#### **AUTO AIR CONDITIONING**

Automotive air conditioning may be considered a course in itself. Students will have the opportunity learn the theory of auto air conditioning systems, compressors, independent systems, and truck systems. Students will have the opportunity to gain experience in troubleshooting, installing belts, installing a two-cylinder and six-cylinder compressors, replacing compressor seals and other jobs in auto air conditioning.

#### **AUTOMOTIVE ENGINES**

Students will have the opportunity to learn the automotive engine, how it operates, and the different fuels it takes to make the engine function. The fuel system, and the ignition system will be studied.

#### **ELECTRICITY, AUTO-COMPUTER, AND ELECTRICAL SYSTEMS**

Students will have the opportunity to learn the skills needed for servicing the various components of the electric systems of the automobile, including the starting system, the charging system and the ignition system. Students will have the opportunity to learn how to diagnose electrical failures in an automobile.

#### **ENGINE TROUBLESHOOTING AND TUNE-UP**

The students will have the opportunity to learn to use the engine analyzer which will give them the skills in performing oscilloscope test, check spark advance, dynamic compression, RPM, carburetor adjustment, current distributor dwell, ignition timing, carbon monoxide and hydro-carbon emissions, vacuum and ohms resistance. Students will have the opportunity to learn to fulfill the obligation to tune the engine to meet Federal and State emission standards, and satisfy the car owner's demand for performance and economy of operation.

#### **FUEL & EXHAUST SYSTEMS**

Students will have the opportunity to learn the purpose of the fuel system. The fuel system has the job of supplying a combustible mixture of air and fuel to the engine. Fuel-system components; fuel filters and screens; fuel gauges; the two general types of fuel pumps-mechanical and electric; electronic fuel-injection

system; these are the components that will be studied. Students will have the opportunity to learn and develop skills in working with all components of the exhaust system.

#### OCCUPATIONAL ORIENTATION & SAFETY

Shop safety is an important part of the student experience in the auto mechanic shop. Students will have the opportunity to learn and practice safe procedures that will prevent injuries to themselves and fellow workers.

#### LOWER TRAIN

Students will have the opportunity to study the following: standard transmission and overdrive service and automatic transmission service; transmission removal and installation; automatic transmission torque converter; automatic transmission shift controls; automatic transmission trouble diagnosis; rear axles and differentials; differential gearing, double-reduction differentials; diagnosing differential problems.

## BUILDING TRADES

TBTS 1901 BUILDING TRADES  
(Formerly TSC BT 0907)

#### APPLIED BUILDING CONSTRUCTION

Students will be required to demonstrate their acquired skills and safety techniques through the actual construction of small wood frame structures using plans, specifications and materials take offs.

#### APPLIED FINISH & INTERIOR

Includes exterior and interior trim, doors and windows, pain, glass and glazing, finished flooring, paneling and stairs. Materials, details and procedures of dwelling house construction are studied with additional attention given to building codes, zoning laws, and specifications. Also includes insulation requirements and application, completion processes, panel construction, plank and beam principles and service requirements.

#### ARCHITECTURAL SHEETMETAL

This course is designed to provide the construction technology student with the installation procedures for different types of commercial and residential metal products such as gutters, downspouts, chimney caps and flashings, roof vents as well as other types of architectural products.

#### BLUEPRINT READING & SHEET SPECIFICATIONS

This course introduces the student to the principles of blueprint reading and

interpretation. Assignments are made in relation to a complete set of working drawings. Construction relationships between architectural, structural, electrical, plumbing, and mechanical drawings and specifications are studied.

#### BRICK LAYING

This course covers the study of foundations, concrete, reinforced concrete, work framing, brick, block, stone, floor and roof systems, steel construction, roofing materials, lathe, plaster and acoustical materials. The subject matter includes the construction of residential foundations, framing systems, drainage and sanitary systems, chimneys and fireplaces, insulation material, roofing and exterior finishes, doors and windows.

#### CABINETRY

This course covers the taking of measurements on the job site, preparation of shop drawings from blueprints and the development of estimates and bids. Identification and use of cabinet woods, sheet materials, adhesives, abrasives and finishes. Installation of cabinets and hardware. Introduction into the safe use of power and handtools used in the cabinetmaking trade.

#### OCCUPATIONAL ORIENTATION SAFETY, TOOLS & MATERIALS

This course is intended to familiarize the student with the carpenter's hand and power tools, proper and safe use of these tools and their care. Students will have the opportunity to be made aware of other general safety rules that a good carpenter recognizes as an important part of his job. This course also introduces the student to building materials, measurements, blueprint reading and the finishing of woods.

#### RESIDENTIAL WIRING & PLUMBING

The study of residential wiring includes: the study of wiring, electrical conductors, electrical raceways, calculation of branch circuits and feeders for lighting, overcurrent and short circuit protection panel boards and switch boards, grounding, systems, electrical estimating for residential dwellings. This course covers residential plumbing, its tools and equipment. This will include blueprint reading, systems rough-in, private systems, fixture appliance installation, systems maintenance and repairs.

#### SETTING FOUNDATIONS

This course covers surveying, staking-out building sites, concrete form construction, floor, walking and roof framing, sheathing, insulating and shingling. Emphasis will be placed on field

trips and lectures from visiting industrial concerns.

## DIESEL MECHANICS

TDMC 1901 DIESEL MECHANICS  
(Formerly TSC DM 0906)

#### DIESEL ENGINE FUEL INJECTION SYSTEMS

This course is a lecture and laboratory combination that provides the student with instructions on the operation and servicing of fuel systems as used on current diesel engines. Emphasis will be on the theory of a calibration of various manufacturer's unit injectors, injection nozzles and fuel injection pumps. Laboratory assignments will be concurrent with classroom discussion. This will involve the disassembly, inspection and cleaning of parts and reassembly of fuel injection system components. Testing of the various engines fuel system components will be made on the test stands and in the fuel injection laboratory. Running diesel engines will also be used for trouble-shooting servicing and tune-up procedures.

#### DIESEL TRUCK ELECTRICAL SYSTEMS

An introductory course in electrical systems services for trucks and heavy equipment. The function, construction, operation, trouble-shooting procedures and servicing of the charging, cranking, and electrical systems are emphasized. This course provides students with experience in disassembly, testing and assembly of the various units comprising the diesel and automotive electrical systems.

#### FLUID POWER TECHNOLOGY

This course is designed to provide the student with working knowledge of how the mechanical principles of hydraulic components function and how to build and maintain control panels. Emphasis will be on trouble-shooting and repair of hydraulic components.

#### FUNDAMENTALS OF DIESEL ENGINES

A course designed to provide the student with the theory of operation of two and four stroke cycle diesel engines, the general construction and operation of diesel engines is also included. Four, six and eight cylinder diesel engines will be disassembled, inspected for wear, reassembled and test run in accordance with manufacturer's service manuals. This procedure will identify the operation and wiring principles of various diesel engines in current use.

### OCCUPATIONAL ORIENTATION & SAFETY

A classroom lecture course to provide the student with the pertinent safety precautions to be observed while working in the laboratory. This will include the proper use of hand tools, power tools, and the safety precautions to be observed while on Diesel engines and accessories. Other hazardous situations unique to a specific piece of equipment will be covered as part of all Diesel Technology courses.

### POWER TRAIN

A classroom and lecture course designed to provide the student with the theory of hydraulic operating systems in automatic transmissions and manual transmission operation. The units of the course include the functions, construction, operation, trouble-shooting procedures and servicing. Emphasis in disassembly, inspection of parts, and reassembly of various automatic and manual transmissions.

### SERVICE AREA

A course designed to prepare the student for the co-op education portion of the diesel mechanics technology program. All technical course work from previous semesters will be utilized in preventive maintenance and repair. Students are expected to complete normal repair and service requests in a professional manner. During this phase, accent is not only placed on quality of repair but also on the quantity of work completed. Emphasis will be placed on diesel engine trouble-shooting, tune-up, and overhaul; transmission repair, differential repair, hydraulic systems, brake and suspension systems.

## MACHINE SHOP

**TMSO 1901 MACHINE SHOP**  
(Formerly TSC MS 0909)

### ADVANCED MACHINING

This course is intended to provide students with an in-depth study of numerical and computer numerical controlled machines. Programming to compensate for the cutter radius, the tool length offset, and tool changes are emphasized throughout this course. Also studied and applied are the competencies of subroutines, program loops, random access memory, the editing commands, three axis machining, skip and closed loop programs and computer aided manufacturing.

### BASIC MACHINING

This course is intended to acquaint the students with the basics of Machine Shop theory and practice. Dimensional

measurement, handtools, benchwork, sawing machines, and basic blueprint reading are included. The students will be introduced to the basic operating principles and use of all machines in the shop.

### COMPUTER NUMERICAL CONTROL

This course is intended to familiarize the student with the numerical and computer controlled machines and machine programming. The students will prepare programs for one, two, and three axes machining processes, set up the machine and manufacture the part programmed.

### INTERMEDIATE MACHINING

This course emphasizes machine shop theory and operations required in product design and manufacture. Design, precision layout, quality control, tool and diemaking, and jig and fixture making are correlated with practical work on all machines in shop.

### INTRODUCTION TO MACHINE SHOP AND SAFETY

The aim of this course is to familiarize the students with the safe working practices in the manufacturing environment. A person learning to operate machine tools must first learn the safety regulations and precautions for each tool or machine. The students learn that safety of everyone's business and responsibility. The safety programs initiated by local, state, and federal (OSHA) safety regulations will be thoroughly emphasized.

### MATERIALS AND PROCESSES

This course is intended to familiarize the student with the extraction, manufacture, properties and heat treatment of metals. The chemical composition, identification, selection and classification of metals and non-metals is covered. Corrosion and destructive and non-destructive testing of metals will also be examined.

## WELDING TECHNOLOGY

**TWLD 1901 WELDING TECHNOLOGY**  
(Formerly TSC WELD 0902)

### ARC WELDING PIPE

A course designed to teach the welding of hard to weld metals such as stainless steels and aluminum. Theory and lab work will include the latest techniques required in industry.

### ARC WELDING PLATE

A course designed to give the student experience with the latest techniques

required of plate and pipe welders in industry. Theory and practical hands on lab exercises are stressed.

### BLUEPRINT READING

A course that is concerned with the basic fundamentals of drawing interpretation applied to the welding trade and will include such topics as basic lines and views, dimensions, notes and specifications, structural shapes, section detail and assembly drawings. A very important part of the course deals with welding symbols and their significance.

### GAS TUNGSTEN ARC WELDING PLATE AND PIPE

A course designed to teach basic theory of the GT A.W. Process. Lab sessions will give the student practice on steel plate and pipe.

### LAYOUT

A course designed as an advanced blueprint reading course for those persons in drafting, engineering, welding, estimating, pipe fitting, construction and fields directly related to process piping. Not intended as drafting course but sketching isometric will be stressed.

### MATH FOR WELDERS

Students will have the opportunity to be presented the practical application of mathematics as applied to the welding and fabrication of many different types of weldments. Measurements of linear, angular, areas, weights, bend allowances, and percentages will be covered in this course. Students who are preparing to become welders will find that the knowledge of the basic skill of mathematics is extremely useful and will better prepare them for the job they will take in industry.

### OXYACETYLENE, WELDING, CUTTING, AND BRAZING

A course designed to train students in the practical applications of gas-welding processes. This will include the various welding positions and joint designs used in industry. Oxy-fuel cutting will be stressed with hand-held torches and machine torches. Brazing of cast iron and silver brazing of copper piping will also be taught. Safety and care of equipment will be covered. The properties of acetylene and oxygen will be discussed and the hazards of high pressure cylinders will be covered.

### SAFETY AND ORIENTATION

A course designed to teach students to recognize hazards and potential hazards involved in welding processes and shop work and how to deal with these hazards safely.



# DIVISION OF CONTINUING EDUCATION COURSES AND PROGRAMS

## **Continuing Education Services**

Because of the comprehensive community college philosophy included in the partnership with TSC, UTB views continuing education and community service courses as integral parts of its total educational program. The rising educational demands of an increasingly complex world dictate the necessity for additional programs serving both the vocational and avocational needs of the region. UTB has attempted to ascertain area needs and is committed to making its faculty and resources available through a viable continuing education program to fill those needs.

Continuing Education courses may be requested by individuals and groups through the Division of Continuing Education. UTB cooperates with public agencies, civic groups, community organizations, businesses and industry, and other educational institutions in providing educational services for greater numbers of people. These programs and courses are designed to serve people of all ages throughout the service area.

The facilities and personnel of the University are available to provide specialized services to meet the cultural and educational needs of the area through credit and non-credit courses, workshops, meetings, lectures, conferences, seminars, and special community projects.

The Division of Continuing Education may be contacted at 544-8206.

## **Adult Education**

Adult Education classes foster academic growth and development for students of widely ranging ages and backgrounds. They offer multiple resources for learning and a variety of pre-vocational instructional activities to enable students to explore occupational areas compatible with their interests, values and abilities. Coursework includes English as a Second Language; basic skill development in reading, writing and math; career exploration and job search; and others designed to prepare adults to enter college-level programs of study.

Counselors are available to Adult Education students to assist them with transition to vocational and academic programs of study and with the special needs of adult students.

Special attention is given to provide coursework and services which consider the needs of special population students. These special populations include people of diverse backgrounds, such as adult displaced workers, single parents, homemakers, displaced homemakers, limited English proficient, disadvantaged, nontraditional and other adult students seeking to train, retrain, change careers, or raise their level of education with the express purpose of becoming more employable.

For more information about Adult Education, call 544-8284.

## **Industrial and Commercial Programs**

As the arm of UTB charged with economic development, the Division of Continuing Education marshals the resources of the University to meet the training needs of business and industry on both sides of the border, and under its auspices a full range of customized vocational and technical courses is offered, some of which may be underwritten by Texas Industrial Start-Up funds.

In addition, the membership of the University in the International Consortium for Educational Economic Development allows UTB to collaborate in sharing resources with 16 member

institutions along the border from San Diego, Calif. to Brownsville. Those interested in further information about customized training may call 544-8206.

## **Elderhostel**

Elderhostel is an international movement for individuals over 60 years of age whereby week-long boarding programs in courses of study relevant to a myriad of locations are offered through a network of colleges and universities. UTB is fortunate in this regard to have an attractive location and interesting cultural and historical backgrounds which have accounted for the University having the largest Elderhostel program in Texas. Information on Elderhostel is available through the Elderhostel coordinators at 761-7806 and 544-8284.

## **Elder Institute**

With the aim to serve the senior citizens of the area, UTB offers an Elder Institute, which, through its own board, provides many of the same courses and activities of Elderhostel. Information on Elder Institute is available at 544-8206.

## **English as a Second Language**

Continuing Education also offers English as a Second Language non-credit courses to anyone who is seeking self-enrichment and professional development. No academic credit is given for Continuing Education courses. Nonetheless, they are taught under guidelines and standards set forth by the State of Texas.

There are six levels of instruction. Within each level, emphasis is given to four linguistically vital areas: reading, writing, comprehension, and pronunciation. Information is available at 548-6515.

## **South Padre Island Center**

UTB provides continuing education through the South Padre Island Center. Besides courses and activities germane to the location (ecology, windsurfing, flora and fauna), the Center also provides a full range of courses in Spanish, computer science, art and other vocational and avocational areas. Information may be obtained at 761-7806.

## **Telecourses**

UTB offers a variety of courses on television. Although open to all students, telecourses are designed for those who have difficulty meeting classes at regular times. Telecourse students must meet the same admissions requirements as on-campus students and have access to college facilities as on-campus students.

Telecourses require the viewing of lessons on television, reading a textbook, and use of a study guide. Students are required to attend an orientation meeting and successfully pass three or four examinations. Some courses may also require a term paper or participation in discussion groups, laboratory exercises, and field trips.

Telecourses are currently offered in American Government, American History, English Composition, and Sociology. These courses are listed in the Course Schedule. For additional information, call 544-8206.





# GOVERNANCE

# ADMINISTRATION AND FACULTY



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B.S.N., University of Cincinnati College of Nursing  
M.S.N., Ohio State University School of Nursing

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B.S., Capital University, Ohio  
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B.A., M.A., Ph.D., University of Texas at Austin

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M.Ed., Pan American University

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B.B.A., Texas A&I University  
M.B.A., Pan American University

**Gus Barreda** ..... **Director of Information Systems**

**Leticia Fernandez** ..... **Director of Public Information**  
A.A., Texas Southmost College  
B.J., University of Texas at Austin

**Victor Fuhro** ..... **Assistant to the Vice President**  
B.A., Montclair State College **for Academic Affairs**  
M.S., Corpus Christi State University

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B.S., University of Maryland  
M.S., Troy State University  
Dipl., Fuehrungsakademie, Hamburg  
Ed.D., University of Houston  
Certificate Interpreter (II) FRG

**Abel D. Hinojosa** ..... **Assistant Vice President**  
B.B.A., University of Texas at Austin **for Business Affairs**  
M.S., University of Houston  
C.P.A., State of Texas

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B.A., University of Massachusetts  
M.L.S., University of Rhode Island  
M.A., Texas A&I University

**Marylin T. Myers** ..... **Assistant to the President**  
B.B.A., Pan American University

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B.A., University of Wisconsin  
M.Ed., University of Texas-Pan American

**Hilda Silva** ..... **Director of Counseling**  
B.S., M.Ed., Pan American University

**Belinda Torres** ..... **Special Scholarship**  
B.B.A., M.S., Texas A&I University  
M.S., Corpus Christi State University  
Ph.D., Texas A&M University

# ADMINISTRATION

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B.A., Texas Southmost College  
B.B.A., Texas A&I University
- Linda Van ..... Director of Learning Assistance  
B.A., M.A., Ph.D., University of Connecticut
- Rafael Zamora ..... Director of Publications  
B.A., Texas Southmost College  
M.A., University of Texas at Austin

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- Victor X. Garcia ..... Comptroller

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