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North Lake College
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TEXAS ACADEMIC SKILLS PROGRAM AND
NORTH LAKE COLLEGE

In 1987, the Texas Legislature passed House Bill 2182. This bill, effective with the 1989 Fall Semester, requires that all Texas public college and university students be tested for reading, writing and mathematics skills. This legislation applies to students enrolling in the Dallas Community Colleges - Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake and Richland.

Q. What is the Texas Academic Skills Program (TASP)?
A. TASP is a diagnostic testing program to assess the academic skills of students entering Texas public colleges and universities. It is designed to determine if students have the reading, writing and math skills necessary to succeed in college courses. The results of the test point to specific academic strengths and weaknesses and help advisors and counselors place students in courses in which they can do well and develop the necessary skills for college success. If students score poorly in one or more areas of the test, TASP requires them to immediately participate in appropriate remediation until all sections of the test are passed.

Q. Who must take the TASP test?
A. All Texas public college students must take TASP either before or during the semester of completing nine (9) college-level credit hours. Such scores must be reported to the college prior to the next registration. ALL students planning to become a certified teacher in Texas MUST take and pass TASP.

Q. Are there any exemptions from taking the TASP test?
A. Students who completed at least three (3) credit hours of college-level work prior to the 1989 Fall Semester will be exempt from taking TASP. Courses that count toward this exemption are those taken at the DCCCD or other regionally-accredited colleges or universities and which will count toward graduation; also, various credit-by-exam programs taken prior to Fall 1989 will result in an exemption. Students enrolled in a DCCCD academic program leading to a certificate may receive a waiver from TASP. Other exemptions include students who meet the following: (1) score at least 1800 on each of the three sections of TAAS if taken prior to spring '94 or if taken after spring '94, score at least X-90 on Reading, X-87 on Mathematics, and at least 1800 on Writing; (2) score at least 29 or higher on both ACT math and ACT English and have an ACT composite score of at least 27; or (3) score at least 550 or higher on both SAT verbal and SAT math with an SAT composite score of at least 1200 on SATs taken before April '95; or (4) score at least 620 on SAT verbal and 560 on SAT math with an SAT composite of at least 1270 on SATs taken April '95 or thereafter. The following DCCCD courses or their equivalents will NOT count toward the three hours: Any course numbered below 1000, Art 1170, Music 1175 and Drama 1170.

Q. Must a student take TASP prior to entering a DCCCD college?
A. No, it is not necessary that a student take TASP prior to enrolling. However, DCCCD students must take TASP prior to completing nine (9) hours of college-level courses and report scores prior to the next registration. In most cases, three courses will equal nine hours of credit. PERFORMANCE GRADES (A - D) earned in courses will count toward the nine hours of credit.

Q. If students must take TASP by the completion of their ninth credit hour, does this mean they must pass TASP by that same time?
A. No, students are required only to take TASP prior to completing their ninth credit hour and report scores before their next DCCC registration. If students do "pass" a section or sections of TASP, they will be immediately mandated into remediation. Students must pass all sections of TASP before they can be awarded a degree from the DCCCD. Students who transfer to a four-year state college or university will not be allowed to take junior or senior courses until they have passed all sections of TASP.

Q. How and when will the TASP test be given?
A. The three-part (reading, writing and mathematics) test will be given on a statewide basis at designated testing sites. Each DCCCD college is a test site. During 1995, the test will be given on June 3, July 15, September 16 and November 11. During 1996, the test dates are February 24, April 20, June 15 and July 20. TASP registration materials are available in the Counseling/Advisement Centers and/or Testing/Appraisal Centers of each of the DCCCD colleges.

Q. What is the cost of the TASP test? Is there a study guide available?
A. The cost for the total test is $26. An Official TASP Study Guide can be purchased in DCCCD College Book Stores or be ordered by writing to TASP Project, P.O. Box 1403478, Austin, Texas, 78714-0347. Study Guides are available for reference use in each of the DCCCD college libraries.

Q. How will TASP affect students planning to attend a DCCCD college?
A. Students planning to attend a DCCCD college will continue to complete the usual steps for enrollment. TASP scores should be reported after being admitted by those who have taken TASP. However, for students who have not taken TASP, the college will indicate whether or not they should take the DCCCD's assessment test. Then, before completing their ninth credit hour, students must take the TASP test and report their scores before their next registration.

Q. Are students transferring into the DCCCD required to take TASP?
A. Unless transfers students qualify for one of the exemptions discussed above, they are required to take TASP no later than the semester of enrollment in nine college-level credit hours in a Texas public institution. Students who have scores must report them before registering for college-level hours in the DCCCD.

If you would like more information on the Texas Academic Skills Program, please contact the college's Counseling or Advisement Center.
Summer Sessions, 1995

**First Summer Session:** *(Based on 4 day class week, except for first week)*

- **May 29 (M)**: Memorial Day Holiday
- **May 31-June 1**: Registration Period
  - **(W-R)**: (Varies by College)
- **June 3 (S)**: TASP Test Administered
- **June 5 (M)**: Classes Begin
- **June 8 (R)**: 4th Class Day
- **June 9 (F)**: Class Day (Only Friday Class Meeting)
- **July 4 (T)**: Fourth of July Holiday
- **July 6 (R)**: Final Exams
- **July 6 (R)**: Semester Closes
- **July 10 (M)**: Grades *due* in Registrar’s Office by 10 a.m.

**Second Summer Session:** *(Based on 4 day class week, except for first week)*

- **July 12 (W)**: Registration (All Campuses)
- **July 13 (R)**: Classes Begin
- **July 14 (F)**: Class Day (Only Friday Class Meeting)
- **July 15 (S)**: TASP Test Administered
- **July 18 (T)**: 4th Class Day
- **August 7 (M)**: Last Day to Withdraw with “W”
- **August 15 (T)**: Final Exams
- **August 15 (T)**: Semester Closes
- **August 17 (R)**: Grades *due* in Registrar’s Office by 10 a.m.

Fall Semester, 1995

- **August 21 (M)**: Faculty Reports
- **August 21-24 (M-R)**: Registration Period
- **August 25 (F)**: Faculty Professional Development
- **August 28 (M)**: Classes Begin (M-R Classes)
- **September 1 (F)**: Friday *Only* Classes Begin
- **September 2 (S)**: Saturday *Only* Classes Begin
- **September 4 (M)**: Labor Day Holiday
- **September 11 (M)**: 12th Class Day
- **September 16 (S)**: TASP Test Administered
- **November 11 (S)**: TASP Test Administered
- **November 17 (F)**: Last Day to Withdraw with a Grade of “W”
- **November 23 (R)**: Thanksgiving Holidays Begin
- **November 27 (M)**: Classes Resume
- **December 8 (F)**: Final Exams for Friday *Only* Classes
- **December 9 (S)**: Final Exams for Saturday *Only* Classes
- **December 11-14 (M-R)**: Final Exams for M-R Classes
- **December 14 (R)**: Semester Closes
- **December 18 (M)**: Grades *due* in Registrar’s Office by 10 a.m.
- **December 23 (S)**: College Buildings and Offices Closed for the Holidays

Spring Semester, 1996

**First Summer Session:** *(Based on 4 day class week, except for first and second weeks)*

- **May 29 (M)**: Memorial Day Holiday
- **May 29-30 (W-R)**: Registration (Varies by College)
- **June 3 (M)**: Classes Begin
- **June 6 (R)**: 4th Class Day
- **June 7 (F)**: Class Day
- **June 14 (F)**: Class Day
- **June 15 (S)**: TASP Test Administered
- **June 24 (M)**: Last Day to Withdraw with “W”
- **July 3 (W)**: Final Exams
- **July 3 (W)**: Semester Closes
- **July 4 (R)**: Fourth of July Holiday
- **July 8 (M)**: Grades *due* in Registrar’s Office by 10 a.m.

**Second Summer Session:** *(Based on 4 day class week, except for first week)*

- **July 10 (W)**: Registration (All Campuses)
- **July 11 (R)**: Classes Begin
- **July 12 (F)**: Class Day (Only Friday Class Meeting)
- **July 16 (T)**: 4th Class Day
- **July 20 (S)**: TASP Test Administered
- **August 5 (M)**: Last Day to Withdraw with “W”
- **August 13 (T)**: Final Exams
- **August 13 (T)**: Semester Closes
- **August 15 (R)**: Grades *due* in Registrar’s Office by 10 a.m.
Dallas County Community College District
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NORTH LAKE COLLEGE

North Lake College makes educational and cultural opportunities available to all area citizens with its accessible location and active involvement in the community. This commitment to serve the community has resulted in a balance of academic courses, technical programs and continuing education offerings.

Outstanding facilities provide a stimulating and pleasant environment for students, faculty and staff. This combination makes North Lake an exciting center for personal growth for each of its nearly 10,000 students.

North Lake College Mission Statement

North Lake College is the bridge that connects individuals and the community through education.

In support of this mission, North Lake College will

• Maintain high educational standards
• Establish effective learning environments
• Promote excellence in the workforce
• Demonstrate a commitment to student success
• Provide access to life-long learning and enrichment
• Provide programs and resources to help students and the community meet educational goals
• Strengthen support systems to ensure student success
• Encourage innovation, creativity and flexibility
• Celebrate diversity and the integrity of the individual
• Develop responsible citizens concerned with global issues
• Provide a continuing self-evaluation process to include input from the communities we serve

The Campus

Opened in the fall of 1977, North Lake occupies 276 wooded acres in the Las Colinas area of Irving, at 5001 N. MacArthur Boulevard. This architecturally remarkable college is surrounded by gently rolling hills accentuated by a beautiful nine-acre lake. The energy-efficient buildings are designed in a series of terraces which follow the natural elevations of the building site.

North Lake’s excellent facilities include a 450-seat Performance Hall, a 2,000 seat gymnasium, and a covered natatorium, complemented by exceptionally well-equipped laboratories, studios, and learning centers.

Accreditation

North Lake College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the associate degree.

Institutional Memberships:

The American Association of Community and Junior Colleges
The Texas Public Community/Junior College Association
The Texas Association of Colleges and Universities
The League for Innovation in the Community College

North Lake College is recognized and sanctioned by the Coordinating Board of the Texas College and University System and the Texas Education Agency, and is an Affirmative Action Equal Opportunity Institution.

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Vice President of Administrative Services ............................John Tuohy...............................................................659-5235
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Director of Admissions and Registration ............................Steve Twenge...........................................................659-5225
Dean of Continuing Education .......................................Judith Tibbets............................................................659-5370
Dean of Student Enrollment, Development & Retention Services .................................................................Lynda Edwards.........................................................659-2844
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Director of Public Information ........................................Julia Benitez Sullivan.........................................................659-5231
Director of Special Services Program ................................Mary Ciminelli........................................................659-5237

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Communications/Languages ............................................659-5270
Cultural History................................................................659-5127
Natural and Emerging Sciences/P.E.................................659-5250
Visual and Performing Arts..............................................659-5198
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Center for Women and Returning Adults ............... 659-5373
Continuing Education Office .......................... 659-5200
Counseling Center ..................................... 659-5210
Data Center ............................................ 659-5269
Health Center .......................................... 659-5209
Instructional & Student Support Services .............. 659-5340
Library .................................................. 659-5194
Mailing Services ........................................ 550-1826
Human Resources ....................................... 659-5246
Facilities Services ..................................... 659-5310
Placement Office ....................................... 659-5211
Printing .................................................. 550-1826
Public Information ...................................... 659-5230
Veteran's Affairs ....................................... 659-5277
Wallace Bookstore ..................................... 550-0509
Workplace Literacy Program (Abbott) ................. 518-7503

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Villa, Olivia  English as a Second Language/Spanish  
Universidad Antonio De Guadalajan, B.A.; Columbia Univ., M.A.

Walker, Donna  Director, Learning Skills Center  
Texas Tech Univ., B.A., M.A.

White, James  Management  
Texas A&M Univ., B.B.A.; North Texas State Univ., M.B.A.;  
North Texas State Univ. Southwestern Seminary, M., Study

Wilson, Kay  Real Estate  
Texas Woman's Univ., B.S., M.B.A.

Wilson, Roger  Construction Technology  
Texas State Technical Institute, A.A., B.A., Univ. of North Texas, Study

York, Lloyd Bradley  Business Interim Dean  
Purdue Univ., B.S.; University of Texas, Austin, Study
I. GENERAL INFORMATION

History of the Dallas County Community College District

The Dallas County Community College District is comprised of seven colleges located strategically throughout Dallas County. Together the colleges enroll approximately 50,000 credit and 45,000 non-credit students per long semester and employ over 2,000 full-time faculty and staff members.

The growth of the District into an educational system with such impact was not by chance. In May, 1965, voters created the Dallas County Junior College District and approved a $41.5 million bond issue to finance it. The next year the District's first college, El Centro, began operation in downtown Dallas. Eastfield and Mountain View Colleges enrolled their first students in 1970, and the plans for a multi-campus district became a reality. Richland College became the District's fourth college in 1972.

The voters of Dallas County approved the sale of an additional $85 million in bonds in September, 1972. This step provided for expansion of the four existing colleges and the construction of three more colleges. A key part of the expansion program was the remodeling and enlarging of El Centro College, a project completed in 1979. Construction of new facilities resulted in the opening of Cedar Valley College and North Lake College in 1977. Brookhaven College, the final campus in the seven college master plan, opened in 1978.

In 1989, the Bill J. Priest Institute for Economic Development opened south of downtown Dallas. Named for the DCCCD's founding chancellor, the BJPIED serves the community through the Business and Professional Institute, Edmund J. Kahn Job Training Center, Small Business Development Center, Center for Government Contracting, Business Incubation Center and International Trade Resource Center.

Mission of the Dallas County Community College District

The mission of the DCCCD is to equip students for successful living and responsible citizenship in a rapidly-changing local, national and world community. We do this by providing accessible, accredited, affordable, cost-effective, quality educational opportunities for development of intellectual skills, job skills, personal growth and/or transfer to a baccalaureate program. In fulfilling our purpose, we further cultural, economic and workforce development in the communities we serve.

District Philosophy and Goals

Since 1972, the District has been known as the Dallas County Community College District. The name shows that the District has outgrown the term "junior college." The name also reflects the District's philosophy. The colleges truly are community institutions, meeting the varied educational needs of the growing Dallas County region. The primary goal of the District and its colleges is to help students of all ages achieve effective living and responsible citizenship in a fast-changing region, state, nation and world. Each college is therefore committed to providing a broad range of educational programs for the people it serves.

The needs, abilities and goals of each student are considered important. The focus is on creating an educational program for the individual rather than squeezing or stretching the individual to fit an "educational mold."

The Dallas County Community Colleges and the Bill J. Priest Institute for Economic Development are teaching, learning, community-building institutions. To fulfill the public trust the DCCCD:

- offers a student guarantee to the institutions and employers receiving its graduates;
- measures its collective and individual behaviors against a code of ethics and a statement of organizational values;
- makes decisions through a line organizational structure which receives input from those most affected by the decisions;
- strives to provide its services with revenues of -no more than 20% from student tuition -no more than 30% from local taxes; and -a minimum of 50% from the State;
- seeks to maintain the highest possible credit ratings;
- views itself as a team player in the local community of educators, business people, elected officials and other community leaders; and
- sees its role as a weaver of a seamless fabric of educational opportunity for the people of Dallas County.

As a major employer, the DCCCD:

- follows open search procedures which solicit the best available candidates for positions and which will provide a balanced workforce which reflects the ethnic composition of the adult workforce in Dallas County;
- involves those most directly affected by hiring decisions in the candidate review process; and
- seeks to assure that competent performers do not lose real compensation through inflation.
In its organizational culture, the DCCCD:
• places ultimate value on student success;
• applies the principles of continuous quality improvement to achieve student success; and
• uses technology not only to teach distant learners, but also to educate, train and retool both its students and its employees.

How do the colleges meet the educational needs of such a varied family? The answer is found in four categories of programs:

1. For the student working toward a bachelor's or higher degree, the colleges offer a wide range of first-year and second-year courses which transfer to senior colleges and universities.

2. For the student seeking a meaningful job, the colleges offer one-year and two-year programs in technical and occupational fields.

3. For the employed person wishing to improve job skills or to move into a new job, the colleges offer credit and non-credit adult educational courses.

4. For the person who simply wants to make life a little more interesting, the colleges offer continuing education programs on cultural, civic and other topics.

Additional programs are available for the high school student, dropouts and others with special needs. The colleges help each student design the educational program that best meets individual needs. Every student is offered advisement to define goals and identify abilities. Continued guidance is available throughout the student’s college career in case goals and plans change. This emphasis on advisement, rare for some institutions, is routine at all District colleges.

District Responsibilities
To carry out the District philosophy, the colleges obviously must offer a wide range of programs and courses, including guidance services. These programs and courses must help each individual attain a high level of technical competence and a high level of cultural, intellectual and social development. In addition, high professional standards for the academic staff must be maintained within a framework prescribed by the Board of Trustees. At the same time, the program and organization of each college must make maximum use of faculty and facilities.

The colleges have a basic responsibility to provide educational and cultural leadership to the community. They must be sensitive to changing community needs and adapt readily to those needs. Individuals capable of continuing their educational development should be given the opportunity to improve their skills. Finally, to continue to meet its responsibilities in changing times, the college system must guard against stagnation. Creativity and flexibility are therefore fostered at the District level and at each college.

League for Innovation
The Dallas County Community College District is a member of the League for Innovation in the Community College. The League is composed of 19 outstanding community college districts throughout the nation. Its purpose is to encourage innovative experimentation and the continuing development of the community college movement in America. Membership commits the District to research, evaluation and cooperation with other community college districts. The goal is to serve the community with the best educational program and the fullest use of resources.

Equal Educational And Employment Opportunity Policy
The Dallas County Community College District is committed to providing equal educational and employment opportunity regardless of sex, race, color, religion, age, national origin or disability. The District provides equal opportunity in accord with federal and state laws. Equal educational opportunity includes admission recruitment, extracurricular programs and activities, access to course offerings, counseling and testing, financial aid, employment, health and insurance services and athletics. Existing administrative procedures of the College are used to handle student grievances. When a student believes a condition of the College is unfair or discriminatory, the student can appeal to the administrator in charge of that area. Appeals to a higher administrative authority are considered on the merits of the case.

Family Educational Rights and Privacy Act Of 1974
In compliance with the Family Educational Rights and Privacy Act of 1974, the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone number, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports (7) dates of attendance, (8) educational institution most recently attended and (9) other similar information, including major field of study and degrees and awards received.

A student may request that all or any part of the directory information be withheld from the public by giving written notice to the Registrar's Office during the first 12 class days of a fall or spring semester or the first four class days of a summer session. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged; all requests must be made in person. No transcript or academic record is released without written consent from the student, except as specified by law.
Student Consumer Information Services

Pursuant to the Educational Amendment of 1980, Public Law 96-374, the College provides all students with information about its academic programs and financial aid available to students.

Standard Of Conduct

The college student is considered a responsible adult. The student's enrollment indicates acceptance of the standards of conduct published in this catalog.

If students are unable to complete the course (or courses) for which they have registered, it is their responsibility to withdraw formally from the course (or courses) for which they have registered. Failure to do so will result in their receiving a performance grade, usually an “F.”

Accreditation

Details and procedures relating to the review of accreditation, approval, and various licensing documents are available through the administrative offices located on each campus.

II. IMPORTANT TERMS AND ABBREVIATIONS

Academic advisor: A member of the college staff who helps students set educational goals and select courses to meet those goals.

Add: During any single semester, to enroll in additional course(s) after registration.

Admission: Formal application and acceptance as a credit student. A person wishing to enroll must complete an application, be accepted and receive a letter of acceptance from the Registrar before registering.

Audit: Enrollment in a credit course without receiving academic credit.

Catalog: The book containing course descriptions, certificate and associate degree requirements, and general information.

Class schedule: A booklet which is published prior to each semester listing classes, sections, dates, times, instructors' names and meeting places. This booklet is used by students in preparing personal class schedules each semester.

Common Course Numbers: Some course descriptions also indicate a Common Course Number. Beginning in the Fall of 1995, the Common Course Number became the official number of the course. This same Common Course Number is being used for this same course by a number of colleges throughout Texas to help students identify how a course will transfer. However, the lack of a Common Course Number does not necessarily mean a course will not transfer.

Common Learning: “General Education” as defined by the DCCCD. Common Learning courses contain learning experiences which provide knowledge and skills necessary for living well and functioning competently in rapidly-changing local, state, national and world communities.

Concurrent enrollment: (a) Enrollment by the same student in two different DCCC colleges at the same time; (b) Enrollment by a high school student in one of the DCCC colleges while still enrolled in high school; (c) Enrollment by a student in two courses in the same semester; (d) Enrollment in both a DCCC institution and another college at the same time; (e) Enrollment in both credit and Continuing Education courses at the same time.

Course Load: The number of hours or courses in which a student is enrolled in any given semester.

Credit: The numerical value assigned to a course (see “CREDIT HOURS/SEMESTER HOURS”).

Credit hours/semester hours: The unit of credit earned for course work. Each college course is worth a certain number of credit or semester hours. This number is determined by the type of class and the number of hours per week it meets. For example, a 3-credit hour class (English, history, etc.) meets 3 hours per week; a 4-credit-hour class (science, languages, etc.) meets 6 hours per week. Check this catalog or the current class schedule for the value of any course you wish to take.

Credit/non-credit: Credit classes are those which award academic credit and may apply toward a degree. Non-credit classes do not apply toward a degree and are usually offered through Continuing Education.

DCCCD: Dallas County Community College District comprised of Brookhaven, Cedar Valley, Eastfield, El Centro, Mountain View, North Lake, and Richland Colleges, plus the Bill J. Priest Institute for Economic Development.

Developmental Studies Courses: Courses which develop prerequisite skills in reading, writing and mathematics. Because of the nature of these courses, the credit earned will not count toward graduation requirements and may not be transferred to colleges outside the DCCCD.

Drop: The act of officially withdrawing from a particular course without penalty before a specified date. See the calendar at the first part of this catalog for “Last Day To Withdraw.” It is the student’s responsibility to drop a course by the date published.

Dual credit: Credit earned for both high school and college via concurrently enrolled high school students.

Electives: Courses which do not count toward a major but are required for most college degrees. Electives are selected for personal interest, skill development, or to increase one’s knowledge or understanding. Consult with an advisor before deciding upon electives.

Fee: A charge, in addition to tuition charges, which the college requires for services.

Flexible-entry course: A course beginning and ending on dates which are different from the regular semester. This is also referred to as “flex-entry” or “short semester
registration.” Consult the class schedule for further information.

**Former student:** One who has attended a DCCCD college in the past but not during the previous long semester.

**Full-time student:** A student who is enrolled for at least 12 credit hours during a semester or for 6 credit hours during a summer session.

**GPA:** Grade Point Average. Two different ways of computing a GPA are utilized. For further explanation, see catalog section entitled “Scholastic Standards.”

**Grade points:** See catalog section entitled “Scholastic Standards.”

**Grades:** See catalog section entitled “Scholastic Standards.”

**Lab hours:** The number of hours a student spends each week in a laboratory or other learning environment.

**Lecture hours:** The number of hours a student spends each week in a classroom other than a laboratory.

**Major:** The subject or field of study in which the student plans to specialize. For example, one “majors” in Automotive Technology, Business, etc.

**Part-time student:** A student who is enrolled for less than 12 credit hours during a semester or 6 credit hours in a summer session.

**Performance grade:** A grade of A, B, C, D or F. This does not include the grades of W, I or WX. See catalog section on “Academic Information” for more on grades and grade point averages.

**Prerequisite:** A requirement which must be met BEFORE enrolling for a specified course. For example, the prerequisite for English 1302 is the successful completion of English 1301. A prerequisite may be another course (high school or college), an appropriate assessment score, or permission of the instructor.

**Probation:** A warning for a student whose academic work or behavior is unsatisfactory. Students on academic probation may be suspended if their academic performance does not improve.

**Registration:** The official process for enrolling in courses. This involves selecting classes with the help of an advisor, completing all registration forms and paying fees. Check the class schedules for registration dates.

**Section:** A number indicating day/evening, hour, room number and name of instructor for a particular course. For example, the section number differentiates among the various classes of English 1301.

**Semester:** A term denoting the length of time a student is enrolled in a specific course. For example, there are two long semesters (Fall and Spring) which last approximately 16 weeks. There are two summer sessions or “semesters” (Summer I and Summer II) which last approximately 5½ weeks.

**Skills for Living:** Skills needed for living well with oneself, others and changing environments. Skills for Living are discussed and learned throughout the curriculum and provide basic goals for all Common Learning courses.

**Student services fee:** A fee for activities and services to students, which are considered separate and apart from the regularly scheduled academic functions of the college. Such activities and services include, but are not necessarily limited to, the following: health services, recreational activities, automobile parking privileges, intramural and intercollegiate athletics, artists and lecture series, cultural entertainment series, student publications, and/or student clubs/government.

**TASP:** Texas Academic Skills Program; see special section in this catalog about this testing program.

**Technical/occupational courses:** Courses which lead to a certificate or Associate of Applied Science Degree in a technical or occupational program. These courses are designed to aid the student in developing entry-level skills to be utilized in the job market. Consult an advisor regarding transferability if you plan to attend a four-year institution.

**Tech-Prep:** Tech-Prep is an educational process which prepares students for emerging, technologically-advanced careers.

**Telecourses:** Courses providing flexibility and convenience for students seeking college credit with minimum campus visits. Students watch the course television programs at home on regular broadcasts or cablecasts, complete the study guide and reading assignments, take tests on campus and attend optional discussion meetings. Instructors are available during regular office hours or via telephone when assistance is needed.

**Transfer courses:** Courses which are designed to transfer to other colleges and universities. Students need to consult with an advisor or counselor about the transferability of specific courses. Because a course will transfer does not mean it will apply toward a specific major or degree at a four-year college or university.

**Transcript:** An official copy of a student’s academic record which can be obtained through the Admissions Office. An official transcript must have the seal of the college affixed and the signature of the Registrar.

**Withdrawal:** The act of ending enrollment in classes. A student withdrawing must go through a formal procedure. It is the student’s responsibility to withdraw officially by the appropriate date. See the calendar in this catalog or the class schedule for the “Last Day to Withdraw.”

**TASP:** Texas Academic Skills Program; see special section in this catalog about this testing program.

**III. ADMISSIONS AND REGISTRATION**

**General Admissions Policy**

The College has an “open door” admissions policy. It insures that all persons who can profit from post-secondary education have an opportunity to enroll. The College requires certain assessment procedures for use in course placement. Assessment is not used to determine admission except for students concurrently enrolled in high schools and for those wishing to enroll in “special admissions” programs.
Admission Requirements

Documentary evidence of Texas residency must be provided by all applicants claiming Texas residence and requesting resident tuition classification. This evidence must be submitted with the application for admission and must prove twelve (12) months of Texas residency immediately prior to the semester of enrollment. Failure to provide evidence will result in an applicant being classified as a non-resident for tuition/fee purposes. Contact the Admissions Office for specific information detailing required documentation.

It is recommended, although not required, that all prospective students have adequate immunization for diphtheria, rubeola, rubella, mumps, tetanus and poliomyelitis. Health related programs may require specific immunizations prior to admission. Information is provided at orientation sessions.

Beginning Freshmen

Students enrolling in college for the first time who fit one of the following categories may apply for admission:

a. Graduates from accredited high school;

b. Graduates of an unaccredited high school who are 18 years of age or older;

c. Those who have earned a General Education Diploma (G.E.D.);

d. Those who are at least 18 years of age and who do not have a diploma or G.E.D. may be admitted by individual approval;

e. Those who are under the age of 18, are no longer enrolled in high school of any kind, and who do not have a diploma nor a G.E.D. may be admitted by one of the following:

(1) Written recommendation of the principal or superintendent of the last high school attended, or

(2) On the basis of completion of the college's assessment program with the results indicating the student has the ability to benefit from the college's curricular offerings.

f. Those who are under the age of 18, did not graduate from an accredited school, but who graduated from a non-accredited high school, or were schooled in a non-traditional setting (i.e., home-schooled) may be admitted by meeting all of the following conditions:

(1) Written recommendation of the principal or superintendent of the last high school attended, or on the basis of completion of the college's assessment program with the results indicating the student has the ability to benefit from the college's curricular offerings;

(2) Present a notarized record of the high school equivalent work completed and the date of successful completion; and

(3) Agree to limitations on conditions of admission established by the college.

Students Enrolled in High School

While no high school student may enroll in remedial courses, students still enrolled in high school may be admitted under the following conditions:

a. Students who have completed their junior year in an accredited high school may be admitted upon the written recommendation of the high school principal and must present scores on ACT/SAT or the college assessment program with results indicating the ability to complete college-level work. Such students may take no more than two courses each semester.

b. Students who have not completed their junior year at an accredited high school may be admitted upon meeting all the following conditions:

(1) The written recommendation of the high school principal;

(2) Presentation of scores on the ACT/SAT or college assessment program which indicate the student has the ability to complete college-level work;

(3) Approval of the Vice President of Instruction or designate. Such students may take no more than two courses each semester.

c. Students who are enrolled in non-accredited high schools or schooled in a non-traditional setting (i.e., home-schooled) and who have completed the equivalent of the junior year (16 units) in high school may be admitted by meeting all the following conditions:

(1) Provide a notarized record of the school subjects completed (consistent with the Texas Education Agency minimum requirements);

(2) Presentation of scores on the ACT/SAT or college assessment program with results indicating the ability to do college-level work;

(3) Agree to limitations on conditions of admission. Students may take no more than two courses each semester.

d. Students who are enrolled in non-accredited high schools or schooled in a non-traditional setting (i.e., home-schooled) and have not completed the equivalent of the junior year (16 units) in high school may be admitted by meeting all the following conditions:

(1) Provide a notarized record of the school subjects completed (consistent with the Texas Education Agency minimum requirements);

(2) Presentation of scores on the ACT/SAT or college's assessment program with results indicating the ability to do college-level work;
take TASP during their initial semester of enrollment.

colleges/universities who are not TASP exempt, and who have accumulated more than 9 college-level credit hours, must take TASP in the semester which they accumulate their 9th college-level credit hour; and

Students may take no more than two courses each semester; and

Approval of the Vice President of Instruction or designate.

Transfer Students

An applicant is eligible for admission for enrollment from an accredited collegiate institution as defined in the "Transfer of Credit" section of the catalog and must meet the following conditions:

a. Present a complete transcript bearing impression of seal and signature of college/university official of each institution attended. Transcripts, which must be received no later than the mid-semester date of the semester in which the student first enrolls, should include the previous admission record and evidence of honorable dismissal. Students not submitting transcripts prior to enrollment may be excluded from taking certain courses having prerequisites. Transcripts received become the permanent property of the college. Recipients of baccalaureate and/or graduate degrees from accredited colleges and universities may submit a copy of a college/university diploma in lieu of transcripts. A student transferring from another collegiate institution is not at liberty to disregard his/her collegiate record by applying as a beginning student. The college reserves the right to review academic credentials and/or transcripts from other higher education institutions for purposes of evaluating the acceptability of credits. An applicant who fails to report all accredited college/university course work will be subject to disciplinary action (including expulsion) and possible loss of credit for subsequent course work taken at the college.

b. Meet the minimum academic standards of the college. If an applicant on enforced scholastic withdrawal or suspension from another institution meets the minimum academic standards of the college, the applicant may petition for admission to the Admissions Committee of the college. Admission may be provisional and enrollment may be limited as to credit hours and course work.

c. Meet all TASP requirements as shown below.

(1) Transfers from other Texas public college/universities and who are not TASP exempt must present TASP scores if they have accumulated 9 or more college-level hours if they wish to enroll in any college-level coursework;

(2) Transfers from any college/university who are not TASP exempt, and who have accumulated less than 9 college-level credit hours, must take TASP in the semester which they accumulate their 9th college-level credit hour; and

(3) Transfers from private and/or out-of-state colleges/universities who are not TASP exempt, and who have accumulated more than 9 college level hours, must take TASP during their initial semester of enrollment.

Former Students

Students formerly enrolled in the Dallas County Community College District must update their application for admission to any District college. Students with unsettled financial debts or whose record is blocked for any other reason at any District college will not be allowed to register.

Academic Forgiveness Policy

In keeping with SB1321 passed into legislation in 1993, any state resident may elect not to have the college utilize college credits on courses which are ten (10) years or older. Should the student elect this option, no college courses or credits ten (10) years or older will be evaluated for credit. Students may not selectively choose courses ten (10) years or older to be utilized. This provision does not relieve students from notifying the college of attendance at previous institutions nor of the need to submit transcripts indicating all previous course work attempted. Students electing this option must notify the Office of the Registrar upon submission of application for admission.

Non-Credit Students

Students enrolling for non-credit courses apply through the Office of Continuing Education.

International Students

The College is authorized under federal law to enroll non-immigrant students carrying valid visas. International students are admitted once all admission requirements are complete. International students on F-1, J-1, M-1, B-1, B-2 visas must:

1. Contact the institution to request international student admission information;

2. Provide official TOEFL (Test of English as a Foreign Language) scores of 525 or higher to meet the English proficiency requirement and be considered for academic credit.

Students who meet one of the following criteria will be excused from the TOEFL requirement:

a. A graduate of accredited U.S. college or university;

b. A native speaker of English from a country in which English is the primary language of the majority as documented by the Cambridge Encyclopedia of Languages. (See international admissions advisor for list of approved countries.)

Upon admission, all international students are required to complete DCCCD assessment for academic advisement and placement. If adequate English proficiency is not demonstrated through this assessment, placement in additional English language courses will be required.

3. Show documented evidence of sufficient financial support for the academic year;
4. Provide written proof of negative tuberculin skin test or chest X-ray, diphtheria/tetanus immunizations taken within the last ten years, measles and rubella vaccines taken since January 1, 1968, and polio immunization if the student is under nineteen years of age; 
5. Submit official transcripts from each college or university previously attended with a minimum of "C" average; 
6. Fulfill all admission requirements before the deadline designated by the College for international students and receive approval for admission from international admissions advisor.

Upon admission, students must present all original immigration documents including a valid visa (I-94 arrival/departure record) and unexpired passport to be copied and kept on file.

F-1 students must receive and secure the Form I-20AB from each new school attended. F-1 students must enroll in a minimum of 12 credit hours and maintain full-time enrollment during each regular semester in order to maintain visa status.

In addition to the requirements stated above, international students wishing to transfer from another U.S. institution must also:
1. Present documentation indicating valid non-immigrant status;
2. Provide official transcripts or documented proof verifying that the student is "in-status" and has been pursuing a full course of study during the term immediately preceding the transfer from the institution last authorized by INS for attendance.

International students are subject to the requirements of the Texas Academic Skills Program (TASP).

**Evaluation of Foreign Credentials**

Coursework completed at colleges and universities outside the United States will be considered for transfer on an individual basis. All foreign credentials submitted to the college must include the original plus a certified English translation.

An official evaluation of foreign credentials must be completed before transfer credit can be granted. The student is responsible for arranging for credential evaluation. A partial list of acceptable professional evaluation services is available in the District Office of Student and International Programs or the Office of the College Registrar. The student is expected to pay all costs of translation and/or evaluation of foreign credentials.

Evaluations of foreign credentials completed by individuals and/or by professional evaluation services are subject to review and approval by the Director of Admissions and Registrar.

**Application and Admissions Procedures**

Applications may be submitted any time prior to registration. Early application is essential because the student’s place in registration is determined by the date of the applicant’s file; submitting admissions documents early also insures that there is adequate time for effective advisement and schedule planning. A later place in registration often means that the classes a student desires may already be filled as all District colleges conduct early registration in some form.

Applicants must submit the following material to the Admissions Office to have a complete admissions file:

a. An official application, available from the Admissions Office;

b. Test Scores: Students who have ACT, SAT and/or TASP test scores taken within the last five (5) years are strongly urged to submit those scores to the college.

c. Official Transcripts: The following MUST be submitted — (1) a beginning student is required to furnish a transcript of the student’s high school record; (2) a college transfer student is required to furnish official transcripts of all college work attempted. The College accrediting agency requires transcripts, and the College uses them in program advisement. IT IS ABSOLUTELY ESSENTIAL THAT TRANSFER STUDENTS SUBMIT OFFICIAL TRANSCRIPTS FROM COLLEGES PREVIOUSLY ATTENDED. If transcripts are not submitted, future enrollment of the student will be blocked and a transcript of work attempted at any DCCCD institution will not be released.

An official transcript must bear the institution’s embossed seal, and signature of the Registrar. Although transcripts sent electronically over the Electronic Transcript Network will be considered official, a photocopy or facsimile (FAX) is not an official transcript.

Students entering with academic deficiencies or low assessment scores may be admitted on probation and will be required to enroll in developmental or other programs designated by the college.

All applicants may select only those classes available when they register. Students may enroll in certain courses at times other than regular semester registration. See the Flexible Entry courses selection in this catalog and contact the Registrar's Office for additional information.
Reciprocal Tuition Agreement

The following Associate of Applied Science Degrees offered by the Dallas County Community College District may be taken by Tarrant County residents at in-county tuition rates:

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<th>PROGRAM</th>
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<td>Apparel Design</td>
<td>ECC</td>
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<td>Automotive Technology</td>
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<td>Dealership-sponsored Technician</td>
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<td>Service Technician</td>
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<td>Fixed Base Operations</td>
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<td>Electronics Engineering</td>
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<td>Dance Activity</td>
<td>MVC</td>
</tr>
<tr>
<td>Bowling Class</td>
<td>MVC</td>
</tr>
<tr>
<td>Private Music Lesson Fee</td>
<td>MVC</td>
</tr>
<tr>
<td>Visual Communications</td>
<td>MVC</td>
</tr>
<tr>
<td>Vocational Nursing</td>
<td>MVC</td>
</tr>
</tbody>
</table>

**Tuition**

Tuition is charged on a sliding scale according to the number of credit hours for which a student is enrolled and the student’s place of legal residence. Tuition is subject to change without notice by the Board of Trustees or the Texas Legislature.

**Additional Fees**

Additional fees may be assessed as new programs are developed with special laboratory costs. These fees will always be kept to a practical minimum. A graduation fee is not assessed, but each student must pay for cap and gown rental.

**DCCCD Concurrent Enrollment and Fees**

For those students enrolling in more than one DCCCD college, all fees must be paid at the first college prior to enrolling at a second college.

**Special Fees and Charges**

**Technology Fee:** There will be a student technology fee of $10.00 assessed for each credit student each semester.

**Registration Fee (Non-refundable):** There will be a $5 non-refundable Registration Fee assessed each semester.

**Schedule Change Fee:** A schedule change fee will be charged for any form of “drop” from a class. The fee is $10 per transaction during early registration and $15 per transaction beginning on the first day of regular registration. No fee will be applied after the appropriate official reporting date of the regular semester or summer session. A schedule change fee will not be assessed on “add only” transactions.

**Laboratory Fee:** $4 to $12 a semester (per lab).

**Class Fee:** Variable special costs of course not otherwise defined as “Laboratory Fee.” Rental costs of specialized equipment and off-campus facilities are examples of “class fees.”

**Physical Education Activity Fee:** $4 a semester.

**Dance Activity Fee:** $8 a semester.

**Bowling Class Fee:** Student pays cost of lane rental.

**Private Music Lesson Fee:** $45 for one hour per week (maximum) for one course, $25 for one half hour per week.

**Audit Fee:** The charge for auditing a course is the same as if the course were taken for credit.

**Credit by Examination:** A fee will be charged for each examination. This fee can change without prior notice.

Continues following tuition & fees schedule
TUITION AND STUDENT SUPPORT FEES
Fall and Spring Sessions
NOTE: A STUDENT REGISTRATION FEE OF $5.00 WILL BE INCLUDED IN THE TUITION FOR EACH CREDIT STUDENT EACH SEMESTER. THIS FEE IS NON-REFUNDABLE UNLESS A CLASS IS CANCELLED OR INSTITUTIONAL ERROR IS MADE.

TUITION REQUIREMENTS FOR LONG TERM:
1. Dallas County Residents $18.00 per credit unit through ten credit units and $16.00 for each additional credit unit over ten credit units; minimum of $54.00
2. Out-of-District Residents $37.00 per credit unit through ten credit units and $16.00 for each additional credit unit over ten credit units; minimum of $110.00
3. Out-of-State Residents $67.00 per credit unit; minimum of $200.00
4. Out-of-Country Residents $140.00 per credit unit; minimum of $200.00

SUMMER SESSION
1. Dallas County Residents $20.00 per credit unit through six credit units and $14.00 for each additional credit unit over six credit units; minimum of $60.00
2. Out-of-District Residents $50.00 per credit unit through six credit units and $14.00 for each additional credit unit over six credit units; minimum of $150.00
3. Out-of-State Residents $73.00 per credit unit; minimum of $225.00
4. Out-of-Country Residents $73.00 per credit unit; minimum of $225.00

The charge for auditing a course is the same as taking the course for credit.

Effective Date: Fall Semester, 1995

The following definitions are brief guidelines only; please discuss any questions regarding proper tuition classification with admissions office personnel.

The tuition schedule above is subject to change without notice by action of the District Board of Trustees or the State of Texas.

By law (TEC: section 4, subchapter B, chapter 54; sec. 54.0521, 1985), the STATE OF TEXAS requires that the OATH OF RESIDENCY be signed.

The law states that if the institution later determines that the individual was not entitled to be classified as a resident at the time of the individual's registration, the individual shall pay to the institution the amount the individual should have paid as a non-resident. If the individual fails to make a timely payment as required, the individual is not entitled to receive a transcript or to receive credit for courses taken during the time the individual was falsely registered as a resident student.

The OATH OF RESIDENCY IS NOT ACCEPTABLE IN LIEU OF DOCUMENTARY EVIDENCE.

If you are an out-of-state resident or an out-of-country student and you (or the parent on whom you are dependent) own property subject to ad valorem tax by the college District, you may qualify for a waiver of tuition to the In-District rate. Please check with the college Admissions Office for additional details. A foreign national is not eligible for the waiver unless under a permanent resident visa.
Refund Policy

The refund policy of the District is based on the fact that student tuition and fees provide only a fraction of the cost of offering educational opportunities. When students enroll in a class, they reserve places which cannot be made available to other students until they officially drop the class. In addition, the original enrollment of students represents a sizable cost to the District regardless of continuance in that class. Therefore, a refund is made only under the following conditions:

1. Federal Family Educational Load Programs
2. Federal Direct Loan Programs
3. Federal Pell Grant Program
4. Federal SEOG Program
5. Other Title IV programs
6. Student

For additional information about this pro-rata refund, contact the Financial Aid Office.

Separate refund schedules may be established for optional fees such as intercollegiate athletics, cultural entertainment, parking, etc.

Tuition and fees paid directly to the institution by a sponsor, donor, or scholarship shall be refunded to the source rather than directly to the student.

(1) Official withdrawal:

Students who officially withdraw from the institution shall have their tuition and mandatory fees refunded according to the following schedule:

**Fall and Spring Semesters**
Prior to the first class day of the semester... 100%*
During the first five class days of the semester... 80%*
During the second five class days of the semester... 70%*
During the third five class days of the semester... 50%*
During the fourth five class days of the semester... 25%*
After the fourth five class days of the semester... none

**Summer Semesters**
Prior to the first class day of the semester... 100%*
During the first, second or third class day of the semester... 80%*
During the fourth, fifth or sixth class day of the semester... 50%*
After the sixth class day of the semester... none

(2) Official drop of a course or courses:

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

**Regular Session**
During the first twelve class days of the semester... 100%*
After the twelfth class day of the semester... none

**Summer Session**
During the first four class days... 100%*
After the fourth class day... none

*Registration and any applicable Schedule Change Fees are non-refundable even if one is due a refund.

The first “class day” is to be counted as the officially published date when the semester begins. The first “class day” means the first day ALL classes begin for the semester, not the first day a student’s class is scheduled to meet. No refunds are issued after the last class day of each semester.

The federal law requires that the college refund unearned tuition and fees to all first-time students receiving financial aid who have not completed 60% of the enrollment period for which they have been charged.

The calculated refund will be returned to the federal funds in the following order:

1. Federal Family Educational Load Programs
2. Federal Direct Loan Programs
3. Federal Pell Grant Program
4. Federal SEOG Program
5. Other Title IV programs
6. Student

For additional information about this pro-rata refund, contact the Financial Aid Office.

Separate refund schedules may be established for optional fees such as intercollegiate athletics, cultural entertainment, parking, etc.

Tuition and fees paid directly to the institution by a sponsor, donor, or scholarship shall be refunded to the source rather than directly to the student.

(3) A student dropping a portion of his or her class load after the twelfth class day of a fall or spring semester (fourth class day of a summer session) is not entitled to a refund unless approved by the Refund Petitions Committee.

(a) Refund petitions, accompanied by an explanation of any existing circumstances, shall be submitted to the Refund Petitions Committee on the campus.

(b) If the petition is approved by the committee, the student shall be notified and shall receive a refund of tuition and fees according to the appropriate schedules in this policy.

(4) Requests for refunds will not be accepted after the end of the semester or summer session for which the refund is sought. Cash refunds are not issued. Refund checks are mailed to the student at the address on file in the Admissions/Registrar’s Office.

(5) Mandatory fees shall include, but not be limited to, registration fee, student activity fees, laboratory fees, private lesson fees, and physical education activity fees.

(6) Flexible entry courses are to be handled as regular semester-length courses. The refund schedule will be prorated accordingly.

(7) REFUND CHECKS NORMALLY REQUIRE A MINIMUM OF ONE MONTH FROM DATE OF APPROVAL FOR PROCESSING.

(8) The college academic calendar and the class schedule shall specify the last day for withdrawal with refund.

Returned Checks

Checks returned to the Business Office must be paid with cash or a cashier’s check within the time limits prescribed by the notification letter. An additional fee is added for returned checks. If a check for tuition is returned by the bank for any reason, including stop payment, the College Business Office may submit the
check to the Justice of the Peace for appropriate legal action and collection. The Vice President of Student Development may also implement disciplinary procedures. Students may be dropped from courses due to returned checks.

**Assessment and Advisement Procedures**

Assessment is the process of evaluating readiness for certain college courses and the probabilities for success in those courses. The College has an assessment and advisement program for entering students which is a required part of the enrollment process.

The assessment program includes the completion of a questionnaire which documents information on career and work plans, previous academic achievement and other relevant information. Assessment also includes an examination of individual skill levels in reading, writing, and mathematics. Information on skills may come from ACT, SAT, previous college-level work or from scores on the standardized tests administered free of charge by the College. Students who have taken TASP also need their TASP scores.

Because of the importance of such information, students should have official copies of ACT, SAT, or TASP scores and transcripts mailed to the Admissions Office or bring them personally at the time of application. It is the responsibility of the student to have these available at the time of enrollment.

The assessment program provides information needed in advisement. Academic advisement sessions provide a framework for informed decision-making on the part of students and advisors. Information on a student's skills, abilities, career plans, educational background, life experiences and motivation is important in helping the student and advisor make selections from the many educational options available. However, the College reserves the right to insist students enroll in the appropriate remediation should assessment results indicate a need for the improvement of skills in reading, writing and/or mathematics.

Details of assessment and advisement procedures are available through the College Counseling/Advisement Center, International Center, or in the "Schedule of Classes" each semester.

Students who did not have at least 3 college-level credit hours prior to the 1989 Fall Semester must take the TASP (Texas Academic Skills Program) test either prior to, or during, their semester of enrollment in their 9th college-level credit hour. Such students must report TASP scores prior to their next semester of enrollment.

Should students fail either the reading, writing, or mathematics section of TASP, they will be required, as mandated by Texas State Law, to participate in the appropriate remediation continuously until the failed section is passed.

**Change of Schedule**

Students should be careful in registering to schedule courses only for the days and hours they can attend. Students requesting class changes should contact the Registrar's Office during the time specified in the current class schedule. A schedule change fee will be charged for any form of "drop" from a class, except in the case of classes cancelled by the college. No change is complete until it has been processed by the Registrar's Office.

**Non-Credit Student (Audit)**

A person who meets the admission requirements of the District may, with the consent of the division dean and instructor, enroll in a credit course as a non-credit student. A non-credit student may attend class, but will not receive a final grade nor credit for a course. An instructor may give such non-credit students an examination if the instructor determines the examination is an essential component of the learning process. The fee in a credit course is the same for a non-credit student as for a credit student except that a student service fee may not be charged.

**Acceptance of Credit in Transfer**

Credit for courses in which a passing grade (D or better) has been earned may be transferred to the College from colleges and universities accredited through one of the following associations:

- Middle States Association of Colleges and Schools/Commission on Higher Education
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Colleges and Schools/Commission on Colleges
- Southern Association of Colleges and Schools/Commission on Colleges
- Western Association of Schools and Colleges/Accrediting Commission for Senior Colleges
- Western Association of Schools and Colleges/Accrediting Commission for Community and Junior Colleges

It is the responsibility of the College not to transfer credits received from any United States institution not so
accredited except where signed agreements between the College and other institutions exist. However, students who have gained proficiency through completion of coursework from non-accredited institutions may receive college credit through credit-by-examination/credit by experience.

Course-by-course evaluation will be completed by the registrar or other appropriate college personnel as needed for degree or program planning. Individual courses transferred will not be posted to the College's student record. Official transcripts from all higher education institutions must be on file in the Registrar's Office.

Students are referred to the section found elsewhere in this catalog entitled "Academic Forgiveness Policy."

Credits earned through other education programs, such as credit-by-examination, military experience, and the U.S. Armed Forces Institute, are reviewed by the Registrar and credit may be granted if applicable.

Official transcripts from all higher education institutions and a request for a degree plan evaluation must be on file before the evaluation can be accomplished in the Registrar's Office. Any questions concerning the validity of the document(s) will result in the need to have an official transcript(s) sent directly from the other institution(s) to the Registrar's Office. Transfer students admitted with a grade point deficiency cannot graduate until the deficiency is cleared by earning additional grade points.

Address Changes and Social Security Number

Each student has the responsibility to inform the Registrar's Office of changes in name or address. Each applicant for admission is asked to furnish a Social Security number. This number doubles as a student identification number and insures accuracy of student records. If a student does not have a Social Security Number, or does not choose to use the Social Security Number, the College will assign a student identification number.

TASP (Texas Academic Skills Program) Test

The Texas Academic Skills Program (TASP) is required by state law to insure that students enrolled in Texas public colleges possess the academic skills needed to perform effectively in college-level coursework. TASP includes a testing component designed to identify and provide diagnostic information about the reading, mathematics, and writing skills of students.

Students who entered the DCCCD Fall, 1989, or thereafter, must take the TASP test prior to accumulating, or during the semester of enrollment in, 9 hours of college credit, and must report TASP scores prior to their next DCCCD enrollment. Students who have had at least 3 hours of college-level credit prior to Fall, 1989 are exempt from the TASP requirement. Students enrolled in certain DCCCD Certificate programs may be waived from the TASP requirement while completing their certificate. Upon completion of the certificate program, all TASP requirements will apply.

The following students are TASP-exempt: Students whose composite Enhanced ACT is 29 or higher with individual math and English scores of at least 27; or whose SAT composite score is at least 1200 with Verbal and Math scores each of at least 550 if taken prior to April, 1995; if taken April, 1995 or thereafter, the SAT composite score must be at least 1270 with a minimum SAT verbal of 620 and a minimum SAT math of 560; or with TAAS scores of at least 1800 on each of the three sections. (ACT/SAT scores must have been taken within the last five (5) years; TAAS scores must have been within the last three (3) years and are valid for TASP exemption ONLY if testing occurred in grades 10, 11 or 12.)

Students transferring with hours earned at other Texas public institutions must take TASP before or during the semester in which they earn nine (9) college-level hours; in other words, the hours earned at other Texas public institutions are used to compute the nine hours. Students transferring from private or out-of-state institutions must take TASP before or during the semester in which they have earned nine (9) college-level hours in a Texas public college/university; in other words, while public hours count toward the nine (9) hours, private/out-of-state hours do not count toward this limit.

Students who earned between nine (9) and 14 college-level hours in the DCCCD between Fall, 1989 and Summer II, 1993 AND who have not attended a Texas public college since that time must take TASP during their next semester of enrollment in the DCCCD. While these students entered when state TASP rules allowed DCCCD students to take up to 15 college-level hours before they had to take TASP, these state regulations have been changed.

TASP scores may be utilized in some cases in place of the DCCCD Assessment Program, except in math. Students scoring below the state-determined level in any TASP area must continuously participate in appropriate remediation until such time as the TASP Test is passed. A student who wishes to withdraw from a mandated remedia- tion course must drop all college-level courses. The successful completion of TASP may be a prerequisite to enrollment in some courses. In addition, course placement-ment also may be based on the results of the DCCCD assessment.

DCCCD students must pass all sections of TASP prior to being awarded the Associate of Arts and Sciences Degree, the Associate of Arts and Sciences Degree in Business, the Associate of College/University Transfer or the Associate of Applied Science Degree. Students planning to transfer must pass all TASP sections before enrolling in upper division (junior or senior level) courses.

For more complete information on TASP, contact the Counseling/Advisement Center; to obtain a copy of the TASP Registration Bulletin, contact the Testing/Appraisal Center. Students must preregister to take TASP. All test fees are to be paid by the student although financial aid may be available to offset the cost for eligible students.
IV. ACADEMIC INFORMATION

Scholastic Standards: Grades and Grade Point Average

Final grades are reported for each student for every course according to the following grading system.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4 points</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3 points</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2 points</td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1 point</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0 points</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>Not computed</td>
</tr>
<tr>
<td>WX</td>
<td>Progress; re-enrollment required</td>
<td>Not computed</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
<td>Not computed</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>Not computed</td>
</tr>
</tbody>
</table>

Grade points earned for each course are determined by multiplying the number of points for each grade by the number of credit hours the course carries. For example, a student who takes a three hour course and earns an “A” accumulates 12 grade points for that course. A student’s grade point average is computed by adding the total grade point values for all courses and dividing by the number of credit hours attempted during the same period. For example, a student who takes the following courses and earns the following grades has a grade point average of 2.93:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hour course</td>
<td>A</td>
<td>8</td>
</tr>
<tr>
<td>3-hour course</td>
<td>B</td>
<td>9</td>
</tr>
<tr>
<td>4-hour course</td>
<td>B</td>
<td>12</td>
</tr>
<tr>
<td>3-hour course</td>
<td>C</td>
<td>6</td>
</tr>
<tr>
<td>Total Credit Hours:</td>
<td>Total Grade Points:</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>35</td>
<td></td>
</tr>
</tbody>
</table>

12 = 2.93

The student’s transcript and grade reports will indicate two different GPA’s. GPA(1) is based upon all DCCCD courses in which the student received a performance grade of A-F. GPA(1) is utilized to determine Suspension/Probation status, athletic participation eligibility, and financial aid eligibility. GPA(2) is based upon grade points earned in all DCCCD courses with the exception of those courses numbered below 1000, ARTS 1170, MUSI 1175, and DRAM 1170 in which a student received a performance grade of A-F. GPA(2) is utilized to determine eligibility for graduation, honor rolls, and eligibility in Who’s Who in American Junior Colleges. It is also the GPA which may be considered by four-year institutions when a student transfers.

For repeated courses, only the latest grade earned is included in cumulative grade point averages even if the latest grade is lower than a preceding grade. However, transcripts do indicate all work attempted and completed in the District. When a student withdraws from a course being repeated, the cumulative grade point average is calculated by using the immediately preceding grade in the same course.

If a student believes an error has been made in determining a course grade, the instructor or appropriate division office should be contacted as soon as possible. Requests for grade changes will not be considered later than two years following the last day of the semester for which the grade was assigned.

An incomplete grade of “I” may be given when an unforeseen emergency prevents a student from completing the work in a course. The “I” must be converted to a performance grade (A-F) within 90 days after the first day of classes in the subsequent regular semester. If the work is not completed after 90 days, the “I” is converted to a performance grade.

An Incomplete Contract is used to convert an incomplete grade to a performance grade and states the requirements for the satisfactory completion of the course. The Incomplete Contract must be agreed upon and signed by the instructor, the student and the division dean and submitted with the final grade report. When an Incomplete Contract must be submitted without the student’s signature, the instructor must include a statement indicating that the student is aware of and in agreement with the contract.

Students who do not complete course requirements may receive a "WX" grade when the instructor determines that reasonable progress has been made and when the student can reenroll for course completion prior to the certification date in the next regular semester. If the student does not complete the course requirements, the “WX” is converted to a performance grade.

Acceptable Scholastic Performance

College work is measured in terms of credit hours. The number of credit hours offered for each course is given with the course description.

Acceptable scholastic performance is the maintenance of a grade point average, based on GPA (1), of 2.0 (on a 4.0 scale) or better. Students may not be graduated from any degree or certificate program unless they have a cumulative grade point average of 2.0, based on GPA (2), or better. Grade points and hours earned in courses numbered below 1000, ARTS 1170, MUSI 1175, and DRAM 1170 cannot be used to meet graduation requirements.

Recommended Academic Load

The maximum academic load is 18 credit hours of course work per semester or five classes plus physical education. Students must receive permission of the appropriate college official to carry a heavier load. Employed
students carrying a full load (12 credit hours or more) should not work more than 20 hours per week. Students working more hours should reduce their academic load proportionately. The recommended load limit for day or evening students who are employed full-time is six credit hours. The recommended load limit in a six-week summer session is six credit hours. A total of 14 credits is the maximum that may be earned in any 12-week summer period.

Classification of Students

**Freshman:**
A student who has completed fewer than 30 credit hours.

**Sophomore:**
A student who has completed 30 or more credit hours.

**Part-time:**
A student carrying fewer than 12 credit hours in a Fall or Spring semester.

**Full-time:**
A student carrying 12 or more credit hours in a Fall or Spring semester.

Class Attendance

Students are expected to attend regularly all classes in which they are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs.

Instructors are responsible for describing attendance policies and procedures to all students enrolled in their classes. If a student is unable to complete a course (or courses) in which he/she is registered, it is the student’s responsibility to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year and in each semester’s class schedule.) If the student does not withdraw, he/she will receive a performance grade, usually a grade of “F.”

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 Tx. Educ. Code.

Dropping A Course Or Withdrawing From College

To drop a class or withdraw from the College, students must obtain a drop or withdrawal form and follow the prescribed procedure. It is the student's responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually a grade of “F.” Should circumstances prevent a student from appearing in person to withdraw from the College, the student may withdraw by mail by writing to the Registrar. A drop/withdrawal request by mail must be received in the Registrar’s Office by the semester deadline. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar and the current class schedule. See “Refund Policy” for possible refund eligibility.

**STUDENTS WHO WITHDRAW FROM A MANDATED REMEDIATION COURSE AS A RESULT OF TASP PERFORMANCE MUST ALSO WITHDRAW FROM ALL COLLEGE-LEVEL COURSES.**

Academic Recognition

**Full-time:**
Students who complete at least 12 hours of college-level credit and earn a grade point average of 3.5-3.79 are listed on the Vice President's Honor Roll. Full-time students who complete at least 12 hours of college-level credit and average 3.8-4.0 are placed on the President's Honor Roll. Part-time students who take 6-11 college-level credit hours and maintain a 3.5 or higher grade point average are placed on the Academic Recognition List. GPA(2) is utilized to determine academic recognition.

**Scholastic Probation, Scholastic Suspension, and Academic Dismissal**

**Scholastic Probation**
Students who have completed a total of nine (9) credit hours with a performance grade of A, B, C, D or F and who have a grade point average based on GPA(1) of less than 2.00 will be placed on Scholastic Probation. A student on Scholastic Probation may re-enroll at the College if a minimum 2.00 grade point average based on GPA(1) is earned in each semester or summer term.

If a student on Scholastic Probation fails to meet the above requirements in a given semester or summer term, the student will be placed on Scholastic Suspension and will not be allowed to register.

**Scholastic Suspension**
A student on Scholastic Probation who is ineligible to re-enroll shall be suspended from the college for not less than one long term.

After students have served their first suspension, they may continue to re-enroll with the completion of a semester/summer term GPA(1) of 2.00 or greater. Should students not meet the required standards and be placed on continued Scholastic Suspension for a second time, they will be suspended for a period of 12 months. Prior to application for readmission, a student must present to the Admissions Committee a written explanation of how he/she plans to improve his/her academic standing. The student will be readmitted on continued Scholastic Probation, and may have his/her coursework and total hours limited.

**Academic Dismissal**
Students readmitted after having been on Scholastic Suspension a second time, and who subsequently fail to achieve a GPA(1) of 2.00 or higher, shall be placed on
Academic Dismissal. After a 12-month period of Academic Dismissal, these students may be recommended for readmission only by the Vice President of Student Development or designate.

Students are responsible for knowing if they have passed the minimum standards for continuing in the College.

Students who are on Academic Suspension or Academic Dismissal from other institutions are ineligible for admission to the College unless they have met the academic standards required of students at the college.

Grade Reports/Notification of Grades

A grade report is mailed to the address on record of enrollment to each student at the end of each semester. All students have access to a telephone number where grade results are available.

DCCCD Transcript of Credit

The DCCCD transcript of credit is a chronological listing of college credit classes attempted within the seven college system of the DCCCD. The transcript is official if the document is embossed with the college seal and imprinted with the signature of the Registrar. It includes both GPA(1) and GPA(2).

Upon written request of the student, the Registrar's Office will send an official transcript to the individual student or to any college or agency named. There is a minimum of two working days required for processing. A transcript will be released only if all obligations to the DCCCD have been settled.

The Electronic Transcript Network permits member colleges to send transcripts to one another through a computer network. Member colleges prefer to receive transcripts in this fashion rather than through the generation of an "official transcript."

Transfer credits from other institutions are not recorded on DCCCD transcripts. If a student desires a transcript of work completed at another institution, the student should secure it from that institution.

Degree Requirements

The College confers the Associate of Arts and Sciences Degree, the Associate of Arts and Sciences Degree with a major in Business, the Associate of Applied Science Degree, the Associate of College/University Transfer Degree, and certificates upon students who have completed all requirements for graduation. Each degree candidate must earn at least 25% of the credit hours required for graduation through instruction (not credit-by-examination) by the college granting the degree. The degree must be awarded by a college which offers the program in which the student majored. Correspondence work must be approved by the Registrar for graduation credit. If the student qualifies for a degree from more than one DCCCD college, the student must indicate from which college the degree is to be awarded.

Students seeking certificates or associate degrees must submit official transcripts of all previous work attempted before a certificate or degree will be awarded. Failure to submit official transcripts directly from the institutions attended will result in the degree or certificate not being awarded.

Students entering the DCCCD Fall 1989, or thereafter, must successfully complete all sections of the TASP (Texas Academic Skills Program) Test before a degree can be awarded. See the TASP catalog section for additional information.

The Common Learning Curriculum

The Common Learning curriculum is composed of required courses and clusters of courses designed to advance the learning which is common to all candidates for a degree. Therefore, the courses students take toward a DCCCD degree are designed around a series of skills to be achieved in order to be a successful, contributing member of society. The courses required in DCCCD degrees should equip students to learn to live better with themselves, others, and environments, as well as to learn to live as producers, consumers, and members within a community. It is also expected that students will learn to live more creatively, become more proficient in understanding future trends and how those trends impact their own lives, and how to develop effective learning skills. While not each of the skills will be found in each and every course within a DCCCD degree, the faculty believe that by taking those courses required for a degree program, students will encounter many of the above-named skills.

The Core Curriculum consists of English 1301, Speech Communication 1311, and a math course numbered 1000 or above. A grade of "C" or better in each of the three courses is required for graduation. Students are strongly advised to enroll in these courses in the first two semesters of study because skills necessary for success in other courses are taught in Core courses.

Common Learning course requirements beyond the Core are designed to help ensure that all graduates have general knowledge as well as the specific knowledge ordinarily associated with a major course of study or a technical program. Candidates for the Associate of Arts and Sciences must take 34-36 hours in approved Common
Learning courses beyond the Core. Candidates for the Associate of Applied Science must choose six to eight hours of course work from two of the following clusters: Laboratory Science, Behavioral/Social Science, and Humanities.

Associate of Arts and Sciences Degree

This degree is primarily designed as the equivalent of the first two years of a four-year degree. This is a general plan and may or may not satisfy the requirements of a specific transfer university. Students desiring to transfer should seek this degree after consultation with the college Counseling/Advising Center.

Students must have a minimum of 61 credit hours, a grade of "C" or better in each of the three Core courses (English 1301, Speech Communication 1311, and math course numbered 1000 or above), a grade point average of at least "C" (2.00), based on GPA (2) and a passing score on all sections of TASP (if students are not TASP exempt) to receive the Associate of Arts and Sciences Degree. These 61 hours may be earned at any District college and must include:

- English 1301 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- Speech Communication 1311 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- A math course numbered 1000 or above (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- English 1302 (3 credit hours)
- A sophomore literature course (3 credit hours) to be chosen from English 2322, 2323, 2327, 2328, 2332, 2333, 2352, or 2371 (English 2307 and 2311 do not meet the sophomore literature requirements.)
- Laboratory Science (8 credit hours) to be chosen from Astronomy, Biology, Chemistry, Geology, Physical Science, OR Physics. (For Astronomy to meet this requirement, the student must successfully complete PHYS 1311 in combination with 1111, and PHYS 1312 in combination with 1112 OR successfully complete PHYS 1411-1412.)
- Humanities (3 credit hours) to be chosen from: ARTS 1301, a foreign language or an American Sign Language course, Humanities 1301, English 2322, 2323, 2327, 2328, 2332, 2333, 2352, 2371, Music 1306, Philosophy 1301 OR Drama 1310.
- Physical Education activity course (1 credit hour) (NOTE: Neither chronological age nor military service are acceptable excuses for waiving the physical education requirement. While military service, per se, may not excuse this requirement, documented evidence of specific coursework earned in the military MAY excuse this and other requirements. The Office of the Registrar can assist with this information.)
- Behavioral Science (3 credit hours) to be chosen from Anthropology, Human Development, Psychology, OR Sociology
- History 1301 AND 1302 (6 credit hours) (NOTE: Only three credit hours of History may be earned through credit-by-examination.)
- Government 2301 AND 2302 (6 credit hours) (NOTE: Only three credit hours of Government may be earned through credit-by-examination.)
- Business (3 credit hours) to be chosen from Business, Accounting, Management 1370, Computer Information Systems, OR Economics. Cooperative Work Experience courses may not be used to meet Common Learning requirements.
- Electives (16-18 credit hours)

A maximum of four physical education activity hours may be counted as credit toward requirements for graduation. The GPA for graduation is based on the credit earned for all DCCCD work and for all credit which is transferred from other institutions. The following courses will not count toward graduation nor the GPA for graduation: Courses numbered below 1000, ARTS 1170, MUSI 1175, and DRAM 1170.

All students planning to transfer to a four-year institution may complete their four semester requirements in physical education during their freshman and sophomore years. Students are urged to consult the catalogs of the institutions to which they may transfer for their special requirements. These catalogs should be used by students and advisors in planning programs.

Associate of Arts and Sciences Degree with major in Business

This degree is available only at Brookhaven, Eastfield, El Centro, Mountain View, North Lake and Richland Colleges.

This degree is designed to meet the needs of students who plan to major in business but who are unsure about where they wish to transfer in order to complete a baccalaureate degree in a business field. This is a general plan and may or may not satisfy the requirements of a specific transfer university. Students planning to transfer to a four-year institution must consult that institution's catalog to insure selected courses will both transfer and apply toward the intended major. Once students have decided on the specific four-year institution to which they plan to transfer and a specific major within business, they are strongly encouraged to utilize the transfer degree plan which is customized to meet specific requirements of the selected four-year institution. Such students may also wish to take advantage of the DCCCD Transfer Guarantee Program. Transfer information materials are available in the Counseling/Advisement Center.

Students must have a minimum of 61 credit hours, a grade of "C" or better in each of the three Core courses (English 1301, Speech Communication 1311, and MATH
students are not TASP exempt) to receive this degree. These 61 hours must include:

- English 1301 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- Speech Communication 1311 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- Math 1324 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- English 1302 (3 credit hours)
- A sophomore literature course (3 credit hours) to be chosen from English 2322, 2323, 2327, 2328, 2332, or 2333. (English 2307 and English 2311 do not meet the sophomore literature requirements.)
- Laboratory Science (8 credit hours) to be chosen from: Biology 1406 and 1407, Biology 1408 and 1409, Chemistry 1411 and 1412, Geology 1403 and 1404, Physics 1401 and 1402, Physics 1405 and 1407, Physics 2425 and 2426, or Physical Science 1415 and 1417. For Astronomy to meet this requirement, the student must successfully complete PHYS 1311 in combination with 1111, and PHYS 1312 in combination with 1112 OR successfully completing PHYS 1411-1412.
- Humanities (3 credit hours) to be chosen from: Art 1304, a foreign language or an American Sign Language course, Humanities 1301, Sophomore Literature (select from English 2322, 2323, 2327, 2328, or 2333), Music 1306, Philosophy 1301 or Drama 1310.
- Physical Education activity course (1 credit hour) (NOTE: Neither chronological age nor military service are acceptable excuses for waiving the physical education requirement. While military service, per se, may not excuse this requirement, documented evidence of specific coursework earned in the military MAY excuse this and other requirements. The Office of the Registrar can assist with this information.)
- History 1301 AND 1302 (6 credit hours) (NOTE: Only three credit hours of History may be earned through credit-by-examination.)
- Government 2301 AND 2302 (6 credit hours) (NOTE: Only three credit hours of Government may be earned through credit-by-examination.)
- English 1301 (3 credit hours with a grade of "C" or better)
- A math course numbered 1000 or above (3 credit hours with a grade of "C" or better if math is included in the degree plan. If more than one math course is required, a grade of "C" or better must be earned in at least one math course.)
- A speech course (3 credit hours with a grade of "C" or better, if a speech course is required)

A maximum of four physical education activity hours may be counted as credit toward requirements for graduation. The GPA for graduation is based on the credit earned for all DCCCD work and for all credit which is transferred from other institutions. The following courses will not count toward graduation nor the GPA for graduation: Courses numbered below 1000, ARTS 1170, Music 1175, and Drama 1170.

All students planning to transfer to a four-year institution may complete their four semester requirements in physical education during their freshman and sophomore years. Students are urged to consult the catalogs of the institutions to which they may transfer for their special requirements. These catalogs should be used by students and advisors in planning programs.

**Associate of College/University Transfer Degree**

A student may earn an Associate of College/University Transfer through an individuallynegotiated degree plan that incorporates those elements of the DCCCD Associate of Arts and Sciences Degree that fall within the student's transfer plan developed under the Student Transfer Guarantee program. Students must have a minimum of 61 credit hours, a grade of "C" or better in English 1301 and in a 1000 or higher math course, a grade point average of at least "C" (2.00), based on GPA (2), and a passing score on all sections of TASP (if students are not TASP exempt) to receive this degree. These 61 hours may be earned at any district college and must include:

- History 1301 and 1302 (6 credit hours) (NOTE: Only three credit hours of history may be earned through credit-by-examination)
- Government 2301 and 2302 (6 credit hours) (NOTE: Only three credit hours of government may be earned through credit-by-examination)
- English 1301 (3 credit hours with a grade of "C" or better)
- A math course numbered 1000 or above (3 credit hours with a grade of "C" or better if math is included in the degree plan. If more than one math course is required, a grade of "C" or better must be earned in at least one math course.)
- A speech course (3 credit hours with a grade of "C" or better, if a speech course is required)

The remaining hours will be comprised of courses equivalent to those designated by the student's selected transfer institution as being applicable to the baccalaureate degree being sought. In no case will DCCCD course prerequisites be waived. Students who qualify for an Associate of Arts and Sciences will be granted that degree rather than the Associate of College/University Transfer.

Students wishing to pursue this degree should make an appointment with the Transfer Degree Counselor/Advisor on the campus to ensure their eligibility for this degree and that all the required steps are fulfilled.
Students who qualify for the Associate of Arts and Sciences degree are not eligible for the Associate of College/University Transfer degree.

**Associate of Applied Sciences Degree**

This degree is designed to teach specific career/technical skills. The requirements for each major in the Associate of Applied Science Degree are clearly shown in the curriculum patterns elsewhere in this catalog. Students seeking such a degree should become familiar with the specific required courses in the appropriate curriculum pattern.

Students must have a minimum of 60 credit hours, a grade of "C" or better in each of the three Core courses (English 1301 OR English 2311 (whichever is required), Speech Communication 1301, AND in the math course required in the specific degree plan), a grade point average of at least "C" (2.00), based on GPA (2), and a passing score on all sections of TASP (if students are not TASP exempt) to receive the Associate of Applied Science Degree. These 60 hours must include 18 hours of the following general education requirements:

- English 1301 OR English 2311 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- Speech Communication 1301 (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- A math course as required in the specific degree plan (3 credit hours) [A CORE COURSE REQUIREMENT; A GRADE OF "C" OR BETTER MUST BE EARNED]
- Three credit hours from a Social/Behavioral Science course: Anthropology, Government, History, Human Development, Psychology, OR Sociology
- Three hours from a Humanities/Fine Arts course: This includes any course with the title of Humanities, Art, Music, Philosophy, Dance, Drama, Religion, Foreign Language or Eastfield Interpreter Training Program, English 2322, 2323, 2327, 2328, 2332, 2333, 2352, OR 2371
- Three credit hours of an elective course chosen from a discipline outside the student's area of specialization.

Elsewhere in this catalog can be found specific degree plans for each technical/occupational program.

For some programs, more than 60 credit hours are required. All prescribed requirements for the specific technical/occupational program in which the student is enrolled must be completed. These programs may also have other criteria in addition to degree requirements. See the Technical/Occupational Programs section of the catalog for a more detailed explanation. A maximum of four physical education activity hours may be counted as credit toward graduation. The GPA for an Associate of Applied Science Degree is based only on the hours used to meet degree requirements. The following courses will not count toward graduation nor the GPA for graduation:

Courses numbered below 1000, ARTS 1170, Music 1175, and Drama 1170.

**Tech-Prep**

Tech-Prep programs provide high quality, rigorous technical preparation based on a common core of academic courses that meet Texas recommended proficiencies in English, mathematics, science and social studies. Through Tech Prep, Dallas County Community College District provides an articulated, multi-year curriculum so students can acquire competencies necessary for successful employment by businesses and industry with options leading to advanced training in the following technical clusters: business/computer sciences, engineering technology, health and human services. DCCCD offers an associate degree and certificates as well as college transfer opportunities based on agreements among area secondary programs as well as four-year colleges and universities which benefit Tech-Prep students. After successfully completing the required high school courses outlined in a TechPrep program, Tech-Prep students may receive college credit toward graduation in certain college programs. Tech-Prep students should check with the College Vice President of Instruction for specific information.

**Guarantee for Job Competency**

The DCCCD makes certain guarantees to its students who earn its Associate of Applied Sciences degree. If an Associate of Applied Science graduate is judged by his/her employer to be lacking in technical job skills identified as exit competencies for his/her specific degree program, the graduate will be provided up to nine tuition-free hours of additional skill training by a District college under the conditions of the guarantee policy.

Special conditions which apply to the guarantee are as follows:

1. The graduate must have earned the Associate of Applied Science Degree beginning, May, 1992, or thereafter in an occupational program identified in the college catalog.

2. The graduate must have completed this degree in the District (with a majority of the credits being earned at the District) and must have completed the degree within a four-year time span.

3. Graduates must be employed full-time in an area directly related to the area of program concentration as certified by the Vice President of Instruction.

4. Employment must commence within 12 months of graduation.

5. The employer must certify in writing that the employee is lacking entry-level skills identified by the DCCCD as the employee's program competencies and must specify the areas of deficiency within 90 days of the graduate's initial employment.

6. The employer, graduate, division dean, job placement counselor, and appropriate faculty member will develop a written educational plan for retraining.
7. Retraining will be limited to nine credit hours related to the identified skill deficiency and to those classes regularly scheduled during the period covered by the retraining plan.

8. All retraining must be completed within a calendar year from the time the educational plan is agreed upon.

9. The graduate and/or employer is responsible for the cost of books, insurance, uniforms, fees and other course-related expenses.

10. The guarantee does not imply that the graduate will pass any licensing or qualifying examination for a particular career.

11. The student's sole remedy against District and its employees for skill deficiencies shall be limited to nine credit hours of tuition-free education under conditions described above.

12. The program can be initiated through written contact with the office of the college president.

Certificate Programs

The requirements for certificates are detailed under specific programs in the Technical/Occupational Programs section of this catalog. A "C" (2.00) grade point average, based on GPA (2) is required. The GPA for a certificate is based only on the hours used to meet certificate requirements. The following courses will not be counted toward graduation nor the GPA for graduation: Courses numbered below 1000, ARTS 1170, Music 1175, and Drama 1170. Students working toward a certificate may be waived from the TASP requirement; the student may enroll only in courses leading toward the certificate in order to maintain their TASP-waived status.

Transcript Evaluations

Students who have completed college coursework at a regionally accredited college or university who will be working toward an Associate of Arts and Sciences, Associate of Arts and Sciences in Business, Associate of Applied Science or an Associate of College/University Transfer degree or a one-year certificate should contact the Registrar's Office to request a transcript evaluation.

Procedure For Filing Degree And Certificate Plans And For Graduation

Students should request a degree plan from the Registrar's Office no later than at the end of their freshman year and preferably sooner. Official transcripts of all previous college work must be on file at the time of request for degree plans. Students following a one-year certificate program should request an official plan during the first semester of their enrollment. Application for the granting of the degree or certificate should be filed in the Registrar's Office prior to the deadline announced by the Registrar.

An annual graduation ceremony is held at the conclusion of the spring semester. Participation is ceremonial only and confers on a student no rights to a degree. December graduates may participate in the next commencement if they desire, and July and August graduates may participate in the spring commencement if they desire, but neither is required to do so. The Registrar's Office should be notified if the student wishes to participate. Instructions for graduation are mailed to all candidates prior to commencement.

In addition to other graduation requirements, students are expected to complete within five (5) years the course and hour degree requirements as outlined in the catalog in effect at the time of their entrance to a DCCCD college. Students may have the option to select a more recent catalog year in which they were enrolled, provided the degree requirements are met within five (5) years of the catalog selected and the requisite courses are still offered.

The college reserves the right to modify curricula or to make changes as appropriate.

The student has the ultimate responsibility to select and register for courses meeting graduation requirements.

Waiving Of Scholastic Deficiency

Any student in an academic transfer program may transfer to an Applied Science degree or Certificate program. In such a case, the student may choose to have any grades below "C" disregarded. However, the procedure for disregarding low grades may only be exercised while the student is in that career program. If the student changes to an academic transfer program, the original conditions of the academic transfer program must be followed, including the calculation of a cumulative grade point average of all college credits earned. The procedure for waiving scholastic deficiency applies both to students of this college and to students transferring from other institutions. The student who wishes to use the procedure for waiving scholastic deficiency should so state in writing to the Registrar prior to registration and should inform a counselor of such intentions during the pre-registration advisement session.
V. EDUCATIONAL AND SPECIAL OPPORTUNITIES FOR STUDENTS WISHING TO TRANSFER

Academic Transfer Programs

The Dallas County Community College District offers a broad range of educational opportunities for the student whose goal is to transfer to a four-year institution. In addition to offering a strong, creative foundation for the freshman and sophomore years, the academic transfer curriculum is coordinated with a number of Texas four-year institutions to insure the transfer of credits. Although each four-year school is different, students may guarantee transferability of their courses by being active and responsible in the advisement process. By consulting the four-year institution regularly and taking advantage of the resources available at each of the DCCCD colleges, students may insure that the transfer process is a positive experience.

The Texas Education Code Section 61.078 enacted by the 71st Texas Legislature (SB 457) provides a means to aid students in resolving disputes regarding the transfer of course credits. To qualify as a dispute the course(s) in question must be listed in the Community College General Academic Course Guide Manual and be offered at the receiving institution. The sending institution, or the student working through the senior institution, must initiate the dispute. From the date a student is notified of the denial of credit, the law allows a maximum of 45 calendar days for the resolution of the dispute by the sending and receiving institutions.

In order to challenge the denial of credit, a "Transfer Dispute Resolution" form, available through the District Office of Student and International Programs (telephone 214/746-2410) must be completed within 15 days after the student has been notified of the denial of credit. This form is sent to the receiving institution.

The receiving institution must then inform the student, the sending institution and the State Commissioner of Higher Education of the resolution. If need be, the Commissioner, or designate, may be called upon to resolve the dispute.

Earning An Associate Degree Prior To Transferring

During the time of attendance in the DCCCD, students may elect to earn a two-year associate degree. The Associate of Arts and Sciences Degree is designed specifically for those students who plan to transfer to a Texas four-year institution. The Associate of Arts and Sciences Degree requires students to complete many of the core courses that will also be required by most senior institutions. The flexibility of this degree program also allows students to complete many of the introductory courses specifically related to their major field of study. For those students seeking a four-year degree in Business, the DCCCD offers the Associate of Arts and Sciences with a specialization in Business. Additional information regarding this degree can be found elsewhere in this catalog or from a counselor or advisor.

The Associate of College/University Transfer is an individually negotiated degree designed to permit students to take only those courses which will apply toward a specific major at a specific university. Additional information about this degree can be found elsewhere in this catalog.

Transfer Dispute Resolution

The Texas Higher Education Coordinating Board intends that approved academic coursework transfer between Texas public institutions, providing that the course(s) are within approved transfer curriculum of the declared major field and provided that published transfer policies are met. Texas public institutions are required to notify students if approved academic coursework earned at another institution will not transfer.

Students transferring to the College can expect that approved academic courses earned at any Texas public institution will be accepted in transfer. Students who dispute a transfer decision made by the College should contact the District Office of Student and International Programs to appeal the denial of transfer credit for any approved academic course.

If an academic course is not accepted in transfer by another Texas public college or university, students can request that the College submit a Transfer Dispute Form to the receiving institution. Forms are available through the District Office of Student and International Programs. The form must be completed within 15 days from the date the student is notified of the non-transfer. If the college cannot identify an appropriate reason for the course not transferring, the form will be forwarded to the receiving institution and/or to the Coordinating Board for resolution.

Choosing A Major And Developing An Educational Plan

Some students will enter college with a clear idea of what major they will choose and to which senior institution they will transfer. However, the fact is that many students do not know where they will transfer or what their major may be.

There are several freshman level core courses that will apply toward most majors. Students are encouraged to use the first semester to investigate their own interests. By the second or third semester students should begin to develop a clear sense of which senior institution they will enter and the requirements for their chosen degree program. Working closely with a counselor or advisor, and utilizing current information from four-year institutions, students who plan to transfer are encouraged to follow the Associate in Arts and Sciences Degree plan as many of the required courses are often required at four-year institutions.

The Counseling personnel at each of the DCCCD campuses can provide assistance in developing a degree
plan for almost any major. Listed below are some of the four-year majors students can begin in the DCCCD:

- Accounting
- Advertising
- Agriculture
- American Studies
- Anthropology
- Architecture
- Art
- Biological Science
- Botany
- Business Administration
- Chemistry
- Computer Science
- Dance
- Dental Hygiene
- Dentistry
- Dietetics
- Drama
- Economics
- Engineering
- English
- Entomology
- Finance
- Fine Arts
- Foreign Languages
- Forestry
- Geography
- Geology
- Health Sciences
- History
- Industrial Arts
- Interior Design
- Journalism
- Law
- Legal Science
- Liberal Arts
- Life Sciences
- Management
- Marine Biology
- Marketing
- Mathematics
- Medical Technology
- *Medicine
- Meteorology
- Microbiology
- Music
- Music Education
- Nursing
- Occupational Therapy
- Oceanography
- Optometry
- Pharmacy
- Philosophy
- Photojournalism
- Physical Education
- Physical Science
- Physical Therapy
- Physics
- Political Science
- Psychology
- Public Relations
- Radio/TV/Film
- Recreation
- Social Work
- Sociology
- Speech Communication
- Speech Pathology
- Teacher Preparation
- Telecommunications
- Theatre
- *Veterinary Medicine
- Wildlife Management
- Zoology
- *These fields require study beyond the bachelor's degree.

College Resources For Transfer Students

Each of the DCCCD colleges offers many resources designed specifically for those students planning to transfer to a four-year institution. Students are encouraged to take advantage of these resources early in their collegiate experience, particularly if they are undecided upon a major or have not selected a senior institution. Many of the resources can assist students in making informed decisions when selecting courses, choosing a transfer institution, and completing all of the necessary steps in the transfer process.

The Counseling/Advisement Center

Students are invited to utilize the valuable resources found in the Counseling/Advisement Center, and are encouraged to seek the advice of a counselor/advisor when planning each semester of study.

The Counseling/Advisement Center has several resources to assist students, including a large collection of senior institution catalogs and bulletins, senior college admission application forms, and other specialized brochures and information. Students can also take advantage of several computer resources, such as DISCOVER, GIS, and SIGI. These simple computer programs are designed to help students clarify goals, identify career and occupational interests, and research information about senior institutions.

In addition, there are many activities planned especially for transfer students. These activities include College Days where officials from senior institutions visit on-campus to talk directly with students, special transfer workshops and seminars, and events designed to assist students in making career decisions.

A number of other materials are available to aid students who plan to transfer. These materials are outlined below.

**Course Selection Guide**

Course Selection Guides offer a listing, in DCCCD course numbers, of courses necessary for a number of majors at many institutions throughout Texas. Course Selection Guides may be available for the following majors:

- Accounting
- Advertising Art
- Aerospace Engineering
- Agriculture
- Architecture
- Art Mathematics
- Biology
- Business Administration
- Chemical Engineering
- Chemistry
- Civil Engineering
- Computer Science
- Criminal Justice
- Dental Hygiene
- Economics
- Electrical Engineering
- English
- Exercise and Sports Studies
- Fashion Design
- Fashion Merchandising
- Finance
- Foreign Languages
- Geography
- Geology
- History
- Motel & Restaurant Management
- Industrial Engineering
- Interior Design
- Kinesiology (Exercise and Sports Science)
- Legal Science
- Management
- Marketing
- Medical Technology
- Music
- Music Education
- Nursing
- Occupational Therapy
- Pharmacy
- Photojournalism
- Physical Education
- Physical Therapy
- Physics
- Political Science
- Pre-Law
- Pre-Medicine
- Pre-Veterinary Medicine
- Psychology
- Radio/TV/Film
- Social Work
- Sociology
- Speech
- Speech Pathology/Audiology
- Teacher Preparation
- Theatre
- Undecided
Although the information on these guides has been reviewed by officials at the various senior institutions, the content is subject to change, and it is the responsibility of the student to verify with the institutions of their choice the applicability of this information. Counselors and academic advisors can also assist students with preparation for majors other than those listed above.

Equivalency Guides

Equivalency Guides offer a listing of how every course offered in the DCCCD transfers to a given senior institution. This information is helpful for those students who have selected a senior institution, but have yet to determine a major. Students should note that the transfer equivalencies shown on these guides offer information on how, or if, courses are generally accepted by the senior institution, and do not indicate how these courses will apply toward a particular major or degree program. A counselor/advisor can assist students in determining the applicability of courses to a particular major.

Choosing A Catalog Year

Students who plan to transfer to a four-year school have a choice to make regarding their requirements for graduation. They may choose the catalog year under which they wish to graduate. This choice is subject to restrictions that are outlined in the four-year school's catalog. Students should consult their advisor or the catalog of their choice to learn about any such limitations.

Transferring students should keep a copy of the DCCCD catalog, the four-year institution's catalog, and the Course Selection Guide valid at the time of initial enrollment in the DCCCD and at the time when a major was selected. DCCCD course syllabi should also be kept.

Other Things To Consider

During the time of study in the DCCCD, students should begin to determine the necessary steps for completing the transfer admission process. The process may require a great amount of preparation, and students should be certain they understand all of the requirements for admission, such as application deadlines, minimum grade-point average requirements, limitation on the number of credit hours that are acceptable in transfer, policies regarding acceptance of repeated courses, housing information, and financial aid application procedures. Of equal importance is a personal visit to the chosen institution. Many senior institutions plan special activities and campus visitation periods where students can meet with representatives from all areas of the institution.

IT IS THE RESPONSIBILITY OF STUDENTS TO KNOW ANY SPECIFIC REQUIREMENT OF THE COLLEGE OR UNIVERSITY TO WHICH THEY WISH TO TRANSFER. THIS RESPONSIBILITY INCLUDES KNOWING COURSE REQUIREMENTS, NUMBER OF CREDIT HOURS ACCEPTED, AND GRADE POINT AVERAGE REQUIREMENTS.

Guarantee For Transfer Credit

The DCCCD guarantees to its Associate of Arts and Sciences graduates and other students who have met the requirements of a 60 credit-hour transfer plan the transferability of course credits to those Texas colleges or universities which cooperate in the development of DCCCD Course Selection Guides. If such courses are reflected by the college or the university, the student may take tuition-free alternate courses at a District college which are acceptable to the college or university. In addition, students may receive the Associate of College/University Transfer upon the completion of 61 credit hours which are included in the Student Transfer Guarantee.

Special Conditions which apply to the guarantee are as follows:

1. Transferability means the acceptance of credits toward a specific major and degree. Courses must be identified by the receiving university as transferable and applicable in Course Selection Guides dated 1991-92 or later;

2. Limitations of total number of credits accepted in transfer, grades required, relevant grade point average and duration of transferability apply as stated in the catalog of the receiving institution; and

3. The guarantee applies to courses included in a written transfer plan - which includes the institution to which the student will transfer, the baccalaureate major and degree sought, and the date such a decision was made - which must be filed with the appropriate DCCCD college.

This guarantee is designed specifically for those DCCCD students who have made firm decisions about their major and the institution to which they planned to transfer. The DCCCD is working with a number of Texas institutions, such as the University of North Texas, East Texas State University, the University of Texas at Arlington, the University of Texas at Dallas, Texas Woman's University, Texas Tech University, Dallas Baptist University,
Baylor University, Southern Methodist University and others, in order to make such guarantees possible. In order to secure such a guarantee, students should begin the process in their College Counseling/Advisement Center by scheduling an appointment with the Transfer Guarantee advisor.

Students who have completed a Transfer Guarantee may be eligible to receive the Associate of College/University Transfer Degree. Such students will be notified of this opportunity.

VI. OTHER EDUCATIONAL PROGRAMS

Technical/Occupational Programs

Students who desire to enter a chosen field as a skilled employee after one or two years of college work may enroll in one of the many technical/occupational programs offered by the College.

Technical/occupational courses are accredited college courses which lead to a Certificate of Completion or an Associate of Applied Science Degree. These programs are established only after studies verify that employment opportunities exist in business and industry.

The College attempts to match the community's labor requirements with the ambitions and goals of its students. This realistic approach to occupational education is made possible by the excellent cooperation of local industry, business, and public agencies who increasingly depend on District colleges to supply skilled personnel.

A continuous liaison is maintained with prospective employers to help place graduates and keep the training programs current with job requirements. Recommendations for adding new programs to the College offerings are made periodically and are based on community studies which identify additional needs.

Many technical/occupational courses can be offered on company sites for their employees.

Credit-By-Examination

Students who believe they already meet the requirements of a course by experience or previous training may request credit by examination. The Registrar's Office has knowledge of courses available through this method. The examination may be an approved subject examination (not a general examination) of the College Level Examination Program (CLEP), Advanced Placement Exams (CEEB), Defense Activity for Nontraditional Education Support (DANTES), or a teacher-made test, depending on the course. Students should insure DCCCD acceptance of specific national exams prior to taking them.

The student must pay an examination fee for each course examination. This fee must be paid prior to taking the examination and is not refundable. The College's credit-by-examination program is coordinated with similar programs of four-year institutions. Final acceptance of credit-by-examination for specific degree purposes is determined by the degree-granting institution. Students planning to use credit-by-examination to meet degree requirements at other institutions should check the requirements of the receiving institution.

Students must be currently enrolled at a DCCCD college to receive credit by examination. Students may not request credit by examination in courses for which they are currently enrolled. Students may earn as many credits through examination as their ability permits and needs require, but the last 25% of the credit hours required for graduation in any degree or certificate program may not be earned through credit-by-examination except as approved by the Vice President of Instruction.

Credit by examination may be attempted only one time in any given course, and a minimum score must be earned in order for credit to be recorded. A student may use credit by examination for only three (3) credit hours to apply toward the degree requirements in history and only three (3) credit hours to apply toward the degree requirements in government.

As of the publication date of this catalog, the following national tests are approved for credit-by-examination procedures:

**CLEP Subject Exams (CLEP General Exams are NOT approved)**

<table>
<thead>
<tr>
<th>Test</th>
<th>DCCCD Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro to Accounting</td>
<td>ACCT 2301, 2302</td>
</tr>
<tr>
<td>General Biology</td>
<td>BIOL 1406, 1407</td>
</tr>
<tr>
<td>Intro to Business Law</td>
<td>BUSI 2301</td>
</tr>
<tr>
<td>Information Systems &amp; Computer Apps</td>
<td>CISC 1370</td>
</tr>
<tr>
<td>General Chemistry</td>
<td>CHEM 2423-2425</td>
</tr>
<tr>
<td>Principles/Macroeconomics</td>
<td>ECON 2301</td>
</tr>
<tr>
<td>Principles/Microeconomics</td>
<td>ECON 2302</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENGL 2322, 2323</td>
</tr>
<tr>
<td>American Literature</td>
<td>ENGL 2337, 2338</td>
</tr>
<tr>
<td>College French 1-2</td>
<td>FREN 1411, 1412</td>
</tr>
<tr>
<td>College German 1-2</td>
<td>GERM 1411, 1412</td>
</tr>
<tr>
<td>American Government</td>
<td>GOVT 2301 or 2302</td>
</tr>
<tr>
<td>American History 1</td>
<td>HIST 1301</td>
</tr>
<tr>
<td>American History 2</td>
<td>HIST 1302</td>
</tr>
<tr>
<td>Western Civilization 1</td>
<td>HIST 2311</td>
</tr>
<tr>
<td>Western Civilization 2</td>
<td>HIST 2312</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>MGMT 1370</td>
</tr>
<tr>
<td>Principles of Marketing</td>
<td>MRKT 2370</td>
</tr>
<tr>
<td>College Algebra</td>
<td>MATH 1314</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MATH 1316</td>
</tr>
<tr>
<td>Calculus w/</td>
<td>MATH 2513</td>
</tr>
<tr>
<td>Elementary Functions</td>
<td></td>
</tr>
<tr>
<td>Intro to Psychology</td>
<td>PSYC 2301</td>
</tr>
<tr>
<td>Human Growth &amp; Development</td>
<td>PSYC 2314</td>
</tr>
<tr>
<td>Intro to Sociology</td>
<td>SOCI 1301</td>
</tr>
<tr>
<td>College Spanish 1-2</td>
<td>SPAN 1411, 1412</td>
</tr>
<tr>
<td>College Spanish 3-4</td>
<td>SPAN 2311, 2312</td>
</tr>
</tbody>
</table>
DANTES (Additional DANTES tests may be approved)

Test
Lifespan Developmental Psychology
Intro to Computers w/ Programming in BASIC
Basic Marketing
Intro to Business
Beginning German I
Beginning German II
Beginning Spanish I
Beginning Spanish II
Principles of Financial Accounting
Basic Technician Drafting

DCCCD Courses
PSYC 2301
CISC 1373
MRKT 2370
BUSI 1301
GERM 1411
GERM 1412
SPAN 1411
SPAN 1412
ACCT 2301
CADD 1272

Advanced Placement Examination

Test
U.S. History
European History
Biology
Chemistry
English Language/Composition
Math-Calculus AB
Math-Calculus BC
Physics B
Physics C

DCCCD Courses
HIST 1301 & 1302
HIST 2311 & 2312
BIOL 1406 & 1407
CHEM 1411 & 1412
ENGL 1301 & 1302
MATH 1348
MATH 2513
PHYS 1401 & 1402
PHYS 2425 & 2426

Students taking advantage of these tests should check with the Office of the Registrar to ensure these tests will be accepted in lieu of coursework. This should be done prior to taking the test as the above list may change.

Non-Traditional Learning

The College is committed to serve students and the community in the most effective manner possible while maintaining high standards of education. Students learn in a variety of ways and through a multitude of experiences. Therefore, the College will evaluate these learning experiences and grant equivalent college credit applicable to an Associate of Applied Science degree or certificate program. The following guidelines pertain to such evaluations:

1. The student must be currently enrolled in the College to receive equivalent credit for non-traditional learning.
2. Credit for specific courses offered by the College may be granted for non-traditional learning experiences after proper assessment of those experiences. Credit will be awarded on a course-by-course basis only. The student must be enrolled in the College which is assessing the learning experiences.
3. A student is required to complete at least 12 semester hours of course work with the District, six of which are in the student’s major occupational area, prior to awarding of equivalent credits for non-traditional course work accepted for credit.
4. Credit may be granted for occupational courses in programs approved by the Texas Higher Education Coordinating Board.
5. The number of equivalent credits awarded may not exceed 25% of the total number of credits required. The number of equivalent credits awarded may not exceed the total number of credits required for the student’s specific associate degree objectives. No graduation, residency, degree or program requirements will be waived as a result of credits earned as provided by this policy.

Students desiring to take advantage of this opportunity should consult with the College Advocate for Non-traditional Learning for additional information. Students making application for assessment of prior learning through life experiences are required to enroll in Human Development 0110 to facilitate the process.

Flexible Entry Courses

In keeping with its commitment to meet individual educational needs, the College makes available flexible entry courses. These courses are often self-paced, allowing students to work at their own speed. Students are cautioned to be aware of the time specified by the College as to when the course requirements need to be completed. Students should check with the Registrar to determine times for registration in these courses. Approval must be obtained for enrollment.

Distance Learning Courses

Telecourses

Students have the option of taking a variety of credit courses through the TELECOURSE program of learning. Telecourses require viewing a series of video programs, along with studying a textbook, completing specific assignments and taking course tests. In addition, students use a course Study Guide which provides detailed directions for reading and viewing lessons. At a required orientation at the beginning of the course, students meet with the telecourse instructor who is available by telephone or in person throughout the semester. Course testing is done through the campus testing center. Telecourses are equivalent to the on-campus sections of the same courses in terms of objective, content, rigor and transferability.

Most telecourses are shown on open broadcast through KDTN-TV2 and on local cable system channels, as well as being available for viewing on campus. Telecourses may be taken in conjunction with on-campus classes and students enroll for telecourses through the normal registration processes. Successful TELECOURSE students are goal oriented and self directed, know how to learn independently, and have prerequisite skills such as a college reading level. Telecourse offerings are listed in...
the credit class schedules published by all DCCCD colleges each semester and subject matter includes:

- Accounting
- Anthropology
- Business
- Economics
- English
- History
- Humanities
- Government
- Management
- Health
- Psychology
- Sociology
- Spanish
- Anthropology
- Economics
- History
- Government
- Health
- Sociology
- Spanish

For additional information, interested students should consult a DCCCD Distance Learning Information brochure containing course descriptions, requirements, viewing schedules and other pertinent information. This brochure is available on all campuses each semester or by calling the HOTLINE at 952-0300.

Televised “Live” Classes Via DC-Net

A growing number of courses are offered from the LeCroy Center for Educational Telecommunications on DC-Net, or Dallas College Network. These courses are on live television, but with the difference that it is interactive: students watch and listen to the instructor on television and talk with the instructor and with classmates at other locations using special microphones or telephones.

Televised live classes are available at DCCCD colleges, on cable television in homes, and at select business sites.

Televised live classes provide students with several important benefits:

** access to courses which otherwise might not be available at individual colleges because of low enrollments. Students at multiple colleges, businesses and homes with cable TV can be combined so that the class has enough students to be offered.

** access to high-demand courses which are filled and not available at an individual college. A televised class on DC-NET can make additional enrollments available for those courses.

** access to courses at times which may be more convenient for students.

Televised live courses are listed in college class schedules with special designations. Tests are administered at the testing centers of the colleges of the DCCCD. For more information, consult the Distance Learning Information Brochure available at each college or call 214-952-0340.

Cooperative Work Experience

Students may enrich their education by enrolling in cooperative education courses. Cooperative education is a method of instruction offering the student the opportunity to earn college credit for the development and achievement of learning objectives which are accomplished through current on-the-job experience.

Work experience must be related to a field of study and an occupational goal. This work experience takes place at work training stations approved by the College. Employers must be willing to enter into training agreements with the College and the student/employee. The College will assist a student in seeking approvable employment, if needed.

To enroll in a cooperative education course, students must:

* complete an application for a student cooperative work experience program
* have completed at least six semester hours in an occupational major or secure waiver or requirement from the instructor
* declare a technical/occupation major or file a degree plan
* be currently enrolled in a course related to the major area of study
* be approved by the instructor.

Additional information regarding cooperative education may be secured from the Cooperative Education Office, the Division Office, or Counseling Office at each college. Technical/occupational programs which include cooperative education are indicated in this catalog.

International Studies

An important part of the DCCCD’s commitment to enhancing student appreciation for and understanding of diverse cultures is its international studies programs. These are available in a variety of countries during both the regular semesters and in the summer. Semester-length programs are currently available in England, France, Mexico, Spain, and Ireland. Students are usually sophomore level and have at least a 2.5 cumulative grade point. In most programs, no prior knowledge of a foreign language is required, allowing even novices to learn a language in its cultural context while taking other credit courses taught in English to complete their study of the native culture.

Also offered by many of the campuses are study-abroad opportunities during the summer sessions. Such courses are taught by DCCCD faculty and normally last two to three weeks. In previous years these courses have
been offered in Austria, Australia, China, Dominican Republic, France, Great Britain, Russia, Mexico, Jamaica, Spain, and Italy. For information about any of the semester-length or summer programs, contact the District Office of Student and International Programs at 214-746-2410.

Students from institutions belonging to the North Texas Community and Junior College Consortium may enroll in DCCCD international courses by paying "in-District" tuition charges plus related fees.

Human Development Courses

The Human Development curriculum is composed of several different credit and non-credit courses which provide theory and practice in human growth and development across the lifespan. The courses emphasize different areas, including: educational and career/life planning; interpersonal communication; personal and social growth; learning theory and study skills; and student success. Some campuses offer special sections of Human Development courses which emphasize various issues such as multicultural understanding, gender differences, and making life transitions. Some sections are designed for special populations such as women returning to school, adults making career or job changes, at-risk students, young adults, or academically unprepared students.

Some Human Development courses transfer to many 4-year institutions as elective credit. These courses use an experimental model which allows for the use of a wide variety of teaching/learning strategies including small group work, journal writing, mini-lectures, selected readings, classroom discussion, team teaching, peer teaching, outside guest speakers, psychometric testing and volunteer experiences in the community.

Developmental Education

Several levels of Developmental Writing, Reading, ESL, and Math courses are offered to enable underprepared students to complete the prerequisites for college-level work and to satisfy TASP remediation requirements. Students whose assessment test scores (local assessment tests, SAT, ACT, TASP, or Michigan) indicate they lack the skills necessary to be successful in college-level courses will be advised to enroll in developmental courses. Students who fail a portion of the state-mandated TASP Test will be required to participate continuously in remediation in the failed area(s). Other students who wish to review and improve basic skills may also elect to take one or more developmental courses. These courses are offered in classroom settings with laboratory support.

Evening and Weekend College

In order to serve those people whose work schedule and/or personal involvements make it impossible for them to attend college during normal daytime hours, most courses offered during the day are also available in the evening or on the weekend. Courses are offered both on campus and at selected community locations.

Evening and weekend courses offer high quality instruction and excellent facilities. A variety of student services, including advisement, health, library, bookstore, food services, financial aid, and recreation may be available. Instructors are selected from the College's own full-time staff, from outstanding Dallas area educators, or from other professional specialists interested in teaching. To enroll in the evening and weekend courses, contact the Director of Admissions.

Library and Student Obligations

The library is an information center where students can find print, non-print materials, and database services to supplement classroom learning. The library has a growing collection of materials on a wide variety of general information subjects to support academic transfer programs and technical/occupational programs. Other resources provided may include slides, tapes, compact discs, computer software, and videotapes. In addition, there are special collections of career materials and pamphlets as well as subscriptions to popular and technical periodicals and newspapers.

Willful damage to library materials (or property) or actions disturbing users of the library may lead to the loss of library privileges. Damage cases are referred to the appropriate authorities for further action. All books and other library materials must be returned before the end of each semester. No transcript will be issued until the student's library record is cleared.

Servicemen's Opportunity College

In cooperation with other community colleges in the United States, colleges of the Dallas County Community College District participate in the Servicemen's Opportunity College. Through this program, students can plan an educational experience regardless of location requirements of the military. While military service, per se, carries no equivalent college credit, coursework earned in the military MAY result in equivalent college credit with appropriate documentation. For further information contact the Registrars Office.

Continuing Education Programs

Within the Dallas County Community College District, Continuing Education is an educational development process which creates an instructional delivery system that is flexible, diverse, visionary, and responsive to the needs of its public, private, and corporate citizens. Continuing Education provides non-credit skills training, personal and professional courses, and programs for human, community, and economic development, and thus expands the available educational opportunities for all persons of all ages to participate in college programs.

Continuing Education instructors are professionals from the community chosen because they have proven
experience in their field. Their objective is to share their knowledge, insight and expertise, to assure that students acquire a knowledge of the subject, and, through a meaningful learning experience, to become equipped to serve better their community, business, and themselves.

Courses are offered as seminars, workshops and institutes; the type of course is determined by the nature of the materials, instructional approach, and the needs of the students. Usually there are no entrance requirements or examinations; however, some courses may have age restrictions and others may require a certain amount of experience in the subject field for enrollment. Admission is on a first-come, first-serve basis. Registration is simple, quick and easy, and may even be accomplished by telephone. Continuing Education classes are held on the college campus and in a variety of locations throughout the community. Classes and activities are conducted throughout the week, both during the day and evening hours, and also on Saturday and Sunday.

Because of the nature of Continuing Education course offerings, textbooks may not be required in some courses; however, other courses may require the purchase of texts and/or special class materials. To enhance the educational experience of those students who enroll in Continuing Education classes, library privileges are afforded them during the term in which they are registered.

Scholarship funds are available for specific vocationally oriented courses. To apply for these scholarship funds please inquire at the Continuing Education Office.

Continuing Education Units

College credit may be awarded for some courses related to DCCCD vocational/technical/occupational programs. Continuing Education Units (CEUs) are transcripted upon successful completion of the course. In all recognized educational circles, one CEU is equal to "ten contact hours of participation in an organized Continuing Education or extension experience under responsible sponsorship, capable direction, and qualified instruction." The CEU is a means of recording and accounting for Continuing Education activities and meeting the certification requirements of certain professional organizations.

The Bill J. Priest Institute for Economic Development

The Bill J. Priest Institute for Economic Development is located at 1402 Corinth, just south of downtown Dallas. The Institute houses non-credit programs serving the business community.

The Institute's program areas include:

- The Business & Professional Institute (BPI): Offers assessment services and non-credit customized contract training to business and industry;
- The Edmund J. Kahn Job Training Center (JTC): Provides short-term, intensive career training and basic skills/GED preparation instruction;
- The Dallas Small Business Development Center (SBDC): Provides free one-on-one counseling, affordable training, and resources to small businesses throughout Dallas County;
- The International Small Business Development Center SBDC (ISBDC): Located in the World Trade Center, provides training and free counseling to businesses interested in international trade;
- The Center for Government Contracting SBDC (CGC): Assists businesses seeking government contracts on municipal, county, state or federal levels through free counseling and affordable training and resources;
- Technology Assistance Center SBDC (TAC): Offers counseling services and training seminars focusing on technology transfer, product development and commercialization, the invention process and licensing;
- The Business Incubation Center (BIC): Offers cost-shared facilities and services to small businesses which can provide a viable business plan. Time-shared services are also provided on a contract basis for businesses which do not need to locate their home offices on-site;
- The North Texas SBDC: One of four regional SBDC offices in Texas, it oversees SBDC activities in 49 counties and comprises 16 field centers including the Dallas SBDC, ISBDC, CGC and TAC; and
- The BJPIED Testing Center: Provides for the community correspondence testing, credit by exam, ESL assessment, GED testing, National Food Protection Certification Program for food handlers as well as various national certifications, licensing and board exams for professional groups.

For more information about any of these programs, please consult the BJPIED section at the back of the comprehensive District Catalog or call 214-565-5803.

VII. STUDENT DEVELOPMENT

The College is committed to providing opportunities for each individual student's total educational development. Specific student services are integrated with the instructional program of the College to address individual needs for educational, personal, social, cultural, and career development.

Student Programs and Resources

The Student Programs and Resources Office plans and presents a wide variety of programs and activities for the general campus population and the surrounding community, including lectures, art gallery activities, and performance events. Programs often are coordinated with the various instructional divisions to provide students with valuable educational experiences. Leadership conferences, retreats, and service learning programs offer students opportunities to develop skills that may enrich the quality of their own lives and the life of their community. Student Programs and Resources seeks to involve students meaningfully in campus life. Recent research in higher education indicates that for many students involvement is an important contributor to academic success.
The Dallas County Community College District invites all students to take an active role in their college experience. There are many opportunities for students to become involved in the decision-making processes for the college. You may want to join a student club, participate in student government/ambassador activities, or serve on one of several committees engaging in real decision making for the College. Depending on the college you attend, students may be involved regularly in decisions regarding:

- **Selecting** the use of student activity fees and other institutional funds;
- **Determining** improvements for an aspect of the college (facilities, services provided, instruction, etc.);
- **Programming speakers** and special events offered to the student body;
- **Participating** in student disciplinary hearings;
- **Conducting** (or completing) surveys and questionnaires designed to gather information about your college experiences; and
- **Assisting** in the selection process of new college administration.

### Counseling/Advisement Services

Individuals may find counseling/advisement services helpful as they make plans and decisions in various phases of their development. For example, counselors and academic advisors can assist students in selecting courses of study, determining transferability of courses, choosing or changing careers, gaining independence, and confronting problems of daily living. Assistance is provided by the counseling/advising staff in the following areas:

1. **Career counseling** to explore possible vocational directions, occupational information, and self appraisal of interest, personality and abilities. Career Counseling may be available to students enrolled in credit classes only.
2. **Academic advisement** to develop and clarify educational plans and make appropriate course choices.
3. **Confidential counseling sessions** to assist students in managing the academic environment and dealing with issues which may hinder success.
4. **Small group discussions** led by counselors focusing on such areas as interpersonal relationships, test anxiety, and assertiveness. Counselors will consider forming any type of group for which there is a demand.
5. **Crisis intervention and referral sources** to provide in-depth assistance for such matters as legal concerns, financial aid, tutoring, job placement, medical problems, or emotional problems.

### Tutoring Services

For students needing special assistance in course work, tutoring services are available. Students are encouraged to seek services through self referral as well as through instructor referral.

### Testing/Appraisal Center

The Testing/Appraisal Center offers a variety of testing services which meet the expressed needs of students, staff, and community. Some of the services provided include:

1. **Academic Testing** supports instructional programs by providing:
   - Instructors tests
   - Make-up exams
   - Self-paced exams
   - Telecourse/DC-Net testing
2. **Assessment Testing** used to determine course placement.
3. **Standardized Exams** - includes national and state exam programs such as:
   - TASP, ACT, SAT, CLEP, GED, etc.
4. **Psychometric Testing** - involves assessment of:
   - Personality, Vocational Interests, Aptitude, and many others

Individuals desiring to take tests in the Centers must provide picture identification before receiving test materials. (Some Centers may also require the student identification card.) *Students must be referred by a counselor/faculty member for psychometric testing.*

There is a charge for some test services. For additional information, please contact the Testing Center of the campus you plan to attend.

### The Student Code of Conduct provisions regarding disruptive behavior and/or academic dishonesty apply equally to Test Centers and classrooms. Irregularities will be referred to the proper authorities for disciplinary action.

### Health Services

The Health Center is a multi-purpose facility that promotes health, wellness, and preventive care for the college community. Registered nurses coordinate and provide the health services which include:

- First aid for accident, injury or illness
- Health information and brochures
- Some over-the-counter (non-prescription) medicines such as Tylenol, aspirin and antacids
- Referral information for community health services
- Selected health education and screening programs
- Confidential health counseling
- A rest area

The health services are available to current students and staff. Students do not need to be sick to come to the Health Center. Health questions and concerns are welcomed. Students with chronic health problems are encouraged to visit the Health Center to discuss any special concerns with the nurse before attending classes and/or whenever problems arise. No information about the individual's health is released without the written permission of that individual unless required to do so by law.
Student Health Insurance
Optional student health insurance, with optional coverages of spouse and children, is available at the college. This limited coverage policy is administered by a local insurance company for a relatively inexpensive fee.

Job Placement Services
The Dallas County Community College District provides job placement services free of charge to DCCCD students (credit and non-credit), alumni, former students, and those in the process of enrolling. Although services may vary among DCCCD colleges, most Placement Offices provide opportunities for students to learn job search skills such as how to establish employment contacts, complete an application, write a resume and cover letter, and interview for a job.

All DCCCD colleges participate in a computer-assisted job bank which contains full and part-time opportunities in the Metroplex. Such opportunities are categorized by the career program areas offered by the DCCCD. All Placement Offices strictly adhere to EEO and Affirmative Action Guidelines. Employers listing positions with the DCCCD Job Placement Service must be EEO employers. All services are free of charge.

Special Services
The Special Services Office offers a variety of support services to enable students with disabilities and/or special needs to participate in the full range of college experiences. Services are arranged to fit the individual needs of the student and may include sign language interpreters, notetakers, tutors, mobility assistants, readers/audio tapers, and loan of specialized equipment such as wheelchairs, audio tape recorders, talking calculators, closed captioning decoders, raised-line drawing kits, and large print materials. Academic, career and personal counseling, special testing accommodations, registration assistance, and extensive information and referral services are also available. Students with special disabilities and/or needs who wish to request accommodations are responsible for documenting their needs and should initiate their request with the Special Services Office, preferably at least one month prior to registration. They will be provided orientation and registration information.

Students with disabilities attending any DCCCD college have a right to appeal decisions concerning physical and academic accommodations by submitting a written petition to the college's designated Americans with Disabilities Act (ADA) Compliance Officer.

For additional information, please contact the Special Services Office at the college you plan to attend.

Student Organizations
Information about participation in any organization may be obtained through the Student Programs and Resources Office. The development of student organizations is determined by student interest. Categories of organizations include co-curricular organizations pertinent to the educational goals and purposes of the College; social organizations to provide an opportunity for friendships and promote a sense of community among students; service organizations to promote student involvement in the community; pre-professional and academic organizations to contribute to the development of students in their career fields.

Intercollegiate Athletics
Participation on athletic teams is voluntary on a non-scholarship basis for students meeting requirements established by the Metro Athletic Conference. Most teams are associated with the National Junior College Athletic Association. For more information regarding eligibility, rules, standards, and sports offered, contact the Physical Education Office.

Intramural Sports
The College encourages participation in a campus intramural program for students. For additional information, contact the intramural director in the Physical Education Office or the Student Programs and Resources Office.

Housing
The College does not operate dormitories of any kind nor maintains listings of available housing for students. Students who do not reside in the area must make their own arrangements for housing.

College Police Departments
Campus safety is provided within the framework of state law to “protect and police buildings and grounds of state institutions of higher learning.” All laws of the State of Texas are applicable within the campus community. Officers of the College Police Departments are licensed Peace Officers of the State of Texas; they are specifically trained and educated to protect life and both College and personal property. These officers are vested with full authority to enforce all Texas laws and rules, regulations, and policies of the College, including the Code of Student Conduct.
All colleges of the DCCCD comply with the provisions of the Campus Security Act of 1990, Public Law 101-542. Copies of the document for each campus are available upon request through the College Police Department.

Drug-Free Schools and Communities Act
To satisfy the requirements of the “Drug Free Schools and Communities Act,” the DCCCD, its colleges and facilities are committed to creating an educational and work environment free from use or distribution of illicit drugs and abuse of alcohol. All of the DCCCD facilities prohibit the unlawful possession, use or distribution of illicit drugs and alcohol by students and employees on its property or as part of any of its activities. Information and confidential referrals concerning counseling and treatment programs for drug and alcohol abuse may be obtained from the Counseling/Advisement Center, Health Center, and location Human Resources Office.

VIII. FINANCIAL AID
Reauthorization of the Higher Education Act of 1965 was signed into law by President Bush on July 23, 1992. The Higher Education Amendments of 1992 included several significant changes to the Federal Financial Aid Programs. Several of these changes altered the methodology for determining students’ eligibility and the administration of the programs at the campus level.

Financial aid is available to help those students who, without such aid, would be unable to attend college. The primary resources for meeting the cost of education are the student, the parents and/or spouse. Financial aid, however, can remove the barriers from those families who cannot afford the cost of education beyond high school and can fill in the gap for families who can afford only part of the cost.

How to Apply
The Free Application for Federal Student Assistance (FAFSA) must be completed using data from the Federal Income Tax Return. This form is used to provide an analysis of the financial need. It may be obtained from a high school counselor or from any DCCCD Financial Aid Office. The FAFSA is to be mailed directly to the address indicated on the application. Six to eight weeks should be allowed for processing. The student should mail the FAFSA at least TWO MONTHS before the priority deadline for the semesters for which the student is applying. In addition to the FAFSA, students must complete the DCCCD Financial Aid Application and return it to the Financial Aid Office of the DCCCD college the student plans to attend. Certain DCCCD colleges may require the completion of different information forms.

The Department of Education will randomly select some applicants and require that information reported on the FAFSA be verified for accuracy. If the student's application is one that is selected, the student will be required to provide additional documents before financial assistance can be awarded. Certain DCCCD colleges may require these documents of all their student applicants.

The Higher Education Act now authorizes the use of data that matches with other agencies such as the Selective Service, Immigration and Naturalization Service (INS) and the National Student Loan Data System. If the match with INS has not confirmed a student's noncitizen eligibility, the college must submit the copy of the student's document to INS so the confirmation can be completed. Additionally, the social security number of each federal assistance applicant will soon be verified by the Federal Social Security Administration. If the number listed by the applicant does not match the records of the Federal Social Security Administration, the application will be returned to the student unprocessed.

For students who attended other colleges (including our DCCCD colleges), universities, vocational or trade schools, a Financial Aid Transcript must be sent from each previous institution to the Financial Aid office of the school where the student is applying. This procedure is required even if the student did not receive financial assistance at the previous institution and regardless of how long ago the student attended the previous institution.

Students born after December 31, 1960, and who are required under the Military Selective Service Act to register for the draft, must do so before financial aid can be approved. All students who apply for financial aid must sign a Registration Compliance Statement giving their selective service registration status before financial aid can be awarded.

Deadlines for Applying
Application for financial assistance received by the following dates will be given first priority:
- Academic Year - May 1
- Spring Only - October 1
- Summer Sessions - April 1

APPLICATIONS RECEIVED AFTER THESE DATES WILL BE PROCESSED AS TIME AND AVAILABILITY OF FUNDS PERMIT. Late applicants need to be prepared to pay their own registration and book costs until their application can be completed. Applicants should contact the Financial Aid office at the school which they plan to attend for additional deadlines and requirements.

The student must reapply for financial assistance once each academic year (fall/spring). The award does not continue automatically beyond the period awarded.

Grants

Federal Pell Grants
The Federal Pell Grant is a federally-funded program designed to help undergraduate pre-baccalaureate students continue their education. The purpose of this program is to provide eligible students with a “foundation” of financial aid to assist with the cost of attending college.
All students applying for financial assistance through the College must apply for a Federal Pell Grant. This is done through the FAFSA application discussed earlier. Other types of financial aid may be awarded if the student applies and qualifies. Eligibility for a Federal Pell Grant is based on financial need and satisfactory academic progress. Applications and additional information concerning the Pell Grant Program are available in the Financial Aid office and in the counseling offices of most high schools. The application process takes approximately 6-8 weeks.

In response to the Federal Pell Grant application, a Student Aid Report (SAR) will be provided to the student. Colleges that process electronically will provide an Electronic Student Aid Report (ESAR). The student should immediately review the SAR/ESAR to make sure it is correct, sign the certification statement, and bring all copies to the Financial Aid office. The exact amount of the Federal Pell Grant award will depend upon the Estimated Family Contribution (EFC) on the SAR/ESAR and the number of hours for which the student enrolls.

Federal Supplemental Educational Opportunity Grant (SEOG)

The Federal SEOG program provides assistance for eligible undergraduate students who show exceptional financial need and are making satisfactory academic progress toward their educational goal. The actual amount of the grant will vary depending on the availability of funds at the school, the student's family financial condition, and other financial aid the student is receiving. Priority is given to students receiving the Federal Pell Grant and having very limited Estimated Family Contribution (EFC). Students must apply each academic year for the Federal SEOG Grant.

Texas Public Educational Grant (TPEG)

The TPEG Program was enacted by the 64th Texas Legislature to assist needy students attending state supported colleges in Texas. To be eligible students must show financial need and be making satisfactory academic progress toward their educational goal. The actual amount of the grant will vary depending on the availability of funds at the school, the student's family financial condition and other financial aid the student is receiving. Grants are awarded by eligibility on a first-come, first-served basis. This grant is available to students enrolled in credit and certain continuing education courses. Students must apply each academic year for the TPEG Grant.

Texas Public Educational-State Student Incentive Grant (TPE-SSIG)

The TPE-SSIG Program is a state grant that is matched with federal funds to provide financial assistance to needy students attending state supported colleges in Texas. No more than 10% of the funds may be awarded to nonresident students. To qualify students must make satisfactory academic progress toward their educational goal and have financial need. The actual amount of the grant award will depend on the availability of funds and the degree of financial need. Grants are awarded by eligibility. Students must apply each academic year for the TPE-SSIG Grant.

Scholarships

DCCCD Foundation Scholarships

The DCCCD Foundation provides a scholarship program for students who attend the colleges of the DCCCD. These funds are made available through the colleges to needy students who also meet additional criteria of the scholarship funds. Students holding student visas are not eligible. Application forms for these Foundation scholarships and information concerning other requirements and deadlines are available in the Financial Aid office at each college.

Miscellaneous Scholarships

Several of the colleges have a limited number of scholarships available as a result of gifts from individuals, private industry, and community organizations. Generally, the eligibility criteria is the same as noted for the DCCCD Foundation Scholarships, and application forms are available in the Financial Aid office.

Loans

Federal Stafford Loans (formerly GSL)

The Higher Education Act of 1965, as amended, provided for student loans from private commercial lending agencies such as banks, savings and loan associations, credit unions, and insurance companies. To be eligible, students must now have financial need, make satisfactory academic progress toward their educational goal, and be enrolled for at least six (6) credit hours. As an undergraduate, the student may borrow up to $2,625 per year for the first year and $3,500 for the second year, with a maximum of $23,000 for all years of undergraduate study. The actual loan amount may be limited to less than this, depending on the cost of attendance, other financial aid, and family financial condition.

The interest rate is variable with a maximum of 9%. Borrowers do not pay interest until six months after ceasing at least half-time enrollment. The U.S. Dept. of Education pays the interest during the time the student is enrolled and during the grace period of six months following enrollment. Repayment begins six months after the student leaves school or drops to less than half-time enrollment. The minimum payment will be $50 per month and the loans must be repaid within 10 years. Lenders will charge a loan origination fee on each loan in addition to the insurance premium charged on the loan. These charges will be deducted from the proceeds of the loan.

Federal Unsubsidized Stafford Loans

The Federal Unsubsidized Stafford Loan Program was created by the Higher Education Amendments of 1992 and is available for all students regardless of income. The interest rate and loan limits are the same as the
Federal Stafford Loan Program. Interest payments begin the day the loan is disbursed and the student is responsible for interest accrued during in-school and deferment periods. Repayment of principle begins 6 months after the student ceases to be enrolled at least half-time.

Federal Parent Loan for Undergraduate Students (FPLUS)
Under the Federal Parent Loan for Undergraduate Students, parents may now borrow up to the cost of education, less other aid, per year for each dependent undergraduate student. The interest rate is variable with a cap of 10%. Repayment of principle and interest begins within 60 days after disbursement of the loan. The parents credit rating will be checked to determine eligibility and disbursement checks will be made co-payable to the parent and the institution.

Hinson-Hazlewood College Student Loan Program (HHCSLP)
The Hinson-Hazlewood Loan is a state-funded Federal Stafford Student Loan Program for students who are attending Texas colleges and are eligible to pay Texas resident tuition rates. All Hinson-Hazlewood Loan applicants must demonstrate financial need before a loan can be approved. The loan limit is $2,625 for the first year and $3,500 for the second year of undergraduate study and a maximum of $23,000 for all years of undergraduate study. The actual loan amount may be limited to less than this depending on the cost of attendance, other financial aid, and the family's financial condition. A loan origination fee and an insurance premium on the life of the student will be taken from the total amount of each loan. No interest or payments are paid by the student while enrolled at half-time or during the six-month grace period. The interest rate will be variable and will be disclosed by the Coordinating Board at time of disbursement. The minimum payment will be $50 per month over a 5-to 10-year period depending on the total amount borrowed. Participation in this loan program is on an individual college basis.

Emergency Short-Term Loans
The colleges of the DCCCD have limited short-term loan funds available which have been established by individuals and organizations, including the DCCCD Foundation, to meet emergency needs to students. Loans are usually limited in amount and bear no interest. These loans must be repaid within 60 days of the date of the loan, or the end of the term, whichever date comes first. A late fee of $10 will be added for late payment. Because the funds are very limited, students should apply early if financial assistance is needed for registration costs. Students must not have any outstanding debts with the DCCCD to receive these funds.

Employment
Federal Work-Study Program (FWSP)
The Federal Work-Study Program provides part-time employment for students with financial need who are making satisfactory academic progress toward their educational goal. The wage rate is $4.25 per hour and most students work 15 to 20 hours per week. Students will be paid on the last work day of the month. The amount students can earn in a school year is determined by the amount of their financial need and other aid awarded as part of their financial aid package. The majority of the students are employed on campus; however, some off-campus employment is also available. Students must apply each academic year for Federal Work-Study.

Each campus will utilize a percentage of the Federal Work-Study funds for community service activities.

SAMPLE REPAYMENT SCHEDULE

The chart below shows estimated monthly payments and total interest charges for 9% loans of varying amounts, with typical repayment periods. Remember that 9% is the highest the interest rate can be. Your rate may be lower.

<p>| Total Loan | Number of | Monthly Interest | Total | Repaid  |</p>
<table>
<thead>
<tr>
<th>Amount</th>
<th>Payments</th>
<th>Payment</th>
<th>Charges</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$2,600</td>
<td>66</td>
<td>$50.00</td>
<td>$ 707.65</td>
<td>$3,307.65</td>
</tr>
<tr>
<td>4,000</td>
<td>120</td>
<td>50.67</td>
<td>2,080.44</td>
<td>6,080.44</td>
</tr>
<tr>
<td>7,500</td>
<td>120</td>
<td>95.01</td>
<td>3,900.82</td>
<td>11,400.82</td>
</tr>
<tr>
<td>10,000</td>
<td>120</td>
<td>126.68</td>
<td>5,201.09</td>
<td>15,201.09</td>
</tr>
<tr>
<td>15,000</td>
<td>120</td>
<td>190.01</td>
<td>7,801.64</td>
<td>22,801.64</td>
</tr>
</tbody>
</table>
Student Assistants Employment Program
(Non-Work Study)
Part-time employment for students who do not have financial need is available on campus. The wage rate and the average hours worked per week are the same as the Federal Work-Study Program.

Off-Campus Employment
Students who need help finding a job off-campus should apply at the Placement office of the college they plan to attend. The wage rate varies with each job and financial need is not a requirement of employment.

Tuition Exemption Programs
In addition to the grants, scholarships, employment and loan programs already mentioned, the State of Texas and DCCCD offer a number of exemptions from tuition and fee charges. These exemptions are often overlooked simply because of their unusual nature. They are not related to family income or “financial need,” nor do they require completion of a regular financial aid application. Check with the Admissions Office for information concerning tuition exemption programs and the criteria for eligibility.

Vocational Rehabilitation
The Texas Rehabilitation Commission offers assistance for tuition and fees to students who are vocationally challenged as a result of a physically or mentally disabling condition. This assistance is generally limited to students not receiving other types of aid. For information, contact Texas Rehabilitation Commission, 13612 Midway, Suite 530, Dallas, Texas 75234.

Bureau of Indian Affairs
The Bureau of Indian Affairs offers educational benefits to American Indian/Native American students. Students need to contact the regional Bureau of Indian Affairs Office regarding eligibility.

Veteran's Benefits Programs
The Veteran's Benefits Programs are coordinated by the Veterans' Services office of the college. Services of this office include counseling the veteran concerning benefits, Veterans' Administration loans, Veterans' Administration work study programs, financial problems, career counseling, and other areas related to the veteran's general welfare. Tutoring services also are available to the veteran who is having learning difficulties in one or more subjects. The veteran student should be aware of the Veterans' Administration guidelines and should consult them before taking developmental or television courses. Violation of these guidelines causes complications in receiving monthly benefits or loss of those benefits.

1. A veteran student who plans to enroll in developmental courses must be tested and show a need in basic skills before enrolling in these courses.

2. A veteran student enrolled in television courses must be enrolled in three on-campus semester credit hours. VA payments for TV courses are limited to five semester credit hours per student.

3. A veteran student who has successfully completed credit hours at another college or university before applying for V.A. benefits must submit official academic transcripts to the Admissions Office. The transcript is evaluated and credit granted when applicable. The Admissions Office will evaluate all previous course work and prepare an educational plan.

4. A veteran student must enroll in courses required for a degree program. Information about degree requirements may be obtained from the Admissions office.

5. A veteran student who withdraws from all courses attempted during a semester is considered as making unsatisfactory progress by the V.A. and may lose future benefits. A veteran student must also maintain a satisfactory grade point average as outlined in this catalog.

The above V.A. regulations are subject to change without notice. Students should contact the Veterans' Services office in order to be aware of current regulations and procedures.

Hazlewood Act
Under the Hazlewood Act, certain Texas veterans who have exhausted remaining educational benefits from the Veterans' Administration can attend Texas state supported institutions and have some tuition and lab fees waived. To be eligible, students must have been residents of Texas at the time they entered the service, have an honorable discharge, must now be residents of Texas, and be ineligible for federal grants. Applications are available at the Financial Aid Office and will take a minimum of eight weeks to process. To apply, students must submit a Hazlewood Act application, a copy of their discharge papers and a Student Aid Report stating ineligibility to the Financial Aid Office.

Academic Progress Requirements
To comply with applicable laws and accreditation standards, the Dallas County Community College District has developed a policy describing satisfactory progress for both applicants and recipients of student financial aid.
STUDENT FINANCIAL AID STANDARDS OF ACADEMIC PROGRESS

I. Purpose and Scope
The following Standards of Academic Progress are effective beginning with the fall 1993 semester and are adopted according to federal mandates for the purpose of determining continuing student eligibility for financial aid. These Standards shall apply to all need-based financial assistance, unless the terms of a particular grant provide otherwise. These provisions apply only to students who apply and are awarded financial aid.

II. Grade Point Average (GPA) Requirement
A. All new and continuing students applying for financial assistance must have a cumulative GPA that meets the District's requirements (see following chart) on all credit hours earned from District colleges prior to the semester for which aid is requested.
B. Transfer students from colleges outside the District may be eligible for funding only on a probationary basis (unless an academic transcript is provided to the Financial Aid Office indicating a cumulative GPA of at least 2.0).
C. Each fall and spring semester students must complete both the minimum number of hours from those attempted as well as achieve the Cumulative GPA requirements. The following chart states the minimums that all Financial Aid Students must meet:

<table>
<thead>
<tr>
<th>Semester Requirements</th>
<th>Cumulative GPA Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours Attempted</td>
<td>Hours Required to Complete</td>
</tr>
<tr>
<td>12 or more</td>
<td>9</td>
</tr>
<tr>
<td>9 to 11</td>
<td>6</td>
</tr>
<tr>
<td>6 to 8</td>
<td>6</td>
</tr>
<tr>
<td>5 or less</td>
<td>All</td>
</tr>
</tbody>
</table>

III. Failure to Meet the Standards of Academic Progress
In these provisions, probation or suspension refers only to financial aid probation or suspension.
A. Following the first semester in which the above standards of academic progress are not met, the student will be placed on probation for the next semester of funding.
B. The student may be allowed to receive financial aid funds while on probation, but must complete the subsequent term by meeting all of the minimum requirements at the close of that term.
C. The student who fails to meet the Standards of Academic Progress during the semester of attendance while on probation will be placed on suspension and denied further funding for one semester.
D. During the first period of suspension, the student must enroll at least half-time (6 credit hours) for one semester at a District college, pay the expenses related to that enrollment, and pass the semester with a GPA of 2.0 or better.
E. If failure to meet satisfactory progress results in a second (or any subsequent) suspension from financial aid, the student must enroll in at least 6 credit hours and complete the semester with a GPA of 2.0 or better.
F. Students who have been reinstated from any suspension status may continue only on a probationary status for at least one term, regardless of their CGPA at the time of reinstatement.
G. Students placed on probation or suspension will be notified in writing of their status at the end of the semester.
H. If failure to meet Satisfactory Progress results in a third suspension from Financial Aid, no additional aid will be awarded.

IV. Appeal Process
A student who has been denied financial aid because of a failure to meet any of the criteria of the standards may petition the Director of Financial Aid to consider any mitigating circumstances. The student’s appeal must be in writing and supporting documentation regarding special circumstances must be provided. Should the Director deny a reinstatement of aid, the student may appeal the Director’s decision by following the same procedure of written appeal to the appropriate vice president overseeing the aid office.

V. Maximum Time Allowed For Completion of Educational Objectives
All financial aid recipients will have a maximum time frame in which to complete their educational requirements of 75 credit hours.

Additional Information
A. Financial Aid will not be provided for:
   • courses taken by audit;
   • credit hours earned by placement tests;
   • non-credit coursework;
   • any course registered for after the last official day of late registration (i.e. flex entry, fast track, mini term courses);
   • transfer students attending for summer only.
B. Grades of "W", "WX" or "I" will not be treated as completed coursework.
C. An "F" grade is a completed grade and will be taken into consideration when calculating the number of hours completed and Cumulative Grade Point Average (CGPA).
D. Developmental remedial coursework may receive funding up to a maximum of “30 credit hours” according to Federal Regulations.
E. Support Services: Many services are available at each District college to help students attain academic success. The services include Counseling, Testing, Tutoring, Health Services, Placement, the Career Development Center, and the Learning Resource Center. Information on such services shall be made available to all financial aid students.
STUDENT CODE OF CONDUCT

1. PURPOSE

The purpose of this document is to provide guidelines to the educational environment of the Dallas County Community College District. This environment views students in a holistic manner, encouraging and inviting them to learn and grow independently. Such an environment supposes both rights and responsibilities. Free inquiry and expression are essential parts of this freedom to learn, to grow and to develop. However, this environment also demands appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students must exercise these freedoms with responsibility.

2. POLICIES, RULES, AND REGULATIONS

a. Interpretation of Regulations. Disciplinary regulations at the college are set forth in writing in order to give students general notice of prohibited conduct. The regulations should be read broadly and are not designed to define misconduct in exhaustive terms.

b. Inherent Authority. The college reserves the right to take necessary and appropriate action to protect the safety and well-being of the campus community.

c. Student Participation. Students are asked to assume positions of responsibility in the college judicial system in order that they might contribute their skills and insights to the resolution of disciplinary cases. Final authority in disciplinary matters, however, is vested in the college administration and in the Board of Trustees.

d. Standards of Due Process. Students who allegedly violate provisions of this code are entitled to fair and equitable proceedings under this code. The focus of inquiry in disciplinary proceedings shall be the guilt or innocence of those accused of violating disciplinary regulations. Formal rules of evidence shall not be applicable, nor shall deviations from prescribed procedures necessarily invalidate a decision or proceeding, unless significant prejudice to a student respondent or the college may result.

e. Accountability. Students may be accountable to both civil authorities and to the college for acts which constitute violations of law and this code. Disciplinary action at the college will normally proceed during the pendency of criminal proceedings and will not be subject to challenge on the ground that criminal charges involving the same incident have been dismissed or reduced.

f. Definitions In This Code:

(1) "aggravated violation" means a violation which resulted or foreseeably could have resulted in significant damage to persons or property or which otherwise posed a substantial threat to the stability and continuance of normal college or college-sponsored activities.

(2) "cheating" means intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

(3) "college" or "institution" means the colleges of the Dallas County Community College District, including the Bill J. Priest Institute of Economic Development.

(4) "college premises" means buildings or grounds owned, leased, operated, controlled, or supervised by the college.

(5) "college-sponsored activity" means any activity on or off campus which is initiated, aided, authorized, or supervised by the college.

(6) "collusion" means the unauthorized collaboration with another person in preparing work offered for credit.

(7) "complaint" means a written summary of essential facts which constitute an alleged violation of published college regulation or policy.

(8) "controlled substance" and "illegal drugs" are those as defined by the state-controlled substances act, as amended.

(9) "distribution" means sale or exchange for personal profit.

(10) "fabrication" means intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

(11) "group" means a number of persons who are associated with each other and who have not complied with college requirements for registration as an organization.

(12) "hazing" is defined in Appendix B of this code.

(13) "intentionally" means conduct that one desires to engage in or one's conscious objective.

(14) "organization" means a number of persons who have complied with college requirements for registration.

(15) "plagiarism" means intentionally representing the words or ideas of another as one's own in any academic exercise.

(16) "published college regulation or policy" means standards of conduct or requirements located in the:

(a) College Catalog

(b) Board of Trustees Policies and Administrative Procedures Manual

(c) Student Handbook; or

(d) Any other official publication

(17) "reckless" means conduct which one should reasonably be expected to know would create a substantial risk or harm to persons or property or which would otherwise be likely to result in interference with normal college or college-sponsored activities.

(18) "sanctions" means any or all of the punitive actions described in Appendix A of this code.

(19) "student" means a person who has paid fees and is taking or auditing courses through the Dallas County Community College District.

(20) "violation" means an act or omission which is contrary to a published college regulation or policy.

(21) "weapon" means any object or substance designed to inflict a wound, cause injury, or incapacitate, including but not limited to, all firearms, knives, clubs, or similar weapons which are defined and prohibited by the state penal code, as amended.

(22) "will" and "shall" are used in the imperative sense.

g. Prohibited Conduct. The following misconduct is subject to disciplinary action:

(1) intentionally causing physical harm to any person on college premises or at college-sponsored activities, or intentionally or recklessly causing reasonable apprehension of such harm or hazing.

(2) unauthorized use, possession, or storage of any weapon on college premises or at college-sponsored activities.

(3) intentionally initiating or causing to be initiated any false report, warning or threat of fire, explosion or other emergency on college premises or at college-sponsored activities.

(4) intentionally interfering with normal college or college-sponsored activities, including, but not limited to, studying, teaching, research, college administration, or fire, security, or emergency services.
(5) knowingly violating the terms of any disciplinary sanction imposed in accordance with this chapter.

(6) unauthorized distribution or possession for purposes of distribution of any controlled substance or illegal drug on college premises or at college-sponsored activities.

(7) intentionally or maliciously furnishing false information to the college.

(8) sexual harassment.

(9) forgery, unauthorized alteration, or unauthorized use of any college document or instrument of identification.

(10) unauthorized use of computer hardware or software.

(11) all forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion.

(12) intentionally and substantially interfering with the freedom of expression of others on college premises or at college-sponsored activities.

(13) theft of property or of services on college premises or at college-sponsored activities; having possession of stolen property on college premises or at college-sponsored activities.

(14) intentionally destroying or damaging college property or property of others on college premises or at college-sponsored activities.

(15) failure to comply with the direction of college officials, including campus security/safety officers, acting in performance of their duties.

(16) violation of published college regulations or policies. Such regulations or policies may include those relating to entry and use of college facilities, use of vehicles and media equipment, campus demonstrations, misuse of identification cards, and smoking.

(17) use or possession of any controlled substance or illegal drug on college premises or at college-sponsored activities.

(18) unauthorized presence on or use of college premises.

(19) nonpayment or failure to pay any debt owed to the college with intent to defraud. (Appropriate personnel at a college may be designated by college or District officials to notify students of dishonored checks, library fines, nonpayment of loans, and similar debts. Such personnel may temporarily "block" admission or readmission of a student until the matter is resolved. If the matter is not settled within a reasonable time, such personnel shall refer the matter to the VPSD for appropriate action under this code. Such referral does not prevent or suspend proceedings with other appropriate civil or criminal remedies by college personnel.)

(20) use or possession of an alcoholic beverage on college premises with the exception of specific beverage-related courses within the EI Centro food service program.

Sanctions for violations of prohibited conduct for (1) through (6) may result in EXPULSION; for (7) through (13) may result in SUSPENSION, for (14) through (20) may result in sanctions other than expulsion or suspension.

Repeated or aggravated violations of any provision of this code may also result in expulsion or suspension or in the imposition of such lesser penalties as are appropriate.

h. Bill J. Priest Institute for Economic Development: The Director of the Job Training Center (JTC) of the Bill J. Priest Institute for Economic Development is authorized to promulgate written regulations which apply only to students who are subject to provisions of the federal Job Training Partnership Act (JTPA), as amended, its regulations, and other similar federal programs. JTC regulations should be designed to foster good work habits, promote skills desired by local employers, and encourage success in obtaining and maintaining a job. JTPA students are subject to conduct standards in the Code of Student Conduct as well as JTC regulations; however, the remainder of the Code is not applicable to such students. A JTPA student who allegedly violates the Code and/or JTC regulations must be given an opportunity to appeal expulsion, suspension, or other disciplinary sanctions in a manner determined by the Director of the JTC. JTPA students may file grievance by the Private Industry Council only.

3. DISCIPLINARY PROCEEDINGS

a. Administrative Disposition

(1) Investigation, Conference and Complaint

(a) When the Vice President of Student Development (VPSD as referred to in this code) receives information that a student has allegedly violated a published college regulation or policy, the VPSD or a designee shall investigate the alleged violation. After completing the preliminary investigation, the VPSD may:

(i) Dismiss the allegation as unfounded, either before or after conferring with the student; or

(ii) Proceed administratively and impose disciplinary action; or

(iii) Prepare a complaint based on the alleged violation for use in disciplinary hearings along with a list of witnesses and documentary evidence supporting the allegation. The VPSD will notify the complainant of the disposition of the complaint. If the VPSD dismisses the allegation, the complainant may appeal to the President for review in writing within five (5) working days after disposition.

(b) The President or a designee may suspend a student immediately and without prior notice for an interim period pending disciplinary proceedings, when there is evidence that the continued presence of the student on college premises poses a substantial threat to himself or herself, to others, or to the stability and continuance of normal college functions. A student who is suspended on an interim basis shall be given an opportunity to appear before the President or a designee within five (5) working days from the effective date of the interim suspension. A hearing with the President shall be limited to the following issues only.

(i) The reliability of the information concerning the student's conduct, including the matter of his or her identity; and

(ii) whether the conduct and surrounding circumstances reasonably indicate that the student's continued presence on college premises poses a substantial threat to himself or herself, to others or to the stability and continuance of normal college functions. After the hearing, the President or designee may modify the interim suspension as reasonable to protect the student, public, and college.

(c) No person shall search a student's personal possessions for the purpose of enforcing this code unless the student's prior permission has been obtained or unless a law enforcement officer conducts the search as authorized by law.

(2) Summons

(a) The VPSD shall summon a student regarding an alleged violation of this code by sending the student a letter. The letter shall be sent by certified mail, return receipt requested, addressed to the student at his or her last known address as it appears in the records of the Registrar's Office or shall be delivered personally to the student.
b. Student Discipline Committee

(1) Composition: Organization

(a) When a student refuses administrative disposition of a violation, the student is entitled to a hearing before the Student Discipline Committee. The hearing request must be made to the VPSD in writing, on or before the sixth (6th) working day after the date of refusal of administrative disposition. The committee shall be composed of equal numbers of students, administrators and faculty of the college. The committee and its chair shall be appointed by the President for each hearing on a rotating basis or on a basis of availability. The committee chair will be selected from the administration or faculty.

(b) The chairman of the committee shall rule on the admissibility of evidence, motions, and objections to procedure, but a majority of the committee members may override the chairman's ruling. All members of the committee are expected to attend all meetings and are eligible to vote in the hearing.

(c) The chairman shall set the date, time, and place for the hearing and may summon witnesses and require the production of documentary and other evidence.

(d) The VPSD shall represent the college before the Student Discipline Committee and present evidence to support any allegations of violations.

(2) Notice

(a) The committee chairman shall notify the student of the date, time, and place for the hearing by sending the student a letter by certified mail, return receipt requested, addressed to the student at his or her address appearing in the Registrar's Office records. The letter shall specify a hearing date not less than five (5) nor more than ten (10) working days after date of the letter. If a student is under 18 years of age, a copy of the letter shall be sent to the parent or guardian of the student.

(b) The chairman may for good cause postpone the hearing so long as all interested parties are notified of the new hearing date, time, and place.

(c) The notice shall advise the student of the following rights:

(i) To a private hearing or a public hearing (as he or she chooses);

(ii) To appear alone or with legal counsel if the alleged violation subjects the student to expulsion or suspension. The role of legal counsel is limited as provided in the code;

(iii) To have a parent or legal guardian present at the hearing;

(iv) To know the identity of each witness who will testify;

(v) To cause the committee to summon witnesses, and to require the production of documentary and other evidence possessed by the College;

(vi) To cross-examine each witness who testifies.

(d) A student who fails to appear after proper notice and without good cause will be deemed to have pleaded guilty to the violation pending against him. The committee shall impose appropriate penalty and notify the student in the same manner as the notice of hearing.

(e) Legal counsel who represents a student in a hearing where the alleged violation subjects the student to expulsion or suspension is limited to advising and assisting the student. This limitation means that legal counsel shall not cross-examine witnesses, make objections, testify, or perform other similar functions generally associated with legal representation. The same preceding limitation applies to counsel who represents the college. Student representation by legal counsel is not permitted in a hearing where the alleged violation does not subject the student to expulsion or suspension.

(3) Preliminary Matters

(a) Charges arising out of a single transaction or occurrence, against one or more students, may be heard together, or, upon request by one of the students-in-interest, separate hearings may be held.

(b) There will be disclosure of all evidence to both sides prior to the hearing.

(c) At least by 12:00 noon, five (5) full working days before the hearing date, the student concerned shall furnish the committee chairman with:

(i) The name of each witness he or she wants summoned and a description of all documentary and other evidence possessed by the college which he or she wants produced;

(ii) An objection that, if sustained by the chairman of the Student Disciplinary Committee, would prevent the hearing;

(iii) The name of the legal counsel, if any, who will appear with the student;

(iv) A request for a separate hearing, if any, and the grounds for such a request.
(4) Procedure

(a) The hearing shall be conducted by the chairman who shall provide opportunities for witnesses to be heard. The college will be represented by legal counsel if the student is represented by legal counsel in a hearing where the student is subject to expulsion or suspension.

(b) If a hearing may result in expulsion or suspension of a student, the college will have a court reporter present to transcribe the proceedings. If a hearing will not result in expulsion or suspension of a student, legal representation is not permitted and recording of the hearing by any means is not authorized by law.

(c) If the hearing is a private hearing, the committee shall proceed generally as follows:
   (i) Persons present: the complainant, the VPSD and the student with a parent or guardian if desired;
   (ii) Before the hearing begins, the VPSD or the student may request that witnesses remain outside the hearing room;
   (iii) The VPSD shall read the complaint;
   (iv) The VPSD shall inform the student of his or her rights, as stated in the notice of hearing;
   (v) The VPSD shall present the college's case;
   (vi) The student may present his or her defense;
   (vii) The VPSD and the student may present rebuttal evidence and argument;
   (viii) The committee, by majority vote, shall determine the guilt or innocence of the student regarding the alleged violation.
   (ix) The committee shall state in writing each finding of a violation of a published college regulation or policy. Each committee member concurring in the finding shall sign the statement. The committee may include in the statement its reasons for the finding. The committee shall notify the student in the same manner as the notice of hearing.
   (x) A determination of guilt shall be followed by a supplemental proceeding in which either party may submit evidence or make statements to the committee concerning the appropriate penalty to be imposed. The past disciplinary record of a student shall not be submitted to the committee prior to the supplemental proceeding. The committee shall determine a penalty by majority vote and shall inform the student, in writing, of its decision as in (ix) above.

(d) If the hearing is a public hearing, the committee shall proceed generally as follows:
   (i) Persons present: the complainant, the VPSD and the student with a parent or guardian if desired. Designated college representatives for the following groups may have space reserved if they choose to attend:
      • Faculty Association
      • College Newspaper
      • President
   Other persons may attend based on the seating available. The Chairman may limit seating accommodations based on the size of the facilities.
   (ii) Before the hearing begins, the VPSD or the student may request that witnesses remain outside the hearing room;
   (iii) The VPSD shall read the complaint;
   (iv) The VPSD shall inform the student of his or her rights, as stated in the notice of hearing;
   (v) The VPSD shall present the college's case;
   (vi) The student may present his or her defense;
   (vii) The VPSD and the student may present rebuttal evidence and argument;
   (viii) The committee, by majority vote, shall determine the guilt or innocence of the student regarding the alleged violation;
   (ix) The committee shall state in writing each finding of a violation of a published college regulation or policy. Each committee member concurring in the finding shall sign the statement. The committee may include in the statement its reasons for the finding. The committee shall notify the student in the same manner as the notice of hearing.
   (x) A determination of guilt shall be followed by a supplemental proceeding in which either party may submit evidence or make statements to the committee concerning the appropriate penalty to be imposed. The past disciplinary record of a student shall not be submitted to the committee prior to the supplemental proceeding. The committee shall determine a penalty by majority vote and shall inform the student, in writing, of its decision as in (ix) above.

(5) Evidence

(a) Legal rules of evidence shall not apply to hearings under this code. Evidence that is commonly accepted by reasonable persons in the conduct of their affairs is admissible. Irrelevant, immaterial, and unduly repetitious evidence may be excluded.

(b) The committee shall recognize as privileged communications between a student and a member of the professional staff of the Health Center, Counseling or Guidance Center where such communications were made in the course of performance of official duties and when the matters discussed were understood by the staff member and the student to be confidential. Committee members may freely question witnesses.

(c) The committee shall presume a student innocent of the alleged violation until there is a preponderance of evidence, presented by the VPSD, that the student violated a published college regulation or policy.

(d) All evidence shall be offered to the committee during the hearing.

(e) A student defendant may choose not to testify against himself or herself. The committee will make a determination based on the evidence presented.

(6) Record

The hearing record shall include: a copy of the notice of hearing; all documentary and other evidence offered or admitted in evidence; written motions, pleas, and other materials considered by the committee; and the committee's decisions.

(7) Petition for Administrative Review

(a) A student is entitled to appeal in writing to the President who may alter, modify, or rescind the finding of the committee and/or the penalty imposed by the committee. A student is ineligible to appeal if the penalty imposed is less than suspension or expulsion. The President shall automatically review every penalty of expulsion. Sanctions will not be imposed while appeal is pending.

(b) A student is entitled to appeal in writing to the Board of Trustees through the President, the Chancellor, and the Chairman of the Board. An appeal from the Student Discipline Committee is by review of the record (not de novo).

(c) A petition for review is informal but shall contain, in addition to the information required, the date of the Student Discipline Committee's action and the student's
APPENDIX

2. Definitions:

- c. "Disciplinary probation" means further violations may result
- j. Suspension from the college
- The following definitions apply to the penalties provided above:

a. An "Admonition" means a written reprimand from the VPSD or the Student Discipline Committee; from entering the college campus except in response to an official summons; from registering, either for credit or for noncredit, for scholastic work at or through the college.

b. "Warning probation" means further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires.

c. "Disciplinary probation" means further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires. Students may be placed on disciplinary probation for engaging in activities as illustrated by, but not limited to the following: being intoxicated, misuse of I.D. card, creating a disturbance in or on college premises and gambling.

d. "Withholding of transcript of degree" may be imposed upon a student who fails to pay a debt owed the college or who has a disciplinary case pending final disposition or who violates the oath of residency. The penalty terminates on payment of the debt or the final disposition of the case or payment of proper tuition.

e. "Bar against readmission" may be imposed on a student who has left the College on enforced withdrawal for disciplinary reasons.

f. "Restitution" means reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.

g. "Disciplinary suspension" may be either or both of the following:

(1) "Suspension of rights and privileges" is an elastic penalty which may impose limitations or restrictions to fit the particular case.

(2) "Suspension of eligibility for athletic and nonathletic extracurricular activities": prohibits, during the period of suspension, the student on whom it is imposed from joining a registered student organization; taking part in a registered student organization's activities, or attending its meetings or functions; and from participating in an official athletic or nonathletic extracurricular activity. Such suspension may be imposed for any length of time up to one calendar year. Students may be placed on disciplinary suspension for engaging in activities as illustrated by, but not limited to the following: having intoxicating beverages in any college facility, with the exception of specific beverage related courses within the El Centro food service program; destroying property or student's personal property; giving false information in response to requests from the college; instigating a disturbance or riot; stealing, possession, use, sale or purchase of illegal drugs on or off campus; any attempt at bodily harm, which includes taking an overdose of pills or any other act where emergency medical attention is required; and conviction of any act which is classified as a misdemeanor or felony under state or federal law.

h. "Denial of degree" may be imposed on a student found guilty of scholastic dishonesty and may be imposed for any length of time up to and including permanent denial.

i. "Suspension from the college" prohibits, during the period of suspension, the student on whom it is imposed from being initiated into an honorary or service organization; from entering the college campus except in response to an official summons; and from registering, either for credit or for noncredit, for scholastic work at or through the college.

j. "Expulsion" is permanent severance from the college. This policy shall apply uniformly to all the colleges of the Dallas County Community College District.

In the event any portion of this policy conflicts with the state law of Texas, the state law shall be followed.

APPENDIX A - SANCTIONS

1. Authorized Disciplinary Penalties:

The VPSD or the Student Discipline Committee may impose one or more of the following penalties for violation of a Board policy, College regulation, or administrative rule:

a. Admonition
b. Warning probation
c. Disciplinary probation
d. Withholding of transcript of degree
e. Bar against readmission
f. Restitution
g. Suspension of rights or privileges
h. Suspension of eligibility for official athletic and nonathletic extracurricular activities
i. Denial of degree
j. Suspension from the college
k. Expulsion from the college

2. Definitions:

The following definitions apply to the penalties provided above:

a. An "Admonition" means a written reprimand from the VPSD to the student on whom it is imposed.

b. "Warning probation" means further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires.

c. "Disciplinary probation" means further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires. Students may be placed on disciplinary probation for engaging in activities as illustrated by, but not limited to the following: being intoxicated, misuse of I.D. card, creating a disturbance in or on college premises and gambling.
5. Definition

b. The offense for failing to report hazing incident is a misdemeanor punishable by a fine not to exceed $1,000, confinement in county jail for not more than 180 days, or both such fine and confinement.

c. Any other hazing offense which does not cause serious bodily injury to another is a misdemeanor punishable by a fine of not less than $500 nor more than $1,000, confinement in county jail for not less than 90 days or more than 180 days, or both such fine and confinement.

d. Any other hazing offense which causes serious bodily injury to another is a misdemeanor punishable by a fine of not less than $1,000 nor more than $5,000, confinement in county jail for not less than 180 days nor more than one year, or both such fine and confinement.

e. Any other hazing offense which causes the death of another is a misdemeanor punishable by a fine of not less than $5,000 nor more than $10,000, confinement in county jail for not less than one year nor more than two years, or both fine and confinement.

(4) has firsthand knowledge of the planning of a specific hazing incident involving a student in an educational institution, or firsthand knowledge that a specific hazing incident has occurred, and knowingly fails to report said knowledge in writing to the VPSD or other appropriate official of the institution.

b. The offense for failing to report hazing incident is a misdemeanor punishable by a fine not to exceed $1,000, confinement in county jail for not more than 180 days, or both such fine and confinement.

c. Any other hazing offense which does not cause serious bodily injury to another is a misdemeanor punishable by a fine of not less than $500 nor more than $1,000, confinement in county jail for not less than 90 days or more than 180 days, or both such fine and confinement.

d. Any other hazing offense which causes serious bodily injury to another is a misdemeanor punishable by a fine of not less than $1,000 nor more than $5,000, confinement in county jail for not less than 180 days nor more than one year, or both such fine and confinement.

e. Any other hazing offense which causes the death of another is a misdemeanor punishable by a fine of not less than $5,000 nor more than $10,000, confinement in county jail for not less than one year nor more than two years, or both fine and confinement.

4. Immunity from Prosecution

Any person reporting a specific hazing incident involving a student in an educational institution to the VPSD or other appropriate official of the institution is immune from liability, civil or criminal, that might otherwise be incurred or imposed as a result of the report. A person reporting in bad faith or with malice is not protected.

5. Consent Not a Defense

It is not a defense to prosecution of a hazing offense that the person against whom the hazing was directed consented to or acquiesced in the hazing activity.

STUDENT GRIEVANCE PROCEDURE

1. Definition

Student grievance is a college-related internal problem or condition which a student believes to be unfair, inequitable, discriminatory, or a hindrance to the educational process. A grievance also includes discrimination on the basis of race, color, religion, national origin, sex, handicap, or age.

2. Scope

This student grievance procedure is not intended to supplant the Student Code of Conduct, which allows the student procedural due process in disciplinary proceedings initiated by the College. This student grievance procedure is designed to provide the student with the opportunity to question conditions which the student believes impede his or her education or instruction. This student grievance procedure is not designed to include changes in policy nor does it apply to grading practices. Recommendations for initiating new policy or changing established policy are handled through normal administrative channels. Problems with grades will be dealt with first by the instructor, then by the division chair, and so forth to the President if necessary.

3. Procedures

Students who believe that they have a college-related grievance:

a. Should discuss it with the college employee most directly responsible for the condition which brought about the alleged grievance.

b. If discussion does not resolve the matter to the student's satisfaction, the student may appeal to the next level of authority. The student may consult with the Administrative Offices to determine the next level of authority.

c. If an appeal does not resolve the grievance, the student may proceed to the appropriate vice president with a written presentation of the grievance.

d. If the vice presidential level of appeal does not prove satisfactory to the student, the student may appeal the grievance to an appeal committee.

4. Exception to Procedures

Sexual Harassment:

All students shall report complaints of sexual harassment informally to location representatives selected by the highest level administrator at the location or formally to the District Associate Vice Chancellor of Educational Affairs as provided in the sexual harassment procedure in IV/A-04 of the Board of Trustees Policies & Administrative Procedures Manual.
5. Appeal Committee

Procedures:

a. A student who wishes a grievance to be heard must submit a request in writing to the Vice President of Student Development.

b. The VPSD will convene and chair the Appeal Committee.

c. The appeal must be heard by the committee within ten (10) class days of the request unless extended with the agreement of both the student and the VPSD.

d. The committee will be ad hoc and will consist of two (2) students, two (2) faculty members, and one (1) staff member who is either an administrator or non-contractual employee. It is the responsibility of the President or the President's designee to appoint all committee members.

e. The Appeal Committee will make its recommendation directly to the President. The decision of the President shall be final.

CAMPUS PARKING AND DRIVING REGULATIONS


a. Authority for Regulations: The Board of Trustees, for the benefit of its colleges, is authorized by state law (Sec. 51.202, Education Code) to promulgate and enforce rules and regulations for the safety and welfare of students, employees, and property and other rules and regulations it may deem necessary to govern the institution, including rules for the operation and parking of vehicles on the college campuses and any other property under institutional control.

b. Authority of Campus Peace Officers: Pursuant to the provision of Sec.51.203, Education Code, campus peace officers are commissioned peace officers of the State of Texas, and as such have full authority to enforce all parking regulations and other regulations and laws within areas under the control and jurisdiction of the District. In addition, campus peace officers may enforce all traffic laws on public streets and highways which are in proximity to areas under District control. Campus peace officers may issue citations to violators or take other action consistent with the law.

c. Permits:

Vehicle: In accordance with Sec.51.207, Education Code, each college may issue and require use of a suitable vehicle identification decal as permits to park and drive on college property. Permits may be suspended for violations of applicable state law or parking and driving regulations. Each person who is required to have a vehicle identification decal shall apply to the Department of Campus Security for the decal. No fee is charged for the decal which must be placed on the rear window of the driver’s side of a motor vehicle and on the gas tank of the motorcycle or motorbike.

Handicap: All authorized decals for handicap parking areas must be displayed prior to parking in such areas.

d. Posting of Signs: Under the direction of the college president, the Department of Campus Safety shall post proper traffic and parking signs.

e. Applicability of Regulations: The rules and regulations in this Chapter apply to motor vehicles, motorbikes and bicycles on college campuses or other District property, and are enforceable against students, employees of the District and visitors.

2. Prohibited Acts: The following acts shall constitute violations of these regulations:

a. Speeding: The operation of a vehicle at a speed greater than is reasonable and prudent under existing conditions. The prima facie maximum reasonable and prudent speed on campus streets is twenty (20) miles per hour, and ten (10) miles per hour in parking areas, unless the street or area is otherwise posted.

b. Double parking, or otherwise parking, standing or stopping so as to impede the flow of traffic.

c. Driving the wrong way on a one-way street or lane.

d. Driving on the wrong side of the roadway.

e. Improper parking, so that any portion of a vehicle is outside the marked limits of a parking space.

f. Parking in unauthorized areas, as illustrated by, but not limited to those areas posted as visitor parking, no parking, handicapped parking or loading zones, designated crosswalks, motorcycle areas, or other unauthorized areas as designated by sign.

g. Parking trailers or boats on campus.

h. Parking or driving in areas other than those designated for vehicular traffic, as illustrated by, but not limited to courtyards, sidewalks, lawns, or curb areas.

i. Failure to display a parking permit.

j. Collision with another vehicle, a person, sign or immovable object.

k. Reckless driving.

l. Failure to yield the right-of-way to pedestrians in designated crosswalks.

m. Violation of any state law regulating vehicular traffic.

3. Tow-away Areas: A vehicle may be towed if parked without authority in the following areas:

a. Handicapped parking

b. Fire lanes

c. Courtyards

d. “No Parking” zones

e. Areas other than those designated for vehicular traffic

f. Other unauthorized areas as designated by sign.

4. Citations:

a. Types: Citations shall be of two types:

(1) Campus Citations: A campus citation is a notice that the alleged violator's parking and driving privilege or permit has been suspended pending appeal or disposition.

(2) Court Citations: A court citation is a notice of alleged violation of the type used by the Texas Highway Patrol, as authorized by Education Code, Sec.51.206. Generally, such citations shall be used for violations by visitors, other persons holding no college permit, and employees of the District for excessive violations. However, such citations may be used for the enforcement of any provisions of these regulations.

b. Disposition

(1) Campus Citation: A campus citation is returnable to the Department of Campus Safety, and a permit or driving privilege may be reinstated by the payment of a five dollar ($5.00) service charge per citation at the college business office.

(2) Court Citation: A court citation is returnable to the justice or municipal court in which the case is filed. Disposition of the citation may be made in the same manner as any other criminal case within the jurisdiction of such court.

5. Suspension Review: A person receiving a campus citation shall have the right to appeal the suspension of rights by submitting to
the college safety committee, within ten (10) days after the date of violation, notice of appeal in writing, which shall state the reasons for such appeal.

6. Safety Committee: The safety committee shall consist of not less than three (3) persons appointed by the President, none of whom shall be a campus peace officer. The committee shall meet as needed, but not less than five (5) business days after receipt of notice of appeal. Notice of such meetings shall be given to an appellant not less than twenty-four (24) hours prior thereto.

7. Penalties
   a. Impoundment: Failure to pay the service charge within ten (10) days after receipt thereof, or, if appealed, within ten (10) days after denial of appeal, shall result in impoundment of the vehicle, denial of readmission to any District college, and withholding of any transcript or degree. If a vehicle is impounded, the owner is liable for any wrecker charges and storage fees in addition to the service charge.
   b. Multiple Citations: Receipt of four (4) citations during the period from August 15 of a year to August 14 of the year following will result in suspension of the parking and driving permit or driving privilege for the balance of such year.
   c. Court Citations: Penalties for convictions in municipal or justice court are as prescribed by state law, not to exceed $200 per conviction.

8. Miscellaneous: The District nor any of its colleges or employees are responsible for damage to or theft of a vehicle or its contents while on the college campus.

**Communicable Disease Policy**

The Board acknowledges the serious threat to our community and nation posed by the AIDS epidemic. This policy and other procedures developed by the Chancellor shall emphasize educating employees and students concerning AIDS and managing each case of AIDS individually with sensitivity, flexibility, and concern for the individual as well as employees and students. In addition, this policy defines and addresses other communicable diseases which from time to time arise in the colleges and District among students and employees.

The District's decisions concerning a person who has a communicable disease shall be based upon current and well-informed medical judgement which includes the nature of the disease, risk of transmission to others, symptoms and special circumstances of the person, and balancing identifiable risks and available alternatives to respond to a student or employee with a communicable disease.

**Discrimination**

Students: No student will be required to cease attending a college or participating in college functions solely on the basis of diagnosis of a communicable disease.

Employees: An employee who has a communicable disease will be treated in the same manner as other employees who have other illnesses or injuries.

**Confidentiality**

The District shall comply with applicable statutes and regulations which protect the privacy of persons who have a communicable disease.

**Education**

The Chancellor shall develop and maintain a comprehensive educational program regarding HIV infection for students and employees.

Each college shall have a Communicable Disease Coordinator. The coordinator shall be a registered nurse who has received training in communicable diseases, particularly HIV infection. A student or employee who has a communicable disease is strongly encouraged to report the disease to the coordinator.

**Counseling**

The Communicable Disease Coordinator shall refer students and employees to sources of testing for HIV infection and counseling upon voluntary request. An individual shall bear the expenses of such testing and counseling.
## Texas Department of Health
### Recommended Adult Immunization Schedule

<table>
<thead>
<tr>
<th>Vaccine/Toxoid/Biological</th>
<th>Primary Schedule &amp; Boosters</th>
<th>Indications</th>
<th>Major Precautions &amp; Contraindications Other Than Primary Allergies</th>
<th>Special Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetanus-Diphtheria Toxoid</td>
<td>2 doses (IM) 4 weeks apart with 3rd dose (booster) 6-12 months then a booster every 10 years.</td>
<td>All Adults</td>
<td>Consider Human Tetanus Immune Globulin (TIG) for dirty wounds in patients with incomplete immunizations.</td>
<td></td>
</tr>
<tr>
<td>Measles Mumps Rubella (MMR) Vaccine</td>
<td>1 dose (SC); boosters for measles are necessary for certain adults.</td>
<td>Measles/Mumps for adults born after 1/1/57 who lack a vaccine history for measles and mumps since their 1st birthday OR serological proof of immunity OR a physician validated statement of Measles/Mumps illness. 2 doses of measles vaccine are recommended for persons at high risk of exposure (e.g. medical personnel). Rubella for any adult who lacks documentation of rubella vaccine since the 1st birthday OR serological proof of immunity.</td>
<td>Pregnancy; immuno-compromised; hypersensitivity to neomycin and/or eggs</td>
<td>Persons vaccinated with killed measles vaccine (1963-1967) should be revaccinated with live measles vaccine; MMR is the vaccine of choice if the person is likely to be susceptible to more than 1 agent</td>
</tr>
<tr>
<td>Hepatitis B Vaccine</td>
<td>2 doses (IM) 4 weeks apart; 3rd dose 5 months after 2nd.</td>
<td>Adults at increased risk of occupational, environmental, social, or family exposure.</td>
<td></td>
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</tr>
<tr>
<td>Influenza Vaccine (Split or Whole Vaccine)</td>
<td>1 dose annually (IM)</td>
<td>Adults with high-risk conditions; adults &gt; or = 65 years old; health care workers</td>
<td>Hyposensitivity to eggs; may be given during pregnancy to high-risk patients</td>
<td></td>
</tr>
<tr>
<td>Pneumococcal Polysaccharide Vaccine (23 Valant)</td>
<td>1 dose (IM or SC); boosters after 6 years indicated for certain adults</td>
<td>Underlying health conditions; adults 65 years old and older; adults with anatomic or functional asplenia</td>
<td>Pregnancy</td>
<td>Immune response is better if vaccinated prior to splenectomy</td>
</tr>
</tbody>
</table>

### ALERT!!

**MEASLES** (aka. rubeola, Red Measles, Hard Measles, 10-day Measles)

Measles is a highly contagious viral disease. Antibiotics are NOT available to treat persons infected with this organism. Recent outbreaks of this illness have included many hospitalizations and several deaths among college-aged persons, for these reasons it is strongly recommended that students of Institutions of Higher Education have two doses of the vaccine prior to beginning classes. Most young adults have had only one dose.

The measles vaccine is most often given in combination with the vaccines for mumps and rubella which are also caused by viruses.

**TETANUS** (aka. Lockjaw)

The illness caused by tetanus results from the poison produced by a bacteria. Again this is a very difficult illness to treat once it occurs and prevention is the most appropriate choice. The vaccine is effective for about 10 years and needs to be boosted at that interval. It is now common for older adults to develop Tetanus in the United States as many adults do not receive the recommended 10 year boosters. The Tetanus vaccine should be given in combination with the diphtheria vaccine.

**POLIOMYELITIS**

In the United States, polio immunization is not routinely recommended for persons 18 years of age or older. However, if travel to other parts of the world is planned, a physician should be contacted for specific recommendations.

### SECTION 2.09 AND 2.09A TEX. EDU. CODE

The campus health centers have information regarding local providers of immunization services. Check with the health center for specific local information.
ASSOCIATE OF ARTS AND SCIENCES DEGREE

IN ORDER TO BE ELIGIBLE TO RECEIVE AN ASSOCIATE OF ARTS AND SCIENCES DEGREE, A STUDENT MUST:

1. Complete a minimum of 61 credit hours
2. Receive a grade of "C" or better in each of three CORE courses
3. Have a passing score on all sections of TASP (for students entering the DCCCD Fall, 1989 or thereafter)
4. Complete 61 hours, including the following courses:

Students who plan to transfer to a four-year institution must consult the catalog of that institution to insure that selected courses will both transfer and apply toward the intended major. Material about transfer information is available in the Counseling Center.

<table>
<thead>
<tr>
<th>REQUIREMENTS</th>
<th>CREDIT HOURS TO BE COMPLETED</th>
<th>REQUIREMENTS</th>
<th>CREDIT HOURS TO BE COMPLETED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CORE COURSES</strong></td>
<td></td>
<td><strong>SOCIAL SCIENCE</strong></td>
<td></td>
</tr>
<tr>
<td>English 1301</td>
<td>3</td>
<td>History 1301</td>
<td>3</td>
</tr>
<tr>
<td>Speech Communication 1311</td>
<td>3</td>
<td>History 1302</td>
<td>3</td>
</tr>
<tr>
<td>*Math (1300 level or above courses)</td>
<td>3</td>
<td>Government 2301</td>
<td>3</td>
</tr>
<tr>
<td>Note: You must receive a grade of &quot;C&quot; or better in each of these courses. *See an advisor for the appropriate course selection for your major.</td>
<td></td>
<td>Government 2302</td>
<td>3</td>
</tr>
<tr>
<td>English 1302</td>
<td>3</td>
<td>Only 3 hours of History and 3 hours of Government may be earned through credit-by-exam.</td>
<td></td>
</tr>
<tr>
<td>Sophomore Literature</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td>(Select from English 2322, 2323, 2332, 2333, 2327, 2328, 2352, or 2371)</td>
<td>Note: English 2307 or 2311 will not meet this requirement</td>
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<td></td>
</tr>
<tr>
<td><strong>LAB SCIENCE</strong></td>
<td>8</td>
<td><strong>BUSINESS</strong></td>
<td>3</td>
</tr>
<tr>
<td>8 credit hours to be chosen from: Biology</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Chemistry</td>
<td></td>
<td>Accounting</td>
<td></td>
</tr>
<tr>
<td>Astronomy (Must be either PHYS 1311 or 1411 plus PHYS 1111; Must be either PHYS 1412 or 1312 plus PHYS 1112)</td>
<td></td>
<td>Business</td>
<td></td>
</tr>
<tr>
<td>Geology</td>
<td>3</td>
<td>Computer Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Physics</td>
<td></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td>or Physical Science</td>
<td></td>
<td>or Management 1370</td>
<td>3</td>
</tr>
<tr>
<td>See an advisor for the appropriate course selection for your major.</td>
<td></td>
<td>Cooperative Work Experience will not meet this requirement.</td>
<td></td>
</tr>
<tr>
<td><strong>HUMANITIES</strong></td>
<td>3</td>
<td><strong>PHYSICAL EDUCATION ACTIVITY</strong></td>
<td>1</td>
</tr>
<tr>
<td>3 credit hours to be chosen from: Art 1301</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities 1301</td>
<td></td>
<td>A maximum of 4 physical education activity hours may be counted toward graduation requirements</td>
<td></td>
</tr>
<tr>
<td>Music 1306</td>
<td></td>
<td><strong>ELECTIVE CREDIT</strong></td>
<td>16</td>
</tr>
<tr>
<td>Philosophy 1301</td>
<td></td>
<td>Any credit course offered in the DCCCD</td>
<td></td>
</tr>
<tr>
<td>Drama 1310</td>
<td></td>
<td>will count toward graduation with the EXCEPTION of the following courses: Courses numbered 0099 and below</td>
<td></td>
</tr>
<tr>
<td>Foreign Language</td>
<td></td>
<td>Art 1170</td>
<td>3</td>
</tr>
<tr>
<td>or Literature</td>
<td>(Select from English 2322, 2323, 2332, 2333, 2327, 2328, 2352, or 2371)</td>
<td>College Learning Skills 0100</td>
<td>3</td>
</tr>
<tr>
<td><strong>BEHAVIORAL SCIENCE</strong></td>
<td>3</td>
<td>Developmental Communications 0120</td>
<td>3</td>
</tr>
<tr>
<td>3 credit hours to be chosen from: Anthropology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Development</td>
<td>(with the exception of 0100 and 0110)</td>
<td>Human Development 0100</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td></td>
<td>Library Science 1370</td>
<td>3</td>
</tr>
<tr>
<td>or Sociology</td>
<td></td>
<td>Music 9175</td>
<td>3</td>
</tr>
<tr>
<td>Students wishing to transfer to a four year institution, must consult the catalog of the institutions to which they wish to transfer. These catalogs should be used by students working with an advisor in planning their academic program. Elective credit courses should be selected based on such an advisement process. The selection of science and math courses is frequently based on the four-year major. SEE AN ADVISOR FOR SELECTION OF APPROPRIATE COURSES.</td>
<td>3</td>
<td></td>
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</tr>
</tbody>
</table>

TOTAL 61
ASSOCIATE OF ARTS AND SCIENCES DEGREE IN BUSINESS  
(Available at Brookhaven, Eastfield, El Centro, Mountain View, North Lake, and Richland Colleges)

THIS DEGREE PLAN IS DESIGNED TO MEET THE NEEDS OF STUDENTS WHO PLAN TO MAJOR IN BUSINESS BUT ARE UNSURE ABOUT WHERE THEY WISH TO TRANSFER. THIS IS A GENERAL PLAN AND MAY OR MAY NOT SATISFY THE REQUIREMENTS OF A SPECIFIC TRANSFER UNIVERSITY.

IN ORDER TO RECEIVE AN ASSOCIATE OF ARTS AND SCIENCES DEGREE, A STUDENT MUST:

1. Complete a minimum of 61 credit hours including the following courses.
2. *Receive a grade of “C” or better in core courses.
3. Have a passing score on all sections of TASP (for students entering DCCCD Fall, 1989, or thereafter).

Students planning to transfer to a four year institution must consult that institution to insure selected courses will both transfer and apply toward the intended major. Once students have decided on the specific four year institution to which they plan to transfer and a specific major within Business, they are strongly encouraged to utilize the transfer degree plan which is customized to meet specific requirements of the selected institution. Material about transfer information is available in the Counseling/Advisement Center.

**REQUIREMENTS**

<table>
<thead>
<tr>
<th>REQUIREMENTS</th>
<th>CREDIT HOURS TO BE COMPLETED</th>
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<tbody>
<tr>
<td><strong>ENGLISH/COMMUNICATIONS</strong></td>
<td></td>
</tr>
<tr>
<td>*English 1301</td>
<td>3</td>
</tr>
<tr>
<td>*Speech Communications 1311</td>
<td>3</td>
</tr>
<tr>
<td>English 1302</td>
<td>3</td>
</tr>
<tr>
<td>Sophomore Literature</td>
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</tr>
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<td>(Select from English 2322, 2323, 2332, 2327, or 2328)</td>
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<tr>
<td>TOTAL ENGLISH/COMMUNICATIONS</td>
<td>12</td>
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<tr>
<td><strong>LAB SCIENCE</strong></td>
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<tr>
<td>8 credit hours to be chosen from:</td>
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<tr>
<td>Biology 1406/1407 or 1408/1409</td>
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<tr>
<td>Chemistry 1411/1412 or 1470/1471</td>
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</tr>
<tr>
<td>Astronomy PHYS 1411/1412</td>
<td></td>
</tr>
<tr>
<td>Geology 1403/1404</td>
<td></td>
</tr>
<tr>
<td>Physics 1401/1402 or 1405/1407 or 2425/2426</td>
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<tr>
<td>Physical Science 1415/1417</td>
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<tr>
<td><strong>HUMANITIES</strong></td>
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<td>Humanities 1301</td>
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<tr>
<td>Philosophy 1301</td>
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<tr>
<td>Art 1301</td>
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</tr>
<tr>
<td>Music 1306</td>
<td></td>
</tr>
<tr>
<td>Foreign Language 1411, 1412, 2311, 2312</td>
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<tr>
<td>Literature</td>
<td></td>
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<tr>
<td>(Select from English 2322, 2323, 2332, 2327, or 2328)</td>
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<tr>
<td>Drama 1310</td>
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<td>TOTAL HUMANITIES</td>
<td>3</td>
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<tr>
<td>*Core Courses</td>
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<tr>
<td><strong>SOCIAL SCIENCE</strong></td>
<td></td>
</tr>
<tr>
<td>History 1301/1302</td>
<td>6</td>
</tr>
<tr>
<td>Government 2301/2302</td>
<td>6</td>
</tr>
<tr>
<td>Only 3 hours of History and 3 hours of Government may be earned through credit-by-exam.</td>
<td></td>
</tr>
<tr>
<td>TOTAL SOCIAL SCIENCE</td>
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<tr>
<td><strong>CORE BUSINESS COURSES</strong></td>
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<tr>
<td>Accounting 2301/2302</td>
<td>6</td>
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<tr>
<td>Economics 2301/2302</td>
<td>6</td>
</tr>
<tr>
<td>Computer Information Systems 1470</td>
<td>4</td>
</tr>
<tr>
<td>*Math 1324</td>
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<tr>
<td>Math 1325</td>
<td>3</td>
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<tr>
<td>TOTAL BUSINESS</td>
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<td><strong>PHYSICAL EDUCATION</strong></td>
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<tr>
<td><strong>ELECTIVE CREDITS</strong></td>
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<tr>
<td>Electives should be chosen to satisfy transfer requirements with emphasis on business courses.</td>
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</tr>
<tr>
<td>TOTAL ELECTIVES</td>
<td>3</td>
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</table>

**Please consult an advisor for the appropriate course selection for your major and the requirements of the four year institution to which you plan to transfer because each institution may specify a specific course to satisfy the requirement in this area of study.**

- Students should have a proficiency in keyboarding.
- Many universities accept more than 61 transfer credits. Students are encouraged to take additional elective courses.

**MINIMUM TOTAL CREDITS** 61
<table>
<thead>
<tr>
<th>Career Education Programs</th>
<th>Food And Hospitality Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting Associate</td>
<td></td>
</tr>
<tr>
<td>Air Conditioning &amp; Refrigeration — Residential</td>
<td></td>
</tr>
<tr>
<td>Residential Technician I</td>
<td></td>
</tr>
<tr>
<td>Residential Technician II</td>
<td></td>
</tr>
<tr>
<td>Residential Technician III</td>
<td></td>
</tr>
<tr>
<td>Air Conditioning &amp; Refrigeration Technology</td>
<td></td>
</tr>
<tr>
<td>Apparel Design</td>
<td></td>
</tr>
<tr>
<td>Associate Degree Nursing</td>
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</tr>
<tr>
<td>LVN Option</td>
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<tr>
<td>Auto Body Technology</td>
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<tr>
<td>Automotive Career Technician</td>
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</tr>
<tr>
<td>Automotive Technology</td>
<td></td>
</tr>
<tr>
<td>Dealership-Sponsored Technician</td>
<td></td>
</tr>
<tr>
<td>Electronic Engine Control Technician</td>
<td></td>
</tr>
<tr>
<td>Service Technician</td>
<td></td>
</tr>
<tr>
<td>Aviation Technology</td>
<td></td>
</tr>
<tr>
<td>Air Cargo Transport</td>
<td></td>
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<tr>
<td>Aircraft Dispatcher</td>
<td></td>
</tr>
<tr>
<td>Airline Management</td>
<td></td>
</tr>
<tr>
<td>Fixed Base Operations/Airport Management</td>
<td></td>
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<tr>
<td>Professional Pilot Option</td>
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<tr>
<td>Business Administration</td>
<td></td>
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<tr>
<td>Child Development Associate</td>
<td></td>
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<tr>
<td>Administrative Certificate</td>
<td></td>
</tr>
<tr>
<td>CDA Training Certificate</td>
<td></td>
</tr>
<tr>
<td>Infanti-Toddler Certificate</td>
<td></td>
</tr>
<tr>
<td>Special Child Certificate</td>
<td></td>
</tr>
<tr>
<td>Commercial Music</td>
<td></td>
</tr>
<tr>
<td>Arranger/Composer/Copyist</td>
<td></td>
</tr>
<tr>
<td>Music Retailing</td>
<td></td>
</tr>
<tr>
<td>Performing Musician</td>
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</tr>
<tr>
<td>Recording Technology</td>
<td></td>
</tr>
<tr>
<td>Computer Aided Design &amp; Drafting</td>
<td></td>
</tr>
<tr>
<td>Computer Information Systems</td>
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<tr>
<td>Business Computer Assistant</td>
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</tr>
<tr>
<td>Business Computer Information Systems</td>
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</tr>
<tr>
<td>Business Software Programmer/Developer</td>
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<tr>
<td>Local Area Network Administrator</td>
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<tr>
<td>LAN Server Operator</td>
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<tr>
<td>Midrange Computer Center Specialist</td>
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<tr>
<td>Midrange Computer Technician</td>
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<tr>
<td>Personal Computer Support</td>
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<tr>
<td>Construction Management &amp; Technology</td>
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<tr>
<td>Construction Specifier</td>
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<tr>
<td>Construction Technology</td>
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<tr>
<td>Criminal Justice</td>
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<tr>
<td>Educational Personnel</td>
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<tr>
<td>Bilingual/ESL</td>
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<tr>
<td>Educational Assistant</td>
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<tr>
<td>Electrical Technology</td>
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<tr>
<td>Electronic Telecommunications</td>
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<tr>
<td>Electronics/Computer Technology</td>
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<tr>
<td>Basic Electronics Technology</td>
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<tr>
<td>Electronics Technology</td>
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<tr>
<td>Automated Manufacturing</td>
<td></td>
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<tr>
<td>Avionics</td>
<td></td>
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<tr>
<td>Microcomputer Maintenance</td>
<td></td>
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<tr>
<td>Engineering Technology</td>
<td></td>
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<tr>
<td>Design for Manufacturing</td>
<td></td>
</tr>
<tr>
<td>Electronic Computer-Aided Technology</td>
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</tr>
<tr>
<td>Robotics &amp; Automated Systems</td>
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<tr>
<td>Robotics Certificate</td>
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<tr>
<td>Environmental Technology</td>
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<tr>
<td>Laboratory Assistant</td>
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<tr>
<td>Laboratory Analysis</td>
<td></td>
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<tr>
<td>Regulatory Compliance</td>
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<tr>
<td>Fire Protection Technology</td>
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<tr>
<td>Food And Hospitality Service</td>
<td></td>
</tr>
<tr>
<td>Bakery/Pastry</td>
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<tr>
<td>Graphic Communications</td>
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<td>Electronic Pre-press Certificate</td>
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<tr>
<td>Graphic Arts</td>
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<tr>
<td>Press Operations Certificate</td>
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<td>Health Information Management</td>
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<tr>
<td>Medical Records Technician</td>
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<tr>
<td>Medical Records Coding Specialist</td>
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<tr>
<td>Interior Design</td>
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<tr>
<td>International Business &amp; Trade</td>
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<tr>
<td>Interpreter Training Program</td>
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<tr>
<td>Sign Language Studies</td>
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<tr>
<td>Invasive Cardiovascular Technology</td>
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<tr>
<td>Legal Assistant</td>
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<tr>
<td>Management</td>
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<tr>
<td>Marketing Careers</td>
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<td>Fashion Marketing</td>
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<tr>
<td>Retail Sales Associate</td>
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</tr>
<tr>
<td>Sales, Marketing &amp; Retail Management</td>
<td></td>
</tr>
<tr>
<td>Visual Merchandising Assistant</td>
<td></td>
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<tr>
<td>Showroom Manager</td>
<td></td>
</tr>
<tr>
<td>Medical Laboratory Technician</td>
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<tr>
<td>Medical Transcription</td>
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<tr>
<td>Mortgage Banking</td>
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<td>Designate Certificate</td>
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<tr>
<td>Intern Skills Achievement Award</td>
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<tr>
<td>Motorcycle Mechanics</td>
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<tr>
<td>Office Technology</td>
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<tr>
<td>Administrative Assistant</td>
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</tr>
<tr>
<td>General Office Clerk</td>
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<td>Receptionist Certificate</td>
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<tr>
<td>Word Processing Typist Certificate</td>
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<tr>
<td>Ornamental Horticulture</td>
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<tr>
<td>Greenhouse Florist</td>
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<td>Interiorscope</td>
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<tr>
<td>Landscape Management</td>
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<td>Landscape Nursery</td>
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<tr>
<td>Florist</td>
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<td>Landscape Gardener</td>
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<tr>
<td>Outboard Marine Engine Mechanics</td>
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<tr>
<td>Pattern Design</td>
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<td>Physical Fitness Technology</td>
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<td>Postal Service</td>
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<tr>
<td>Radiologic Sciences</td>
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<tr>
<td>Diagnostic Medical Sonography</td>
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<td>Radiography Technology</td>
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<tr>
<td>Real Estate</td>
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<td>Building Property Management</td>
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<td>Provisional Certificate</td>
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<td>Salesman</td>
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<td>Specialist Certificate</td>
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<td>Respiratory Care</td>
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<td>Small Engine Mechanics</td>
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<td>Social Work Associate-Generalist</td>
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<td>Human Services</td>
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<tr>
<td>Substance Abuse Counseling</td>
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<td>Surgical Technology</td>
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<tr>
<td>Perioperative Nurse Internship</td>
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<tr>
<td>Travel and Tourism Management</td>
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<tr>
<td>Veterinary Technology</td>
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<tr>
<td>Video Technology</td>
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<tr>
<td>Visual Communications</td>
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<tr>
<td>Computer Graphics</td>
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<tr>
<td>Design and Layout</td>
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<tr>
<td>Vocational Nursing</td>
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<tr>
<td>Welding Technology</td>
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</table>
ACCOUNTING ASSOCIATE

Offered at all seven campuses

(Associate Degree)

Degree Plan Number X40895

The Accounting Associate two-year program is designed to prepare a student for a career as a junior accountant in business, industry and government. Emphasis will be placed on internal accounting procedures and generally accepted accounting principles.

The Associate in Applied Sciences Degree is awarded for successful completion of at least 67 credit hours as outlined below. Students desiring a less comprehensive program that includes some bookkeeping procedures and practices should consider the General Office Certificate. The General Office Certificate is available in the Office Technology Program.

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<thead>
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<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tr>
<td>ACCT 2301</td>
<td>Principles of Accounting I*</td>
</tr>
<tr>
<td>BUSI 1301</td>
<td>Introduction to Business</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
</tr>
<tr>
<td>MATH 1324</td>
<td>Mathematics for Business and Economics</td>
</tr>
<tr>
<td>OFCT 1372</td>
<td>Office Calculating Machines</td>
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<table>
<thead>
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<th>SEMESTER II</th>
<th>CREDIT HOURS</th>
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<td>ACCT 2302</td>
<td>Principles of Accounting II*</td>
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<tr>
<td>ENGL 1302</td>
<td>Composition II</td>
</tr>
<tr>
<td>CISC 1470</td>
<td>Introduction to Computer Concepts and Applications</td>
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<tr>
<td>OFCT 1378</td>
<td>Beginning Typing**</td>
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<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech Communication</td>
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<table>
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<th>SEMESTER III</th>
<th>CREDIT HOURS</th>
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<td>ACCT 2378</td>
<td>Intermediate Accounting I</td>
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<tr>
<td>ACCT 2377</td>
<td>Managerial Accounting OR</td>
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<tr>
<td>ACCT 2376</td>
<td>Cost Accounting</td>
</tr>
<tr>
<td>ACCT 2370</td>
<td>Microcomputer-Based Accounting Applications</td>
</tr>
<tr>
<td>ECON 2301</td>
<td>Principles of Economics I</td>
</tr>
<tr>
<td>+ Elective</td>
<td>Social/Behavioral Science</td>
</tr>
<tr>
<td>ACCT 7371</td>
<td>Cooperative Work Experience OR</td>
</tr>
<tr>
<td>ACCT 7471</td>
<td>Cooperative Work Experience OR</td>
</tr>
<tr>
<td>+ + Elective</td>
<td>Any non-ACCT course</td>
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</table>

Minimum Hours Required ........................................ 67

+E Electives—must be selected from the following:

| ANTH 2346 | Introduction to Anthropology | 3 |
| GOVT 2301 | American Government | 3 |
| GOVT 2302 | American Government | 3 |
| HIST 1301 | History of the United States | 3 |
| HIST 1302 | History of the United States | 3 |
| PSYC 2301 | Introduction to Psychology | 3 |
| PSYC 2306 | Human Sexuality | 3 |
| PSYC 1370 | Applied Psychology and Human Relations | 3 |
| SOCI 1301 | Introduction to Sociology | 3 |
| SOCI 1306 | Social Problems | 3 |

Any CISC Course

| ACCT 2375 | Business Finance | 3 |
| ACCT 2379 | Intermediate Accounting II | 3 |
| ACCT 2376 | Cost Accounting | 3 |
| ACCT 7371 | Cooperative Work Experience | 3 |
| ACCT 7471 | Cooperative Work Experience | 4 |
| ACCT 7372 | Cooperative Work Experience | 3 |
| ACCT 7472 | Cooperative Work Experience | 4 |
| BUSI 1307 | Personal Finance | 3 |
| MGMT 1370 | Principles of Management | 3 |
| MGMT 2373 | Organizational Behavior | 3 |
| MRKT 2370 | Principles of Marketing | 3 |

+E Electives—must be selected from the following:

| ARTS 1301 | Art Appreciation | 3 |
| ENGL 2322 | British Literature | 3 |
| ENGL 2323 | British Literature | 3 |
| ENGL 2332 | World Literature | 3 |
| ENGL 2333 | World Literature | 3 |
| ENGL 2327 | American Literature | 3 |
| ENGL 2328 | American Literature | 3 |
| HUMA 1301 | Introduction to the Humanities | 3 |
| MUSI 1305 | Music Appreciation | 3 |
| PHIL 1301 | Introduction to Philosophy | 3 |
| DRAM 1310 | Introduction to the Theatre | 3 |
| Foreign Language or American Sign Language | 3 |

*ACCT 2401 may be substituted for ACCT 2301 and ACCT 2402 may be substituted for ACCT 2302.

*Students who can demonstrate proficiency by previous training, experience, or placement tests may substitute a course from the elective + + listed for this program.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
AIR CONDITIONING AND REFRIGERATION – RESIDENTIAL

Cedar Valley, Eastfield, and North Lake only

( Associate Degree)

Degree Plan Number X41355

This program is designed to train students to meet employment requirements in the field of residential air conditioning. This will include the installation, repair and maintenance of residential air conditioning equipment. Included in this program is the study of residential air conditioners, heat pumps, gas and electric furnaces, humidifiers, and the design of residential air conditioning systems. Throughout the entire program an emphasis is placed on current techniques used by service technicians.

CREDIT HOURS

SEMESTER I

HVAC 1670 Principles of Refrigeration .......... 6
HVAC 1671 Principles of Electricity .......... 6
COMM 1370 Applied Communications OR
ENGL 1301 Composition I .......... 3

SEMESTER II

HVAC 1672 Residential Cooling Systems .......... 6
HVAC 1673 Residential Heating Systems .......... 6
MATH 100 + Any Level Math Course .......... 3

SEMESTER III

HVAC 2670 Contractor Estimating .......... 6
HVAC 2671 System Servicing .......... 6
+ Natural Science .......... 4

SEMESTER IV

CISC 1470 Introduction to Computer Concepts and Applications .......... 4
SPCH 1311 Introduction to Speech
Communication .......... 3
PSYC 1370 Applied Psychology and Human Relations .......... 3
+ + Elective Humanities/Fine Arts .......... 3
Elective Any non-HVAC course .......... 3

Minimum Hours Required .......... 62

+ Natural science elective should be chosen from the following:

PHYS 1311 Descriptive Astronomy with
PHYS 1111 Astronomy Laboratory I .......... 4
PHYS 1312 General Astronomy with
PHYS 1112 Astronomy Laboratory II .......... 4
BIOL 1406 General Biology .......... 4
BIOL 1407 General Biology .......... 4
BIOL 1408 Biological Science .......... 4
BIOL 1409 Biological Science .......... 4
CHEM 1411 General Chemistry .......... 4
CHEM 1412 General Chemistry .......... 4
CHEM 2423 Organic Chemistry I .......... 4
CHEM 2425 Organic Chemistry II .......... 4
GEOL 1403 Physical Geology .......... 4
GEOL 1404 Historical Geology .......... 4
GEOL 2409 Introduction to Rocks and Mineral Identification .......... 4
GEOL 2470 Field Geology .......... 4
GEOL 2407 Geologic Field Methods .......... 4
GEOL 2471 Mineralogy .......... 4
PHYS 1415 Physical Science .......... 4
PHYS 1417 Physical Science .......... 4
PHYS 1401 Introductory General Physics .......... 4
PHYS 1402 Introductory General Physics .......... 4
PHYS 1405 Concepts in Physics .......... 4
PHYS 1407 Concepts in Physics .......... 4
PHYS 1470 Applied Physics .......... 4
PHYS 1471 Applied Physics .......... 4

+ + Humanities/Fine Arts elective should be chosen from the following:

ARTS 1301 Art Appreciation .......... 3
ENGL 2322 British Literature .......... 3
ENGL 2323 British Literature .......... 3
ENGL 2332 World Literature .......... 3
ENGL 2333 World Literature .......... 3
ENGL 2327 American Literature .......... 3
ENGL 2328 American Literature .......... 3
ENGL 2370 Studies in Literature .......... 3
ENGL 2371 Studies in Literature .......... 3
Foreign Language or American Sign Language .......... 4
HUMA 1301 Introduction to the Humanities .......... 3
MUSI 1306 Music Appreciation .......... 4
PHIL 1301 Introduction to Philosophy .......... 3
DRAM 1310 Introduction to the Theatre .......... 3

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
AIR CONDITIONING AND REFRIGERATION -- RESIDENTIAL TECHNICIAN I

Cedar Valley, Eastfield, and North Lake only
(Skills Achievement Award)
Degree Plan Number X37045

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
<th>SEMESTER I</th>
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</thead>
<tbody>
<tr>
<td>HVAC 1670 Principles of Refrigeration</td>
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<tr>
<td>HVAC 1671 Principles of Electricity</td>
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Minimum Hours Required: 12

AIR CONDITIONING AND REFRIGERATION -- RESIDENTIAL TECHNICIAN II

Cedar Valley, Eastfield, and North Lake only
(Skills Achievement Award)
Degree Plan Number X37055

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>HVAC 1672 Residential Cooling System</td>
<td>6</td>
</tr>
<tr>
<td>HVAC 1673 Residential Heating Systems</td>
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</tr>
</tbody>
</table>

Minimum Hours Required: 12

AIR CONDITIONING AND REFRIGERATION -- RESIDENTIAL TECHNICIAN III

Cedar Valley, Eastfield, and North Lake only
(Certificate)
Degree Plan Number X51365

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
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<tr>
<td>HVAC 1670 Principles of Refrigeration</td>
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<tr>
<td>HVAC 1671 Principles of Electricity</td>
<td>6</td>
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<tr>
<td>Select two from the following:</td>
<td>6</td>
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<tr>
<td>COMM 1370 Applied Communications or ENGL 1301 Composition I</td>
<td>6</td>
</tr>
<tr>
<td>SPCH 1311 Introduction to Speech Communication</td>
<td>6</td>
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<tr>
<td>MATH 100 Level Math</td>
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Total Credit Hours: 18

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<th>SEMESTER II</th>
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<tbody>
<tr>
<td>HVAC 1672 Residential Cooling Systems</td>
<td>6</td>
</tr>
<tr>
<td>HVAC 1673 Residential Heating Systems</td>
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Minimum Hours Required: 12

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
<th>SEMESTER III</th>
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<tbody>
<tr>
<td>HVAC 2670 Contractor Estimating</td>
<td>6</td>
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<tr>
<td>HVAC 2671 System Servicing</td>
<td>6</td>
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</table>

Minimum Hours Required: 42
BUSINESS ADMINISTRATION
(Formerly Administrative Management)

Offered at all seven campuses

(Associate Degree)

Degree Plan Number X43655

The Business Administration associate degree is designed for students seeking a broad program of study in all phases of business practices. This option focuses not only at the core of management (principles of management, organizational behavior, and personnel administration) but also encompasses the critical areas of business operations (principles of marketing, accounting, and business law).

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMESTER I</td>
<td></td>
</tr>
<tr>
<td>MGMT 1370 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1301 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314 College Algebra OR MATH 1324 Mathematics for Business and Economics I OR MATH 1371 Business Mathematics** OR MATH 1342 Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>+ Elective</td>
<td>3</td>
</tr>
<tr>
<td>**</td>
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</table>

| SEMESTER II | |
| MGMT 2374 Human Resources Management | 3 |
| MGMT 2373 Organizational Behavior | 3 |
| ECON 2302 Principles of Economics II | 3 |
| OFCT 2370 Business Communications | 3 |
| + + Elective Humanities/Fine Arts | 3 |
| Elective Any Non-MGMT Course | 3 |
| ** | 18 |

Minimum Hours Required .................. 64

+ Electives—may be selected from the following:

| IBTR 2370 Introduction to International Business and Trade | 3 |
| IBTR 2371 International Marketing Management | 3 |
| IBTR 2377 International Comparative Management | 3 |
| IBTR 2378 International Finance | 3 |
| IBTR 2379 International Business Law | 3 |
| MGMT 1371 Introduction to Total Quality Management | 3 |
| MGMT 1372 Small Business Management | 3 |
| MGMT 1374 Introduction to Supervision | 3 |
| MGMT 2370 Small Business Capitalization, Acquisition, and Finance | 3 |
| MGMT 2371 Small Business Operations | 3 |
| MGMT 2170 Special Problems in Business | 1 |
| MGMT 2372 Special Problems in Management | 3 |
| MGMT 7371 Cooperative Work Experience | 3 |
| MGMT 7372 Cooperative Work Experience | 3 |
| MGMT 8381 Cooperative Work Experience | 3 |
| MKRT 1370 Principles of Retailing | 3 |
| MKRT 2373 Salesmanship | 3 |
| MKRT 2374 Advertising and Sales Promotion | 3 |
| OFCT 1372 Office Calculating Machines | 3 |
| OFCT 1375 Beginning Typing | 3 |
| ++ | 15 |

+ + Elective—must be selected from the following:

| ARTS 1301 Art Appreciation | 3 |
| HUMA 1301 Introduction to the Humanities | 3 |
| ENGL 2322 British Literature | 3 |
| ENGL 2323 British Literature | 3 |
| ENGL 2322 World Literature | 3 |
| ENGL 2333 World Literature | 3 |
| ENGL 2327 American Literature | 3 |
| ENGL 2328 American Literature | 3 |
| MUSI 1306 Music Appreciation | 3 |
| PHIL 1301 Introduction to Philosophy | 3 |
| DRAM 1310 Introduction to the Theatre | 3 |
| Foreign Language or American Sign Language | 4 |

*Students may substitute ACCT 1371 and ACCT 1372 for ACCT 2301. Only three hours may be applied to the required number of hours for granting the degree.

**Students selecting MATH 1371 must also complete a natural science course.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
COMPUTER INFORMATION SYSTEMS – BUSINESS COMPUTER INFORMATION SYSTEMS

Offered at all seven campuses

(Associate Degree)

Degree Plan Number X42275

This option is designed to develop entry-level skills and knowledge in computer information systems. The option includes several business courses found in university degree programs as well as CISC courses which will prepare students for CISC course work at a university. A touch typing speed of 20 words per minute is suggested for most CISC courses with a lab component. Students are advised to develop this proficiency.

CREDIT HOURS

<table>
<thead>
<tr>
<th>SEMESTER I</th>
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<tbody>
<tr>
<td>CISC 1470</td>
<td>Introduction to Computer Concepts and Applications</td>
<td>4</td>
</tr>
<tr>
<td>CISC 1471</td>
<td>Problem Solving with the Computer</td>
<td>4</td>
</tr>
<tr>
<td>BUSI 1301</td>
<td>Introduction to Business OR</td>
<td>3</td>
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<tr>
<td>MGMT 1370</td>
<td>Principles of Management</td>
<td>(3)</td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td></td>
</tr>
<tr>
<td>MATH 1324</td>
<td>Mathematics for Business and Economics I</td>
<td>3</td>
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<tbody>
<tr>
<td>CISC 1372</td>
<td>Data Communications and Operating Systems</td>
<td>3</td>
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<tr>
<td>CISC 1476</td>
<td>COBOL Programming I</td>
<td>4</td>
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<tr>
<td>ACCT 2301</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1325</td>
<td>Mathematics for Business and Economics II</td>
<td>3</td>
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<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech Communication</td>
<td>3</td>
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<tr>
<th>SEMESTER III</th>
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<tbody>
<tr>
<td>CISC 1477</td>
<td>COBOL Programming II OR</td>
<td>4</td>
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<tr>
<td>CISC 1480</td>
<td>UNIX Operating System I</td>
<td>(4)</td>
</tr>
<tr>
<td>ACCT 2302</td>
<td>Principles of Accounting II</td>
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<tr>
<td>ECON 2301</td>
<td>Principles of Economics I</td>
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<tr>
<td>+ Elective</td>
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<tr>
<td>Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>SEMESTER IV</th>
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<tbody>
<tr>
<td>CISC 2473</td>
<td>Assembly Language I OR</td>
<td>4</td>
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<tr>
<td>CISC 2474</td>
<td>C Programming OR</td>
<td>(4)</td>
</tr>
<tr>
<td>CISC 2490</td>
<td>UNIX Operating Systems II</td>
<td>(4)</td>
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<tr>
<td>CISC 7271</td>
<td>Cooperative Work Experience</td>
<td>2</td>
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<tr>
<td>ECON 2302</td>
<td>Principles of Economics II</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Any non-CISC course</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>Social/Behavioral Science</td>
<td>3</td>
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</table>

Minimum Hours Required ........................................... 64

+ Elective—Any CISC including but not limited to CISC 7171, CISC 7271, CISC 7371 or CISC 7471

NOTE: Students may obtain credit toward a degree for only one of each of the pairs of courses listed below:

CISC 1373 or COSC 1310
CISC 2473 or COSC 2325

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
COMPUTER INFORMATION SYSTEMS – BUSINESS SOFTWARE PROGRAMMER/DEVELOPER

Offered at all seven campuses
(Associate Degree)
Degree Plan Number X42665

This option is intended for the preparation of entry-level computer programmers who will work in an applications setting to support the information processing function. It is designed as a two-year career program to prepare students for direct entry into the work environment. It is intended to provide a sufficient foundation so the graduate with experience and continued learning may advance in career paths appropriate to their own particular interests and abilities. Touch typing speed of 20 words per minute is suggested for most CISC courses with a lab component. Students are advised to develop this proficiency.

CREDIT HOURS

SEMESTER I
CISC 1470 Introduction to Computer Concepts and Applications .................... 4
CISC 1471 Problem Solving with the Computer ........................................ 4
BUSI 1301 Introduction to Business OR .................................................. 3
MGMT 1370 Principles of Management .................................................... 3
ENGL 1301 Composition I ................................................................. (3)
MATH 1332 College Mathematics I ......................................................... 3
       17

SEMESTER II
CISC 1372 Data Communications and Operating Systems ............................. 3
CISC 1476 COBOL Programming I ........................................................ 4
CISC 2470 Control Language and Operating Environments OR .................... 4
CISC 2478 PC Operating Systems and Utilities OR ................................... (4)
CISC 1480 UNIX Operating Systems ..................................................... (4)
PSYC 1370 Applied Psychology and Human Relations ................................. 3
SPCH 1311 Introduction to Speech Communication ................................... 3
       17

SEMESTER III
CISC 2481 Database Applications OR ...................................................... 4
CISC 2482 Database Systems ............................................................... (4)
CISC XXXX CISC Programming Course .................................................. 3-4
CISC 2375 User Documentation and Training .......................................... 3
ACCT 2301 Principles of Accounting I .................................................... 3
Elective Humanities/Fine Arts .................................................................... 3
       16-17

SEMESTER IV
CISC 2479 Systems Analysis and Design ................................................. 4
CISC XXXX CISC Programming Course .................................................. 3-4
CISC XXXX Any CISC Programming OR Application Development Course ........ 3-4
Elective Any non-CISC course .................................................................. 3
+ Elective ................................................................................................. 3-4
       16-19

Minimum Hours Required ............................................................................. 66

+ Elective—Any CISC or COSC course including but not limited to CISC 7171, CISC 7271, CISC 7371, CISC 7471

NOTE: Students may obtain credit toward a degree for only one of each of the pairs of courses listed below:

CISC 1373 or COSC 1310
CISC 2473 or COSC 2325

1 MATH 1324 may be substituted for MATH 1332
2 PSYC 2301 may be substituted for PSYC 1370
3 First in a two-course programming language series or CISC 1477 or CISC 2490
4 Second in a two-course programming language series or any CISC programming course if CISC 1477 or CISC 2490 is completed

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
This program will provide training and education for individuals interested in developing their knowledge and skills as a local area network administrator. The program emphasizes practical skills required to perform duties in the work environment under the supervision of an experienced local area network administrator. The objectives of the program are to provide instruction that presents the fundamentals of computer networking, an in-depth look at fundamentals of designing and implementing computer-related local area networks, local area network software, network and hardware supply to local area networks, and instruction that will help the student build his background in the area of operation and management in the local area network environment. Additionally, practical experience and skills will be acquired through the student’s participation in cooperative education work experiences. This course of study will allow the student to get work-related exposure for applying skills as a local area network administrator.

<table>
<thead>
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<tr>
<td>CISC 1470</td>
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<td>ENGL 1301</td>
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<td>MATH 1324</td>
<td>Mathematics for Business and Economics I 3</td>
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<td>PSYC 1370</td>
<td>Applied Psychology and Human Relations OR 3</td>
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<td>PSYC 2301</td>
<td>Introduction to Psychology 3</td>
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SEMESTER I CREDIT HOURS 17-19

SEMESTER II

| CISC 1474  | Text Processing Applications 4 |                  |                  |                  |
| CISC 1372  | Data Communications and Operating Systems 3 |                  |                  |                  |
| MGMT 1370  | Principles of Management 3 |                  |                  |                  |
| SPCH 1311  | Introduction to Speech Communication 3 |                  |                  |                  |
| Elective   | Humanities/Fine Arts 3 |                  |                  |                  |
|            |                  |                  |                  |                  |
|            |                  |                  |                  |                  |

SEMESTER III

| CISC 2370  | Fundamentals of Networking 3 |                  |                  |                  |
| CISC 2471  | Network Software 4 |                  |                  |                  |
| CISC 2478  | PC Operating Systems and Utilities 4 |                  |                  |                  |
| + Electives |                  |                  |                  |                  |
| + + Electives |                  |                  |                  |                  |

SEMESTER IV

| CISC 2480  | PC Hardware 4 |                  |                  |                  |
| CISC 2375  | User Documentation and Training 3 |                  |                  |                  |
| CISC 2488  | Network Hardware 4 |                  |                  |                  |
| CISC 2485  | Network Problems and Applications 4 |                  |                  |                  |
| Elective   | Any non-CISC course 3 |                  |                  |                  |

Minimum Hours Required 68

CREDIT HOURS

Students may obtain credit toward a degree for only one of each pair of courses below:

CISC 1373 or COSC 1310
CISC 2473 or COSC 2325

Students who wish to pursue a particular interest in connection with networking should select their elective courses accordingly. A student who has an interest related to network use of applications should select CISC 2476, CISC 2481, or appropriate work experience. A LAN student interested in programming skills should select CISC 1476, CISC 1479, CISC 1373 or CISC 2374.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
COMPUTER INFORMATION
SYSTEMS – LAN SERVER OPERATOR

Eastfield, North Lake and Richland only

(Certificate)

Degree Plan Number X53335

LAN server operators are prepared to perform the daily and routine tasks associated with maintaining a local area network server. These operators can set up new users on the system, create directories, perform daily backups of the server hard disk, scan for computer virus infections, manipulate printer operations, check for security problems, install applications on the server, and assist users in learning how to log in and out of the network and perform other routine user tasks on the network.

CREDIT
HOURS

SUMMER SEMESTER

CISC 1470 Introduction to Computer Concepts and Applications .......... 4
ENGL 1301 Composition I ............................................ 3

7

FALL SEMESTER

CISC 1471 Problem Solving with the Computer ... 4
CISC 1474 Text Processing Applications .......... 4
CISC 1372 Data Communications and Operating Systems ..................... 3

SPCH 1311 Introduction to Speech Communication ................................ 3

14

SPRING SEMESTER III

CISC 2370 Fundamentals of Networking ........... 3
CISC 2471 Network Software ..................... 4
CISC 2478 PC Operating Systems and Utilities ................. 4

CISC 2375 User Documentation and Training 3

14

Minimum Hours Required ........................................ 35

Students who are not interested in completing the two-year program in Local Area Network Administrator have the option of completing in one year the certificate program for LAN Server Operator. All ten of the courses required for the LAN Server Operator certificate will apply if the student subsequently chooses to continue work on the two-year program in LAN Administrator.
CONSTRUCTION MANAGEMENT AND TECHNOLOGY

North Lake only
(Associate Degree)
Degree Plan Number 740745

Construction Management is a relatively new discipline within the environmental design professions yet, virtually every commercial building project in the United States today—from the smallest retail "strip" center to the tallest skyscraper—requires construction leadership that is knowledgeable of labor; construction materials, installation methods and equipment; contract administration, construction scheduling, cost estimating and much more.

The Construction Management Curriculum at North Lake College prepares the student with the essential tools for a managerial career in construction or related industry endeavors. Such career positions could include project manager, field engineer, scheduler, specifier, sales representative, owner/developer liaison, estimator, purchaser, expediter, and inspector.

This program is fully accredited by the American Council for Construction Education. It is the only two-year accredited construction program in the State of Texas, and only the second to be accredited in the U.S.

Should the student decide to continue formal educational studies, this program articulates with major universities. Contact the CMGT program coordinator for details.

<table>
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<tr>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td><strong>SEMESTER I</strong></td>
</tr>
<tr>
<td>CMGT 1370 Construction Materials, Methods and Equipment I .......................... 3</td>
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<tr>
<td>CMGT 1470 Construction Graphics ................................................. 4</td>
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<tr>
<td>CMGT 1270 Construction Industry ............................................. 2</td>
</tr>
<tr>
<td>CMGT 2372 Building Codes ..................................................... 3</td>
</tr>
<tr>
<td>MATH 1374 Technical Mathematics I* OR</td>
</tr>
<tr>
<td>MATH 1314 College Algebra ...................................................... 3</td>
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<tr>
<td>CMGT 2371 Safety Management .................................................. 3</td>
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</table>

| SEMESTER II |
| CMGT 1371 Construction Materials, Methods and Equipment II .......................... 3 |
| CMGT 1471 Electrical and Mechanical Equipment for Buildings ......................... 4 |
| CISC 1470 Introduction to Computer Concepts and Applications .......................... 4 |
| ENGL 1301 Composition I ..................................................................... 3 |
| MATH 1375 Technical Mathematics II OR |
| MATH 1316 Plane Trigonometry ....................................................... 3 |
| **17** |

| SEMESTER III |
| CMGT 1472 Surveying and Measurements .................................................. 4 |
| CMGT 1473 Construction Management I .................................................... 4 |
| CMGT 2370 Construction Contracts and Specifications .................................. 3 |
| ENGR 2270 Mechanics of Structure ....................................................... 3 |
| SPCH 1311 Introduction to Speech Communication ....................................... 3 |
| **17** |

| SEMESTER IV |
| CMGT 2471 Quality Control and Cost Control ........................................... 4 |
| CMGT 2472 Commercial Estimating ......................................................... 4 |
| CMGT 2475 Soils, Foundations, and Reinforced Concrete ........................................ 4 |
| CMGT 2476 Construction Management II .................................................... 4 |
| + Elective ........................................................................ 3-4 |
| **19-20** |

Minimum Hours Required .................................................. 71

+ Electives—must be selected from the following:

| ANTH 2346 Introduction to Anthropology .................................................. 3 |
| ARTS 1301 Art Appreciation ...................................................................... 3 |
| GOVT 2301 American Government ............................................................. 3 |
| HIST 1301 History of the United States OR |
| HIST 1302 History of the United States ..................................................... 3 |
| HIST 2311 Western Civilization OR |
| HIST 2312 Western Civilization .............................................................. 3 |
| HUMA 1301 Introduction to the Humanities .................................................. 3 |
| PHIL 1301 Introduction to Philosophy ....................................................... 3 |
| SPAN 1411 Beginning Spanish .................................................................... 4 |

*MATH 1374 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
CONSTRUCTION MANAGEMENT & TECHNOLOGY--CONSTRUCTION SPECIFIER

North Lake only
(Associate Degree)

Degree Plan Number 743365

The Construction Specifier option of the Construction and Management Technology Program is an in-depth study of written construction communications. Topics covered include the organization and preparation, development, implementation, modification and administration of contracts and specifications, as well as the ramifications of non-compliance. Emphasis is placed on collecting, organizing, and applying information; researching products and systems; developing rough and final drafts of each type of specification. The latest in computer applications and automated editing procedures are utilized with hands on experience acquired. Advanced computer applications for electronic media, text manipulation, and macro utilization are studied. Administrative skills necessary for a specification writer are studied including managing a technical library, maintaining data bases, performing project cost budgeting, implementing a continuing education/quality assurance program, assisting in the bidding and construction phases, and archiving of documents.

This program option has been developed in conjunction with the Dallas Chapter of the Construction Specification Institute. Upon satisfactory completion of this program and work experience in this field of study, a student will be eligible to take the CSI certification test, Certified Construction Specifier (CCS).

This program is fully accredited by the American Council for Construction Education.

Should the student decide to continue formal educational studies, this program articulates with major universities. Contact the CMGT program coordinator for details.

CREDIT HOURS

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CMGT 1370</td>
<td>Construction Materials, Methods</td>
<td>3</td>
</tr>
<tr>
<td>and Equipment I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMGT 1470</td>
<td>Construction Graphics OR</td>
<td>4</td>
</tr>
<tr>
<td>CADD 1471</td>
<td>Architectural Drafting</td>
<td>4</td>
</tr>
<tr>
<td>CMGT 1270</td>
<td>Construction Industry</td>
<td>2</td>
</tr>
<tr>
<td>CMGT 1473</td>
<td>Construction Management I</td>
<td>4</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1374</td>
<td>Technical Mathematics I* OR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314</td>
<td>College Algebra</td>
<td></td>
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</table>

*MATH 1374 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
CONSTRUCTION TECHNOLOGY

North Lake only

(Associate Degree)

Degree Plan Number 742945

This program is designed to develop the skills and knowledge necessary so that a graduate may advance in career paths appropriate to a person’s own particular interests and abilities, in either the field of residential or commercial building or contracting. In addition to the specific technical skills and knowledge required to build buildings and supervise employees on a construction job, the graduate will have covered skills in other areas such as planning and organization, problem solving and decision making, related communication, and business and human relations.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>CNST 1370</td>
<td>Construction I - Systems and Materials 3</td>
</tr>
<tr>
<td>CNST 1372</td>
<td>Blueprint Reading/Specifications 3</td>
</tr>
<tr>
<td>CNST 1170</td>
<td>Construction Safety 1</td>
</tr>
<tr>
<td>MATH 1374</td>
<td>Technical Mathematics I* OR</td>
</tr>
<tr>
<td>MATH 1371</td>
<td>Business Mathematics 3</td>
</tr>
<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech Communication 3</td>
</tr>
<tr>
<td>+ Electives</td>
<td>3</td>
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<tr>
<td>**</td>
<td>16</td>
</tr>
</tbody>
</table>

SEMESTER II

| CNST 1371   | Construction II - Mechanical, Electrical, and Plumbing Systems 3 |
| COMM 1370   | Communications OR |
| ENGL 1301   | Composition I OR |
| PSYC 1370   | Applied Psychology and Human Relations 3 |
| + Electives | 6 |
| **          | 15 |

SEMESTER III

| CNST 1378   | Engineering Principles and Practices 3 |
| + Electives | 9-10 |
| Elective    | Any Non-CNST Course 3 |
| **          | 15-16 |

SEMESTER IV

| CNST 1374   | Codes/Inspection I 3 |
| + + Electives | Humanities/Fine Arts 3 |
| + Electives  | 9-10 |
| CISC 1470   | Introduction to Computer Concepts & Applications 4 |
| **          | 19-20 |

Minimum Hours Required 65

*Electives must be selected from the following:

Any CNST course (including CNST 7000 level Cooperative Work Experience**)

+ + Electives must be selected from the following:

ARTS 1301 Art Appreciation 3
ARTS 1303 Survey of Art History 3
ARTS 1304 Survey of Art History 3
ARTS 1311 Design I 3
ARTS 1312 Design II 3
HUMA 1301 Introduction to Humanities 3
ENGL 2322 British Literature 3
ENGL 2323 British Literature 3
ENGL 2332 World Literature 3
ENGL 2333 World Literature 3
ENGL 2327 American Literature 3
ENGL 2328 American Literature 3

*MATH 1374 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

**Cooperative Work Experience may only be taken in Semester II, III, or IV.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
CONSTRUCTION TECHNOLOGY

*North Lake only*

(Certificate)

Degree Plan Number 753005

This is a one-year certificate that provides the student with the technical knowledge and hands-on skills required to work in one of two areas: residential or commercial carpentry. In addition, the student will cover job planning and materials estimating, human-relation skills and the economics of the construction industry. After completion of the program, students will be qualified to enter the construction field as a carpenter.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
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<tbody>
<tr>
<td><strong>CNST 1370</strong></td>
</tr>
<tr>
<td><strong>CNST 1372</strong></td>
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<tr>
<td><strong>CNST 1170</strong></td>
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<td><strong>CNST 1375</strong></td>
</tr>
<tr>
<td><strong>MATH 1373</strong></td>
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<td><strong>PSYC 1370</strong></td>
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CREDIT HOURS

16

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<tbody>
<tr>
<td><strong>CNST 1371</strong></td>
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<tr>
<td><strong>CNST 2370</strong></td>
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<tr>
<td><strong>CNST 2375</strong></td>
</tr>
<tr>
<td><strong>CNST 1376</strong></td>
</tr>
<tr>
<td>+Electives</td>
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</table>

Minimum Hours Required 31

+Electives must be selected from the following:

Any CNST course (including CNST 7000 level Cooperative Work Experience*).

*Cooperative Work Experience may only be taken in Semester II, III, or IV.
The Electrical Technology program prepares the student for career opportunities by developing technical knowledge and practical skills necessary to enter or advance in the electrical technology field.

Students wishing to earn an Associate in Applied Sciences Degree with a major in Electrical Technology must complete all of the courses listed below.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ELEC 1470  Fundamentals of Electricity</td>
<td>4</td>
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<tr>
<td>ELEC 1471  Electrical Transformers</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 1271  General Electrical Codes</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1374  Technical Mathematics I*</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1311  Introduction to Speech Communication</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>SEMESTER II</th>
<th>CREDIT HOURS</th>
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</thead>
<tbody>
<tr>
<td>ELEC 1370  Low Voltage Circuits</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 1371  General Electrical Wiring</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 1472  General Electrical Planning</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 1272  Commercial Codes</td>
<td>2</td>
</tr>
<tr>
<td>COMM 1370  Applied Communications</td>
<td>3</td>
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<td></td>
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<table>
<thead>
<tr>
<th>SEMESTER III</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ELEC 2370  Commercial Wiring</td>
<td>3</td>
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<tr>
<td>ELEC 2470  Commercial Planning</td>
<td>4</td>
</tr>
<tr>
<td>ELEC 2270  Industrial Planning</td>
<td>2</td>
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<tr>
<td>ELEC 2271  Industrial Codes</td>
<td>2</td>
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<tr>
<td>ELEC 7371  Cooperative Work Experience OR</td>
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<tr>
<td>ELEC 7471  Cooperative Work Experience (4)</td>
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<tr>
<td>HUMA 1301  Introduction to Humanities</td>
<td>3</td>
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<tr>
<td></td>
<td>17-18</td>
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</table>

<table>
<thead>
<tr>
<th>SEMESTER IV</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ELEC 2272  Electrical Motor Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>ELEC 2371  Solid State Controls</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 2374  Motor Controls</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 2375  Electrical Design</td>
<td>3</td>
</tr>
<tr>
<td>ELEC 7372  Cooperative Work Experience OR (3)</td>
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</tr>
<tr>
<td>ELEC 7472  Cooperative Work Experience</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 1370  Applied Psychology and Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>Elective Any Non-ELEC Course</td>
<td>3</td>
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</table>

Minimum Hours Required: 68

*MATH 1374 may be taken only when a science course is taken as well. Select natural science course from: Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
**ELECTRONICS TECHNOLOGY**

*Mountain View and North Lake only*

(Associate Degree, Tech-Prep Advanced Skills Certificate)

Degree Plan Number X40305

This program prepares students for work as electronics technicians by familiarizing them with most electronic testing equipment, training them in technical communications and providing them with electronic theory and skills.

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
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</thead>
</table>

**SEMESTER I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ELET 1470</td>
<td>DC Circuits and Electrical Measurements OR</td>
<td>4</td>
</tr>
<tr>
<td>ELET 1670</td>
<td>DC-AC Theory and Circuit Analysis</td>
<td>6</td>
</tr>
<tr>
<td>COMM 1370</td>
<td>Applied Communications OR</td>
<td></td>
</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1374</td>
<td>Technical Mathematics I* OR</td>
<td></td>
</tr>
<tr>
<td>MATH 1314</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>+ Elective</td>
<td>Humanities/Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>+ + Elective</td>
<td>Social/Behavioral Science</td>
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16-18

**SEMESTER II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ELET 1471</td>
<td>AC Circuits</td>
<td>(Unless ELET 1670 Completed)</td>
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<tr>
<td>ELET 1472</td>
<td>Active Devices</td>
<td>4</td>
</tr>
<tr>
<td>ELET 1370</td>
<td>Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1405</td>
<td>Concepts in Physics or</td>
<td></td>
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<tr>
<td>PHYS 1407</td>
<td>Concepts in Physics</td>
<td>4</td>
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14-18

**SEMESTER III**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ELET 2476</td>
<td>Special Circuits with Communications Applications</td>
<td>4</td>
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<tr>
<td>ELET 2477</td>
<td>Analysis of Electronic Logic and Switching Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELET 2480</td>
<td>Linear Integrated Circuits</td>
<td>4</td>
</tr>
<tr>
<td>ELET 2481</td>
<td>Electronic Theory and Application of Digital Computers</td>
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<tr>
<td>Elective</td>
<td>Any Non-ELET Course</td>
<td>3</td>
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**SEMESTER IV**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>ELET 2370</td>
<td>Electronic Circuits &amp; Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELET 2479</td>
<td>Modular Memories &amp; Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELET 2371</td>
<td>Microwave Theory</td>
<td>3</td>
</tr>
<tr>
<td>+ + Elective</td>
<td>Technical</td>
<td>7-8</td>
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</tbody>
</table>

17-18

Minimum Hours Required: 68

+ Electives—must be selected from:

Any ARTS, HUMA, MUSI or PHIL course

+ + Electives—must be selected from:

Any GOVT, HDEV, HIST or PSYC course

+++ Electives—technical elective must be selected from the following:

CISC 1370 Data Entry Applications & Concepts
ELET 1170 Printed Circuit Board Manufacturing
ELET 1171 Soldering
ELET 1172 Oscilloscope Utilization
ELET 2470 Special Applications of Electronics
ELET 2471 Automated Manufacturing
ELET 2475 Basic CRT Display
ELET 2493 Microprocessor Troubleshooting and Interface

This is a Tech-Prep program. Students interested in pursuing the Tech-Prep advanced skills certificate should need to consult with their advisor.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
The Management Program provides an opportunity for students to acquire knowledge in the management field and at the same time update and sharpen personal management skills. In addition to learning about supervision, personnel management, human relations psychology, problem-solving, decision-making, and other related business topics, students also participate in an on-the-job management training course with their present employers. These management training courses at work allow students to apply what is learned in the classroom environment and obtain the valuable practical experience necessary to become competent business managers. The Management Program allows students the opportunity to bridge the gap between theory and practice as professional managers.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>MGMT 1370 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 1374 Introduction to Supervision</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 7371 Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1301 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1311 Introduction to Speech Communication</td>
<td>3</td>
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<td>SEMESTER II</td>
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<tr>
<td>MGMT 2374 Human Resources Management</td>
<td>3</td>
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<tr>
<td>MGMT 7372 Cooperative Work Experience</td>
<td>3</td>
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<tr>
<td>CISC 1470 Introduction to Computer Concepts and Applications</td>
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<tr>
<td>MATH 1314 College Algebra OR</td>
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<tr>
<td>MATH 1324 Mathematics for Business and Economics I OR</td>
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</tr>
<tr>
<td>MATH 1371 Business Mathematics** OR</td>
<td></td>
</tr>
<tr>
<td>MATH 1342 Introductory Statistics</td>
<td>3</td>
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<tr>
<td>ENGL 1302 Composition II</td>
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<table>
<thead>
<tr>
<th>SEMESTER III</th>
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</thead>
<tbody>
<tr>
<td>MGMT 2373 Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 8381 Cooperative Work Experience</td>
<td>3</td>
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<tr>
<td>ACCT 2301 Principles of Accounting I*</td>
<td>3</td>
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<tr>
<td>ECON 2301 Principles of Economics I OR</td>
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<tr>
<td>ECON 1303 Economics of Contemporary Social Issues</td>
<td>3</td>
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</tbody>
</table>

**Students selecting MATH 1371 must also complete a natural science course.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
MANAGEMENT
(Formerly Mid-Management)

Offered at all seven colleges

(Certificate)

Degree Plan Number X53465

The Management program is designed to develop the fundamental skills, knowledge, attitudes and experiences which enable men and women to function in leadership and decision-making positions as managers. Students combine management classes and on-the-job management training with their present employers. All of the courses for this certificate are applicable to the Management associate degree option.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition I 3</td>
</tr>
<tr>
<td>MGMT 1374</td>
<td>Introduction to Supervision 3</td>
</tr>
<tr>
<td>MGMT 7371</td>
<td>Cooperative Work Experience 3</td>
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<th>SEMESTER II</th>
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<tbody>
<tr>
<td>MGMT 2374</td>
<td>Human Resources Management 3</td>
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<tr>
<td>MGMT 7372</td>
<td>Cooperative Work Experience 3</td>
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<td>SPCH 1311</td>
<td>Introduction to Speech Communication 3</td>
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<tbody>
<tr>
<td>MGMT 2373</td>
<td>Organizational Behavior 3</td>
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<td>MGMT 8381</td>
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<th>SEMESTER IV</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>MGMT 2375</td>
<td>Problem Solving and Decision Making 3</td>
</tr>
<tr>
<td>MGMT 8382</td>
<td>Cooperative Work Experience 3</td>
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</tbody>
</table>

Minimum Hours Required 30
MORTGAGE BANKING

North Lake College Only

(Associate Degree)

Degree Plan Number 743205

This program is designed to develop the skills and knowledge necessary so that a graduate may advance in career paths appropriate to that person's own particular interests and abilities in the field of mortgage banking. In addition to the specific technical skills and knowledge required to originate, process and manage mortgage loans, the graduate will have covered skills in other areas such as real estate, planning and organization, problem solving and decision making, communication, accounting and business.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>REAL 1370 Real Estate Principles</td>
<td>3</td>
</tr>
<tr>
<td>REAL 1371 Real Estate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUSI 1301 Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1301 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1373 Applied Mathematics* OR</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1324 Mathematics for Business and Economics</td>
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<td>+ Elective</td>
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<tr>
<th>SEMESTER II</th>
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<tr>
<td>CISC 1470 Introduction to Computer Concepts and Applications</td>
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<td>MOBA 1370 Loan Origination</td>
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<td>SPCH 1311 Introduction to Speech Communication</td>
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<tr>
<td>ACCT 2301 Principles of Accounting I</td>
<td>3</td>
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<tr>
<td>+ Elective Humanities/Fine Arts</td>
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<tr>
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<td>MOBA 1372 Loan Underwriting</td>
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<td>MOBA 1373 Loan Closing</td>
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<tr>
<td>ECON 2301 Principles of Economics I</td>
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<tr>
<td>MOBA 704 Cooperative Work Experience</td>
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<td>+ + Elective</td>
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<th>SEMESTER IV</th>
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<tr>
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<td>MOBA 2370 Loan Servicing</td>
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<td>MOBA 2372 Secondary Market</td>
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<td>MOBA 2373 Investor Accounting</td>
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<tr>
<td>GOVT 2301 American Government</td>
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<td>Elective Any Non-MOBA course</td>
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Minimum Hours Required ................. 63

+ Elective – must be selected from the following:

| ARTS 1301 Art Appreciation          | 3            |
| ENGL 2322 British Literature        | 3            |
| ENGL 2323 British Literature        | 3            |
| ENGL 2332 World Literature          | 3            |
| ENGL 2333 World Literature          | 3            |
| ENGL 2327 American Literature       | 3            |
| ENGL 2328 American Literature       | 3            |
| ENGL 2311 Technical Writing         | 3            |
| HIST 1301 History of the United States | 3        |
| HIST 1302 History of the United States | 3       |
| HUMA 1301 Introduction to the Humanities | 3     |
| MUSI 1306 Music Appreciation        | 3            |
| PHIL 1301 Introduction to Philosophy | 3            |
| DRAM 1310 Introduction to the Theatre | 3         |

+ + Electives – must be selected from the following:

| ACCT 2302 Principles of Accounting II | 3 |
| ECON 2302 Principles of Economics II  | 3 |
| MOBA 7472 Cooperative Work Experience | 4 |
| SPCH 1315 Fundamentals of Public Speaking | 3 |

*MATH 1373 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
### MORTGAGE BANKING -- DESIGNATE

**North Lake Only**  
(Certificate)  
Degree Plan Number 753395

<table>
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<th>SEMESTER I</th>
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<tr>
<td>ENGL 1301</td>
<td>Composition I ............... 3</td>
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<tr>
<td>MATH 1373</td>
<td>Applied Mathematics OR</td>
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<td>MATH 1324</td>
<td>Mathematics for Business and Economics I ............... 3</td>
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<td>MOBA 1370</td>
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<td>Loan Underwriting ............... 3</td>
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<tr>
<td>MOBA 1373</td>
<td>Loan Closing ............... 3</td>
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<td>Loan Quality Control ............... 1</td>
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<td>MOBA 2370</td>
<td>Loan Servicing ............... 3</td>
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<tr>
<td>REAL 1370</td>
<td>Real Estate Principles ............... 3</td>
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<th>SEMESTER III</th>
<th>CREDIT HOURS</th>
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<tr>
<td>MOBA 2372</td>
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<td>MOBA 7471</td>
<td>Cooperative Work Experience ............... 4</td>
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<td>REAL 1371</td>
<td>Real Estate Finance ............... 3</td>
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Minimum Hours Required ............... 35

### MORTGAGE BANKING -- INTERN

**North Lake Only**  
(Skills Achievement Award)  
Degree Plan Number 737165

<table>
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<th>SEMESTER I</th>
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<td>Loan Underwriting ............... 3</td>
</tr>
<tr>
<td>MOBA 1373</td>
<td>Loan Closing ............... 3</td>
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<tr>
<td>MOBA 1170</td>
<td>Loan Quality Control ............... 1</td>
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<tr>
<td>MOBA 2370</td>
<td>Loan Servicing ............... 3</td>
</tr>
<tr>
<td>REAL 1370</td>
<td>Real Estate Finance ............... 3</td>
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<tr>
<td></td>
<td>16</td>
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</table>

Minimum Hours Required ............... 16
OFFICE TECHNOLOGY — ADMINISTRATIVE ASSISTANT

Offered at all seven campuses

(Associate Degree, Tech-Prep Advanced Skills Certificate)

Degree Plan Number X42075

The primary objective of the Administrative Assistant program is to prepare students for positions as assistants to administrators within public or private firms and agencies. Emphasis in this program is on the development of organizational and decision-making skills in addition to basic office skills.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
</tr>
<tr>
<td>OFCT 1377</td>
<td>Office Systems and Applications</td>
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<tr>
<td>OFCT 1372</td>
<td>Office Calculating Machines</td>
</tr>
<tr>
<td>OFCT 1378</td>
<td>Beginning Typing</td>
</tr>
<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech Communication</td>
</tr>
<tr>
<td></td>
<td></td>
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</table>

SEMESTER II

| ENGL 1302 | Composition II | .3 |
| Elective  | Natural Science | .3 |
| MATH 1371 | Business Math | .3 |
| OFCT 1379 | Word Processing I | .3 |
| OFCT 1373 | Office Procedures | .3 |
| OFCT 1376 | Intermediate Typing | .3 |
|            |              | 18 |

SEMESTER III

| OFCT 1378 | Text Processing Transcription | .3 |
| OFCT 1371 | Automated Filing | .3 |
| OFCT 2372 | Word Processing II | .3 |
| OFCT 2370 | Business Communications | .3 |
| + + Elective | Social/Behavioral Science | .3 |
| Elective  | Any Non-OFTC Course | .3 |
|            |              | 18 |

SEMESTER IV

| + + + Elective | Humanities/Fine Arts | .3 |
| OFCT 1380 | Business Software Applications I | .3 |
| ACCT 1371 | Bookkeeping I or ACCT 2301 Principles of Accounting | .3 |
| + Elective(s) |                      | 3-4 |
| OFCT 7371 | Cooperative Work Experience or | .3 |
| OFCT 7471 | Cooperative Work Experience | .4 |
|            |              | 15-17 |

Minimum Hours Required ............... 66

1 Students may be placed in typing courses based on proficiency level determined by previous training, experience and/or placement tests. If a student places out, any OFCT course may be taken to supplement the minimum hours required.

2 For legal emphasis, OFCT 2371 (Legal Secretarial Procedures) may be substituted.

3 One of the following Natural Science courses may be taken:
   - PHYS 1311 Descriptive Astronomy | .3
   - BIOL 1406 General Biology | .4
   - ECOL 1305 People and Their Environment | .3
   - GEOL 1403 Physical Geology | .4
   - PHYS 1401 Introductory General Physics | .4
   - PHYS 1415 Concepts in Physics | .4

4 For legal emphasis, OFCT 1374 (Legal Terminology and Transcription) may be substituted.

5 Electives—must be taken from the following:
   - OFCT 1170 Contemporary Topics in Office Technology | .1
   - OFCT 1270 Contemporary Topics in Office Technology | .2
   - OFCT 1370 Contemporary Topics in Office Technology | .3
   - OFCT 1172 Introduction to Word Processing | .1
   - OFCT 1173 Keyboarding and Speed for Accuracy | .1
   - OFCT 2373 Business Software Applications | .3
   - OFCT 2374 Business Software Applications III | .3
   - OFCT 2270 Advanced Typing Applications | .2
   - OFCT 2170 Word Processing Applications | .1
   - OFCT 2171 Specialized Software I | .1
   - OFCT 2172 Specialized Software | .1
   - OFCT 7372 Cooperative Work Experience | .3
   - OFCT 7472 Cooperative Work Experience | .4
   - OFCT 8381 Cooperative Work Experience | .3
   - OFCT 8482 Cooperative Work Experience | .4

6 + + Elective — may be taken from any Government, Human Development, History or Psychology course.

7 + + + Elective — may be taken from any Art, Humanities, Music or Philosophy course.

This is a Tech-Prep program. Students interested in pursuing the Tech-Prep advanced skills certificate need to consult with their advisor.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
OFFICE TECHNOLOGY -- CERTIFIED PROFESSIONAL SECRETARY

ARTICULATION

Offered at all seven campuses

Credit toward an associate degree in Office Technology will be granted upon successful completion of all parts of the Certified Professional Secretary (CPS) Exam. In order to receive credit, the registrar at the college must receive notification from the Institute for Certifying Secretaries that the applicant has passed all sections of the exam. The student must complete 12 credit hours (excluding developmental courses) within the District of which at least two courses must be completed in the area of Office Technology. The student must complete the courses with a grade of "C" or higher.

Select five of the following courses for which credit may be granted:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>OFCT 1377</td>
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<tr>
<td>OFCT 1378</td>
<td>Text Processing Transcription</td>
<td>3</td>
</tr>
<tr>
<td>OFCT 1379</td>
<td>Word Processing I</td>
<td>3</td>
</tr>
<tr>
<td>OFCT 1380</td>
<td>Business Software Applications I</td>
<td>3</td>
</tr>
<tr>
<td>OFCT 1373</td>
<td>Office Procedures</td>
<td>3</td>
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<tr>
<td>OFCT 1376</td>
<td>Intermediate Typing</td>
<td>3</td>
</tr>
<tr>
<td>OFCT 2370</td>
<td>Business Communications</td>
<td>3</td>
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</tbody>
</table>

OFFICE TECHNOLOGY -- GENERAL OFFICE CLERK

Offered at all seven campuses

(Certificate)

Degree Plan Number X52095

This certificate with a clerical emphasis is designed to provide the student with a basic working knowledge of office procedures.

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Credit Hours</th>
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<td>ENGL 1301</td>
<td>Composition I</td>
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<tr>
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<td>MATH 1371</td>
<td>Business Mathematics</td>
<td>3</td>
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<td></td>
<td>OFCT 1372</td>
<td>Office Calculating Machines</td>
<td>3</td>
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<td></td>
<td>OFCT 1378</td>
<td>Beginning Typing 1</td>
<td>3</td>
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<td></td>
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<td>II</td>
<td>OFCT 1378</td>
<td>Text Processing Transcription</td>
<td>3</td>
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<tr>
<td></td>
<td>OFCT 1379</td>
<td>Word Processing I</td>
<td>3</td>
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<td></td>
<td>OFCT 1373</td>
<td>Office Procedures</td>
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<td>3</td>
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<td>Bookkeeping I or</td>
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<td>ACCT 2301</td>
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<td>3</td>
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<td>OFCT 1380</td>
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<td>OFCT 1371</td>
<td>Automated Filing Procedures</td>
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1 Students may be placed in typing courses based on proficiency level determined by previous training, experience and/or placement tests. If students place out, any OFCT course may be taken to supplement the minimum hours required.

2 One Natural Science course may be selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>PHYS 1311</td>
<td>Descriptive Astronomy</td>
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<td>BIOL 1406</td>
<td>General Biology</td>
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<td>ECOL 1305</td>
<td>People and Their Environment</td>
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</tr>
<tr>
<td>GEOL 1403</td>
<td>Physical Geology</td>
<td>4</td>
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<tr>
<td>PHYS 1401</td>
<td>Introductory General Physics</td>
<td>4</td>
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<tr>
<td>PHYS 1415</td>
<td>Concepts in Physics</td>
<td>4</td>
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</table>
OFFICE TECHNOLOGY -- RECEPTIONIST

*All seven colleges*

(Certificate)

Degree Plan Number X53545

This program provides skills necessary to meet the public, make appointments, handle the telephone, keyboard documents, and perform data entry functions.

<table>
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<th>CREDIT HOURS</th>
<th>SEMESTER I</th>
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<th>SEMESTER II</th>
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<td>ENGL 1301  Composition I</td>
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<td>OFCT 1380  Business Software Applications I</td>
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<td>OFCT 1379  Word Processing I</td>
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<td>OFCT 1373  Office Procedures</td>
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<td></td>
<td>OFCT 1372  Office Calculating Machines</td>
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<td>SPCH 1311  Introduction to Speech</td>
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<td>OFCT 1376  Intermediate Typing</td>
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</table>

Minimum Hours Required 21

Prerequisite: OFCT 1378 or demonstrated competency.

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OFFICE TECHNOLOGY -- WORD PROCESSING TYPIST

*All seven colleges*

(Certificate)

Degree Plan Number X53555

This certificate provides word processing skills necessary to produce documents from rough draft copy and voice recordings.

<table>
<thead>
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<th>SEMESTER I</th>
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<th>SEMESTER II</th>
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<td>OFCT 1378  Text Processing Transcription</td>
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<tr>
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<td>OFCT 1377  Office Systems and Applications</td>
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<td>OFCT 1380  Business Software Applications I</td>
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<td></td>
<td>OFCT 1379  Word Processing I</td>
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<td>OFCT 2370  Business Communications</td>
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<td>OFCT 1376  Intermediate Typing</td>
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<td>SPCH 1311  Introduction to Speech</td>
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<td>Communication</td>
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<td>12</td>
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Minimum Hours Required 24

Prerequisite: OFCT 1378 or demonstrated competency.
PHYSICAL FITNESS TECHNOLOGY

North Lake only

(Associate)

Degree Plan Number 742785

This program prepares students for employment in the physical fitness industry. Students in this program acquire skills in conducting physical fitness and health risk assessments, prescribing exercise and lifestyle change programs, and instructing individuals and groups in physical fitness and health promotion activities. Areas studied include health risk appraisal, nutrition and weight control, smoking cessation, stress management, body composition analysis, and the development of joint flexibility, muscular strength and endurance, and aerobic capacity. The students acquire the knowledge and skills to supervise the use of physical fitness facilities and to provide exercise leadership and programming.

Upon successful completion of the program, the student will receive an Associate in Applied Sciences Degree and will be prepared to sit for national certification examinations.

CREDIT HOURS

SEMESTER I
ENGL 1301 Composition I 3
BIOL 1470 Introduction to Human Anatomy and Physiology 4
PHED 1164 Physical Fitness 1
PFIT 1370 Exercise Science 3
PFIT 1470 Fitness and Exercise Testing I 4

SEMESTER II
BIOL 1472 Introduction to Human Anatomy and Physiology 4
Mathematics Requirement** 3
SPCH 1311 Introduction to Speech Communication 3
PFIT 1471 Physical Fitness Theory and Instruction 4
PHED Activity* 1

SEMESTER III
NUTR 1322 Principles of Nutrition 3
PFIT 2370 Instruction in Lifestyle Change 3
PFIT 2372 Prevention and Care of Exercise Injury 3
PFIT 2171 Practical Application in Physical Fitness Technology I 1
+ Elective 3-4
+ + Elective Humanities/Fine Arts 3

SEMESTER IV
PSYC 1370 Applied Psychology and Human Relations 3
PFIT 2371 Exercise Programming 3
PFIT 2373 Practical Aspects of the Fitness Industry 3
PFIT 2172 Practical Application in Physical Fitness Technology II 1
PFIT 7371 Cooperative Work Experience OR
PFIT 7471 Cooperative Work Experience 3-4
Elective Any Non-PFIT Course 3

16-17

Minimum Hours Required 62

+ Elective—must be selected from the following:

PHED 2155 Advanced Life Saving 1
PHED 1306 Advanced First Aid and Emergency Care 3
PFIT 1181 Group Exercise Instruction 1
PFIT 1191 Personal Training 1
PFIT 2470 Fitness and Exercise Testing II 4
PFIT 2374 Psychosocial Aspects of Sport and Exercise 3
PFIT 2170 Selected Topics in Physical Fitness Technology 1
PFIT 2375 Selected Topics in Physical Fitness Technology 3

+ + Elective—must be selected from the following:

ARTS 1311 Design I 3
DANC 1245 Beginning Contemporary Dance 2
DANC 1101 Introduction to Composition I 1
MUSI 1300 Foundations of Music 3
PHIL 1370 Critical Thinking 3
PHIL 2306 Ethics 3
DRAM 1351 Acting I 3
DRAM 2375 Broadcast Communications 3

*PHED Activity - Any Physical Education activity course.

**Mathematics Requirement - Any 1000 level Mathematics course.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
PHYSICAL FITNESS TECHNOLOGY

North Lake only

(Certificate)

Degree Plan Number 752985

This certificate program in physical fitness technology prepares students to make physical fitness assessments, prescribe exercise programs, and instruct individuals and groups in physical fitness activities. This one-year program is particularly appropriate for those who want to expand or upgrade their skills, e.g. those who already have a degree and/or are employed in a physical fitness or related field. Students completing the certificate program have the option to continue their study toward the completion of the Associate Degree.

<table>
<thead>
<tr>
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**SEMESTER I**

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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</tr>
<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>PFIT 1370</td>
<td>Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>PFIT 1470</td>
<td>Fitness and Exercise Testing I</td>
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</tr>
<tr>
<td>NUTR 1322</td>
<td>Principles of Nutrition</td>
<td>3</td>
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**SEMESTER II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1472</td>
<td>Introduction to Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>PFIT 1471</td>
<td>Physical Fitness Theory and Instruction</td>
<td>4</td>
</tr>
<tr>
<td>PFIT 2370</td>
<td>Instruction in Lifestyle Change</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1311</td>
<td>Introduction to Speech Communication</td>
<td>3</td>
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</tbody>
</table>

Minimum Hours Required ................. 31*

*Student must have proof of current certification in First Aid and Cardiopulmonary Resuscitation (CPR) at the time the certificate is awarded.
REAL ESTATE

Cedar Valley, North Lake and Richland only

(Associate Degree)

Degree Plan Number X40885

The program in real estate is designed to develop the fundamental skills, attitudes and experiences which enable the student to function in decision-making positions in the real estate profession. Successful completion of the program leads to the Associate in Applied Sciences Degree and may be applied toward licensing requirements as determined by the Texas Real Estate Commission.

<table>
<thead>
<tr>
<th>CREDIT</th>
<th>HOURS</th>
</tr>
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</table>
| SEMESTER I
BUSI 1301 Introduction to Business .......... 3 |
ENGL 1301 Composition I ...................... 3 |
REAL 1379 Law of Agency ....................... 3 |
REAL 1370 Real Estate Principles ............... 3 |
REAL 1371 Real Estate Finance .................. 3 |
| 15 |
| SEMESTER II
REAL 1372 Real Estate Marketing ............... 3 |
REAL 1374 Real Estate Appraisal-Residential OR |
REAL 1373 Real Estate Appraisal-Commercial .... 3 |
REAL 1375 Real Estate Law ...................... 3 |
SPCH 1311 Introduction to Speech Communication .... 3 |
ACCT 2301 Principles of Accounting I ........... 3 |
| 15 |
| SEMESTER III
REAL 1376 Promulgated Contract Forms ........... 3 |
ECON 2301 Principles of Economics I OR |
ECON 1303 Economics of Contemporary Social Issues .......... 3 |
REAL 7471 Cooperative Work Experience I .......... 4 |
CISC 1470 Introduction to Computer Concepts and Applications .......... 4 |
+ Elective Humanities/Fine Arts .................. 3 |
| 17 |
| SEMESTER IV
 Elective Any Non-REAL Course ................. 3 |
+ + Elective Social/Behavioral Science .......... 3 |
+ + + Elective .................................. 9 |
MATH 1324 Mathematics for Business and Economics .......... 3 |
| 15 |

Minimum Hours Required ......................... 62

+ Elective—must be selected from the following:
ARTS 1301 Art Appreciation ...................... 3
ENGL 2322 British Literature .................... 3
ENGL 2323 British Literature .................... 3
ENGL 2322 World Literature ..................... 3
ENGL 2323 World Literature ..................... 3
ENGL 2327 American Literature .................. 3
ENGL 2328 American Literature .................. 3
ENGL 2370 Studies in Literature ................. 3
ENGL 2371 Studies in Literature ................. 3
HUMA 1301 Introduction to Humanities .......... 3
MUSI 1306 Music Appreciation .................. 3
PHIL 1301 Introduction to Philosophy .......... 3
DRAM 1310 Introduction to Theater .............. 3
Foreign Language or American Sign Language .... 4

+ + Elective—must be selected from the following:
ANTH 2351 Introduction to Anthropology ........ 3
GOVT 2301 American Government ................ 3
GOVT 2302 American Government ................ 3
HDEV 1370 Educational and Career Planning .... 3
PSYC 2301 Introduction to Psychology .......... 3
PSYC 2314 Developmental Psychology .......... 3
PSYC 2316 Psychology of Personality .......... 3
PSYC 1370 Applied Psychology and Human Relations .......... 3
SOCI 1301 Introduction to Sociology .......... 3

++ + Recommended Electives:
MRKT 2373 Salesmanship ......................... 3
REAL 2370 Real Estate Office Management Brokerage .......... 3
REAL 2371 Commercial and Investment Real Estate .......... 3
REAL 2372 Property Management ................ 3
REAL 2373 Residential Inspection for Real Estate Agents .... 3
REAL 2170 Special Problems in Real Estate .......... 1
REAL 2374 Special Problems in Real Estate .......... 3
REAL 7472 Cooperative Work Experience II .......... 4

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
REAL ESTATE – BUILDING PROPERTY MANAGEMENT

North Lake Only
(Associate)

Degree Plan Number 743565

This program is designed to provide the student with the skills and knowledge required to perform the duties of a commercial building manager. These duties include financial forecasting and budgeting, marketing, contract negotiation, tenant retention, public relations, personnel administration, risk management, provision of building services and maintenance of the property.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>BPMT 1370 Design, Operation &amp; Maintenance of Building Systems I          3</td>
<td></td>
</tr>
<tr>
<td>+ Elective Humanities/Fine Arts                     3</td>
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</tr>
<tr>
<td>ENGL 1301 Composition I                              3</td>
<td></td>
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<tr>
<td>MATH 1373 Applied Mathematics OR Mathematics for Business &amp; Economics I 3</td>
<td></td>
</tr>
<tr>
<td>REAL 1370 Real Estate Principles                      3</td>
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<td><strong>Total</strong>                                             <strong>15</strong></td>
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<tr>
<th>SEMESTER II</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>BPMT 2370 Design, Operation &amp; Maintenance of Building Systems II         3</td>
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<tr>
<td>BPMT 2371 Law for Property Managers                                  3</td>
<td></td>
</tr>
<tr>
<td>+ + Elective Social/Behavioral Science                               3</td>
<td></td>
</tr>
<tr>
<td>REAL 2371 Commercial &amp; Investment Real Estate                       3</td>
<td></td>
</tr>
<tr>
<td>SPCH 1311 Introduction to Speech Communication                        3</td>
<td></td>
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<tr>
<td><strong>Total</strong>                                             <strong>15</strong></td>
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<th>SEMESTER III</th>
<th>CREDIT HOURS</th>
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<tr>
<td>CISC 1470 Introduction to Computer Concepts and Applications            4</td>
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<tr>
<td>#Elective Building Property Management Elective                           3</td>
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<tr>
<td>*Electives Business                                                     6</td>
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<tr>
<td>REAL 2372 Property Management                                            3</td>
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<td><strong>Total</strong>                                             <strong>16</strong></td>
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<table>
<thead>
<tr>
<th>SEMESTER IV</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>#Elective Building Property Management Elective                           3</td>
<td></td>
</tr>
<tr>
<td>*Electives Business                                                    6</td>
<td></td>
</tr>
<tr>
<td>Elective Any non-BPMT or non-REAL course                                3</td>
<td></td>
</tr>
<tr>
<td>REAL 7471 Cooperative Work Experience                                   4</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong>                                             <strong>16</strong></td>
<td></td>
</tr>
</tbody>
</table>

Minimum Hours Required                                             62

+ Elective must be selected from Humanities/Fine Arts.

+ + Elective must be selected from Social/Behavioral Sciences.

#Electives must be selected from the following Building Property Management Courses:

- BPMT 2372 Real Property Accounting                                  3
- BPMT 2373 Risk Management                                           3
- BPMT 2374 Leasing & Marketing for Property Managers                3

*Electives must be selected from the following business courses:

- Any Real Estate course (see catalog)
- *Students planning to take the Texas Real Estate License Examination need to select REAL 1379 (Law of Agency)

- ACCT 2301 Principles of Accounting I                                  3
- BUSI 1301 Introduction to Business                                     3
- ECON 2301 Principles of Economics I                                    3
- ECON 2302 Principles of Economics II                                  3
- MGMT 1370 Principles of Management                                    3
- MGMT 1374 Introduction to Supervision                                  3
- MGMT 2373 Organizational Behavior                                     3

Any Office Technology information/word processing applications course (OFCT 1271, OFCT 1172, OFC 2170, OFCT 2171, OFC 2172)

*MATH 1373 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
REAL ESTATE – BUILDING PROPERTY MANAGEMENT

North Lake Only

(Certificate)

Degree Plan Number 753575

The certificate in Building Property Management (BPMT) is designed to provide the student with the basic technical skills and knowledge required for entry into the building property management career field. Upon completion of this certificate program, the student will be able to participate in the day to day problem solving and decision making processes performed by a property manager under the supervision of an experienced professional.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>BPMT 1370</td>
<td>Design, Operation &amp; Maintenance of Building Systems I 3</td>
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<td>ENGL 1301</td>
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<tr>
<td>MATH 1373</td>
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<tr>
<td>MATH 1324</td>
<td>Mathematics for Business &amp; Economics I 3</td>
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<td>Real Estate Principles 3</td>
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<td>BPMT 2370</td>
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<tr>
<td>BPMT 2371</td>
<td>Law for Property Managers 3</td>
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<td>SPCH 1311</td>
<td>Introduction to Speech Communication 3</td>
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<table>
<thead>
<tr>
<th>SEMESTER III</th>
<th>CREDIT HOURS</th>
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</thead>
<tbody>
<tr>
<td>CISC 1470</td>
<td>Introduction to Computer Concepts and Applications 4</td>
</tr>
<tr>
<td>#Elective</td>
<td>Building Property Management Elective 6</td>
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<tr>
<td>REAL 2372</td>
<td>Property Management 3</td>
</tr>
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<td></td>
<td>13</td>
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</tbody>
</table>

Minimum Hours Required 37

#Electives must be selected from the following Building Property Management Courses:

- BPMT 2372 Real Property Accounting 3
- BPMT 2373 Risk Management 3
- BPMT 2374 Leasing & Marketing for Property Managers 3

REAL ESTATE – PROVISIONAL CERTIFICATE

Cedar Valley, and North Lake Only

(Skills Achievement Award)

Degree Plan Number X37135

Candidates for licensure who have completed six hours of other college courses and have completed this certificate of completion program are eligible to sit for the state salespersons examination.

<table>
<thead>
<tr>
<th>SEMESTER I</th>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>REAL 1370</td>
<td>Real Estate Principles and Practice 3</td>
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<tr>
<td>REAL 1371</td>
<td>Real Estate Finance OR</td>
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<tr>
<td>REAL 1372</td>
<td>Real Estate Marketing OR</td>
</tr>
<tr>
<td>REAL 1375</td>
<td>Real Estate Law 3</td>
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<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Minimum Hours Required 6
### REAL ESTATE -- SALESMAN

**Cedar Valley and North Lake Only**

(Skills Achievement Award)

Degree Plan Number X37145

Candidates for licensure who have completed no hours of other college courses are eligible to sit for the state salespersons examination after completing this twelve hour skills achievement award.

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>REAL 1370</td>
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</tbody>
</table>

Select three from the following:

- REAL 1371 Real Estate Finance ................. 3
- REAL 1372 Real Estate Marketing ............... 3
- REAL 1373 Real Estate Appraisal-Commercial 3
- REAL 1374 Real Estate Appraisal-Residential 3
- REAL 1375 Real Estate Law .................... 3
- REAL 1376 Real Estate Promulgated Contract Forms 3
- REAL 2371 Commercial and Investment Real Estate 3
- REAL 2372 Property Management ................ 3
- REAL 2373 Residential Inspection for Real Estate Agents 3

Minimum Hours Required .................................... 12

### REAL ESTATE -- SPECIALIST

**Cedar Valley, North Lake and Richland Only**

(Skills Achievement Award)

Degree Plan Number X37155

The Real Estate Specialist Certificate enables the student to sit for the state exam and/or meet the continuing education requirements for the succeeding two years of licensure.

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>REAL 1379</td>
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<tr>
<td>REAL 1370</td>
</tr>
</tbody>
</table>

Select three from the following:

- REAL 1371 Real Estate Finance .................. 3
- REAL 1372 Real Estate Marketing ............... 3
- REAL 1373 Real Estate Appraisal-Commercial 3
- REAL 1374 Real Estate Appraisal-Residential 3
- REAL 1375 Real Estate Law .................... 3
- REAL 1376 Promulgated Contract Forms .......... 3
- REAL 2370 Real Estate Office Management/Brokerage 3
- REAL 2371 Commercial and Investment Real Estate 3
- REAL 2372 Property Management ................ 3
- REAL 2373 Residential Inspection for Real Estate Agents 3
- REAL 2374 Special Problems in Real Estate .... 3
- REAL 7471 Cooperative Work Experience ....... 4

Minimum Hours Required .................................... 15
VIDEO TECHNOLOGY

North Lake only

( Associate Degree )

Degree Plan Number 742575

The Video Technology program is designed to prepare students for entry level or advanced employment in the video industry. Opportunities in medicine, entertainment, advertising, Industry, broadcast, cable, education, military, government, and business are among the career options. Students will develop skills and knowledge necessary to plan, budget, produce, and perform post production of various video projects.

Students wishing to earn an Associate in Applied Sciences Degree with a major in Video Technology must complete the following courses:

<table>
<thead>
<tr>
<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>SEMESTER I</td>
</tr>
<tr>
<td>RFTV 1370</td>
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<tr>
<td>RFTV 1371</td>
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<tr>
<td>RFTV 1470</td>
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<tr>
<td>ENGL 1301</td>
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<td>MATH 1314</td>
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<tr>
<td>MATH 1374</td>
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<td>SEMESTER II</td>
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<td>RFTV 1471</td>
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<td>RFTV 1472</td>
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<td>RFTV 1372</td>
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<td>SPCH 1311</td>
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<tr>
<td>SEMESTER III</td>
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<tr>
<td>RFTV 2470</td>
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<tr>
<td>RFTV 2370</td>
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<tr>
<td>HUMA 1301</td>
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<tr>
<td>ARTS 1301</td>
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<tr>
<td>MUSI 1306</td>
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<td>RFTV 2472</td>
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<td>RFTV 2371</td>
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<td>RFTV 7371</td>
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<td>Elective</td>
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Minimum Hours Required .................................. 64

+ Elective—must be selected from the following:

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<th>CREDIT HOURS</th>
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<tbody>
<tr>
<td>RFTV 2471</td>
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<td>RFTV 2372</td>
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<td>RFTV 2373</td>
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<tr>
<td>RFTV 2374</td>
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<td>RFTV 2375</td>
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<td>RFTV 2376</td>
</tr>
<tr>
<td>RFTV 7372</td>
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<tr>
<td>RFTV 7472</td>
</tr>
</tbody>
</table>

+*MATH 1374 may be taken only when a science course is taken as well. Select natural science course from Astronomy, Biology, Chemistry, Earth Science, Ecology, Geology, Physical Science or Physics.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.
ACCOUNTING

ACCT 1371 Bookkeeping I (3)
(Last year's course prefix/number ACC 131)
The fundamental principles of double-entry bookkeeping are presented and applied to practical business situations. Emphasis is on financial statements, trial balances, work sheets, special journals, and adjusting and closing entries. A practice set covering the entire business cycle is completed. (3 Lec.)

ACCT 1372 Bookkeeping II (3)
(Last year's course prefix/number ACC 132)
Prerequisite: Accounting 1371. This course covers accruals, bad debts, taxes, depreciation, controlling accounts, and business vouchers. Bookkeeping for partnerships and corporations is introduced. (3 Lec.)

ACCT 2301 Principles Of Accounting I (3)
(This is a common course number. Last year's course prefix/number ACC 201)
This course covers the theory and practice of measuring and interpreting financial data for business units. Basic concepts, principles, and procedures are applied to the following topics: operating cycle, accruals and deferrals, financial statements, internal controls, receivables, inventory, fixed assets, and liabilities. (3 Lec.)

ACCT 2302 Principles Of Accounting II (3)
(This is a common course number. Last year's course prefix/number ACC 202)
Prerequisite: Accounting 2301. This course is a continuation of Accounting 2301. This course covers the theory and practice of measuring and interpreting financial data for business units, with emphasis on corporations and managerial applications. Basic concepts, principles, and procedures are applied to the following topics: preparation and analysis of financial statements, budgeting, cash flow, cost systems, responsibility accounting, and cost-volume-profit analysis. (3 Lec.)

ACCT 2370 Microcomputer-Based Accounting Applications (3)
(Last year's course prefix/number ACC 250)
Prerequisites: Accounting 2302 and Computer Information Systems 1470 or demonstrated competence approved by the instructor. This course is designed to provide students with an overview of microcomputer-based accounting systems for small businesses. Actual "hands-on" experience will be provided utilizing an integrated general ledger accounting package, including accounts receivable and accounts payable. In addition, various electronic spreadsheet applications and other topics will be covered. Laboratory fee. (2 Lec., 2 Lab.)

ACCT 2372 Income Tax Accounting (3)
(Last year's course prefix/number ACC 239)
Prerequisite: Accounting 2302 or demonstrated competence approved by the instructor. This course examines basic income tax laws which apply to individuals and sole proprietorships. Topics include personal exemptions, gross income, business expenses, non-business deductions, capital gains and losses. Emphasis is on common problems. (3 Lec.)

ACCT 2375 Business Finance (3)
(Last year's course prefix/number ACC 205)
Prerequisites: Economics 2301 or 2302 and Accounting 2301. This course focuses on the financial structure in the free enterprise system. Topics include interest rates, value analysis, the financing of business firms and government, and security markets. Financial requirements for decision-making and capital formation are analyzed. (3 Lec.)

ACCT 2376 Cost Accounting (3)
(Last year's course prefix/number ACC 238)
Prerequisite: Accounting 2302. The theory and practice of accounting for a manufacturing concern are presented. The measurement and control of material, labor, and factory overhead are studied. Budgets, variance analysis, standard costs, and joint and by-product costing are also included. (3 Lec.)

ACCT 2377 Managerial Accounting (3)
(Last year's course prefix/number ACC 204)
Prerequisite: Accounting 2302. This course is a study of accounting practices and procedures used to provide information for business management. Emphasis is on the preparation and internal use of financial statements and budgets. Systems, information, and procedures used in management planning and control are also covered. (3 Lec.)

ACCT 2378 Intermediate Accounting I (3)
(Last year's course prefix/number ACC 203)
Prerequisite: Accounting 2302. This course continues Accounting 2378. Principles and problems in fixed liabilities and capital stock are examined. Equities, business combinations, and the analysis and interpretation of supplementary statements are also included. (3 Lec.)

ACCT 2379 Intermediate Accounting II (3)
(Last year's course prefix/number ACC 207)
This course continues Accounting 2378. Principles and problems in fixed liabilities and capital stock are examined. Equities, business combinations, and the analysis and interpretation of supplementary statements are also included. (3 Lec.)
ACCT 7371 Cooperative Work Experience (3)
(Last year's course prefix/number ACC 703)
Prerequisites: Completion of Accounting 2301 and 2302 or instructor approval. This course combines work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Each student must complete three objectives and work a minimum of 15 hours per week for a total of three credit hours. Seminar topics include an orientation session, setting and writing job objectives, career planning, interpersonal skills, and an exit session. (1 Lec., 15 Lab.)

ACCT 7372 Cooperative Work Experience (3)
(Last year's course prefix/number ACC 713)
Prerequisite: Completion of Accounting 7371 or 7471. This course combines work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Each student must complete three new objectives and work a minimum of 15 hours per week for a total of three credit hours. Seminar topics include an orientation session, setting and writing job objectives, and additional independent study of business topics. The independent study topics in this course must be different from those included in the previous cooperative education course. (1 Lec., 15 Lab.)

ACCT 7471 Cooperative Work Experience (4)
(Last year's course prefix/number ACC 704)
Prerequisites: Completion of Accounting 2301 and 2302 or instructor approval. This course combines work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Each student must complete four objectives and work a minimum of 20 hours per week for a total of four credit hours. Seminar topics include an orientation session, setting and writing job objectives, career planning, interpersonal skills, and an exit session. (1 Lec., 20 Lab.)

ACCT 7472 Cooperative Work Experience (4)
(Last year's course prefix/number ACC 714)
Prerequisite: Completion of Accounting 7371 or 7471. This course combines work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Each student must complete four new objectives and work a minimum of 20 hours per week for a total of four credit hours. Seminar topics include an orientation session, setting and writing job objectives, and additional independent study of business topics. The independent study topics in this course must be different from those included in the previous cooperative education course. (1 Lec., 20 Lab.)

AIR CONDITIONING AND REFRIGERATION
(See Heating, Ventilation and Air Conditioning)

ANTHROPOLOGY

ANTH 1370 American Indian Culture (3)
(Last year's course prefix/number ANT 104)
Native Americans are studied from three perspectives: Native American history and prehistory; traditional Indian cultures; and native Americans today. The latter theme stresses current topics such as discrimination, poverty, employment, reservations, The Bureau of Indian Affairs, self-determination, health care, etc. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015342)

ANTH 1371 The Heritage Of Mexico (3)
(Last year's course prefix/number ANT 110)
This course (cross-listed as History 2380) is taught in two parts each semester. The first part of the course deals with the archeology of Mexico beginning with the first humans to enter the North American continent and culminating with the arrival of the Spanish in 1519 A.D. Emphasis is on archaic cultures, the Maya, the Toltec, and Aztec empires. The second part of the course deals with Mexican history and modern relations between the United States and Mexico. The student may register for either History 2380 or Anthropology 1371 but may receive credit for only one of the two. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015342)

ANTH 2302 Introduction To Archeology (3)
(This is a common course number. Last year's course prefix/number ANT 231)
This course is an anthropological approach to archeology. Topics include an introduction to the study of humanity's past. How archeologist retrieve, process, analyze and interpret surviving prehistoric materials is covered, as well as a survey of world prehistory through neolithic times. (3 Lec.)
(Coordinating Board Academic Approval Number 4503015142)

ANTH 2346 Introduction To Anthropology (3)
(This is a common course number. Last year's course prefix/number ANT 100)
This course surveys the origin of mankind involving the processes of physical and cultural evolution, ancient man, and preliterate man. Attention is centered on fossil evidence, physiology and family/group roles and status. (3 Lec.)
(Coordinating Board Academic Approval Number 4502015142)
ANTH 2351 Cultural Anthropology (3)
(This is a common course number. Last year's course prefix/number ART 101)
This course introduces students to the elements and processes that create culture, society and social interaction. Language, cross-cultural communication, fieldwork, and analysis of multicultural societies are covered. A special emphasis is given to cross-cultural comparison and analysis of basic social institutions on a global scale in order to provide students with an appreciation and understanding of the underlying unity of diverse cultural expressions. (3 Lec.)
(Coordinating Board Academic Approval Number 4502015342)

ART

ARTS 1170 Problems in Contemporary Art (1)
(Last year's course prefix/number ART 199)
Area artists, critics, and art educators speak with students about the work exhibited in the gallery and discuss current art styles and movements. They also discuss specific aspects of being artists in contemporary society. This course may be repeated for credit. (1 Lec.)
(Coordinating Board Academic Approval Number 5007035330)

ARTS 1301 Art Appreciation (3)
(This is a common course number. Last year's course prefix/number ART 104)
Films, lectures, slides, and discussions focus on the theoretical, cultural, and historical aspects of the visual arts. Emphasis is on the development of visual and aesthetic awareness. (3 Lec.)
(Coordinating Board Academic Approval Number 5007035130)

ARTS 1303 Survey of Art History (3)
(This is a common course number. Last year's course prefix/number ART 105)
This course covers the history of art from prehistoric time through the Gothic period. It explores the cultural, geophysical, and personal influences on art styles. (3 Lec.)
(Coordinating Board Academic Approval Number 5007035230)

ARTS 1304 Survey of Art History (3)
(This is a common course number. Last year's course prefix/number ART 106)
This course covers the history of art from the Renaissance through the present. It explores the cultural, geophysical, and personal influences on art styles. (3 Lec.)
(Coordinating Board Academic Approval Number 5007035230)

ARTS 1311 Design I (3)
(This is a common course number. Last year's course prefix/number ART 110)
Basic concepts of design with two-dimensional materials are explored. The use of line, color, illusion of space or mass, texture, value, shape, and size in composition is considered. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5004015330)

ARTS 1312 Design II (3)
(This is a common course number. Last year's course prefix/number ART 111)
Basic concepts of design with three-dimensional materials are explored. The use of mass, space, movement, and texture, line, plane, volume, color, and scale is considered. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5004015330)

ARTS 1316 Drawing I (3)
(This is a common course number. Last year's course prefix/number ART 114)
This beginning course investigates various media, techniques, and subjects. It explores perceptual and descriptive possibilities and considers drawing as a developmental process as well as an end in itself. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007055230)

ARTS 1317 Drawing II (3)
(This is a common course number. Last year's course prefix/number ART 115)
Prerequisite: Art 1316. This course is an expansion of Art 1316. It stresses the expressive and conceptual aspects of drawing, including advanced composition arrangements, a range of wet and dry media, and the development of an individual approach to theme and content. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007055230)

ARTS 1370 Creative Photography for The Artist I (3)
(Last year's course prefix/number ART 118)
Prerequisites: Art 1311, Art 1316, or demonstrated competence approved by the instructor. Creative use of the camera is studied. Photosensitive materials are examined as a means of making expressive graphic images. Emphasis is on black and white processing and printing techniques. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5006057130)

ARTS 1371 Creative Photography for The Artist II (3)
(Last year's course prefix/number ART 119)
Prerequisite: Art 1370 or demonstrated competence approved by the instructor. This course is a continuation of Art 1370. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5006057130)

ARTS 2311 Design III (3)
(This is a common course number. Last year's course prefix/number ART 227)
Prerequisites: Art 1311, 1312, 1316, and 1317. This course is a development of two- and three-dimensional projects in a variety of materials. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5004015330)
ARTS 2316 Painting I (3)
(Thiss is a common course number. Last year's course prefix/number ART 205)
Prerequisites: Art 1311, Art 1312, Art 1317, or demonstrated competence approved by the instructor. This studio course stresses fundamental concepts of painting with acrylics and oils. Emphasis is on painting from still life, models, and the imagination. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007065230)

ARTS 2317 Painting II (3)
(Thiss is a common course number. Last year's course prefix/number ART 206)
Prerequisite: Art 2316. This course continues Art 2316. Emphasis is on individual expression. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007085230)

ARTS 2323 Drawing III (3)
(Thiss is a common course number. Last year's course prefix/number ART 201)
Prerequisites: Art 1311, Art 1312, Art 1317, sophomore standing, or demonstrated competence approved by the instructor. This course covers the analytic and expressive drawing of the human figure. Movement and volume are stressed. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007055330)

ARTS 2324 Drawing IV (3)
(Thiss is a common course number. Last year's course prefix/number ART 202)
Prerequisites: Art 2323, sophomore standing, or demonstrated competence approved by the instructor. This course continues Art 2323. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007055330)

ARTS 2326 Sculpture I (3)
(Thiss is a common course number. Last year's course prefix/number ART 208)
Prerequisites: Art 1311, Art 1312, Art 1317, or demonstrated competence approved by the instructor. Various sculptural approaches are explored. Different media and techniques are used. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007095130)

ARTS 2327 Sculpture II (3)
(Thiss is a common course number. Last year's course prefix/number ART 209)
Prerequisite: Art 2326. This course continues Art 2326. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007095130)

ARTS 2333 Printmaking I (3)
(Thiss is a common course number. Last year's course prefix/number ART 220)
Prerequisites: Art 1311, Art 1312, Art 1317, or demonstrated competence approved by the instructor. Basic printmaking processes are introduced. Included are planographic, intaglio, stencil and relief processes. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007105130)

ARTS 2334 Printmaking II (3)
(Thiss is a common course number. Last year's course prefix/number ART 222)
Prerequisite: Art 2333. This course is a continuation of Printmaking I. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007105130)

ARTS 2336 Fibers I (3)
(Thiss is a common course number. Last year's course prefix/number ART 223)
Prerequisites: Art 1311, 1312, 1316, and 1317. This course explores the problems of design, construction, and form utilizing basic fiber techniques. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007125130)

ARTS 2337 Fibers II (3)
(Thiss is a common course number. Last year's course prefix/number ART 223)
Prerequisite: Art 2336. This course is a continuation of Art 2336. It further explores fiber techniques and processes. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007125130)

ARTS 2341 Jewelry Design And Construction (3)
(Thiss is a common course number. Last year's course prefix/number ART 233)
This course explores the uses of metal in design, basic fabrication techniques in metal, bezel setting of stones, and simple casting. Emphasis is on original design. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007135130)

ARTS 2342 Advanced Jewelry Design And Construction (3)
(Thiss is a common course number. Last year's course prefix/number ART 116)
This course explores the uses of metal in design, basic fabrication techniques in metal, bezel setting of stones, and simple casting. Emphasis is on original design. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007135130)
ARTS 2346 Ceramics I (3)
(This is a common course number. Last year's course prefix/number ART 215)
Prerequisites: Art 1311, Art 1312, Art 1317 or demonstrated competence approved by the instructor. This course focuses on the building of pottery forms by coil, slab, and use of the wheel. Glazing and firing are also included. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007115130)

ARTS 2347 Ceramics II (3)
(This is a common course number. Last year's course prefix/number ART 216)
Prerequisite: Art 2346 or demonstrated competence approved by the instructor. Glaze technology is studied. Advanced problems in the creation of artistic and practical ceramic ware. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007115130)

ARTS 2366 Watercolor I (3)
(This is a common course number. Last year's course prefix/number ART 217)
Prerequisites: Art 1311, Art 1312, and Art 1317 or demonstrated competence approved by the instructor. This course explores studio techniques in water base media. Emphasis is placed on exploration of a variety of modes and techniques as a means to original expression. This course may be repeated for credit. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007085330)

ARTS 2367 Watercolor II (3)
(This is a common course number. Last year's course prefix/number ART 218)
Prerequisite: Art 2366. This course continues the development of skills in water base media. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5007085330)

ARTS 2370 Art History (3)
(203)
Prerequisites: Art 1303 and Art 1304. The development of the art of western culture during the Renaissance Period is presented. Emphasis is on the development of Renaissance art in Northern and Southern Europe. (3 Lec.)
(Coordinating Board Academic Approval Number 5007035230)

ARTS 2371 Art History (3)
(204)
Prerequisites: Art 1303 and Art 1304. The development of the art of western culture from the late 19th century through today is presented. Emphasis is on the development of modern art in Europe and America. (3 Lec.)
(Coordinating Board Academic Approval Number 5007035230)

ARTS 2372 Commercial Art I (3)
(Last year's course prefix/number ART 210)
Prerequisites: Art 1311, Art 1312, Art 1317 or demonstrated competence approved by the instructor. Typical commercial assignments are used to develop professional attitudes and basic studio skills. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 4802037129)

ARTS 2373 Design IV (3)
(Last year's course prefix/number ART 229)
Prerequisite: Art 2311. This course is a continued investigation into the problems of two- and three-dimensional concepts. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5004015330)

ASTRONOMY
(See Physics)

BIOLOGY

BIOL 1406 General Biology (4)
(201)
This course is the first of a two semester sequence designed for students majoring or minoring in biology and related disciplines. Topics include but are not limited to the scientific method, general and biological chemistry, cell structure and function, cell reproduction, and molecular genetics. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 2601015124)

BIOL 1407 General Biology (4)
(202)
This course is a continuation of Biology 1406 and is intended for students majoring or minoring in biology and related disciplines. Topics include but are not limited to development, evolution, ecology, population genetics, and a review of the diversity of life. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 2601015124)

BIOL 1408 Biological Science (4)
(203)
This course is designed for all majors except science. Selected topics in biological science are presented to students not majoring in the sciences to promote their understanding of biological concepts and to enable them to use these concepts in their daily lives. Topics include chemistry and biochemistry, the cell, respiration, photosynthesis, cell reproduction, genetics, and reproduction and development. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 2601015124)
BIOL 1409 Biological Science (4)  
(This is a common course number. Last year's course prefix/number BIO 116)  
This course is designed for all majors except science. Selected topics in biological science are presented to students not majoring in the sciences to promote their understanding of biological concepts and to enable them to use these concepts in their daily lives. Topics include plant and animal systems, diversity of life and population dynamics, taxonomy, evolution, and ecology. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2601015124)

BIOL 1411 Introductory Botany (4)  
(This is a common course number. Last year's course prefix/number BIO 110)  
This course introduces plant form and function. Topics ranging from the cell through organs are included. Emphasis is on the vascular plants, including the taxonomy and life cycles of major plant divisions. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2603015124)

BIOL 1470 Introduction To Human Anatomy And Physiology (4)  
(Last year's course prefix/number BIO 120)  
Prerequisite: Prior enrollment in Biology 1408 is recommended for those with no previous high school biology. Major topics include cell structure and function, tissues, organization of the human body, and the following organ systems: skeletal, muscular, nervous, and endocrine. This course is a foundation course for specialization in Associate Degree Nursing and allied health disciplines. Other students interested in the study of structure and function of the human body should consult a counselor. Emphasis is on homeostasis. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIOL 1472 Introduction To Human Anatomy And Physiology (4)  
(Last year's course prefix/number BIO 121)  
Prerequisite: Biology 1470. This course is a continuation of Biology 1470. Major topics include the following organ systems: digestive, circulatory, respiratory, urinary, and reproductive. Emphasis is on homeostasis. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIOL 1473 Applied Anatomy And Physiology (4)  
(Last year's course prefix/number BIO 123)  
This course surveys human anatomy and physiology. The various body systems are studied and examined. This course is suggested for students of the health occupations in accordance with their program requirements. It is open to other students. This course will apply toward meeting the science requirement for non-science majors. No previous science background is presumed. Laboratory fee. (3 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 2606135124)

BIOL 2306 Environmental Biology (3)  
(This is a common course number. Last year's course prefix/number BIO 223)  
The principles of aquatic and terrestrial communities are presented. Emphasis is on the relationship of these principles to the problems facing people in a modern technological society. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 0301025124)

BIOL 2370 Field Biology (3)  
(Last year's course prefix/number BIO 218)  
Local plant and animal life are surveyed in relationship to the environment. Aquatic and terrestrial communities are studied with reference to basic ecological principles and techniques. Emphasis is upon classification, identification, and collection of specimens in the field. This course may be repeated for credit. (2 Lec., 4 Lab.)  
(Coordinating Board Academic Approval Number 0301025124)

BIOL 2401 Anatomy And Physiology I (4)  
(This is a common course number. Last year's course prefix/number BIO 221)  
Prerequisite: Biology 1407 or demonstrated competence approved by the instructor. This course examines cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIOL 2402 Anatomy And Physiology II (4)  
(This is a common course number. Last year's course prefix/number BIO 222)  
Prerequisite: Biology 2401 or demonstrated competence approved by the instructor. This is the second course of a two course sequence. Structure and function as related to the human circulatory, respiratory, urinary, digestive, reproductive, and endocrine systems are studied. Emphasis is placed on the interrelationships of these systems. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIOL 2416 Genetics (4)  
(This is a common course number. Last year's course prefix/number BIO 226)  
This course focuses on genetics. Topics include Mendelian inheritance, recombinant genetics, the biochemical theory of genetic material, and mutation theory. Plant and animal materials are used to study population genetics, linkage, gene structure and function, and other concepts of heredity. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2606135124)

BIOL 2417 Genetics (4)  
(This is a common course number. Last year's course prefix/number BIO 227)  
This course focuses on genetics. Topics include Mendelian inheritance, recombinant genetics, the biochemical theory of genetic material, and mutation theory. Plant and animal materials are used to study population genetics, linkage, gene structure and function, and other concepts of heredity. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2606135124)
BIO 2418 Invertebrate Zoology (4)  
(This is a common course number. Last year's course prefix/number BIO 211)  
Prerequisite: Eight hours of biological science. This course surveys the major groups of animals below the level of chordates. Consideration is given to phylogeny, taxonomy, morphology, physiology, and biology of the various groups. Relationships and importance to higher animals and humans are stressed. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number is to be assigned. This is a unique need course.)

BIO 2420 General Microbiology (4)  
(This is a common course number. Last year's course prefix/number BIO 216)  
Prerequisite: Biology 1407 or 1472 or demonstrated competence approved by the instructor. Topics include growth, reproduction, nutrition, genetics, and ecology of microorganisms, as well as aspects of microbial disease, immunology and chemotherapy. Laboratory activities constitute a major part of the course. Laboratory fee. (3 Lec., 4 Lab.)  
(Coordinating Board Academic Approval Number 2605015124)

BIO 2428 Comparative Anatomy Of The Vertebrates (4)  
(This is a common course number. Last year's course prefix/number BIO 235)  
Prerequisites: Biology 1406 and 1407. For science majors and pre-medical and pre-dental students. Major groups of vertebrates are studied. Emphasis is on morphology and evolutionary relationships. Laboratory fee. (3 Lec., 4 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIO 2470 Intermediate Botany (4)  
(Last year's course prefix/number BIO 230)  
Prerequisites: Biology 1406 and 1407. The major plant groups are surveyed. Emphasis is on morphology, physiology, classification, and life cycles. Evolutionary relationships of plants to each other and their economic importance to humans are also covered. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BIO 2471 Mammalian Physiology (4)  
(Last year's course prefix/number BIO 230)  
Prerequisite: Twelve hours of biology, eight hours of inorganic chemistry or concurrent registration in organic chemistry and demonstrated competence approved by the instructor. This course is a study of the function of various mammalian systems. Emphasis is on interrelationships. Instruments are used to measure various physiological features. Laboratory fee. (3 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 2607065124)

BLUEPRINT READING  
BLPR 1270 Blueprint Reading - Mechanical (2)  
(Last year's course prefix/number BPR 177)  
Engineering drawings are described and explained. Topics include multi view projection, sections, auxiliaries, bill of materials, symbols, notes, conventions, and standards. The skills of visualization, dimensioning, and sketching of machine parts are covered. (1 Lec., 3 Lab.)

BLPR 1271 Blueprint Reading - Architectural (2)  
(Last year's course prefix/number BPR 178)  
The different architectural type prints are read. Specifications and more complex prints such as structural, electrical, HVAC and plumbing are included. (1 Lec., 3 Lab.)

BUILDING PROPERTY MANAGEMENT  
BPMT 1370 Design, Operation and Maintenance of Building Systems I (3)  
(Last year's course prefix/number BPM 160)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course provides the student with a working knowledge of project development, codes and regulations, structural design and maintenance, heating and air conditioning, plumbing and water treatment. Life cycle costing and energy management are integrated into the study of the systems presented. (3 Lec.)

BPMT 2370 Design, Operation and Maintenance of Building Systems II (3)  
(Last year's course prefix/number BPM 260)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course provides the student with a working knowledge of building electrical and lighting systems, elevators and escalators, custodial management and interior maintenance, pest control and sanitation, exterior landscaping design and maintenance, parking lots and structures, and building security, safety, and inspection. The application of life cycle costing and energy management of building systems is continued. (3 Lec.)

BPMT 2371 Law for Property Managers (3)  
(Last year's course prefix/number BPM 261)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course includes a review of the court systems and dispute resolution. The basic laws of real and personal property, liability, contracts and contract law, agency, mortgages, liens and leases, transfer of rights and interests, conveyances, landlord/tenant relationships, land use controls and environmental law are also studied. (3 Lec.)
BPMT 2372 Real Property Accounting (3)
(Previous year's course prefix/number BPM 262)
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course reviews financial accounting concepts and their application in real property managerial accounting. Topics include the revenue and expense cycles, cash flow and financial statements, financial statements analysis, cost controls, lease financial administration, and income and expense budgeting. Computerized accounting applications are integrated into the presentation of topics covered. (3 Lec.)

BPMT 2373 Risk Management and Insurance (3)
(Previous year's course prefix/number BPM 263)
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course provides the student with a working knowledge of risk management and the function of insurance as a component of risk management. Topics include risk control and funding mechanisms, insurance company operations, insurance policy principles and components, property and income loss and liability policies, employee benefit plans, and managing real estate loss exposures. The claims adjustment process, dealing with insurers and agents or brokers and environmental concerns are also studied. All topics are addressed from a real property management perspective. (3 Lec.)

BPMT 2374 Leasing and Marketing for Property Managers (3)
(Previous year's course prefix/number BPM 264)
This course focuses on the marketing of commercial real estate to include market analysis, developing a marketing plan, public relations and advertising and tenant satisfaction. The leasing function to include prospecting for tenants, negotiating the contract, and lease documentation and administration are also studied. (3 Lec.)

BUSINESS

BUSI 1307 Personal Finance (3)
(Previous year's course prefix/number BUS 143)
Personal financial issues are explored. Topics include financial planning, insurance, budgeting, credit use, home ownership, savings, investment, and tax problems. (3 Lec.)

BUSI 2301 Business Law (3)
(Previous year's course prefix/number BUS 234)
This course presents the legal principles affecting business decisions. The law of contracts, agency, sales, negotiable instruments, and secured transactions are specifically covered. (3 Lec.)

CHEMISTRY

CHEM 1207 Chemical Calculations (2)
(Previous year's course prefix/number CHM 205)
Prerequisite: Chemistry 1412. Chemical calculations are reviewed. Emphasis is on stoichiometry and chemical equilibrium. (2 Lec.)

CHEM 1411 General Chemistry (4)
(Previous year's course prefix/number CHM 101)
Prerequisites: Developmental Mathematics 0093 or equivalent and any one of the following: high school chemistry, Chemistry 1470, or the equivalent. This course is for science and science-related majors. Fundamental concepts of chemistry are presented including states and properties of matter, the periodic table, chemical reaction types and energy relationships, chemical bonding, atomic and molecular structure, stoichiometry, gas laws and solutions. Laboratory fee. (3 Lec., 3 Lab.)

CHEM 1412 General Chemistry (4)
(Previous year's course prefix/number CHM 102)
Prerequisite: Chemistry 1411. This course is for science and science-related majors. It is a continuation of Chemistry 1411. Previously learned and new concepts are applied. Topics include reaction kinetics and chemical equilibrium, acids, bases, salts and buffers, thermodynamics, colligative properties of solutions, electrochemistry, transition-metal chemistry, nuclear chemistry, qualitative inorganic analysis and an introduction to organic chemistry. Laboratory fee. (3 Lec., 3 Lab.)
CHEM 1470 Chemical Science (4)
(Last year's course prefix/number CHM 115)
Prerequisite: Developmental Mathematics 0091 or the equivalent. This course is for non-science majors. Fundamental concepts are presented in lecture and laboratory including the periodic table, atomic structure, chemical bonding, reactions, stoichiometry, states of matter, properties of metals, nonmetals and compounds, acid-base theory, oxidation-reduction, solutions and nuclear chemistry. Descriptive chemistry is emphasized. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4005015239)

CHEM 1471 Chemical Science (4)
(Last year's course prefix/number CHM 116)
Prerequisite: Chemistry 1470 or demonstrated competence approved by the Instructor. This course is for non-science majors. It surveys organic chemistry and biochemistry. The reactions, syntheses, nomenclature, uses, purposes and properties of the important classes of organic and biochemical compounds are studied. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4005015239)

CHEM 2401 Quantitative Analysis (4)
(This is a common course number. Last year's course prefix/number CHM 203)
Prerequisite: Chemistry 1412, Mathematics 1314. A survey of methods used in analytical chemistry: gravimetric and volumetric methods based on equilibria, oxidation-reduction, and acid-base theory, spectrophotometry, chromatography and electroanalytical chemistry. (2 Lec., 6 Lab.)
(Coordinating Board Academic Approval Number 4005025139)

CHEM 2402 Instrumental Analysis (4)
(This is a common course number. Last year's course prefix/number CHM 234)
Prerequisite: Chemistry 2401 or demonstrated competence approved by the instructor. The role of modern electronic instrumentation in analysis is explored. Topics include infrared and ultraviolet spectroscopy, gas chromatography, potentiometric titration, electrochemistry, continuous flow analysis, scintillation counting, electrophoresis, flame photometry, and atomic absorption spectrophotometry as analytical tools. Laboratory fee. (2 Lec., 6 Lab.)
(Coordinating Board Academic Approval Number 4005025139)

CHEM 2423 Organic Chemistry I (4)
(This is a common course number. Last year's course prefix/number CHM 201)
Prerequisite: Chemistry 1412. This course is for science and science-related majors. It introduces the fundamental classes of organic (carbon) compounds and studies aliphatic and aromatic hydrocarbons in detail. It includes occurrence, structure, stereo-chemistry, nomenclature, and reactions and mechanisms of synthesis. Lab includes: synthesis, purification by distillation, recrystallization, extraction and chromatography, and identification by spectroscopic, physical and chemical methods. Laboratory fee. (3 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 4005045239)

CHEM 2425 Organic Chemistry II (4)
(This is a common course number. Last year's course prefix/number CHM 202)
Prerequisite: Chemistry 2423. This course is for science and science-related majors. It is a continuation of Chemistry 2423. Topics studied include properties and syntheses of aliphatic and aromatic systems of aldehydes, ketones, carboxylic acids, esters, ethers, amines, alcohols and amides. Further topics include polyfunctional and heterocyclic compounds, amino acids, proteins, lipids and carbohydrates. Laboratory includes qualitative organic analysis. Laboratory fee. (3 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 4005045239)

COLLEGE LEARNING SKILLS
(See Developmental College Learning Skills)

COMMUNICATIONS

COMM 1336 Television Production I (3)
(This is a common course number. Last year's course prefix/number RTV 210)
Prerequisite: Journalism 1307 or demonstrated competence approved by the instructor. This course introduces the student to station organization, studio operation, and the use of studio equipment. Topics include continuity, camera operation, sound, lighting, and videotape recording. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 1001045226)

COMM 1337 Television Production II (3)
(This is a common course number. Last year's course prefix/number RTV 211)
Prerequisite: Communications 1336. This course is a continuation of Communications 1336. Emphasis is on the concept and technique of production of television broadcasts in practical situations. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 1001045226)
COMM 1370 Applied Communications (3)
(Last year's course prefix/number COM 131)
Prerequisite: An appropriate assessment test score (ACT, DCCCD, or SAT). This course focuses on student writing. It emphasizes reading and analytical thinking skills and introduces research skills. Students practice writing for a variety of audiences and purposes, primarily job-related. (3 Lec.)
(Coordinating Board Academic Approval Number 2311015135)

COMPUTER AIDED DESIGN & DRAFTING

CADD 1270 CAD Operations (2)
(Last year's course prefix/number CAD 101)
This course provides instruction in hardware selection, setup and use of a CAD station. Emphasis is placed on control of the operating system, file management and keyboarding. Other topics include software installation, hardware installation and configuration, such as mouse, tablet, printers, plotters, graphics adapters and other configurable items such as communication ports, and serial ports. An introduction to word processing and spreadsheet is included. Laboratory fee. (1 Lec., 2 Lab.)

CADD 1271 CAD/Graphic Processes (2)
(Last year's course prefix/number CAD 135)
Equipment, media and processes used to print, plot and reproduce multiple copies of technical drawings and art are studied. Topics include preparing drawings to be offset printed in multiple colors; techniques of shading and varying line weights for laser printers; sizing and inserting electronic art into files created by word processors; preparing silk screen art for panels, printed circuit boards, etc. and the use of screened prints for technical art works such as PCB and shade line drawings and other current topics in CAD. Laboratory fee. (1 Lec., 3 Lab.)

CADD 1272 Technician Drafting (2)
(Last year's course prefix/number CAD 182)
This course focuses on the reading and interpretation of engineering drawings. Topics include multi view drawings, pictorial drawings, dimensioning, measurement with scales, schematic diagrams, and printed circuit boards. Laboratory fee. (1 Lec., 3 Lab.)

CADD 1370 Civil Design (3)
(Last year's course prefix/number CAD 136)
This is a specialty course to prepare one to work in civil drafting. Various drawings are completed, such as relief maps, plan and profile drawings, roadways, pipelines, and petroleum and geophysical maps. Calculations are made from surveyor's notes to plot traverse and contour lines and to determine areas and volumes. A set of drawings is prepared for a residential subdivision, a shopping center, or some other type of land development. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 1371 Manufacturing Fundamentals (3)
(Last year's course prefix/number CAD 161)
Manufacturing fundamentals and production methods including NC-CNC concepts are studied. Emphasis is on automation and set up for operation of CNC machines. The student will be able to interpret and describe information required to produce a CNC program. The functions and role of CAD and its relationship to computer aided manufacturing are studied. Laboratory fee. (2 Lec., 4 Lab.)

CADD 1470 Basic Drafting (4)
(Last year's course prefix/number CAD 183)
This course is for students who have had little or no previous experience in conventional drafting procedures or computer aided drafting. Topics include orthographic projection, dimensioning, tolerancing, sections, auxiliaries and fasteners. Emphasis will be on learning drafting conventions to produce technical sketches and drawings while the student learns the basic operations of interactive CAD systems. Experience is provided in using handbooks and other resource materials. No previous background in the use of computers is required. Laboratory fee. (2 Lec., 6 Lab.)

CADD 1471 Architectural Design (4)
(Last year's course prefix/number CAD 185)
This course begins with architectural lettering and drafting of construction details. Emphasis is on technique and use of appropriate material symbols and conventions. Working drawings are prepared, including plans, elevations, sections, and details. Drawings for buildings using steel, concrete, and timber structural components are covered. Reference materials are used to provide skills in locating data and in using handbooks. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 6 Lab.)
CADD 2370 Structural Design (3)
(Last year's course prefix/number CAD 230)
Prerequisite: Computer Aided Design 1470. Stresses and thermal and elastic qualities of various materials are studied. Beams, columns, and other materials are included. Structural plans, details, and shop drawings of components are developed for buildings using steel, reinforced concrete, and timber structures. Emphasis is on drafting appropriate drawings for fabrication and erection of structural components. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2371 Electronic Design (3)
(Last year's course prefix/number CAD 231)
Prerequisite: Computer Aided Design 1470. This course focuses on drawings used in the electronics industry. Topics include block and logic diagrams, schematic diagrams, interconnecting wiring diagrams, printed circuit boards, integrated circuits, component packaging, chassis design and current practices. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2372 CAD Illustration (3)
(Last year's course prefix/number CAD 232)
Prerequisite: Computer Aided Design 2380. The rendering and creation of three-dimensional drawings and models are covered. Engineer sketches and orthographic drawings are developed into isometric, oblique and perspective drawings and models. Exploded views and cutaway drawings are created and fully indexed as required by repair and installation description or part lists. Models are shaded using current software programs. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2373 Facilities Management Design (3)
(Last year's course prefix/number CAD 235)
Prerequisite: Computer Aided Design 2380. Students completing this course have the basic knowledge for the job of facilities drafter. Commercial space plans and extracting of data from these plans is covered. Details of modular furniture, free standing furnishings, reflected ceiling, plans including heating ventilating and air conditioning vents are drawn. Locating and specifying of these elements is examined in detail. After commercial spaces are drawn, and furniture, lighting and HVAC elements are located on the drawing, a computer generated listing of all items is created. The student is required to create the form for this list from commonly used software. Plans for spaces such as offices, restaurants, manufacturing areas, banks and etc. are assigned. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2374 Pipe Design (3)
(Last year's course prefix/number CAD 236)
Prerequisite: Computer Aided Design 1470 and Mathematics 1374 or the equivalent. This course presents the methods of piping of fluids for refineries, petrochemical plants, and industrial facilities. ASME codes are applied to the design of pressure vessels, pipe fitting, welded and seamless piping, pumps, and heat exchanges. Drawing techniques are emphasized in orthographic isometric projections. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2375 Advanced 3-D Illustration (3)
(Last year's course prefix/number CAD 237)
Prerequisite: Computer Aided Design 2372 and 2380. The creation, rendering and animation of technical art for technical publications is pursued in-depth. Slide shows, VCR output and hard copies of complex drawings and models are produced. Complex exploded views, cutaways, and external views of current industrial equipment and products are produced in black and white and color. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2376 Printed Circuit Design (3)
(Last year's course prefix/number CAD 240)
Prerequisite: Computer Aided Design 2371, concurrent enrollment in Computer Aided Design 2371 or the equivalent. This course develops skills in the design of double-sided and multi-layer printed circuit boards. Students design boards from schematics, parts lists, and manufacturing specifications. Some boards are designed for manual parts insertion and taped art works. Others are designed for automatic parts insertion and digitized inputs for art works. The use of the computer to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2377 Integrated Circuit Design (3)
(Next year's course prefix/number CAD 241)
Prerequisites: Computer Aided Design 2376, Electronics Technology 1470 or the equivalent. Must be taken concurrently with Electronics Technology 2485. This course develops skills in the design of integrated circuits. Electronic theory and laboratory exercises in active devices are combined with drafting lectures and laboratory drafting to enable students to design simple integrated circuits from schematic diagrams and given design rules. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2378 Advanced Integrated Circuit Design (3)
(Last year's course prefix/number CAD 242)
Prerequisite: Computer Aided Design 2377. This course develops skills in the design of complex integrated circuits. Students work from schematic diagrams and two sets of given rules. Work is done to meet industrial standards of current technologies. Laboratory fee. (2 Lec., 4 Lab.)
CADD 2379 Advanced Printed Circuit Design (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 2376. This course includes the design of double-sided, multi-layer, surface-mounted, and flex-cable printed circuit boards. Students select various types of integrated circuit chips while applying pin swapping and gate combination techniques. Industry standards are followed in design development. The use of computers to produce drawings is encouraged. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2380 Computer Aided Design (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 1470 or the equivalent. Capabilities and limitations of the electronic computer as an aid to the designer are studied. Drafting procedures using an interactive system with computer graphics are practiced. Forms and uses of computer aided products are viewed in perspective with the overall design process. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2381 Advanced CAD-Electronic (3)
(2 Lec., 4 Lab.)
Prerequisites: Computer Aided Design 2371. Advanced uses of the electronic computer as an aid to the designer are studied. Special emphasis is given to printed circuit board design. Menu and library construction will be practiced while using the interactive graphic system. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2382 Applied Printed Circuit Design (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 2376. Special applications of printed circuit design techniques and principles in particular systems of design are studied. Specialization may be focused by classification of the electronic circuits, of resources for design, and of processes for manufacture of the printed circuits. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2383 Advanced CAD-Mechanical (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 2380 or the equivalent. Advanced uses of the electronic computer as an aid to the designer are studied. Special emphasis is given to three-dimensional design, specifically mechanical. Menu and library construction will be practiced while using the interactive graphic systems. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2384 Advanced CAD-Architectural (3)
(2 Lec., 4 Lab.)
Prerequisites: Computer Aided Design 1471 and 2380 or the equivalent. Advanced uses of the electronic computer as an aid to the designer are studied. Special emphasis is given to architectural drafting as it relates to the single-family residence. Menus and library construction will be practiced while using the interactive graphic system. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2385 Electromechanical Packaging Design (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 2380. This course includes layout and design of electromechanical equipment from engineering notes, sketches and catalogs. Full size design layouts are created using parts drawn and saved in a parts library. Details drawings of sheet metal parts and complete parts lists are developed from the design layout. Practical wiring diagrams are created from sketches and notes. The computer is used to produce all drawings in this course. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2386 Advanced CAD-Menu Customizing And LISP (3)
(2 Lec., 4 Lab.)
Prerequisite: Computer Aided Design 2380. Advanced CAD software for personal computers is studied. Increasing productivity of computer drafting and design systems through task analysis and the creation of menus, macros, and programmed routines is the emphasis in this course. Extracting data from drawings containing blocks with attributes is also covered. Laboratory fee. (2 Lec., 4 Lab.)

CADD 2387 Geometric Dimensioning And Tolerancing (3)
(2 Lec., 4 Lab.)
This course provides instruction in geometric dimensioning and tolerancing as described in the ANSI-Y-14.5 standard. The topics of true position, form, tolerances data and accurate tolerancing from a given point are covered in detail. Using problems developed by professional designers, students will design accurate parts to meet accepted industry standards. (2 Lec., 4 Lab.)

CADD 2388 Selected Topics In Drafting (3)
(2 Lec., 4 Lab.)
Prerequisite: Demonstrated competence approved by the instructor. Special topics in advanced drafting are covered. Topics will be those with current industry applications and may be individualized for each student. This course may be repeated for credit when topics vary. Laboratory fee. (2 Lec., 4 Lab.)

CADD 7471 Cooperative Work Experience (4)
(1 Lec., 20 Lab.)
Prerequisites: Completion of two courses in the Computer Aided Design and Drafting program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of an introduction to cooperative education, orientation to learning on the job, writing the learning plan, college resources available, and college degree plans. (1 Lec., 20 Lab.)
CADD 7472 Cooperative Work Experience (4)  
(Last year's course prefix/number CAD 714)  
Prerequisites: Completion of two courses in the Computer Aided Design and Drafting program or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of the world of education, work and retirement; setting goals; writing a resume; and how to look for a job. (1 Lec., 20 Lab.)

CADD 8381 Cooperative Work Experience (3)  
(Last year's course prefix/number CAD 803)  
Prerequisites: Completion of two courses in the Computer Aided Design and Drafting program or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of transitions in life, communication skills, performance appraisals, and effective use of power. (1 Lec., 15 Lab.)

CADD 8382 Cooperative Work Experience (3)  
(Last year's course prefix/number CAD 813)  
Prerequisites: Completion of two courses in the Computer Aided Design and Drafting program or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of human potential, motivation, what to look for in a career, and trends in drafting occupations. (1 Lec., 15 Lab.)

COMPUTER INFORMATION SYSTEMS

CISC 1371 Data Entry Applications And Concepts (3)  
(Last year's course prefix/number CIS 111)  
Prerequisite: One semester of high school or college-level typing or keyboarding or demonstrated competence approved by the instructor. This course provides hands on experience using a personal computer for data entry applications. Students will learn to use a data entry utility program to create, change, and modify data sets, as well as enter variable data. Speed and accuracy will be stressed. Laboratory fee. (2 Lec., 4 Lab.)

CISC 1372 Data Communications And Operating Systems (3)  
(Last year's course prefix/number CIS 160)  
Prerequisite: Computer Information Systems 1470 or demonstrated competence approved by the instructor. This course provides a survey of operating environments and data communications, including vocabulary, concepts, and uses. Topics include connectivity, operating system functions, data communications hardware, software, networks, and protocols. (3 Lec.)

CISC 1373 BASIC Programming (3)  
(Last year's course prefix/number CIS 172)  
Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course covers the fundamentals of the BASIC programming language. Topics include structured program development, input/output operations, interactive concepts and techniques, selection and iteration, arrays, functions, string handling, and file processing. Laboratory fee. (2 Lec., 2 Lab.)

CISC 1374 Pascal Programming For Business (3)  
(Last year's course prefix/number CIS 173)  
Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course is an introduction to the Pascal programming language. Topics will include structured programming and problem-solving techniques as they apply to business applications. Laboratory fee. (2 Lec., 2 Lab.)

CISC 1470 Introduction to Computer Concepts And Applications (4)  
(Last year's course prefix/number CIS 101)  
This course introduces the use of computers in business organizations, professional activities and personal life. Topics include terminology, hardware components, systems and application software, systems development of applications, and use of contemporary software application packages (such as word processing, spreadsheet, database, and graphics). Laboratory fee. (3 Lec., 3 Lab.)

CISC 1471 Problem Solving With The Computer (4)  
(Last year's course prefix/number CIS 106)  
Prerequisite: Credit or concurrent enrollment in Computer Information Systems 1470 or demonstrated competence approved by the instructor. This course explores the methods of providing computerized solutions to business problems. Analysis and design methods and tools are studied and applied to practical situations involving various business functions. Topics include problem solving skills, logic structures, and programming. Laboratory fee. (3 Lec., 4 Lab.)
CISC 1472 Database Programming I (4)  
(Prerequisites: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course develops structured programming skills using a database language. Topics include input/output, comparisons, control breaks, array concepts and report forms. Skills in problem analysis, using design tools, coding, testing, and documentation are also developed. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1473 Systems Management/Operations I (4)  
(Prerequisites: Credit or concurrent enrollment in Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. The interrelationships among computer systems, hardware and software are covered. Topics include tasks associated with systems management and computer operations; peripheral device fundamentals; physical file concepts; using job documentation, standards, operating procedures, control language; and analyzing output and audit logs. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1474 Text Processing Applications (4)  
(Prerequisite: Computer Information Systems 1470 or demonstrated competence approved by the instructor. The course covers the use of microcomputers in preparing and editing documents, the mechanics of writing and the composition of various types of communications including letters. Topics include entry and editing, reformatting, search and replace, cut-and-paste, file and print operations, utilities including spelling checkers, outliners, and office productivity tools. Office automation concepts including desktop publishing, facsimile and networking are covered. Students will learn to use commercially available text processors. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1475 Systems Management/Operations II (4)  
(Prerequisites: Computer Information Systems 1470, Computer Information Systems 1471, and Computer Information Systems 1473 or demonstrated competence approved by the instructor. Management theories and multi-user operating system concepts are covered. Topics include physical and logical files; system commands and control language programming; interpretation of messages and codes; maintaining system security; introduction to data communications; data base screen and report design aids, query and update methods used on mainframes, midrange, and personal computer systems. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1476 COBOL Programming I (4)  
(Prerequisites: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course develops structured programming skills using the COBOL language. Topics include input/output, comparisons, control breaks, introductory table concepts, and report formats. Skills in problem analysis, using design tools, coding, testing, and documentation are also developed. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1477 COBOL Programming II (4)  
(Prerequisites: Computer Information Systems 1471 and Computer Information Systems 1476 or demonstrated competence approved by the instructor. This course continues the development of programming skills using the COBOL language. Topics include advanced table concepts, sort techniques, disk file organizations and maintenance, debugging techniques, copy techniques, and subprograms. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1478 RPG Programming (4)  
(Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course introduces programming skills using an RPG language. Topics include basic listings with levels of totals, array processing, exception reporting, sequential and keyed file processing and introduction to interactive processing applications. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1479 Application Development Tools (4)  
(Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course introduces application development tools and their relationship to software productivity. Topics include survey and definition of available products and their uses, current functions, evaluation standards, selection and implementation. Laboratory fee. (3 Lec., 4 Lab.))

CISC 1480 UNIX Operating System I (4)  
(Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course introduces the UNIX operating system and includes topics about the file system, both the C and Bourne shells, standard editor (vi), and an introduction to shell programming. (3 Lec., 4 Lab.))
CISC 2170 Contemporary Topics In Computer Information Systems (1)
(Last year's course prefix/number CIS 260)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (1 Lec.)

CISC 2370 Fundamentals Of Networking (3)
(Last year's course prefix/number CIS 200)
Prerequisite: Computer Information Systems 1372 or demonstrated competence approved by the instructor. This course presents the fundamentals of computer networking. Topics include network planning, cost evaluation, design, and implementation. Laboratory fee. (3 Lec., 1 Lab.)

CISC 2371 Network Software (4)
Prerequisite: Credit or concurrent enrollment in Computer Information Systems 2370 and credit or concurrent enrollment in Computer Information Systems 2478, or demonstrated competence approved by the instructor. This course presents networking software as applied to local area networks. Topics include the OSI reference model, LAN protocols, network utilities, NETBIOS, network security and control, the log-in process, application software in the network environment, and licensing agreements. Students will learn to use commercially available LAN software. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2372 Contemporary Topics In Computer Information Systems (3)
(3 Lec.)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (3 Lec.)

CISC 2373 Special Topics In Computer Information Systems (3)
(3 Lec.)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Current developments in the rapidly changing field of computer information systems are studied. May be repeated when topics vary. (2 Lec., 2 Lab.)

CISC 2374 Advanced BASIC Techniques (3)
(3 Lec.)
Prerequisite: Computer Information Systems 1373 or demonstrated competence approved by the instructor. This course continues the development of programming skills using the BASIC language and its application to typical business problems. Topics include multidimensional arrays, random access files, and graphics. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2375 User Documentation And Training (3)
(3 Lec.)
Prerequisite: Speech Communication 1311, Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course covers the practical application of adult learning theory, product documentation, creating user guides and reference manuals, using tutorials, evaluating and using training materials, effective training experiences, concepts of desktop publishing, and presentation graphics. Laboratory fee. (3 Lec., 1 Lab.)

CISC 2470 Control Language And Operating Environments (4)
(4 Lec.)
Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course introduces operating systems concepts, terminology, control language, and utilities. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2471 Control Language And Operating Environments (4)
(4 Lec.)
Prerequisite: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course introduces operating systems concepts, terminology, control language, and utilities. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2472 Assembly Language I (4)
(4 Lec.)
Prerequisite: Minimum of three credit hours in a programming language or demonstrated competence approved by the instructor. This course focuses on basic concepts and instructions using a current mainframe assembler language and structured programming techniques. Topics include decimal features, fixed point operations using registers, selected macro Instructions, introductory table concepts, editing printed output, and reading memory dumps. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2473 Assembly Language II (4)
(4 Lec.)
Prerequisite: Six credit hours in programming language courses or demonstrated competence approved by the instructor. This course covers the fundamentals of the C Programming language. Topics include structured programming and problem solving techniques. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2474 C Programming (4)
(4 Lec.)
Prerequisite: Six credit hours in programming language courses or demonstrated competence approved by the instructor. This course covers the fundamentals of the C Programming language. Topics include structured programming and problem solving techniques. Laboratory fee. (3 Lec., 4 Lab.)
CISC 2475 Microcomputer Assembly Language (4)
(Last year's course prefix/number CIS 215)
Prerequisite: Minimum of three credit hours in programming language courses or demonstrated competence approved by the instructor. The basic elements of the assembler language are introduced and structured programming and top-down design techniques are applied. Topics include architecture and machine definition, data description and other assembler pseudo-ops, logic and shift, arithmetic processing, table concepts, printing, string and screen processing, macro definition, and disk processing. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2476 Spreadsheet Applications (4)
(Last year's course prefix/number CIS 218)
Prerequisites: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. The course covers the theory and uses of electronic spreadsheets using commercially available packages. Topics include formula creation, template design, formatting features, statistical, mathematical and financial functions, file operations, report generation, graphics, and macro programming. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2478 PC Operating Systems And Utilities (4)
(Last year's course prefix/number CIS 221)
Prerequisites: Computer Information Systems 1470 and Computer Information Systems 1471 or demonstrated competence approved by the instructor. This course covers operating system concepts and includes data and memory management, the use of batch files, and "path techniques" to facilitate efficient use of secondary storage. Back-up techniques, operating system commands, and operating system enhancer programs and utilities will be analyzed. Laboratory fee. (3 Lec., 3 Lab.)

CISC 2479 Systems Analysis And Design (4)
(Last year's course prefix/number CIS 225)
Prerequisite: Minimum of six hours of programming language courses or demonstrated competence approved by the instructor. This course introduces and develops skills to analyze existing business systems, to design new systems using structured methodology, and to prepare documentation. Emphasis is on a case study involving all facets of systems analysis and design. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2480 PC Hardware (4)
(Last year's course prefix/number CIS 226)
Prerequisite: Credit or concurrent enrollment in Computer Information Systems 2478 or demonstrated competence approved by the instructor. This course presents a functional systems-level review of PC hardware and the organization of components and devices into architectural configurations. Students will learn how to prepare and evaluate system specifications, trouble-shoot minor hardware problems, configure and install hardware, manage memory, modify and patch short assembler language programs. Laboratory fee. (3 Lec., 3 Lab.)

CISC 2481 Database Applications (4)
(Last year's course prefix/number CIS 228)
Prerequisites: Minimum of nine credit hours in Computer Information Systems courses or demonstrated competence approved by the instructor. This course covers database management concepts using commercially available software. Topics include terminology, organizing data and designing files, report and menu generation, indexing, selection/queries, browsing, file operations, and program development. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2482 Data Base Systems (4)
(Last year's course prefix/number CIS 254)
Prerequisite: Minimum of nine credit hours in Computer Information Systems courses or demonstrated competence approved by the instructor. This course is an introduction to applications program development in a data base environment with emphasis on loading, modifying, and querying a data base. Topics include data base design, data management, and structured query language. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2483 Interactive Programming (4)
(Last year's course prefix/number CIS 258)
Prerequisites: Minimum of six credit hours of programming language courses or demonstrated competence approved by the instructor. This course introduces the concepts required to program on-line applications. Topics include on-line applications design, program coding techniques, testing methods, and file handling. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2484 Special Topics In Computer Information Systems (4)
(Last year's course prefix/number CIS 265)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Current developments in the rapidly changing field of computer information systems are studied. May be repeated as topics vary. Laboratory fee. (3 Lec., 4 Lab.)
CISC 2485 Network Problems And Applications (4)
(Implementation date for course prefix number CIS 267)
Prerequisites: Computer Information Systems 2471 and credit or concurrent enrollment in Computer Information Systems 2488, or demonstrated competence approved by the instructor. This course presents networking problems and applications associated with local area networks. Topics include integration of network resources, network/application interaction, hardware and software conflicts, technical documentation, LAN management, archiving and backup, and common network problems. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2486 Advanced C Programming (4)
(Implementation date for course prefix number CIS 268)
Prerequisite: Computer Information Systems 2474 or demonstrated competence approved by the instructor. This course continues a study of the C Programming language. Topics include linked lists, searching, tables, sorting, recursion, binary trees and graphs. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2487 Object Oriented Programming (4)
(Implementation date for course prefix number CIS 270)
Prerequisites: Minimum of three credit hours in programming courses or demonstrated competence approved by the instructor. This course presents the basic elements of object oriented design and development and object oriented programming. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2488 Network Hardware (4)
(Implementation date for course prefix number CIS 277)
Prerequisites: Computer Information Systems 2471 and credit or concurrent enrollment in Computer Information Systems 2480, or demonstrated competence approved by the instructor. This course presents networking hardware as applied to local area networks. Topics include IEEE 802 standards for LANS, LAN cabling, work stations, network interface cards, servers, bridges, gateways, routers, uninterruptible power supplies, surge and sag devices, and troubleshooting. Students will learn how to install, operate, maintain, and troubleshoot LAN hardware. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2489 Applied Studies (3)
(Implementation date for course prefix number CIS 281)
Prerequisites: Minimum of eighteen credit hours of PC-oriented Computer Information Systems courses including Computer Information Systems 2480 or demonstrated competence approved by instructor. This course applies PC analyst skills to business situations. Topics include planning and implementing solutions to business-related problems, incorporating student knowledge of hardware, software, applications packages, training, documentation, communication skills, and problem solving skills. Laboratory fee. (2 Lec., 3 Lab.)

CISC 2490 UNIX Operating System II (4)
(Implementation date for course prefix number CIS 292)
Prerequisites: Computer Information Systems 1480 or demonstrated competence approved by the instructor. This course continues the development of UNIX concepts and tools. Topics include advanced file system management, additional editors, text formatting, multi-tasking support and advanced shell programming. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2491 UNIX System Administration (4)
(Implementation date for course prefix number CIS 295)
Prerequisites: Computer Information Systems 1480 or demonstrated competence approved by the instructor. This course provides students with an introduction to UNIX systems administration. Topics include the administration of data communications, file systems, processes, operations, security and resources. In addition, system configuration and generation will be explored. Some network considerations will also be addressed. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2492 RPG Interactive Subfile Processing (4)
(Implementation date for course prefix number CIS 271)
Prerequisites: Computer Information Systems 1473, Computer Information Systems 1475, and Computer Information Systems 1478 or demonstrated competence approved by the instructor. The course continues the study of RPG/400. Topics include interactive processing using SDA with add, update and delete; subfile inquiry and update using READC; parameter passing, calling programs and LDA; programmer commands including FILE and DEBUG; INFDS, SDA, record locking, QCMD EXEC, message files and data structures. Laboratory fee. (3 Lec., 4 Lab.)

CISC 2493 Cooperative Work Experience (1)
(Implementation date for course prefix number CIS 701)
Prerequisite: Completion of two courses in the Computer Information Systems program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include job interview and application techniques, job site interpersonal relations, preparation of resumes, building self-esteem, setting and writing job objectives, time and stress management techniques, career interest/aptitude test, evaluation and planning, vendor presentation and professional development. (1 Lec., 5 Lab.)
CISC 7271 Cooperative Work Experience (2)  
(Last year's course prefix/number CIS 702)  
Prerequisite: Completion of two courses in the Computer Information Systems program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include job interview and application techniques, job site interpersonal relations, preparation of resumes, building self-esteem, setting and writing job objectives, time and stress management techniques, career interest/aptitude test, evaluation and planning, vendor presentation and professional development. (1 Lec., 10 Lab.)

CISC 7272 Cooperative Work Experience (2)  
(Last year's course prefix/number CIS 712)  
Prerequisite: Completion of one course in Computer Information Systems 7171, 7271, 7371, or 7471. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include setting and writing job objectives and directed independent studies of computer-related topics such as expert systems, new vendor products or presentation graphics. (1 Lec., 15 Lab.)

CISC 7371 Cooperative Work Experience (3)  
(Last year's course prefix/number CIS 703)  
Prerequisites: Completion of two courses in the Computer Information Systems program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include job interview and application techniques, job site interpersonal relations, preparation of resumes, building self-esteem, setting and writing job objectives, time and stress management techniques, career interest/aptitude test, evaluation and planning, vendor presentation and professional development. (1 Lec., 15 Lab.)

CISC 7372 Cooperative Work Experience (3)  
(Last year's course prefix/number CIS 713)  
Prerequisite: Completion of one course in Computer Information Systems 7171, 7271, 7371, or 7471. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include setting and writing job objectives and directed independent studies of computer-related topics such as expert systems, new vendor products or presentation graphics. (1 Lec., 15 Lab.)

CISC 7471 Cooperative Work Experience (4)  
(Last year's course prefix/number CIS 704)  
Prerequisites: Completion of two courses in the Computer Information Systems program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include job interview and application techniques, job site interpersonal relations, preparation of resumes, building self-esteem, setting and writing job objectives, time and stress management techniques, career interest/aptitude test, evaluation and planning, vendor presentation and professional development. (1 Lec., 20 Lab.)

CISC 7472 Cooperative Work Experience (4)  
(Last year's course prefix/number CIS 714)  
Prerequisite: Completion of one course in Computer Information Systems 7171, 7271, 7371, or 7471. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Student must develop new learning objectives each semester. The seminar consists of topics which include setting and writing job objectives and directed independent studies of computer-related topics such as expert systems, new vendor products or presentation graphics. (1 Lec., 20 Lab.)
COSC 1306 Introduction To Computer Organization (3)  
(This is a common course number. Last year's course prefix/number CS 221)  
Prerequisite: Computer Science 2318 or demonstrated competence approved by the instructor. This course introduces the organization and structuring of the major hardware components of computers, the mechanics of information transfer and control within a digital computer system, and the fundamentals of logic design. Laboratory fee. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1101015227)

COSC 1310 Introduction To BASIC Programming (3)  
(This is a common course number. Last year's course prefix/number CS 122)  
Prerequisite: Developmental Math 0093 or demonstrated competence approved by the instructor. This course is an introduction to the BASIC programming language. Topics include input/output, looping, decision structures, functions, arrays, disk files, and formatting. Emphasis is placed on structured programming techniques and algorithm development. Laboratory fee. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1102015127)

COSC 1315 Computing Science I (3)  
(This is a common course number. Last year's course prefix/number CS 113)  
Prerequisite: Two years of high school algebra or Developmental Math 0093 or demonstrated competence approved by the instructor. This introductory course is designed to meet the requirements for a four-year degree with a major or minor in computer science, mathematics, or a scientific field. This course will focus on problem-solving using modular design techniques implemented with structured programming in Pascal. Laboratory fee. (3 Lec., 1 Lab.)  
(Coordinating Board Academic Approval Number 1102015127)

COSC 1317 Introduction To FORTRAN Programming (3)  
(This is a common course number. Last year's course prefix/number CS 121)  
Prerequisite: Math 1316 or demonstrated competence approved by the instructor. This course is intended primarily for students pursuing a degree in an engineering, science, or related field which requires a one-semester course in FORTRAN programming. Emphasis is on the use of the FORTRAN language in technical applications. Topics include input/output, structures, and formatting. Laboratory fee. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1102015227)

COSC 1333 Introduction To PL/I Programming (3)  
(This is a common course number. Last year's course prefix/number CS 123)  
Prerequisites: Developmental Math 0093 and Computer Science 1315 or Computer Information Systems 1470 or demonstrated competence approved by the instructor. This course is an introduction to the PL/I programming language. Emphasis is placed upon the structured approach to program design using both mathematical and business applications. Topics include string processing, simple data structures, internal search/sort techniques, and sequential file processing. Laboratory fee. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1102015127)

COSC 2315 Introduction To File Processing (3)  
(This is a common course number. Last year's course prefix/number CS 222)  
Prerequisite: Computer Science 2318 or demonstrated competence approved by the instructor. This course introduces the concepts and techniques of structuring data. Experience is provided in the use of secondary storage devices and applications of data structures and file processing techniques. Laboratory fee. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1102015327)

COSC 2318 Computing Science II (3)  
(This is a common course number. Last year's course prefix/number CS 114)  
Prerequisites: Computer Science 1315 and Math 1314 or demonstrated competence approved by the instructor. This course is a continuation of Computer Science 1315 and is designed to meet the requirements for a degree in computer science or a related field. Topics covered include a continuation of Pascal programming, structured problem-solving, elementary data structures including arrays, records, files, and the use of pointer variables. Laboratory fee. (3 Lec., 1 Lab.)  
(Coordinating Board Academic Approval Number 1102015327)

COSC 2325 Assembly Language (4)  
(This is a common course number. Last year's course prefix/number CS 212)  
Prerequisite: Computer Science 2318 or demonstrated competence approved by the instructor. This course is designed to meet the requirements for a degree in computer science or a related field. Topics covered include a study of assembly language programming, machine representation of data and Instructions, and addressing techniques. Laboratory fee. (3 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 1102015427)
CONSTRUCTION MANAGEMENT AND TECHNOLOGY

CMGT 1270 The Construction Industry (2)
(Last year's course prefix/number CMT 133)
This course will introduce one to the challenging and complex world of commercial and industrial construction. It will profile the construction industry, define its organizational structure, discuss the implications and ramifications of current market trends, provide an overview of construction management methodologies and information systems. Interrelationships between architects, engineers, contractors, agencies, organizations, and trades will be discussed. (2 Lec.)

CMGT 1370 Construction Materials, Methods And Equipment I (3)
(Last year's course prefix/number CMT 121)
This course introduces construction materials, methods, and equipment. The origin, nature, and normal uses of materials are investigated. The integration of materials into finished projects is also covered. Laboratory fee. (2 Lec., 3 Lab.)

CMGT 1371 Construction Materials, Methods And Equipment II (3)
(Last year's course prefix/number CMT 122)
This course continues the study of construction materials, methods, and equipment. Laboratory fee. (2 Lec., 3 Lab.)

CMGT 1470 Construction Graphics (4)
(Last year's course prefix/number CMT 123)
Construction technology and construction graphic communications are introduced. The student learns to read blueprints and understand the expressed and implied meanings of symbols, conventions, and drawing. Freehand sketching and basic drafting required of construction supervisors are also included. (2 Lec., 6 Lab.)

CMGT 1471 Electrical And Mechanical Equipment For Buildings (4)
(Last year's course prefix/number CMT 124)
The nature and use of materials and equipment in various systems are explained. Included are plumbing, heating, ventilation, air conditioning, electrical, and conveying systems. (3 Lec., 3 Lab.)

CMGT 1472 Surveying And Measurements (4)
(Last year's course prefix/number CMT 138)
Prerequisites: Mathematics 1316 or 1375 and Engineering 1304 or Construction Management Technology 1470. This course focuses on plane surveying. Topics include surveying instruments, basic measuring procedures, vertical and horizontal control, error analysis, and computations. Traverse, triangulation, route alignments, centerings, profiles, mapping, route surveying and land surveying are included. Field work provides application of theory for students with little or no survey training. Laboratory fee. (3 Lec., 5 Lab.)

CMGT 1473 Construction Management I (4)
(Last year's course prefix/number CMT 138)
(3 Lec., 3 Lab.)

CMGT 2370 Construction Contracts And Specifications (3)
(Last year's course prefix/number CMT 231)
Prerequisites: Construction Management and Technology 1370, 1371 and 1470 or demonstrated competence approved by the instructor. Written construction communications are the focus of this course. Included is the study of construction contracts and specifications. Their preparation, implementation, modification, administration, and legal pitfalls are covered. Laboratory fee. (2 Lec., 3 Lab.)

CMGT 2371 Safety Management (3)
(Last year's course prefix/number CMT 232)
This course provides an in-depth study of the OSHA regulations which pertain to construction. Responsibilities and liabilities of all parties to construction contracts are addressed. Emphasis is placed on on-site safety management policies, procedures, and reports that are necessary to ensure a safe and healthy work site. Students completing this course will receive or update their CPR certification. Major historical events and developments leading to the enactment of the Occupational Safety and Health Act are also reviewed. (3 Lec., 1 Lab.)
CMGT 2372 Building Codes (3)
(Last year's course prefix/number CMT 235)
Using the Uniform Building Code as the textbook, this course presents the construction methods in relation to basic code and zoning requirements. The interrelationships between Federal, State, and municipal authorities and construction methodologies are examined in detail. (2 Lec., 2 Lab.)

CMGT 2373 Introduction To Construction Specification Writing (3)
(Last year's course prefix/number CMT 239)
This course will concentrate on the organization and preparation of written construction documents. Emphasis will be placed on further developing concepts initially covered in Construction Management & Technology 2370, as well as studying the development and application of master specifications, preliminary project descriptions, outline specifications, and both full, and abbreviated construction documents. Computer applications and automated editing procedures will also be demonstrated and applied. Laboratory fee. (2 Lec., 2 Lab.)

CMGT 2374 Advanced Construction Specification Writing (3)
(Last year's course prefix/number CMT 249)
This course will apply the principles and practices learned in Construction Management & Technology 2370 to the actual preparation and administration of written construction documents for a mock project from schematic phase through bidding. Emphasis will be placed on collecting, organizing, and applying information; researching products and systems; developing rough and final drafts for each type of specification. Methods for coordinating written documents with the drawings and the written documents of other team members will also be investigated. Laboratory fee. (2 Lec., 2 Lab.)

CMGT 2375 Specification Administration (3)
(Last year's course prefix/number CMT 279)
This course will develop administrative skills necessary for a specification writer to function in an office where multiple roles must be performed. Roles include: managing a technical library, maintaining data bases, performing cost budgeting, implementing a continuing education/quality assurance program, assisting in the bidding and construction phases, and archiving of documents. Laboratory fee. (2 Lec., 2 Lab.)

CMGT 2370 Advanced Surveying And Measurement (4)
(Last year's course prefix/number CMT 220)
Prerequisites: Mathematics 1375 and Construction Management Technology 1472 or the equivalent. This course reviews the basic principles of surveying and measurements. It covers advanced principles and theories of physical measurements of spatial quantities, theory of errors and error adjustment techniques, the use of modern instruments and measurement systems, vertical and horizontal control measurements and an introduction to land surveying law, application of polynomial curves and polar equations to the vertical and horizontal alignment of route systems. Field problems put the theory into practice. Laboratory fee. (3 Lec., 5 Lab.)

CMGT 2471 Quality Control And Cost Control (4)
(Last year's course prefix/number CMT 230)
Prerequisites: Construction Management Technology 1370 and 1371, or demonstrated competence approved by the instructor. The different procedures for scheduling construction projects are discussed then applied in lab exercises. Scheduling procedures to be explored include bar charts, precedence and arrow diagrams and the critical path method of scheduling. Methods and techniques for evaluating construction budget estimates and for locating and correcting budget overruns are discussed and then implemented in various lab exercises as a means of cost and quality control. (3 Lec., 3 Lab.)

CMGT 2472 Commercial Estimating (4)
(Last year's course prefix/number CMT 233)
Prerequisites: Construction Management Technology 1470 and credit or concurrent enrollment in Construction Management and Technology 2370 or demonstrated competence approved by the instructor. A study of the principles and theories of estimating including quantity take-off, labor and material units, classification of work are examined. Students learn to compute and assemble labor, material, and equipment costs. Job overhead, office overhead and profit strategies are examined. Computerized estimating procedures are introduced. Laboratory fee. (2 Lec., 6 Lab.)

CMGT 2473 Building Codes and Safety (4)
(Last year's course prefix/number CMT 236)
This course presents construction methods in relation to zoning and building codes and occupational safety standards and regulations. The interrelationships among federal, state and municipal authorities and construction operations are examined in detail. Emphasis is placed on the development and implementation of effective loss and accident prevention planning. (3 Lec., 3 Lab.)
CMGT 2475 Soils, Foundations And Reinforced Concrete (4)
(Last year’s course prefix/number CMT 237)
Prerequisites: Construction Management and Technology 1370 and 1371; Engineering 2270 desirable. Soil characteristics for a good foundation are studied. Topics include soil sampling and testing. Concrete design, placement, and testing are also covered. Some study of asphaltic pavements is included. Laboratory fee. (3 Lec., 3 Lab.)

CMGT 2476 Construction Management II (4)
(Last year’s course prefix/number CMT 238)
Prerequisite: Construction Management and Technology 1473. This course examines project planning and development. Topics include feasibility studies, financing, planning, programming, design, and construction. Office engineering techniques and problem-solving are covered. (3 Lec., 3 Lab.)

CMGT 7371 Cooperative Work Experience (3)
(Last year’s course prefix/number CMT 703)
Prerequisite: Completion of 30 hours in Construction Management & Technology Program or coordinator approval. This course will combine formal education with practical field experience. The CMGT program coordinator, employer, and student will develop a competency-based learning plan that will enhance the long-term objective of the student. The lecture portion of this course will include job interview techniques, resume preparation, interpersonal skills, and employer expectations of the employee. (1 Lec., 15 Lab.)

CMGT 7471 Cooperative Work Experience (4)
(Last year’s course prefix/number CMT 704)
Prerequisite: Completion of 30 hours in the Construction Management & Technology Program or coordinator approval. This course will combine formal education with practical field experience. The CMGT program coordinator, employer, and student will develop a competency-based learning plan that will enhance the long-term objective of the student. The lecture portion of this course will include job interview techniques, resume preparation, interpersonal skills, and employer expectations of the employee. (1 Lec., 20 Lab.)

ENGR 2270 Mechanics Of Structures (2)
(Last year’s course prefix/number EGR 290)
Prerequisite: Mathematics 1375. This is a basic course in engineering mechanics for technology students. It covers the principles of statics and strengths of materials. Topics include force systems, equilibrium, moments, centroids, elasticity, yield, stresses and strains. Methods analysis and design of bolted and welded joints, trusses, beams, and columns are introduced. Laboratory fee. (2 Lec., 2 Lab.)

CONSTRUCTION TECHNOLOGY

CNST 1170 Construction Safety (1)
(Last year’s course prefix/number CT 117)
This course covers safety and job site working conditions for the construction industry. Some of the topics include safety planning, safety and health standards, regulations and codes, record keeping and accident documentation, hazardous materials, safety equipment and drug usage on construction jobs. (1 Lec., 1 Lab.)

CNST 1171 Site Preparation And Layout (1)
(Last year’s course prefix/number CT 121)
Prerequisites: Construction Technology 1372 and 1170 or demonstrated competence approved by the instructor. This is the first of three courses on residential and light commercial foundations and will center on site layout, use of builder’s level and rod, locating building lines and erecting batter boards. Laboratory fee. (30 Contact Hours)

CNST 1172 Slabs On Grade (1)
(Last year’s course prefix/number CT 122)
Prerequisites: Construction Technology 1372, 1170 and 1171 or demonstrated competence approved by the instructor. This course will cover slabs on grade for residential and light commercial buildings. Topics covered include study of soils, construction of building slabs, curb and gutter, and edge forms. Laboratory fee. (30 Contact Hours)

CNST 1173 Low Wall Forms (1)
(Last year’s course prefix/number CT 123)
Prerequisites: Construction Technology 1372, 1170 and 1171 or demonstrated competence approved by the instructor. This course will cover low wall and low step forming. Topics covered include low form wall construction, basements, low stair forms and job planning with emphasis on job safety. Laboratory fee. (30 Contact Hours)

CNST 1175 Roof Systems (1)
(Last year’s course prefix/number CT 127)
Prerequisites: Construction Technology 1372, 1170 and 1270 or demonstrated competence approved by instructor. This course covers the construction of basic gable and equal span intersecting roofs. Topics include study of roof framing principles, planning, layout, installation of roof framing members, selection of materials and use of local building codes with emphasis on job safety. Laboratory fee. (30 Contact Hours)

CNST 1176 Wall And Ceiling Finish (1)
(Last year’s course prefix/number CT 131)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course will focus on insulation and ventilation, wall and ceiling finish, and paneling. Laboratory fee. (30 Contact Hours)
Topics include job planning, use of blueprints and specifications in determining types, styles and quantity required, and framing members for floors, walls, partitions, and basic components of a roof system. Laboratory fee. (30 Contact Hours)

CNST 1178 Trim And Millwork (1)
(Last year's course prefix/number CT 133)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers millwork, molding and specialty trim work and floor covering. Other topics include job planning, blueprints and specifications for use in determining material requirements. Laboratory fee. (30 Contact Hours)

CNST 1179 Engineering Principles (1)
(Last year's course prefix/number CT 136)
Prerequisites: Construction Technology 1370 and Math 1374 or demonstrated competence approved by the instructor. This course covers the basic principles of building engineering design. Topics include forces and stress, moments and reactions, shear and bending moments, and theory of bending and properties of sections. (1 Lec.)

CNST 1180 Leveling And The Builder's Level (1)
(Last year's course prefix/number CT 146)
Prerequisites: Construction Technology 1372 and 1170 or demonstrated competence approved by the instructor. This course focuses on measuring distances and the practical uses of the builder's level used in the construction of a building. Topics covered include measuring horizontal and vertical distances, errors and accuracy in measuring, leveling equipment and field set up, differential leveling, cut and fill, contours and slopes, drainage and grading, establishing grades for form work, and piers and inserts. Use of drawings and leveling equipment will be covered. Laboratory fee. (1 Lec., 1 Lab.)

CNST 1270 Framing (2)
(Last year's course prefix/number CT 126)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by instructor. This course focuses on the basics of rough framing for residential and light commercial buildings. The topics covered include planning, layout and installation of rough framing members for floors, walls, partitions, and basic components of a roof system. Laboratory fee. (60 Contact Hours)

CNST 1271 Engineering Practices (2)
(Last year's course prefix/number CT 137)
Prerequisites: Construction Technology 1370 and 1179 and Math 1374 or demonstrated competence approved by instructor. This course covers the basic engineering most commonly used in planning residential and light commercial buildings. Topics include soils, concrete, steel, wood, and trusses. Emphasis will be placed on using charts and tables to determine loads and sizing of various materials. Laboratory fee. (1 Lec., 2 Lab.)

CNST 1272 Basic Estimating (2)
(Last year's course prefix/number CT 141)
Prerequisites: Construction Technology 1370 and 1372 or demonstrated competence approved by the instructor. This course focuses on the basics of cost estimating. Topics include essential mathematics, estimating cycle, data sources, checklists, blueprints and specifications, estimating formats and bids, contracts, bonds, insurance, overhead and contingencies, labor and equipment checklists. (2 Lec.)

CNST 1273 Residential Estimating (2)
(Last year's course prefix/number CT 142)
Prerequisites: Construction Technology 1370, 1372 and 1272 and Math 1374 or demonstrated competence approved by the instructor. This course develops a bid package for a residential and/or light commercial building using skills developed in Construction Technology 1272. Topics include construction techniques, residential estimating cycle, residential data sources and use, checklists, and detailed and unit quantity estimating methods. The emphasis in this course will be on developing a bid package for a residential and/or light commercial building. Laboratory fee. (1 Lec., 1 Lab.)

CNST 1274 Field Layout And The Transit (2)
(Last year's course prefix/number CT 147)
Prerequisites: Construction Technology 1370, 1372 and 1180 and Math 1374 or demonstrated competence approved by the instructor. This course covers the use of the transit in building layout. Topics covered include a study of various types of transits and their care and use, measuring and turning angles, using land surveys, field notes, setting line and grade, establishing control points, setting curves, and establishing building points. Laboratory fee. (1 Lec., 2 Lab.)

CNST 1370 Construction I-Systems And Materials (3)
(Last year's course prefix/number CT 110)
This course is a study of the different types of building systems and materials used in the design and construction of residential and commercial buildings. Different structural building systems will be studied, and wood-related products, concrete and concrete masonry, brick, stone, and steel units are included. (3 Lec.)
CNST 1371 Construction II-Mechanical, Electrical, And Plumbing Systems (3)
(Last year's course prefix/number CT 111)
Prerequisite: Construction Technology 1370 or demonstrated competence approved by the instructor. This course is a study of the mechanical and electrical systems used in modern buildings of today. Topics that will be covered include the basic understanding of how electrical, heating, air conditioning, and plumbing systems work and how they are designed for residential and light commercial buildings. (3 Lec.)

CNST 1372 Blueprint Reading/Specifications (3)
(Last year's course prefix/number CT 119)
The course covers the theory of projection, architectural symbols, relationship of views and measurements, plan and elevation views, sections and details. Also included are terms, specifications, and abbreviations used in reading residential and light commercial building blueprints. (3 Lec.)

CNST 1373 Commercial Blueprints/Specifications (3)
(Last year's course prefix/number CT 116)
Prerequisites: Construction Technology 1370 and 1372 or demonstrated competence approved by the instructor. This course covers commercial building blueprints and specifications. Topics covered include masonry wall, reinforced concrete, prestressed concrete, tilt-up, steel-frame stairs, and elevators. (3 Lec.)

CNST 1374 Codes and Inspections I (3)
(Last year's course prefix/number CT 118)
Prerequisite: Construction Technology 1370 or demonstrated competence approved by the instructor. This course considers inspection procedures and codes. Topics covered include basic code requirements, use of standards in developing codes, model codes, role of the federal government, office and field operations, and building permits. Using the Uniform and Southern Building Codes as enforcement guides, the course reviews residential and light commercial building and minimum property standards. (3 Lec.)

CNST 1375 Foundations I (3)
(Last year's course prefix/number CT 120)
Prerequisites: Construction Technology 1372 and 1170. This course is a comprehensive course that includes Construction Technology 1171, 1172, and 1173. Students may register in the comprehensive course or the inclusive courses. This course covers the construction of foundations for residential and light commercial buildings. Topics studied are builder's level and rod, site preparation for forms on grade, footings, pilers and low wall foundations, flat work, curbing and low steps. Laboratory fee. (90 Contact Hours)

CNST 1376 Finish Systems I (3)
(Last year's course prefix/number CT 130)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 1176, 1177 and 1178. Students may register in the comprehensive course or the inclusive courses. This course focuses on the completion of the interior finish work performed on residential and small commercial buildings. Main topics covered include insulation and ventilation, drywall and wall finish, flooring, paneling, doors and hardware, and molding and trim work. Laboratory fee. (90 Contact Hours)

CNST 1377 Cabinetry And Millwork (3)
(Last year's course prefix/number CT 134)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers cabinet design, construction, and detailed millwork. Topics include cabinet design and installation, built-in cabinetry and paneling, cost and drawings. Laboratory fee. (90 Contact Hours)

CNST 1378 Engineering Principles And Practices (3)
(Last year's course prefix/number CT 135)
Prerequisites: Construction Technology 1370 and Math 1374 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 1179 and 1271. Students may register in the comprehensive course or the inclusive courses. This course is an overall study in the correct use of structural materials. Special emphasis is placed on the use of specification tables, technical manuals, and load tables for building systems and materials. Topics covered are structural mechanics, steel, wood, reinforced concrete, and roof trusses. Residential and both light and heavy commercial building structures will be studied. Laboratory fee. (2 Lec., 2 Lab.)

CNST 1379 Job Site Foreman-Supervision (3)
(Last year's course prefix/number CT 138)
This course introduces job site techniques which are important to good supervision. Topics covered include supervisor's role, leadership, motivation, communications, training for production, planning, and organizing. This course was developed as a comprehensive training program for job site foremen. Laboratory fee. (2 Lec., 1 Lab.)
CNST 1380 Estimating I (3)
(Last year's course prefix/number CT 140)
Prerequisites: Construction Technology 1370 and 1372 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 1272 and 1273. This course is designed to train the construction worker in the preparation of cost estimates for residential and light commercial structures. Topics include mathematics, construction techniques, estimating cycle, data sources and use, checklists, and detailed and unit quantity estimating methods. The emphasis in this course will be on establishing material requirements using residential and light commercial blueprints. Laboratory fee. (3 Lec., 1 Lab.)

CNST 1381 Building Design (3)
(Last year's course prefix/number CT 143)
Prerequisites: Construction Technology 1370 and 1372 or demonstrated competence approved by the instructor. This course introduces basic design principles as applied to building construction, architectural style, land, and site planning. Topics covered include plan analysis, modular design, restrictions and legal aspects of the lot, site layout, architectural styles and basic components, technological advances in new material and methods, and choosing the most appropriate basic structure. (3 Lec.)

CNST 1382 Field Surveying (3)
(Last year's course prefix/number CT 145)
Prerequisites: Construction Technology 1370 and 1372 and Math 1374 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 1180 and 1274. Students may register in the comprehensive course or the inclusive courses. This course covers proper methods of measuring distances, the builder's level and rod, and building layout using the transit. Topics covered include taping, builder's level and rod, cut and fill, differential leveling, use of various types of transits and methods of building layout, turning angles, and establishing control points using construction blueprints. Laboratory fee. (2 Lec., 3 Lab.)

CNST 1383 Building Construction I (3)
(Last year's course prefix/number CT 125)
Prerequisites: Construction Technology 1372 and 1170 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 1270 and 1175. Students may register in the comprehensive course or the inclusive courses. This course covers the basics of rough framing for residential and light commercial buildings. Topics include safety, equipment required, job planning, floor, wall, ceiling and roof framing systems. Laboratory fee. (90 Contact Hours)

CNST 2170 Commercial Estimating (1)
(Last year's course prefix/number CT 219)
Prerequisites: Construction Technology 1370, 1372 and 1380 or demonstrated competence approved by the instructor. This course will cover the estimating process and focus on commercial bidding. Topics included are estimating techniques, organization, completion of bid forms, cost analysis, cost control, overhead cost control, cost comparisons, and bidding using commercial blueprints. Laboratory fee. (1 Lec., 1 Lab.)

CNST 2171 Walls And Columns (1)
(Last year's course prefix/number CT 221)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers construction of form work for high walls, vertical pier and column forms and scaffolding. Laboratory fee. (30 Contact Hours)

CNST 2172 Suspended Slabs And Beams (1)
(Last year's course prefix/number CT 222)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers construction of horizontal beam and suspended slab forming systems. Also included are topics on job planning, material selection and storage, and scaffolding with an emphasis on safety. Laboratory fee. (30 Contact Hours)

CNST 2173 Specialty Forms And Stairs (1)
(Last year's course prefix/number CT 223)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course will cover tilt-up and pre-cast building, flying forms and stair forms. Other topics covered are planning, materials selection and storage, and scaffolding with an emphasis on safety. Laboratory fee. (30 Contact Hours)

CNST 2174 Advanced Roof Systems (1)
(Last year's course prefix/number CT 226)
Prerequisites: Construction Technology 1372, 1170 and 1175 or demonstrated competence approved by the instructor. This course will continue the study of roof systems already begun in Construction Technology 1175. Topics covered include unequal span intersecting roofs, hip roofs, dormers, skylights and structural timber framing. Emphasis will be placed on job planning and safety. Laboratory fee. (30 Contact Hours)

CNST 2175 Exterior Finish I (1)
(Last year's course prefix/number CT 227)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course introduces completion of the exterior trim work. Topics covered include roof trim and cornice work, exterior doors and windows. Laboratory fee. (30 Contact Hours)
CNST 2176 Exterior Finish II (1)
(Second year's course prefix/number CT 228)
Prerequisites: Construction Technology 1370, 1170 and 2175 or demonstrated competence approved by the instructor. This course focuses on completion of the exterior wall and roof finish work. Topics covered include roof covering and methods, masonry, stucco and wood wall finish systems, and job planning. Laboratory fee. (30 Contact Hours)

CNST 2270 Contemporary Topics in Construction (2)
(Second year's course prefix/number CT 251)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. Laboratory fee. (1 Lec., 1 Lab.)

CNST 2177 Metal Studs and Suspended Ceilings (1)
(Second year's course prefix/number CT 231)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers metal stud framing and wall finish treatments for commercial buildings. Topics include metal stud framing, factory built partitions, and suspended ceiling systems. Laboratory fee. (30 Contact Hours)

CNST 2178 Commercial Doors and Hardware (1)
(Second year's course prefix/number CT 232)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by the instructor. This course covers commercial doors, hardware and specialty fixtures. Topics include commercial doors and metal jambs, finish hardware, store fixtures, factory-built cabinets and laminates. Laboratory fee. (30 Contact Hours)

CNST 2179 Stair Building (1)
(Second year's course prefix/number CT 233)
Prerequisites: Construction Technology 1370, 1372 and 1170 or demonstrated competence approved by instructor. This course covers the construction and installation of interior stairs. Topics covered include stair types and parts, wood and metal stairs, layout and installation of job and factory-built stairs, building codes, and blueprints. Laboratory fee. (30 Contact Hours)

CNST 2180 Contemporary Topics in Construction (1)
(Second year's course prefix/number CT 250)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (1 Lec.)

CNST 2181 Special Projects in Construction Technology (1)
(Second year's course prefix/number CT 255)
Prerequisite: Will vary based on projects covered and will be annotated in each semester's schedule. Current developments in the field of construction will be developed. May be repeated when topics vary. (30 Contact Hours)

CNST 2370 Commercial Systems, Materials, and Equipment (3)
(Second year's course prefix/number CT 212)
Prerequisites: Construction Technology 1370, 1372 and 1373 or demonstrated competence approved by the instructor. This course focuses on systems and materials used in commercial buildings. Topics covered are heavy masonry, prestressed and precast concrete, structural steel, glass curtain walls, elevators, and interior wall and exterior finish materials. (3 Lec.)

CNST 2371 Codes and Inspections II (3)
(Second year's course prefix/number CT 213)
Prerequisites: Construction Technology 1370, 1372, 1373, 1374 and 2370 or demonstrated competence approved by the instructor. This course continues the study of building codes and inspections centering on commercial building. Topics include local building codes, enforcement, testing labs, job site testing and inspections by private testing companies. (3 Lec.)

CNST 2372 Reinforced Concrete and Steel-Frame Structures (3)
(Second year's course prefix/number CT 215)
Prerequisites: Construction Technology 1373, 1179 and 2370 and Math 1374 or demonstrated competence approved by the instructor. This course applies Construction Technology 1179 skills in an in-depth study of reinforced concrete and steel frame construction. Topics include soils, reinforcing steel, properties of concrete and steel, limitations, design methods, codes, flexure and shear in concrete and steel beams, anchors and connectors, and columns and piers, with the emphasis placed on commercial structures. Laboratory fee. (2 Lec., 2 Lab.)

CNST 2373 Building and Contracting (3)
(Second year's course prefix/number CT 216)
Prerequisites: Construction Technology 1370 and 1372 and Business 1301. This course covers the basic process of organizing and operating a building or contracting business. Topics covered include establishing goals, organization, directing, staffing, coordinating and controlling, and budgeting required to operate and make a profit in a construction business. (3 Lec.)
CNST 2374 Computerized Estimating (3)
(Last year’s course prefix/number CT 218)
Prerequisites: Construction Technology 1370, 1380 and
Math 1374 or demonstrated competence approved by the
instructor. This course covers computerized estimating
principles and applications for the construction industry.
Topics covered include DOS commands, applications to
estimating and bid analysis, spreadsheets, job tracking,
commercial software packages. A cost estimate will be
developed during course to demonstrate varied concepts.
Laboratory fee. (2 Lec., 2 Lab.)

CNST 2375 Foundations II (3)
(Last year’s course prefix/number CT 220)
Prerequisites: Construction Technology 1370, 1372 and
1170 or demonstrated competence approved by the in-
structor. This course is a comprehensive course that
includes Construction Technology 2171, 2172 and 2173.
Students may register in the comprehensive course or the
inclusive courses. This course covers commercial founda-
tion layout and forming systems. Topics covered include
scaffolding and shoring, low and high wall forms, vertical
piers and columns, horizontal beam forms, suspended
slabs, stair forms, tilt-up, pre-cast construction and flying
forms. Laboratory fee. (90 Contact Hours)

CNST 2376 Building Construction II (3)
(Last year’s course prefix/number CT 225)
Prerequisites: Construction Technology 1370, 1372 and
1170 or demonstrated competence approved by the in-
structor. This course is a comprehensive course that
includes Construction Technology 2174, 2175 and 2176.
Students may register in the comprehensive course or the
inclusive courses. This course will continue wood framing
with advanced concepts in the construction of various types
of roofs and exterior wall and roof finish systems. Topics
include selection and installation of exterior doors and
windows and trim. Exterior finish systems such as wall
coverings, roofing, and cornice will be applied to the various
styles of buildings and roof styles. Laboratory fee. (90 Con-
tact Hours)

CNST 2377 Finish Systems II (3)
(Last year’s course prefix/number CT 230)
Prerequisites: Construction Technology 1370, 1372 and
1170 or demonstrated competence approved by the in-
structor. This course is a comprehensive course that
includes Construction Technology 2177, 2178 and 2179.
Students may register in the comprehensive course or the
inclusive courses. This course covers interior finish of
commercial buildings. Included are store fronts, metal stud
framing, wall finish systems, movable partitions, dropped
and suspended ceiling systems, specialty fixtures and
hardware, and stair construction. Laboratory fee. (90 Con-
tact Hours)

CNST 2378 Field Supervision I (3)
(Last year’s course prefix/number CT 235)
This course covers human relations and how to develop
motivation on the job site. Topics include written and oral
communications, leadership and motivation, problem solv-
ing and decision making. Laboratory fee. (90 Contact
Hours)

CNST 2379 Field Supervision II (3)
(Last year’s course prefix/number CT 240)
This course covers areas from contract documents, plan-
ning and scheduling, along with cost awareness and
production control. Topics covered include document in-
formation and construction decisions, peripheral
documents, large project CPM, production control, work
and cost analysis. Laboratory fee. (90 Contact Hours)

CNST 2380 Field Supervision III (3)
(Last year’s course prefix/number CT 245)
This course covers safety and loss control, project
management, construction law, and productivity improve-
ment. Topics covered include project layout start-up,
OSHA, reading a construction contract, contract and con-
struction law, and documentation of project activities.
Laboratory fee. (90 Contact Hours)

CNST 2381 Contemporary Topics In
Construction (3)
(Last year’s course prefix/number CT 252)
Prerequisite: Will vary based on topics covered and will be
annotated in each semester’s schedule. Recent develop-
ments and topics of current interest are studied. May be
repeated when topics vary. (3 Lec.)

CNST 2382 Special Topics In Construction
Technology (3)
(Last year’s course prefix/number CT 253)
Prerequisite: Will vary based on topics covered and will be
annotated in each semester’s schedule. Current develop-
ments in the field of construction are studied. May be
repeated when topics vary. Laboratory fee. (2 Lec., 2 Lab.)

CNST 2383 Special Projects In Construction
Technology (3)
(Last year’s course prefix/number CT 256)
Prerequisite: Will vary based on project covered and will be
annotated in each semester’s schedule. Current develop-
ments in the field of construction will be developed. May be
repeated when topics vary. Laboratory fee. (90 Contact
Hours)
CNST 2470 Estimating II (4)
(Last year's course prefix/number CT 217)
Prerequisites: Construction Technology 1370, 1372 and 1380 or demonstrated competence approved by the instructor. This course is a comprehensive course that includes Construction Technology 2374 and 2170. This course covers computerized estimating principles and applications for the construction industry and focuses on a commercial estimate. Topics covered include DOS commands, spreadsheets, job tracking, commercial software packages, commercial estimating techniques and organization, cost analysis and cost control, overhead cost control, cost comparisons, and development of a bid package. Laboratory fee. (3 Lec., 3 Lab.)

CNST 2471 Special Topics In Construction Technology (4)
(Last year's course prefix/number CT 254)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Current developments in the field of construction are studied. May be repeated when topics vary. Laboratory fee. (3 Lec., 3 Lab.)

CNST 7371 Cooperative Work Experience (3)
(Last year's course prefix/number CT 703)
Prerequisites: Completion of two courses in the Construction Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of topics which include job interview and job application techniques, job site interpersonal relations, and employer expectations of employees. (1 Lec., 15 Lab.)

CNST 7372 Cooperative Work Experience (3)
(Last year's course prefix/number CT 713)
Prerequisites: Completion of two courses in the Construction Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, changing jobs, supervising subordinates, and building self-esteem. (1 Lec., 15 Lab.)

DANCE

DANC 1101 Introduction to Composition I (1)
(This is a common course number. Last year's course prefix/number DAN 234)
Prerequisite: Demonstrated competence approved by the instructor. Development of basic principles and theories involved in composition are studied. Emphasis is placed on movement principles, group and structural forms. This course may be repeated for credit. (2 Lab.) (Coordinating Board Academic Approval Number 5003015530)

DANC 1102 Introduction to Composition II (1)
(This is a common course number. Last year's course prefix/number DAN 235)
Prerequisites: Dance 1101 and demonstrated competence approved by the instructor. This course is a continuation of Dance 1101. This course may be repeated for credit. (2 Lab.) (Coordinating Board Academic Approval Number 5003015530)

DANC 1112 Coaching and Repertoire (1)
(This is a common course number. Last year's course prefix/number DAN 252)
Prerequisite: Demonstrated competence approved by the Instructor. Variations (male and female) and pas de deux from standard ballet repertoire are studied and notated. The dancer is given individual coaching, with special attention given to the correction of problems. This course may be repeated for credit. Laboratory fee. (2 Lab.) (Coordinating Board Academic Approval Number 5003015230)
DANC 1113 Improvisation (1)
(Thia is a common course number. Last year’s course prefix/number DAN 253)
Prerequisite: Dance 1148 or 1242. This course consists of creative problem-solving utilizing basic elements of design. This course may be repeated for credit. Laboratory fee. (2 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1147 Jazz I (1)
(Thia is a common course number. Last year’s course prefix/number DAN 155)
The basic skills of jazz dance are introduced. Emphasis is on technique and development, rhythm awareness, jazz styles, and rhythmic combinations of movement. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1148 Jazz II (1)
(Thia is a common course number. Last year’s course prefix/number DAN 156)
Prerequisite: Dance 1147 or demonstrated competence approved by the instructor. Work on skills and style in jazz dance is continued. Technical skills, combinations of steps and skills into dance patterns, and exploration of composition in jazz form are emphasized. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1151 Rehearsal and Performance (1)
(Thia is a common course number. Last year’s course prefix/number DAN 116)
This course supplements beginning dance technique classes. Basic concepts of approaching work on the concert stage—stage directions, stage areas, and the craft involved in rehearsing and performing are emphasized. This course may be repeated for credit. (4 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1152 Rehearsal and Performance (1)
(Thia is a common course number. Last year’s course prefix/number DAN 200)
Prerequisite: Dance 1151 or demonstrated competence approved by the instructor. This course supplements intermediate dance technique classes. It is a continuation of Dance 1151 with emphasis on more advanced concepts as they apply to actual rehearsals and performances. This course may be repeated for credit. (4 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1241 Beginning Ballet I (2)
(Thia is a common course number. Last year’s course prefix/number DAN 161)
This course explores basic ballet techniques. Included are posture, balance, coordination, rhythm, and flow of physical energy through the art form. Theory, terminology, ballet history, and current attitudes and events in ballet are also studied. Barre exercises and center floor combinations are given. Laboratory fee. (1 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1242 Beginning Ballet II (2)
(Thia is a common course number. Last year’s course prefix/number DAN 163)
Prerequisite: Dance 1241. This course is a continuation of Dance 1241. Emphasis is on expansion of combinations at the barre. Connecting steps learned at center are added. Jumps and pirouettes are introduced. Laboratory fee. (1 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1245 Beginning Contemporary Dance I (2)
(Thia is a common course number. Last year’s course prefix/number DAN 165)
This course explores basic contemporary techniques. Emphasis is on technique development, and familiarity with contemporary meters and rhythms. An awareness of major influences on concert dance is developed. Laboratory fee. (1 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1246 Beginning Contemporary Dance II (2)
(Thia is a common course number. Last year’s course prefix/number DAN 166)
Prerequisite: Dance 1245. This course continues and further develops an exploration of Dance 1245. Laboratory fee. (1 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1345 Beginning Dance Technique In Theatre (3)
(Thia is a common course number. Last year’s course prefix/number THE 112)
Basic movements of the dance are explored. Emphasis is on swing movements, circular motion, fall and recovery, contraction and release, and contrast of literal and abstract movements. Body balance, manipulation of trunk and limbs, and the rhythmic flow of physical energy are developed. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 1346 Intermediate Dance (3)
(Thia is a common course number. Last year’s course prefix/number THE 113)
Prerequisite: Dance 1345 or demonstrated competence approved by the instructor. Various aspects of dance are surveyed. Topics include the role of dance in total theatre, the evolution of dance styles, and the jazz style. Emphasis is on the flow of movement, body placement, dynamic intensity, level, focus, and direction. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)

DANC 2147 Jazz III (1)
(Thia is a common course number. Last year’s course prefix/number DAN 255)
Prerequisite: Dance 1148. This course consists of the development of proper performance framing. Complex jazz rhythms, turns, jumps, and intricate elements of choreography are introduced. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 5003015230)
DANC 2148 Jazz IV (1)  
(This is a common course number. Last year’s course prefix/number: DAN 256)  
Prerequisite: Dance 2147. This course is a further exploration of Dance 2147. This course may be repeated for credit. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 5003015230)

DANC 2241 Intermediate Ballet I (2)  
(This is a common course number. Last year’s course prefix/number: DAN 258)  
Prerequisite: Dance 1242. The development of ballet techniques is continued. More complicated exercises at the barre and center floor are included. Emphasis is on long series of movements, adagio and jumps. Precision of movement is stressed. Laboratory fee. (1 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 5003015230)

DANC 2242 Intermediate Ballet II (2)  
(This is a common course number. Last year’s course prefix/number: DAN 260)  
Prerequisite: Dance 2241. This course begins pointe work for women. Specialized beats and tour are begun for men. Individual proficiency and technical virtuosity are developed. This course may be repeated for credit. Laboratory fee. (1 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 5003015230)

DANC 2245 Intermediate Contemporary Dance I (2)  
(This is a common course number. Last year’s course prefix/number: DAN 265)  
Prerequisite: Dance 1246. This course consists of the development of complex falls, combinations, phrasing, and dramatic emphasis. Laboratory fee. (1 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 5003015230)

DANC 2246 Intermediate Contemporary Dance II (2)  
(This is a common course number. Last year’s course prefix/number: DAN 266)  
Prerequisite: Dance 2245. This course is a further exploration of Dance 2245. This course may be repeated for credit. Laboratory fee. (1 Lec., 3 Lab.)  
(Coordinating Board Academic Approval Number 5003015230)

DANC 2303 Dance Appreciation (3)  
(This is a common course number. Last year’s course prefix/number: DAN 160)  
The cultural, historical and aesthetic qualities of dance are presented through lectures, films, videos, demonstrations and dance productions. Primitive, classical and contemporary dance forms are included. (3 Lec.)  
(Coordinating Board Academic Approval Number 5003015430)

DEVELOPMENTAL COLLEGE LEARNING SKILLS

DCLS 0100 College Learning Skills (1)  
(Last year’s course prefix/number: CLS 100)  
This course is for students who wish to extend their learning skills for academic or career programs. Individualized study and practice are provided in reading, study skills, and composition. This course may be repeated for a maximum of three credits. TASP remediation and/or preparation may be included. Students may enroll in up to three different sections of CLS during one semester. (1 Lec.)  
(Coordinating Board Academic Approval Number 3201015235)

DEVELOPMENTAL COMMUNICATIONS

DCOM 0095 Communication Skills (3)  
(Last year’s course prefix/number: DC095)  
This course focuses on strengthening language communications. Topics include grammar, paragraph structure, reading skills, and oral communication. Emphasis is on individual testing and needs. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108511371)

DCOM 0120 Communication Skills (3)  
(Last year’s course prefix/number: DC 120)  
This course is for students with significant communication problems. It is organized around skill development, and students may enroll at any time (not just at the beginning of a semester) upon the referral of an instructor. Emphasis is on individual needs and personalized programs. Special attention is given to oral language. Contacts are made with other departments to provide other ways of learning for the students. (2 Lec., 2 Lab.)  
(Coordinating Board Academic Approval Number 320108511371)

DEVELOPMENTAL LEARNING

DEVELOPMENTAL MATHEMATICS

DMAT 0060 Basic Mathematics I (1)
(Last year's course prefix/number OM060)
This course is designed to give an understanding of fundamental operations. Selected topics include whole numbers, decimals, and ratio and proportions. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0061 Basic Mathematics II (1)
(Last year's course prefix/number OM061)
This course is designed to give an understanding of fractions. Selected topics include primes, factors, least common multiples, percents, and basic operations with fractions. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0062 Pre Business (1)
(Last year's course prefix/number OM062)
This course is designed to introduce students to business mathematics. Selected topics include discounts and commissions, interest, metric and English measuring systems, areas, and volumes. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0063 Pre Algebra (1)
(Last year's course prefix/number OM063)
This course is designed to introduce students to the language of algebra, with such topics as integers, metrics, equations, and properties of counting numbers. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0064 Mathematics For Nursing I (1)
(Last year's course prefix/number OM064)
This course is designed to develop an understanding of the measurements and terminology in medicine and calculations involving conversions of applicable systems of measurement. It is designed primarily for students in all nursing programs. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0065 Mathematics For Nursing II (1)
(Last year's course prefix/number OM065)
Prerequisite: Developmental Mathematics 0064. This course includes medical calculations used in problems dealing with solutions and dosages. It is designed primarily for students in the nursing programs. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0070 Elementary Algebra I (1)
(Last year's course prefix/number OM070)
Prerequisites: Developmental Mathematics 0090, 0063, or equivalent. This course is an introduction to algebra and includes selected topics such as basic principles and operations of sets, counting numbers, and integers. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0071 Elementary Algebra II (1)
(Last year's course prefix/number OM071)
Prerequisite: Developmental Mathematics 0070 or equivalent. This course includes selected topics such as rational numbers, algebraic polynomials, factoring, and algebraic fractions. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0072 Elementary Algebra III (1)
(Last year's course prefix/number OM072)
Prerequisite: Developmental Mathematics 0071 or equivalent. This course includes selected topics such as fractional and quadratic equations, quadratic equations with irrational solutions, and systems of equations involving two variables. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0073 Introduction To Geometry (1)
(Last year's course prefix/number OM073)
This course introduces principles of geometry. Axioms, theorems, axiom systems, models of such systems, and methods of proof are stressed. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0080 Intermediate Algebra I (1)
(Last year's course prefix/number OM080)
Prerequisites: Developmental Mathematics 0071, 0091 or equivalent. This course includes selected topics such as systems of rational numbers, real numbers, and complex numbers. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0081 Intermediate Algebra II (1)
(Last year's course prefix/number OM081)
Prerequisite: Developmental Mathematics 0080 or equivalent. This course includes selected topics such as sets, relations, functions, inequalities, and absolute values. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0082 Intermediate Algebra III (1)
(Last year's course prefix/number OM082)
Prerequisite: Developmental Mathematics 0081 or equivalent. This course includes selected topics such as graphing, exponents, and factoring. (1 Lec.)
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0090 Pre Algebra Mathematics (3)
(Last year's course prefix/number OM090)
This course is designed to develop an understanding of fundamental operations using whole numbers, fractions, decimals, and percentages and to strengthen basic skills in mathematics. The course is planned primarily for students who need to review basic mathematical processes. This is the first three-hour course in the developmental mathematics sequence. (3 Lec.)
(Coordinating Board Academic Approval Number 3201045137)
DMAT 0091 Elementary Algebra (3)  
(Last year’s course prefix/number DM 091)  
Prerequisite: Developmental Mathematics 0090 or an appropriate assessment test score. This is a course in introductory algebra which includes operations on real numbers, polynomials, special products and factoring, rational expressions, and linear equations and inequalities. Also covered are graphs, systems of linear equations, exponents, roots, radicals, and quadratic equations. (3 Lec.)  
(Coordinating Board Academic Approval Number 3201045137)

DMAT 0093 Intermediate Algebra (3)  
(Last year’s course prefix/number DM 093)  
Prerequisite: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 0091. This course includes further development of the terminology of sets, operations on sets, properties of real numbers, polynomials, rational expressions, linear equations and inequalities, the straight line, systems of linear equations, exponents, roots, and radicals. Also covered are products and factoring, quadratic equations and inequalities, absolute value equations and inequalities, relations, functions, and graphs. (3 Lec.)  
(Coordinating Board Academic Approval Number 3201045137)

DEVELOPMENTAL READING  
Students can improve their academic success by taking the appropriate reading courses. For an assessment of which course to begin with, talk with a reading faculty member or a counselor.

DREA 0090 Developmental Reading (3)  
(Last year’s course prefix/number DR 090)  
This course presents basic reading comprehension and vocabulary skills. Basic study skills are introduced. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108521371)

DREA 0091 Developmental Reading (3)  
(Last year’s course prefix/number DR 091)  
This course continues the development of reading comprehension and vocabulary skills. Study skills are also included. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108521371)

DREA 0093 Developmental Reading (3)  
(Last year’s course prefix/number DR 093)  
This course offers further development of reading comprehension, vocabulary, and study skills. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108521371)

DEVELOPMENTAL WRITING  
Students can improve their writing skills by taking Developmental Writing. These courses are offered for three hours of credit.

DWRI 0090 Developmental Writing (3)  
(Last year’s course prefix/number DW 090)  
This course introduces the writing process. Course topics include practice in getting ideas, writing and rewriting, making improvements, and correcting mistakes. A learning lab is available to provide additional assistance. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108531371)

DWRI 0091 Developmental Writing (3)  
(Last year’s course prefix/number DW 091)  
This course focuses on the writing process. Course topics include inventing, drafting, revising, and editing multi-paragraph papers. Building reading skills, using resources, developing thinking skills, and improving attitudes toward writing comprise other course topics. A learning lab is available to provide additional assistance. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108531371)

DWRI 0093 Developmental Writing (3)  
(Last year’s course prefix/number DW 093)  
This course refines student writing skills in inventing, drafting, revising, and editing multi-paragraph papers. (3 Lec.)  
(Coordinating Board Academic Approval Number 320108531371)

DRAMA  
(Formerly Theatre)

DRAM 1120 Rehearsal And Performance I (1)  
(This is a common course number. Last year’s course prefix/number THE 114)  
Participation in the class may include any phase of rehearsal and performance of the current theatrical presentation. This course may be repeated for credit. (3 Lab.)  
(Coordinating Board Academic Approval Number 5005015230)

DRAM 1170 Demonstration Lab (1)  
(Last year’s course prefix/number THE 199)  
Scenes studied in various theatre classes are demonstrated to show contrast and different styles. This course may be repeated for credit. (1 Lab.)  
(Coordinating Board Academic Approval Number 5005015130)

DRAM 1221 Rehearsal And Performance II (2)  
(This is a common course number. Last year’s course prefix/number THE 210)  
Participation in the class may include any phase of rehearsal and performance of the current theatrical presentation. This course may be repeated for credit. (6 Lab.)  
(Coordinating Board Academic Approval Number 5005015230)

DRAM 1310 Introduction To The Theatre (3)  
(This is a common course number. Last year’s course prefix/number THE 101)  
The various aspects of theatre are surveyed. Topics include plays, playwrights, directing, acting, theatres, artists, and technicians. (3 Lec.)  
(Coordinating Board Academic Approval Number 5005015130)
DRAM 1323 Theatre Workshop (3)
(This is a common course number. Last year's course prefix/number THE 236)
A course in theatre with emphasis on performance techniques in musical and repertory theatre with practical performance experience. This course may be repeated for credit. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005015230)

DRAM 1330 Stagecraft I (3)
(This is a common course number. Last year's course prefix/number THE 103)
The technical aspects of play production are studied. Topics include shop procedures, the planning and fabrication of scenic elements, and backstage operations. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005025130)

DRAM 1341 Make-Up For The Stage (3)
(This is a common course number. Last year's course prefix/number THE 105)
The craft of make-up is explored. Both theory and practice are included. Laboratory fee. (3 Lec.)
(Coordinating Board Academic Approval Number 5005025230)

DRAM 1351 Acting I (3)
(This is a common course number. Last year's course prefix/number THE 106)
The theory of acting and various exercises are presented. Body control, voice, interpretation, characterization, and stage movement are included. Both individual and group activities are used. Specific roles are analyzed and studied. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005035130)

DRAM 1352 Acting II (3)
(This is a common course number. Last year's course prefix/number THE 107)
Prerequisite: Drama 1351 or demonstrated competence approved by the instructor. Emphasis is on characterization and ensemble acting. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005035130)

DRAM 1370 Contemporary Theatre (3)
(This is a common course number. Last year's course prefix/number THE 102)
This course is a study of the modern theatre. The historical background and traditions of each style are included. Emphasis is on understanding the social, culture, and aesthetic significance of each style. A number of modern plays are read and selected video tapes are viewed. (3 Lec.)
(Coordinating Board Academic Approval Number 5005055130)

DRAM 2336 Voice And Articulation (3)
(This is a common course number. Last year's course prefix/number THE 209)
Students may register for either Speech 1342 or Drama 2336 but may receive credit for only one of the two. Emphasis is on improving voice and pronunciation. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015835)

DRAM 2351 Scene Study I (3)
(This is a common course number. Common Course Number THE 205)
Prerequisites: Drama 1351 and 1352. Emphasis is on the study, rehearsal, and performance of selected scenes of various periods and styles. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005035130)

DRAM 2352 Scene Study II (3)
(This is a common course number. Last year's course prefix/number THE 207)
Prerequisite: Drama 2351. This course is a continuation of Drama 2351. Emphasis is on individual needs of the performer and the various styles of production. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005035130)

DRAM 2361 History Of Theatre I (3)
(This is a common course number. Last year's course prefix/number THE 110)
Drama is surveyed from its beginning through the 16th century. The theatre is studied in each period as a part of the total culture of the period. (3 Lec.)
(Coordinating Board Academic Approval Number 5005055130)

DRAM 2362 History Of Theatre II (3)
(This is a common course number. Last year's course prefix/number THE 111)
Drama is surveyed from the 17th century through the 20th century. The theatre is studied in each period as a part of the total culture of the period. (3 Lec.)
(Coordinating Board Academic Approval Number 5005055130)

DRAM 2370 Television Production I (3)
(This is a common course number. Last year's course prefix/number THE 201)
Station organization, studio operation, and the use of studio equipment are introduced. Topics include continuity, camera, sound, lights, and videotape recording. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 1001045226)

DRAM 2371 Television Production II (3)
(This is a common course number. Last year's course prefix/number THE 202)
Prerequisite: Drama 2370. This course is a continuation of Drama 2370. Emphasis is on the concept and technique of production in practical situations. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 1001045226)

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DRAM 2373 Introduction To Technical Drawing (3)
(Last year's course prefix/number THE 208)
Basic techniques of drafting are studied. Isometrics, orthographic projections, and other standard procedures are included. The emphasis is on theatrical drafting, including ground plans, vertical sections, construction elevations, and spider perspective. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005025130)

DRAM 2374 Lighting Design (3)
(Last year's course prefix/number THE 209)
The design and techniques of lighting are covered. Topics include instrumentation, electricity, control and practical experience. (2 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 5005025130)

DRAM 2375 Broadcasting Communications I (3)
(Last year's course prefix/number THE 211)
Basic techniques of television and video performance are introduced. (3 Lec.)
(Coordinating Board Academic Approval Number 0904035226)

DRAM 2376 Broadcasting Communications II (3)
(Last year's course prefix/number THE 212)
Prerequisite: Drama 2375 or demonstrated competence approved by the instructor. This course is a continuation of Drama 2375. Emphasis is on radio and television as mass media and practical applications in both radio and television. (3 Lec.)
(Coordinating Board Academic Approval Number 0904035226)

ECONOMICS

ECON 1303 Economics Of Contemporary Social Issues (3)
(This is a common course number. Last year's course prefix/number ECO 105)
This course is a study of the economics of current social issues and public policy, including such matters as antitrust policy, business deregulation, social security, wage and price controls, budget deficits, economic growth, medical care, nuclear power, farm policy, labor unions, foreign trade, and economic stabilization. This course is a credit course that can serve as a transfer elective and/or introductory course for the Principles sequence (Economics 2301 or 2302). This course, however, will not replace either Economics 2301 or 2302 where these courses are required in a university transfer curriculum. (3 Lec.)
(Coordinating Board Academic Approval Number 1904025242)

ECON 2301 Principles Of Economics I (3)
(This is a common course number. Last year's course prefix/number ECO 201)
Sophomore standing is recommended. The principles of macroeconomics are presented. Topics include economic organization, national income determination, money and banking, monetary and fiscal policy, macroeconomic applications of international trade and finance, economic fluctuations, and growth. (3 Lec.)
(Coordinating Board Academic Approval Number 4506015142)

ECON 2302 Principles Of Economics II (3)
(This is a common course number. Last year's course prefix/number ECO 202)
Prerequisite: Sophomore standing is recommended. The principles of microeconomics are presented. Topics include the theory of demand, supply, and price of factors. Income distribution and theory of the firm are also included. Emphasis is given to microeconomic applications of international trade and finance as well as other contemporary microeconomic problems. (3 Lec.)
(Coordinating Board Academic Approval Number 4506015142)

ECON 2311 Economics of Global Issues (3)
(This is a common course number. Last year's course prefix/number ECO 203)
Prerequisite: Economics 2301 or demonstrated competence approved by the instructor. This course is an analytical study of global economic relationships with historical development of various production and distribution activities. The interaction of social and political factors as well as physical and monetary resources in determining the location, and relocation, of particular economic activities will be investigated. This course will emphasize critical inquiry into the major issues currently affecting the global economy at large as well as the diverse individual cultures within its spread. (3 Lec.)
(Coordinating Board Academic Approval Number 4507015242)
ELECTRICAL TECHNOLOGY

ELEC 1270 Introduction Of Electrical Technology (2)
(Last year's course prefix/number ELE 105)
This course focuses on the nature of the electrical technology Industry and employment opportunities. Safety, materials, and the proper use of tools and common test devices are covered. Laboratory fee. (2 Lec., 1 Lab.)

ELEC 1271 General Electrical Codes (2)
(Last year's course prefix/number ELE 108)
General Electrical Codes as identified in the current National Electric Code are presented. General codes concepts and residential applications are stressed. (2 Lec.)

ELEC 1272 Commercial Codes (2)
(Last year's course prefix/number ELE 118)
This course is an extension of the Basic Electrical Codes to applications frequently encountered in commercial electrical wiring. Information presented is based upon the current National Electrical Code. (2 Lec.)

ELEC 1370 Low Voltage Circuits (3)
(Last year's course prefix/number ELE 115)
This course focuses on types of low voltage electrical circuits. The theory, installation, and testing of low voltage circuits such as bells, chimes, and alarm systems will be presented. Laboratory fee. (2 Lec., 2 Lab.)

ELEC 1371 General Electrical Wiring (3)
(Last year's course prefix/number ELE 116)
This course covers general wiring practices with emphasis on safety and procedures. Topics include materials selection, splicing, switches, receptacles, and lighting circuits for both residential and selected commercial applications. Laboratory fee. (2 Lec., 4 Lab.)

ELEC 1470 Fundamentals Of Electricity (4)
(Last year's course prefix/number ELE 106)
Electrical theory and basic DC and AC circuits are covered. Voltage, current, resistance, reactance, impedance, phase angle, and power factors are calculated and measured in series, parallel and combination circuits. Laboratory fee. (3 Lec., 3 Lab.)

ELEC 1471 Electrical Transformers (4)
(Last year's course prefix/number ELE 107)
This course focuses on the fundamentals, types and testing procedures of electrical transformers. Power generation, transmission, and distribution systems are presented utilizing both single-phase and three-phase transformers. Laboratory fee. (4 Lec., 2 Lab.)

ELEC 1472 General Electrical Planning (4)
(Last year's course prefix/number ELE 117)
This course presents service, feeders, and branch circuit load calculations. Student activities include calculating appliance loads and circuit locations using blueprints, construction drawings and specifications. Laboratory fee. (4 Lec., 2 Lab.)

ELEC 2170 Contemporary Topics In Electrical Technology (1)
(Last year's course prefix/number ELE 220)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (1 Lec.)

ELEC 2172 Contemporary Topics In Electrical Technology (1)
(Last year's course prefix/number ELE 222)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. Laboratory fee. (1 Lec., 1 Lab.)

ELEC 2270 Industrial Planning (2)
(Last year's course prefix/number ELEC 207)
This course covers power applications for industrial locations. Topics include high voltage wiring, feeder bus systems, switching, and system protection. Laboratory fee. (2 Lec., 1 Lab.)

ELEC 2271 Industrial Codes (2)
(Last year's course prefix/number ELE 208)
This course presents those areas of the current National Electric Code dealing with transformer and welder feeder circuits, motor and branch circuit overload protection. (2 Lec.)

ELEC 2272 Electrical Motor Fundamentals (2)
(Last year's course prefix/number ELE 213)
Theory and fundamentals of AC, DC, and three-phase electrical motors are presented. Emphasis is placed on the characteristics, connection, and testing of these machines. Laboratory fee. (2 Lec., 1 Lab.)

ELEC 2370 Commercial Wiring (3)
(Last year's course prefix/number ELE 205)
Topics in this course are centered on accepted procedures and practice in wiring for commercial applications. Materials, conduit, and circuit layouts are included. Laboratory fee. (2 Lec., 4 Lab.)

ELEC 2371 Solid State Controls (3)
(Last year's course prefix/number ELE 214)
Solid state digital logic concepts and applications for motor controls are presented. System diagnostic procedures are covered. Laboratory fee. (2 Lec., 2 Lab.)
ELEC 2374 Motor Controls (3)
(Last year's course prefix/number ELE 216)
This course focuses on the connection and testing of electrical systems used to control single and multiple motor operations. Topics included are control circuit diagrams, magnetic starting, overload protecting, jogging, reversing, and sequencing. Laboratory fee. (3 Lec., 2 Lab.)

ELEC 2375 Electrical Design (3)
(Last year's course prefix/number ELE 218)
This course presents topics pertaining to designing and planning residential and commercial projects. Topics include construction drawings, specifications, load calculations, electrical layout and schedules, materials selection, and cost estimating. Activities are centered on major student projects. Laboratory fee. (2 Lec., 4 Lab.)

ELEC 2376 Contemporary Topics In Electrical Technology (3)
(Last year's course prefix/number ELE 224)
Prerequisite: Will vary based on topics covered and will be annotated in each semester's schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (3 Lec.)

ELEC 2470 Commercial Planning (4)
(Last year's course prefix/number ELE 206)
This course stresses applications for service, feeders, and branch circuits for commercial loads. Topics covered include blueprint reading, load calculations, overload protection, and planning for selected commercial environments. Laboratory fee. (4 Lec., 2 Lab.)

ELEC 7371 Cooperative Work Experience (3)
(Last year's course prefix/number ELE 703)
Prerequisites: Completion of two courses in the Electrical Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include job interview and job application techniques, job site interpersonal relations, and employer expectations of employees. (1 Lec., 15 Lab.)

ELEC 7372 Cooperative Work Experience (3)
(Last year's course prefix/number ELE 713)
Prerequisites: Completion of two courses in the Electrical Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, changing jobs, supervising subordinates, and building self-esteem. (1 Lec., 15 Lab.)

ELEC 7471 Cooperative Work Experience (4)
(Last year's course prefix/number ELE 704)
Prerequisites: Completion of two courses in the Electrical Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include job interview and job application techniques, job site interpersonal relations, and employer expectations of employees. (1 Lec., 20 Lab.)

ELEC 7472 Cooperative Work Experience (4)
(Last year's course prefix/number ELE 714)
Prerequisites: Completion of two courses in the Electrical Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, changing jobs, supervising subordinates, and building self-esteem. (1 Lec., 20 Lab.)

ELECTRONICS TECHNOLOGY

ELET 1170 Printed Circuit Board Manufacturing (1)
(Last year's course prefix/number ET 170)
The course will begin with a schematic and parts list and progress through all steps necessary to produce a single sided photographically produced board. Laboratory fee. (1 Lec., 1 Lab.)

ELET 1171 Soldering (1)
(Last year's course prefix/number ELET 172)
This course is intended to ensure that the student understands the theory and use of tools and equipment for proper industrial soldering techniques. The prime emphasis is to build the student's skill in soldering. Laboratory fee. (1 Lec., 1 Lab.)

ELET 1172 Oscilloscope Utilization (1)
(Last year's course prefix/number ET 174)
This course will cover all front panel controls on basic laboratory calibrated oscilloscopes. Emphasis will be placed on utilization of oscilloscope in trouble-shooting a circuit. Laboratory fee. (1 Lec., 1 Lab.)
ELET 1370 Instrumentation (3)
(Next year's course prefix/number ET 194)
Prerequisites: Electronics Technology 1470 and credit or concurrent enrollment in Electronics Technology 1471 and 1472. Electrical devices for measurement and instrumentation are studied and applied to work situations. Included are basic AC and DC measurement meters, impedance bridges, oscilloscopes, signal generators, signal-tracers, and tube and transistor testers. The course concludes with a study of audio frequency test methods and equipment. Laboratory fee. (2 Lec., 3 Lab.)

ELET 1470 DC Circuits And Electrical Measurements (4)
(Next year's course prefix/number ET 190)
The mathematical theory of direct current circuits is presented in combination with laboratory fundamentals. Emphasis is on elementary principles of magnetism, electric concepts and units, diagrams, and resistance. Electromagnetism, series and parallel circuits, simple meter circuits, conductors, and insulators are also stressed. Laboratory fee. (3 Lec., 3 Lab.)

ELET 1471 A.C. Circuits (4)
(Next year's course prefix/number ET 191)
Prerequisites: Electronics Technology 1470 and credit or concurrent enrollment in Mathematics 1374 or the equivalent. This course covers the fundamental theories of alternating current. The theories are applied in various circuits. Included are laboratory experiments on power factor, sine wave analysis, resonant circuits, capacitance, inductance, Q of coils, magnetism, and resistance. Laboratory fee. (3 Lec., 3 Lab.)

ELET 1472 Active Devices (4)
(Next year's course prefix/number ET 193)
Prerequisites: Electronics Technology 1470 and credit or concurrent enrollment in Electronics Technology 1471. Semiconductors (active devices) are the focus of this course. Topics include composition, parameters, linear and nonlinear characteristics, in-circuit action, amplifiers, rectifiers, and switching. Laboratory fee. (3 Lec., 3 Lab.)

ELET 1473 Digital Logic Principles (4)
(Next year's course prefix/number ET 197)
This course is a study of number systems and arithmetic in various bases. Included are truth tables, logic symbols, and basic logic functions including NOT, AND, NAND, OR, NOR, and XOR. Logic manipulations involving basic laws, minterm forms, mapping, minimization, and basic logic gate circuit troubleshooting techniques. An introduction to computer operations and systems with emphasis on the use of the computer as an analytical tool for electronics circuit evaluation is included. Laboratory fee. (3 Lec., 3 Lab.)

ELET 1670 DC-AC Theory And Circuit Analysis (6)
(Next year's course prefix/number ET 135)
Prerequisite: Credit or concurrent enrollment in Mathematics 1374 or the equivalent. This is an accelerated course combining DC circuits (ELET 1470) and AC circuits (ELET 1471) in one semester for students with previous electronics experience or a good mathematics background. Topics include the analysis of resistive, capacitive, inductive, and combination circuits. Magnetism, resonance, schematic symbols, and sine wave analysis are also included. Series, parallel, and series-parallel circuits are covered. Laboratory fee. (5 Lec., 3 Lab.)

ELET 2170 Selected Topics in Electronics (1)
(Next year's course prefix/number ET 205)
This course is intended for use by any given group of students that desires specific topics to be covered. This course may be substituted for any 2000 level electronics course with the demonstrated competence approved by the instructor. This course is repeatable for credit as topics vary. Laboratory fee. (1 Lec.)

ELET 2270 Selected Topics in Electronics (2)
(Next year's course prefix/number ET 206)
This course is intended for use by any given group of students that desires specific topics to be covered. This course may be substituted for any 2000 level electronics course with the demonstrated competence approved by the instructor. This course is repeatable for credit as topics vary. Laboratory fee. (2 Lec., 1 Lab.)

ELET 2370 Electronic Circuits And Systems (3)
(Next year's course prefix/number ET 234)
Prerequisites: Completion of all electronics technology courses up to and including Electronics Technology 2476; and may take Electronics Technology 2477 and Electronics Technology 2476 concurrently with Electronics Technology 2370. The design, layout construction, and calibration of an electronic project are covered. Students develop independent project and prepare term papers on functions of components, operating specifications and schematics. Laboratory fee. (6 Lab.)

ELET 2371 Microwave Technology (3)
(Next year's course prefix/number ET 239)
Prerequisites: Electronics Technology 1370 and Electronics Technology 2476. Microwave concepts such as propagation, transmission lines including waveguides, standing waves, impedance matching, basic antennas and various basic microwave measurements are covered. Microwave measurement techniques such as power and frequency meter measurements and calibration, VSWR determinations, klystron characteristics, and waveguide tuning will be demonstrated. A basic radar system is discussed as time permits. (3 Lec.)
ELET 2372 Selected Topics in Electronics (3)
(Last year's course prefix/number ET 207)
This course is intended for use by any given group of students that desires specific topics to be covered. This course may be substituted for any 2000 level electronics course with the demonstrated competence approved by the instructor. This course is repeatable for credit as topics vary. Laboratory fee. (2 Lec., 2 Lab.)

ELET 2373 Digital Research (3)
(Last year's course prefix/number ELET 265)
Prerequisites: Electronics Technology 1473 and concurrent enrollment in Electronics Technology 2488 or 2490. The design, layout, construction, and calibrating of a major electronic project are covered. The project uses digital circuits. Students develop independent projects and prepare term papers on functions of components, operating specifications, and schematics. Laboratory fee. (1 Lec., 5 Lab.)

ELET 2374 Special Applications Of Electronics (4)
(Last year's course prefix/number ET 200)
This course is intended for use by any given group of students that desire specific topics to be covered. This course may substitute for any 2000 level electronics course with the demonstrated competence approved by the instructor. This course is repeatable for credit as topics vary. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2471 Automated Manufacturing (4)
(Last year's course prefix/number ET 201)
This course provides an introduction to automated manufacturing and robotics. Areas of study include the types of equipment and devices used in industry, their construction, operation, programming methods and applications for use in manufacturing. The student develops skills in system operation and program analysis in the lab. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2472 Industrial Power Systems (4)
(Last year's course prefix/number ET 202)
This course examines predominant power systems used in industrial applications. Topics covered include electric motors and their control circuits, mechanical devices and systems, and fluid power principles and systems, including pneumatic and hydraulic operations. Fundamental theory of operation, control and application are studied in each of these areas as well as developing skills and techniques of use with hands-on experience. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2473 Industrial Controls (4)
(Last year's course prefix/number ET 203)
Prerequisite: Electronics Technology 1472. This course examines the devices and systems used in industrial controls. Topics covered include electromechanical devices, various types of transducers, signal conditioning, modulation and demodulation methods, and interfacing and data communications techniques. The student gains operational experience working with the devices and equipment in the lab. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2474 Basic CRT Display And Television Theory and Service (4)
(Last year's course prefix/number ET 210)
Prerequisite: Electronics Technology 1470, 1471, 1472 and 1370. This course is designed to introduce CRT display and television theory and to give the student hands on experience in basic servicing of all major sections of modern television receivers and CRT displays for computers. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2475 Special Circuits With Communications Applications (4)
(Last year's course prefix/number ET 231)
Prerequisites: Electronics Technology 1472 and 1370. Active devices are applied to circuitry common to most communications equipment. Both the theory of operation and practical applications of the circuits in laboratory experiments are included. Circuits including power supplies, voltage regulators, tuned and untuned amplifiers, filters, oscillators, modulators, and detectors, with application to various types of intelligence transmission and reception are emphasized in the course. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2476 Analysis Of Electronic Logic And Switching Circuits (4)
(Last year's course prefix/number ET 232)
Prerequisites: Electronics Technology 1472 and 1370. These course presents circuitry common to electronic control systems and automatic measuring systems. Typical circuit systems functions covered include clamping, gating, switching, and counting. Circuits include voltage discriminators, multi-vibrators, dividers, counters, and gating circuits. Boolean algebra and binary numbers are reviewed. Emphasis is on semiconductor devices. Fluidic switching devices are introduced. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2477 Fundamentals Of Electricity (4)
(Last year's course prefix/number ET 235)
This course is an introduction to electricity for student in related programs. Topics include basic AC and DC theory, voltage, current, and resistance, and electrical wiring principles and schematics. Transformers, relays, timers, electrical measuring devices, and basic electrical calculations are also included. Laboratory fee. (3 Lec., 3 Lab.)
ELET 2479 Modular Memories And Microprocessors (4)
(Last year's course prefix/number ET 237)
Prerequisite: Electronics Technology 2477. Read only memories (ROM's), random access memories (RAM's) and microprocessors are presented. Emphasis is on specifications, applications, and operation. Control busses, data busses, addressing, coding, and programming of typical microprocessor units are included. Micro processor system is tested, coded, and programmed. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2480 Linear Integrated Circuits (4)
(Last year's course prefix/number ET 238)
Prerequisites: Electronics Technology 1470, 1471, and 1472. Differential amplifiers, operational amplifiers, and integrated circuit timers are investigated. Topics include comparators, detectors, inverting and non-inverting amplifiers, OP. AMP adders, differentiating and integrating amplifiers, and instrumentation amplifiers. Digital to analog converters, analog to digital converters, special OP. AMP applications, and integrated circuits timers are also included. Limitations and specifications of integrated circuits are covered. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2481 Electronic Theory And Application Of Digital Computers (4)
(Last year's course prefix/number ET 240)
Prerequisites: Electronics Technology 1470. The course presents the electronic switching circuits for digital computer systems. Logic symbology, gates, and related Boolean algebra are covered. Computer terminology and number systems are included. An introduction to BASIC language programming for electronic circuit analysis is also included. Laboratory experiments in addition to computer programming include basic logic gate analysis and test procedures. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2482 Microcomputer Theory And System Maintenance (4)
(Last year's course prefix/number ET 246)
Prerequisite: Electronics Technology 1472 or demonstrated competence approved by the instructor. This course is an introduction to the theory and operation of microcomputers. The theory and operation of the individual components that comprise a microcomputer are studied as well as the methods by which the components are connected together to form a complete microcomputer. Software and hardware troubleshooting techniques are also emphasized. (3 Lec., 3 Lab.)
ELET 2487 Pulse And Switching Circuits (4)  
(Last year’s course prefix/number ET 261)  
Prerequisites: Electronics Technology 1471 and 1472.  
Prerequisites: Electronics Technology 1471 and 1472.  
Prerequisites: Electronics Technology 1471 and 1472.  
Thevenin’s theorem and superposition are applied to AC  
and DC sources. Wave form analysis is studied including  
and DC sources. Wave form analysis is studied including  
and DC sources. Wave form analysis is studied including  
pulse characteristics and pulsetrain measurements of har-  
monic content. Other topics include RC and RL circuit  
response to step inputs, exponential forms, diode clipper  
response to step inputs, exponential forms, diode clipper  
response to step inputs, exponential forms, diode clipper  
and clamp circuits, and transistor action in digital circuits  
and clamp circuits, and transistor action in digital circuits  
and clamp circuits, and transistor action in digital circuits  
involving saturation and cutoff. Gate types of RTL, DTL, TTL,  
involving saturation and cutoff. Gate types of RTL, DTL, TTL,  
involving saturation and cutoff. Gate types of RTL, DTL, TTL,  
ECL, and MOS technologies are also included. The bistable,  
ECL, and MOS technologies are also included. The bistable,  
ECL, and MOS technologies are also included. The bistable,  
monostable, and astable types of multivibrator circuits  
monostable, and astable types of multivibrator circuits  
monostable, and astable types of multivibrator circuits  
are covered. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2488 Digital Computer Theory (4)  
(Last year’s course prefix/number ET 263)  
Prerequisite: Electronics Technology 1471, 1473, and 1472.  
Prerequisite: Electronics Technology 1471, 1473, and 1472.  
Prerequisite: Electronics Technology 1471, 1473, and 1472.  
This course focuses on basic computer circuits. Included  
This course focuses on basic computer circuits. Included  
This course focuses on basic computer circuits. Included  
are flip-flops, shift registers, counters (sequential and non-  
are flip-flops, shift registers, counters (sequential and non-  
are flip-flops, shift registers, counters (sequential and non-  
sequential), operational amplifiers, and A to D converters.  
sequential), operational amplifiers, and A to D converters.  
sequential), operational amplifiers, and A to D converters.  
Analysis of specific current integrated circuits is also in-  
Analysis of specific current integrated circuits is also in-  
Analysis of specific current integrated circuits is also in-  
cluded. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2490 Digital Systems (4)  
(Last year’s course prefix/number ET 264)  
Prerequisites: Electronics Technology 1473 and 2488 or  
Prerequisites: Electronics Technology 1473 and 2488 or  
Prerequisites: Electronics Technology 1473 and 2488 or  
concurrent enrollment in Electronics Technology 2488. The  
concurrent enrollment in Electronics Technology 2488. The  
concurrent enrollment in Electronics Technology 2488. The  
three major component systems of a digital computer are  
three major component systems of a digital computer are  
three major component systems of a digital computer are  
studied. The arithmetic-logic section covers arithmetic in  
studied. The arithmetic-logic section covers arithmetic in  
studied. The arithmetic-logic section covers arithmetic in  
binary, hexadecimal, counting, and number representation  
binary, hexadecimal, counting, and number representation  
binary, hexadecimal, counting, and number representation  
within a machine. The memory studies center around the  
within a machine. The memory studies center around the  
within a machine. The memory studies center around the  
operation of core and semiconductor memory assemblies  
operation of core and semiconductor memory assemblies  
operation of core and semiconductor memory assemblies  
which include addressing and data buffering. The control  
which include addressing and data buffering. The control  
which include addressing and data buffering. The control  
section deals with state, distributive, and ROM type of  
section deals with state, distributive, and ROM type of  
section deals with state, distributive, and ROM type of  
control circuits. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2491 Computer Applications (4)  
(Last year’s course prefix/number ET 266)  
Prerequisite: Electronics Technology 1473. Machine lan-
language and assembly language programming are the focus of  
language and assembly language programming are the focus of  
language and assembly language programming are the focus of  
this course. Emphasis is on problem solving for in-house  
this course. Emphasis is on problem solving for in-house  
this course. Emphasis is on problem solving for in-house  
computers. Laboratory fee. (3 Lec., 3 Lab.)

ELET 2492 Microprocessors (4)  
(Last year’s course prefix/number ET 267)  
Prerequisites: Electronics Technology 1473 and 2491. This  
Prerequisites: Electronics Technology 1473 and 2491. This  
Prerequisites: Electronics Technology 1473 and 2491. This  
course is a study of microcomputers. Topics include archi-
tecture, software, interfacing, microprocessors, and  
tecture, software, interfacing, microprocessors, and  
tecture, software, interfacing, microprocessors, and  
microcomputer systems. Emphasis is on practical applica-
tions using in-house microcomputers. Laboratory fee.  
applications using in-house microcomputers. Laboratory fee.  
applications using in-house microcomputers. Laboratory fee.  
(3 Lec., 3 Lab.)

ELET 2493 Microprocessor Trouble-shooting And  
Interface (4)  
(Last year’s course prefix/number ET 268)  
Prerequisite: Electronics Technology 2492. This course  
principle studies trouble-shooting techniques on microprocessor,  
principle studies trouble-shooting techniques on microprocessor,  
principle studies trouble-shooting techniques on microprocessor,  
disk controls, CRT controls and interfaces. Emphasis is on  
disk controls, CRT controls and interfaces. Emphasis is on  
disk controls, CRT controls and interfaces. Emphasis is on  
hardware trouble-shooting and peripheral Interface. Labo-
hardware trouble-shooting and peripheral Interface. Labo-
hardware trouble-shooting and peripheral Interface. Labo-
rary fee. (3 Lec., 3 Lab.)

ELET 2494 Computer-Aided Circuit Analysis and  
Design (4)  
(Last year’s course prefix/number ET 270)  
This course utilizes the personal computer platform as a tool  
This course utilizes the personal computer platform as a tool  
This course utilizes the personal computer platform as a tool  
to enable the user to draw schematics, build net lists,  
to enable the user to draw schematics, build net lists,  
to enable the user to draw schematics, build net lists,  
compile and generate selected reports. The student will  
compile and generate selected reports. The student will  
compile and generate selected reports. The student will  
learn to use the PC to analyze, design, and layout the printed  
learn to use the PC to analyze, design, and layout the printed  
learn to use the PC to analyze, design, and layout the printed  
circuit board for passive and active circuit systems. Several  
circuit board for passive and active circuit systems. Several  
circuit board for passive and active circuit systems. Several  
software packages are employed to achieve the desired  
software packages are employed to achieve the desired  
software packages are employed to achieve the desired  
competencies. (3 Lec., 3 Lab.)

ELET 2495 UNIX Tools For Circuit Analysis (4)  
(Last year’s course prefix/number ET 271)  
Prerequisite: Electronics Technology 2494. This course  
Prerequisite: Electronics Technology 2494. This course  
Prerequisite: Electronics Technology 2494. This course  
utilizes the personal computer to enable the student to  
utilizes the personal computer to enable the student to  
utilizes the personal computer to enable the student to  
develop skills in circuit design using the UNIX operating  
develop skills in circuit design using the UNIX operating  
develop skills in circuit design using the UNIX operating  
system. The students will enter schematics, simulate, and  
system. The students will enter schematics, simulate, and  
system. The students will enter schematics, simulate, and  
perform circuit board layouts to specifications. (3 Lec., 3 Lab.)

ELET 2496 Introduction To Computer Aided Testing (4)  
(Last year’s course prefix/number ET 272)  
Prerequisite: Basic skills in computer operations and  
knowledge of stand alone electronics Instruments. This  
knowledge of stand alone electronics Instruments. This  
knowledge of stand alone electronics Instruments. This  
course centers around the use of computer applications  
course centers around the use of computer applications  
course centers around the use of computer applications  
programs specifically designed for use in building computer  
programs specifically designed for use in building computer  
programs specifically designed for use in building computer  
aided testing (CAT) scenarios. This will use a windows-type  
aided testing (CAT) scenarios. This will use a windows-type  
aided testing (CAT) scenarios. This will use a windows-type  
environment. GBIP or virtual instrumentation type systems  
environment. GBIP or virtual instrumentation type systems  
environment. GBIP or virtual instrumentation type systems  
will be discussed and implemented. All students will gain  
will be discussed and implemented. All students will gain  
will be discussed and implemented. All students will gain  
experience with transferring data to and from the instru-
ments via computer. (3 Lec., 3 Lab.)

ELET 2497 Advanced Computer Aided Testing (4)  
(Last year’s course prefix/number ET 273)  
Prerequisite: Electronics Technology 2496. In this course  
Prerequisite: Electronics Technology 2496. In this course  
Prerequisite: Electronics Technology 2496. In this course  
the student will write and conduct test procedures on  
the student will write and conduct test procedures on  
the student will write and conduct test procedures on  
various circuits to be conducted under computer control.  
various circuits to be conducted under computer control.  
various circuits to be conducted under computer control.  
This course will focus on the following techniques: lab  
This course will focus on the following techniques: lab  
This course will focus on the following techniques: lab  
windows, high speed bus, virtual instruments or other  
windows, high speed bus, virtual instruments or other  
windows, high speed bus, virtual instruments or other  
modern methods as they are developed. (3 Lec., 3 Lab.)
ELET 7471 Cooperative Work Experience (4)
(Last year's course prefix/number ET 704)
Prerequisites: Completion of two courses in the Electronics Technology, Electronics/Computer Technology, or Electronic Telecommunications Technology programs, or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences related to the electronics field. The seminar consists of group or individual meetings with the instructor, individualized plans for job-related or self improvement (i.e. job interview, job application procedures, job site interpersonal relations, employer expectations of employees) or combinations of both. (1 Lec., 20 Lab.)

ELET 7472 Cooperative Work Experience (4)
(Last year's course prefix/number ET 714)
Prerequisites: Completion of two courses in the Electronics Technology, Electronics/Computer Technology, or Electronic Telecommunications Technology programs, or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences related to the electronics field. The seminar consists of group or individual meetings with the instructor, individualized plans for job-related or self improvement (i.e. preparation of resumes, changing jobs, supervising subordinates, building self-esteem), or combinations of both. (1 Lec., 20 Lab.)

ENGLISH
(Also see Developmental Reading and Developmental Writing.) Additional instruction in writing and reading is available through the Learning Skills Center.

ENGL 1301 Composition I (3)
(This is a common course number. Last year's course prefix/number ENG 101)
Prerequisite: An appropriate assessment test score (ACT, DCCCD test, or SAT). This course focuses on student writing. It emphasizes reading and analytical thinking and introduces research skills. Students practice writing for a variety of audiences and purposes. (3 Lec.)
(Coordinating Board Academic Approval Number 2304015135)

ENGL 1302 Composition II (3)
(This is a common course number. Last year's course prefix/number ENG 102)
Prerequisite: English 1301. This course refines the writing, research, and reading skills introduced in English 1301. A related goal is the development of critical thinking skills. Writing assignments emphasize argumentation and persuasion. Students will also write a formal research paper. (3 Lec.)
(Coordinating Board Academic Approval Number 2304015135)

ENGL 2307 Creative Writing (3)
(This is a common course number. Last year's course prefix/number ENG 209)
Prerequisite: English 1302. The writing of fiction is the focus of this course. Included are the short story, poetry, and short drama. (3 Lec.)
(Coordinating Board Academic Approval Number 2305015135)

ENGL 2311 Technical Writing (3)
(This is a common course number. Last year's course prefix/number ENG 210)
Prerequisites: English 1301 and English 1302. The technical style of writing is introduced. Emphasis is on the writing of technical papers, reports, proposals, progress reports, and descriptions. (3 Lec.)
(Coordinating Board Academic Approval Number 2311015135)

English In The Sophomore Year
English 2322, 2323, 2327, 2328, 2332, 2333, 2370, and 2371 are independent units of three credit hours each. Any one of these courses will satisfy DCCCD degree requirements in sophomore English.

ENGL 2322 British Literature (3)
(This is a common course number. Last year's course prefix/number ENG 201)
Prerequisite: English 1302. This course includes significant works of British writers from the Old English Period through the 18th century. (3 Lec.)
(Coordinating Board Academic Approval Number 2308015135)

ENGL 2323 British Literature (3)
(This is a common course number. Last year's course prefix/number ENG 202)
Prerequisite: English 1302. This course includes significant works of British writers from the Romantic Period to the present. (3 Lec.)
(Coordinating Board Academic Approval Number 2308015135)

ENGL 2327 American Literature (3)
(This is a common course number. Last year's course prefix/number ENG 205)
Prerequisite: English 1302. This course includes significant works of American writers from the Colonial through the Romantic Period. (3 Lec.)
(Coordinating Board Academic Approval Number 2307015135)
ENGL 2328 American Literature (3)

Prerequisite: English 1302. This course includes significant works of American writers from the Realistic Period to the present. (3 Lec.)

ENGL 2332 World Literature (3)

Prerequisite: English 1302. This course includes significant works of Continental Europe and may include works from other cultures. It covers the Ancient World through the Renaissance. (3 Lec.)

ENGL 2333 World Literature (3)

Prerequisite: English 1302. This course includes significant works of Continental Europe and may include selected works of other cultures from the Renaissance to the present. (3 Lec.)

ENGL 2370 Studies In Literature (3)

Prerequisite: English 1302. This course includes selections in literature organized by genre, period, or geographical region. Course descriptions are available each semester prior to registration. This course may be repeated for credit. (3 Lec.)

ENGL 2371 Studies In Literature (3)

Prerequisite: English 1302. This course includes selections in literature organized by theme, interdisciplinary content or major author. Course titles and descriptions are available each semester prior to registration. This course may be repeated for credit. (3 Lec.)

ESOL 0031-0034 (Listening-Speaking)

These courses prepare students to communicate orally in both public and academic environments. Emphasis is placed on developing language functions, pronunciation, and listening skills, and improving social and intercultural communication skills. Activities range from one-on-one conversation and brief descriptions to formal oral presentations and debates.

ESOL 0041-0044 (Reading)

These courses engage students in reading material from daily experience and prepare them for college reading tasks. Each course instructs students in reading skills, vocabulary development, critical thinking skills, and the use of resources.

ESOL 0051-0054 (Writing)

These courses are designed to help students increase fluency and build confidence in writing. The courses focus on writing as a process. Through inventing, drafting, and revising, students write for specific audiences and purposes.

ESOL 0061-0064 (Grammar)

These courses are designed to complement the ESOL 0051-0054 writing series. They provide instruction and practice with discrete grammar points necessary for effective writing.

ENGLISH AS A SECOND LANGUAGE

The English As A Second Language ESL credit curriculum is designed to develop a student's pre-academic language proficiency in the areas of listening, speaking, reading, and writing. The plan of study consists of sixteen courses divided into four proficiency levels and four skill areas (Listening-Speaking, Reading, Writing, and Grammar). The credit curriculum is designed to interface both with other ESL programs and with developmental studies or college level programs on each campus. A student enters this program by taking an English placement test and then by being advised by a specially trained ESL academic advisor.

ESOL 0031-0034 (Listening-Speaking)

These courses prepare students to communicate orally in both public and academic environments. Emphasis is placed on developing language functions, pronunciation, and listening skills, and improving social and intercultural communication skills. Activities range from one-on-one conversation and brief descriptions to formal oral presentations and debates.

ESOL 0041-0044 (Reading)

These courses engage students in reading material from daily experience and prepare them for college reading tasks. Each course instructs students in reading skills, vocabulary development, critical thinking skills, and the use of resources.

ESOL 0051-0054 (Writing)

These courses are designed to help students increase fluency and build confidence in writing. The courses focus on writing as a process. Through inventing, drafting, and revising, students write for specific audiences and purposes.

ESOL 0061-0064 (Grammar)

These courses are designed to complement the ESOL 0051-0054 writing series. They provide instruction and practice with discrete grammar points necessary for effective writing.

INGLES COMO SEGUNDO IDIOMA

El programa de crédito académico de Ingles Como Segundo Idioma ESL esta diseñado para desarrollar el dominio del idioma pre-academico del estudiante en las areas de escuchar, hablar, leer y escribir. El plan de estudio consiste en dieciséis cursos divididos en cuatro niveles de dominio y cuatro areas de habilidades (Escuchar/Hablar, Lectura, Escritura y Gramatica). El programa de crédito académico esta diseñado para complementar otros programas de ESL y con los estudios de desarrollo o programas de nivel universitario de cada campus. El estudiante comienza este programa al tomar un examen de clasificacion y despues de una entrevista individual con un asesor academico entrenado especialmente en ESL.

ESOL 0031-0034 (Escuch y Conversar)

Estos cursos preparan al alumno para comunicarse con confianza en situaciones sociales y académicas. Se desarrollan las varias funciones del lenguaje, se mejora la pronunciacion y comprension auditiva y se practica la comunicacion academica y transcultural. Las actividades didacticas incluyen describir lugares y objetos, proyectos en grupo, presentaciones orales y debates formales.
ENGLISH AS A SECOND LANGUAGE

ESOL 0031 ESL Listening/Speaking (3)
(Last year's course prefix/number ESL 031)
This course focuses on developing basic social and pre-academic listening and speaking skills. It includes skills such as describing, giving directions, and learning to understand explanations. Conversation conventions will be practiced as well as non-verbal communication skills. (Pronunciation is introduced through the study of basic phonetic segments and intonation patterns.) (3 Lec.)
(Coordinating Board Academic Approval Number 3201085535)

ESOL 0032 ESL Listening/Speaking (3)
(Last year's course prefix/number ESL 032)
This course develops intermediate social and pre-academic listening and speaking skills through situational activities. Students will express ideas and opinions in small groups and learn to understand and react appropriately. Intercultural communication will be incorporated. (Pronunciation skills will be practiced through identifying phonetic correctness and applying concepts of stress and intonation.) (3 Lec.)
(Coordinating Board Academic Approval Number 3201085535)

ESOL 0033 ESL Speaking (3)
(Last year's course prefix/number ESL 033)
This course develops public/academic oral language skills through active participation in group projects and presentations. Rhetorical skills such as narration and description will be practiced, and improving cross-cultural communication skills will be emphasized. (Pronunciation skills, including stress and intonation, will be refined with focused effort on areas of need through monitoring of oral production.) (3 Lec.)
(Coordinating Board Academic Approval Number 3201085535)

ESOL 0034 ESL Academic Speaking (3)
(Last year's course prefix/number ESL 034)
This course stresses academic speaking skills. Students learn formal presentation techniques as they defend a point of view and participate in seminars, panels, and debates. Formal rhetorical skills such as cause/effect, process, and summary will be practiced. The course will emphasize the value of cultural diversity. (Pronunciation skills, including stress and intonation, will continue to be refined with focused effort on areas of need through monitoring of oral production.) (3 Lec.)
(Coordinating Board Academic Approval Number 3201085535)

ESOL 0041 ESL Reading (3)
(Last year's course prefix/number ESL 041)
This course focuses on language development through reading activities. It includes reading comprehension, vocabulary building, study skills techniques, and intercultural sharing. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085635)

ESOL 0042 ESL Reading (3)
(Last year's course prefix/number ESL 042)
This course continues language development through reading comprehension and vocabulary building. It introduces paragraph organization, idiom study, and adapting reading rate for different purposes. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085635)

ESOL 0043 ESL Reading (3)
(Last year's course prefix/number ESL 043)
This course includes specific reading comprehension skills, reading efficiency strategies, critical thinking skills, vocabulary expansion, and the use of campus resources such as labs and libraries. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085635)

ESOL 0044 ESL Reading (3)
(Last year's course prefix/number ESL 044)
This course is designed to build on skills taught in previous reading classes but with a more academic emphasis. Students are taught reading skills and critical thinking skills as they relate to academic topics and literature. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085635)

ESOL 0051 ESL Writing (3)
(Last year's course prefix/number ESL 051)
This course stresses the creation of sentences and groups of sentences. It also introduces basic spelling rules and vocabulary development. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0052 ESL Writing (3)
(Last year's course prefix/number ESL 052)
This course introduces the development of controlled and guided paragraphs using a variety of organizational structures and stresses logic patterns of English. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)
ESOL 0053 ESL Writing (3)
(Last year's course prefix/number ESL 053)
This course stresses the process of paragraph writing and the characteristics of effective paragraph structure. It also introduces modes of discourse such as description, cause-effect, and comparison-contrast. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0054 ESL Writing (3)
(Last year's course prefix/number ESL 054)
This course emphasizes modes of discourse in expository writing for academic purposes. Particular attention is given to improving unity, coherence, transition, and style as students progress to multi-paragraph compositions. Paraphrasing and summarizing are also introduced. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0061 ESL Grammar (3)
(Last year's course prefix/number ESL 061)
This course introduces the basic aspects of English grammar needed to write simple and compound sentences. It includes the study of basic verb tenses, parts of speech, subject-verb agreement, and question formation. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0062 ESL Grammar (3)
(Last year's course prefix/number ESL 062)
This course reviews basic elements of English grammar introduced in ESOL 0061 and introduces grammar points necessary for writing controlled paragraphs. It includes further study of verb tenses, parts of speech, and question formation and introduces two-word verbs, modals, gerunds, and infinitives. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0063 ESL Grammar (3)
(Last year's course prefix/number ESL 063)
This course reviews grammar points studied in ESOL 0061 and ESOL 0062 and introduces elements necessary for students to write effective one-paragraph essays. It continues the study of verb tenses, parts of speech, and modals and introduces adverb, adjective, and noun clauses. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

ESOL 0064 ESL Grammar (3)
(Last year's course prefix/number ESL 064)
This course reviews grammar points studied in ESOL 0061, ESOL 0062, and ESOL 0063 and analyzes complex elements of those points. In addition, it introduces passive voice and conditional sentences. (3 Lec.)
(Coordinating Board Academic Approval Number 3201085735)

FREN 1310 French Conversation II (3)
(This is a common course number. Last year's course prefix/number FR 208)
Prerequisite: French 2311 or the equivalent. This course is designed to further strengthen and improve oral skills in the language. Oral activities will continue to focus on current events, cultural, historical and social issues. Audio-visual media are used to explore French life and society. This course is intended to complement French 2312. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015431)

FREN 1411 Beginning French (4)
(This is a common course number. Last year's course prefix/number FR 101)
The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1609015131)

FREN 1412 Beginning French (4)
(This is a common course number. Last year's course prefix/number FR 102)
Prerequisite: French 1411 or the equivalent. This course is a continuation of French 1411. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1609015131)

FREN 2303 Introduction To French Literature (3)
(This is a common course number. Last year's course prefix/number FR 203)
Prerequisite: French 2312 or demonstrated competence approved by the instructor. This course is an introduction to French literature. It includes readings in French literature, history, culture, art, and civilization. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015331)

FREN 2304 Introduction To French Literature (3)
(This is a common course number. Last year's course prefix/number FR 204)
Prerequisite: French 2312 or demonstrated competence approved by the instructor. This course is a continuation of French 2303. It includes readings in French literature, history, culture, art, and civilization. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015331)

FREN 2306 French Conversation I (3)
(This is a common course number. Last year's course prefix/number FR 207)
Prerequisite: French 1411 and French 1412 or the equivalent. This course is designed to strengthen and improve oral skills in the language. Oral activities focus on current events, cultural, historical and social issues. Audio-visual media are used to explore French life and society. This course is intended to complement French 2311. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015431)
FREN 2311 Intermediate French (3)
(This is a common course number. Last year’s course prefix/number FR 201)
Prerequisite: French 1412 or the equivalent. Reading, composition, and intense oral practice are covered in this course. Grammar is reviewed. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015231)

FREN 2312 Intermediate French (3)
(This is a common course number. Last year’s course prefix/number FR 202)
Prerequisite: French 2311 or the equivalent. This course is a continuation of French 2311. Contemporary literature and composition are studied. Grammar is reviewed and expanded. (3 Lec.)
(Coordinating Board Academic Approval Number 1609015231)

GEOGRAPHY

GEOG 1301 Physical Geography (3)
(This is a common course number. Last year’s course prefix/number GPY 101)
The physical composition of the earth is surveyed. Topics include weather, climate, topography, plant and animal life, land, and the sea. Emphasis is on the earth in space, use of maps and charts, and place geography. (3 Lec.)
(Coordinating Board Academic Approval Number 4507015142)

GEOG 1302 Cultural Geography (3)
(This is a common course number. Last year’s course prefix/number GPY 103)
This course focuses on the development of regional variations of culture. Topics include the distribution of races, religions, and languages. Aspects of material culture are also included. Emphasis is on origins and diffusion. (3 Lec.)
(Coordinating Board Academic Approval Number 4507015342)

GEOG 1303 World Regional Geography (3)
(This is a common course number. Common Course Number GPY 104)
A study of major developing and developed regions with emphasis on awareness of prevailing world conditions and developments, including emerging conditions and trends, and awareness of diversity of ideas and practices to be found in those regions. Course content may include one or more regions. (3 Lec.)
(Coordinating Board Academic Approval Number 4507015342)

GEOG 2312 Economic Geography (3)
(This is a common course number. Last year’s course prefix/number GPY 102)
The relation of humans to their environment is studied. Included is the use of natural resources. Problems of production, manufacturing, and distributing goods are explored. Primitive subsistence and commercialism are considered. (3 Lec.)
(Coordinating Board Academic Approval Number 4507015242)

GEOL 1345 Oceanography (4)
(This is a common course number. Last year’s course prefix/number GEO 105)
This course covers the study of the physical and biological characteristics of the ocean. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4007035139)

GEOL 1401 Earth Science (4)
(This is a common course number. Last year’s course prefix/number ES 117)
This course is for the non-science major. It covers the interaction of the earth sciences and the physical world. Geology, astronomy, meteorology, and space science are included. Selected principles and concepts of the applied sciences are explored. This course is also offered as Physical Science 119. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4001015139)

GEOL 1403 Physical Geology (4)
(This is a common course number. Last year’s course prefix/number GEO 101)
This course is for science and non-science majors. It is a study of earth materials and processes. Included is an introduction to geochemistry, geophysics, the earth’s interior, and magnetism. The earth’s setting in space, minerals, rocks, structures, and geologic processes are also included. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015139)

GEOL 1404 Historical Geology (4)
(This is a common course number. Last year’s course prefix/number GEO 102)
This course is for science and non-science majors. It is a study of earth materials and processes within a developmental time perspective. Fossils, geologic maps, and field studies are used to interpret geologic history. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015139)

GEOL 1470 Meteorology (4)
(Last year’s course prefix/number ES 115)
This course will cover weather phenomena and the modern methods of study and presentation of this information. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4007035139)

GEOL 2407 Geologic Field Methods (4)
(This is a common course number. Last year’s course prefix/number GEO 207)
Prerequisites: Geology 1403 and 1404. This course covers basic geologic and topographic mapping, observation of geologic structures, and examination of petrologic systems in an actual field setting. Students will spend a major portion of the course collecting data for and constructing topographic and geologic maps and geologic cross sections and columns. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015539)
GEOL 2409 Introduction To Rocks And Mineral Identification (4)
(This is a common course number. Last year’s course prefix/number GEO 201)
Prerequisites: Geology 1403 and 1404. This course introduces crystallography, geochemistry, descriptive mineralogy, petrology, and phase equilibria. Crystal models and hand specimens are studied as an aid to rock and mineral identification. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015239)

GEOL 2470 Field Geology (4)
(Last year’s course prefix/number GEO 205)
Prerequisites: Eight credit hours of geology or demonstrated competence approved by the instructor. Geological features, landforms, minerals, and fossils are surveyed. Map reading and interpretation are also included. Emphasis is on the identification, classification and collection of specimens in the field. This course may be repeated for credit. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015539)

GEOL 2471 Mineralogy (4)
(Last year’s course prefix/number GEO 209)
Prerequisites: Geology 1403 and 1404 and Chemistry 1412. This course covers basic geochemistry; crystal chemistry; crystallography, including symmetry elements, stereographic and gnomonic projections, Miller indices, crystal systems, and forms; x-ray diffraction; optical properties of minerals; descriptive mineralogy including identification of hand specimens; and phase equilibria. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4006015239)

GERMAN

GERM 1411 Beginning German (4)
(This is a common course number. Last year’s course prefix/number GER 101)
The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1605015131)

GERM 1412 Beginning German (4)
(This is a common course number. Last year’s course prefix/number GER 102)
Prerequisite: German 1411 or the equivalent. This course is a continuation of German 1411. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1605015131)

GERM 2311 Intermediate German (3)
(This is a common course number. Last year’s course prefix/number GER 201)
Prerequisite: German 1412 or the equivalent or demonstrated competence approved by the instructor. Reading, composition, and intense oral practice are covered. Grammar is reviewed. (3 Lec.)
(Coordinating Board Academic Approval Number 1605015231)

GERM 2312 Intermediate German (3)
(This is a common course number. Last year’s course prefix/number GER 202)
Prerequisite: German 2311 or the equivalent. This course is a continuation of German 2311. Contemporary literature and composition are studied. Grammar is reviewed and expanded. (3 Lec.)
(Coordinating Board Academic Approval Number 1605015231)

GOVERNMENT

GOVT 2301 American Government (3)
(This is a common course number. Last year’s course prefix/number GVT 201)
Prerequisite: Sophomore standing recommended. This course is an introduction to the study of political science. Topics include the origin and development of constitutional democracy (United States and Texas), federalism and intergovernmental relations, local governmental relations, local government, parties, politics, and political behavior. (To ensure transferability, students should plan to take both Government 2301 and 2302 within the DCCCD.) (3 Lec.)
(Coordinating Board Academic Approval Number 4510025142)

GOVT 2302 American Government (3)
(This is a common course number. Last year’s course prefix/number GVT 202)
Prerequisite: Sophomore standing recommended. The three branches of the United States and Texas government are studied. Topics include the legislative process, the executive and bureaucratic structure, the judicial process, civil rights and liberties, and domestic policies. Other topics include foreign relations and national defense. (To ensure transferability, students should plan to take both Government 2301 and 2302 within the DCCCD.) (3 Lec.)
(Coordinating Board Academic Approval Number 4510025142)

GOVT 2371 Introduction To Comparative Politics (3)
(Last year’s course prefix/number GVT 211)
A comparative examination of governments, politics, problems and policies with illustrative cases drawn from a variety of political systems. (3 Lec.)
(Coordinating Board Academic Approval Number is to be assigned. This is a unique need course.)
HEATING, VENTILATION AND AIR CONDITIONING
(Formerly Air Conditioning & Refrigeration Technology)

HVAC 1170 Contemporary Topics III (1)
(Last year's course prefix/number ACR 137)
Topics studied in this course will vary based on areas of special interest and recent developments in the air conditioning and refrigeration service industry. Topics covered in this course will be annotated in the class schedule. This course may be repeated for credit when topics vary. (1 Lec.)

HVAC 1270 Contemporary Topics I (2)
(Last year's course prefix/number ACR 109)
Topics studied in this course will vary based on areas of special interest and recent developments in the air conditioning and refrigeration service industry. Topics covered in this course will be annotated in the class schedule. This course may be repeated for credit when topics vary. (2 Lec.)

HVAC 1271 Contemporary Topics IV (2)
(Last year's course prefix/number ACR 138)
Topics studied in this course will vary based on areas of special interest and recent developments in the air conditioning and refrigeration service industry. Topics covered in this course will be annotated in the class schedule. This course may be repeated for credit when topics vary. (2 Lec.)

HVAC 1370 Contemporary Topics II (3)
(Last year's course prefix/number ACR 110)
Topics studied in this course will vary based on areas of special interest and recent developments in the air conditioning and refrigeration service industry. Topics covered in this course will be annotated in the class schedule. This course may be repeated for credit when topics vary. (2 Lec., 2 Lab.)

HVAC 1371 Principles Of Refrigeration I (3)
(Last year's course prefix/number ACR 121)
The physical principles applying to refrigeration systems including thermodynamics, gas laws and heat transfer are covered by this course. The proper use of hand tools and safety procedures followed in the industry are presented. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 1372 Principles Of Refrigeration II (3)
(Last year's course prefix/number ACR 122)
Prerequisite: Heating, Ventilation and Air Conditioning 1371. This course is a continued study of the physical principles related to refrigeration systems including basic properties of refrigerants and the construction of pressure-enthalpy diagrams. The operation of vapor compression systems are studied in detail. (2 Lec., 3 Lab.)

HVAC 1373 Principles Of Electricity I (3)
(Last year's course prefix/number ACR 126)
This course is a study of the principles of electricity as applied in the air conditioning and refrigeration service field. Simple circuits, circuit components, basic electrical units and test instruments are covered. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 1374 Principles Of Electricity II (3)
(Last year's course prefix/number ACR 127)
Prerequisite: Heating, Ventilation and Air Conditioning 1373. This course continues the study of electricity applied to air conditioning and refrigeration. Emphasis is placed on the construction and diagnosis of complex electrical circuits and alternating current motors used in the air conditioning and refrigeration service industry. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 1375 Residential Cooling Systems I (3)
(Last year's course prefix/number ACR 131)
Prerequisites: Heating, Ventilation and Air Conditioning 1372 and 1374. The principles of refrigeration and electricity are applied to residential cooling systems. Emphasis is placed on compressors, condensers, evaporators, metering devices and electrical components function and relationship. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 1376 Residential Cooling Systems II (3)
(Last year's course prefix/number ACR 132)
Prerequisite: Heating, Ventilation and Air Conditioning 1375. This course includes pipe sizing, piping practices, seasonal maintenance, system trouble-shooting and system installation. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 1377 Contemporary Topics V (3)
(Last year's course prefix/number ACR 139)
Topics studied in this course will vary based on areas of special interest and recent developments in the air conditioning and refrigeration service industry. Topics covered in this course will be annotated in the class schedule. This course may be repeated for credit when topics vary. (3 Lec.)

HVAC 1378 Residential Heating Systems I (3)
(Last year's course prefix/number ACR 141)
Prerequisites: Heating, Ventilation and Air Conditioning 1372 and 1374. This course is a study of the procedures and principles used in servicing residential heating systems including gas-fired and electric furnaces. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 1379 Residential Heating Systems II (3)
(Last year's course prefix/number ACR 142)
Prerequisite: Heating, Ventilation and Air Conditioning 1378. Heat pumps, heating system control circuits and other topics related to residential heating systems are covered in this course. Laboratory fee. (2 Lec., 2 Lab.)
This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 1371 and 1372. Students may register in the comprehensive course or the inclusive courses. The physical principles applying to refrigeration systems are studied including thermodynamics, gas laws, heat transfer, refrigerants, pressure-enthalpy diagrams, vapor compression systems, safety procedures and the proper safe use of hand tools. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 1671 Principles Of Electricity (6)
(last year’s course prefix/number ACR 125)
This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 1373 and 1374. Students may register in the comprehensive course or the inclusive courses. The electrical principles applied to the air conditioning and refrigeration systems are studied including simple circuits, circuits, basic electrical units, test instruments, construction and diagnosis of complex electrical circuits, alternating current motors and electrical safety procedures. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 1672 Residential Cooling Systems (6)
(last year’s course prefix/number ACR 130)
Prerequisites: Heating, Ventilation and Air Conditioning 1670 and 1671. This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 1375 and 1376. Students may register in the comprehensive course or the inclusive courses. This course covers compressors, condensers, evaporators, metering devices, pipe sizing, piping practices, seasonal maintenance, electrical systems, system trouble-shooting and system installation. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 1673 Residential Heating Systems (6)
(last year’s course prefix/number ACR 140)
Prerequisites: Heating, Ventilation and Air Conditioning 1670 and 1671. This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 1378 and 1379. Students may register in the comprehensive course or the inclusive courses. The servicing of residential heating systems is studied. Topics include gas-fired furnaces, electric furnaces, heat pumps, control circuits and other related topics. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 2370 Contractor Estimating I (3)
(last year’s course prefix/number ACR 209)
This course is a study of load calculations, air duct design and building plans used in the industry by service contractors. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 2371 Contractor Estimating II (3)
(last year’s course prefix/number ACR 210)
Prerequisite: Heating, Ventilation and Air Conditioning 2370. This course continues the study of contractor estimating including construction codes, state and local licenses, job estimating elements, and job scheduling. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2372 System Servicing I (3)
(last year’s course prefix/number ACR 213)
Prerequisite: Heating, Ventilation and Air Conditioning 1376 and 1379. The topics of psychrometric air properties, system balancing, the service of humidifiers and electronic air cleaners are covered in this course. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2373 System Servicing II (3)
(last year’s course prefix/number ACR 214)
Prerequisite: Heating, Ventilation and Air Conditioning 2372. This course is a continuation of system servicing with emphasis on advanced system trouble-shooting and system installation. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 2374 Refrigeration Loads (3)
(last year’s course prefix/number ACR 221)
Prerequisites: Heating, Ventilation and Air Conditioning 1672 and 1673. This course focuses on the analysis and estimation of refrigeration loads for medium and low temperature systems. Product storage data and procedures for calculating loads with a variety of products and refrigeration equipment are included. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2375 Advanced Systems (3)
(last year’s course prefix/number ACR 222)
Prerequisite: Heating, Ventilation and Air Conditioning 2374. Large commercial and industrial air conditioning systems are introduced. Basic system designs, equipment and control systems are the main topics. Instruction on air handling units, air volume boxes, centrifugal chillers, absorption systems, cooling towers, water treatment, and chilled water systems is included. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 2376 Medium Temperature Refrigeration Systems (3)
(last year’s course prefix/number ACR 223)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2374. Service and installation procedures for medium temperature equipment as found in food stores, warehouses, distribution centers, and processing plants are presented. Particular attention is given to electrical and mechanical features and to defrost subsystems. Laboratory fee. (2 Lec., 3 Lab.)
HVAC 2377 System Testing And Balancing (3)
(Last year's course prefix/number ACR 224)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2375. Concepts and procedures for determining the effectiveness and efficiency of an air conditioning system are studied. System balance, capacity, load requirements and energy consumption are considered. Also included are the use of test instruments for measurement of air flow, water flow, energy consumption, and recording of temperature. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2378 Low Temperature Refrigeration Systems (3)
(Last year's course prefix/number ACR 227)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2374. Service and installation procedures for low temperature equipment as found in food stores, warehouses, distribution centers, and industrial plants are presented. Particular attention is given to electrical and mechanical characteristics and to defrost system requirements. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 2379 Air Conditioning System Equipment Selection (3)
(Last year's course prefix/number ACR 228)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2375. Methods of equipment selection are covered for air conditioning load requirements. Consideration is given to system layout, utility service, control schemes, duct sizing, and installation practices. Laboratory fee. (2 Lec., 3 Lab.)

HVAC 2380 Refrigeration Equipment Selection (3)
(Last year's course prefix/number ACR 229)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2376 or 2378. This course presents a procedure for selecting equipment and estimating the capacity of commercial refrigeration systems. Consideration is given to component compatibility, system continuity control, balancing, and efficiency. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2381 Energy Conservation (3)
(Last year's course prefix/number ACR 230)
Prerequisite: Credit or enrollment in Heating, Ventilation and Air Conditioning 2380. The flow of energy in an air conditioning or refrigeration system is examined in depth. Emphasis is on cost effectiveness and energy savings. Practical situations are examined where industry offers a range of equipment or construction designs using various sources of energy with different degrees of efficiency. Laboratory fee. (2 Lec., 2 Lab.)

HVAC 2670 Contractor Estimating (6)
(Last year's course prefix/number ACR 200)
This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 2370 and 2371. Students may register in the comprehensive course or the inclusive courses. The study of load calculations, air duct design, building plans, construction codes, state and local licenses, job estimating and job scheduling are covered in this course. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 2671 System Servicing (6)
(Last year's course prefix/number ACR 212)
Prerequisites: Heating, Ventilation and Air Conditioning 1672 and 1673. This course is a comprehensive course that includes Heating, Ventilation and Air Conditioning 2372 and 2373. Students may register in the comprehensive course or the inclusive courses. This course includes psychometric air properties, system balancing, the service of humidifiers and electronic air cleaners, advanced system trouble-shooting, and system installation. Laboratory fee. (4 Lec., 5 Lab.)

HVAC 7371 Cooperative Work Experience (3)
(Last year's course prefix/number ACR 703)
Prerequisites: Completion of two courses in the Heating, Ventilation and Air Conditioning program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include job interview and job application techniques, job site interpersonal relations, and employer expectations of employees. (1 Lec., 15 Lab.)

HVAC 7372 Cooperative Work Experience (3)
(Last year's course prefix/number ACR 713)
Prerequisites: Completion of two courses in the Heating, Ventilation and Air Conditioning program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, changing jobs, supervising subordinates, and building self-esteem. (1 Lec., 15 Lab.)
HVAC 7471 Cooperative Work Experience (4)
(Second year's course prefix/number ACR 704)
Prerequisites: Completion of two courses in the Heating, Ventilation and Air Conditioning program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include job interview and job application techniques, job site interpersonal relations, and employer expectations of employees. (1 Lec., 20 Lab.)

HVAC 7472 Cooperative Work Experience (4)
(Second year's course prefix/number ACR 714)
Prerequisites: Completion of two courses in the Heating, Ventilation and Air Conditioning program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, changing jobs, supervising subordinates, and building self-esteem. (1 Lec., 20 Lab.)

HISTORY
(See Humanities for former HST 204)

HIST 1301 History Of The United States (3)
(First year's course prefix/number HST 101)
The history of the United States is presented, beginning with the European background and first discoveries. The pattern of exploration, settlement, and development of institutions is followed throughout the colonial period and the early national experience to 1877. (3 Lec.)
(Coordinating Board Academic Approval Number 4508025142)

HIST 1302 History Of The United States (3)
(First year's course prefix/number HST 102)
The history of the United States is surveyed from the Reconstruction era to the present day. The study includes social, economic, and political aspects of American life. The development of the United States as a world power is followed. (3 Lec.)
(Coordinating Board Academic Approval Number 4508025142)

HIST 2311 Western Civilization (3)
(First year's course prefix/number HST 105)
The civilization in the West from ancient times through the Enlightenment is surveyed. Topics include the Mediterranean world, including Greece and Rome, the Middle Ages, and the beginnings of modern history. Particular emphasis is on the Renaissance, Reformation, the rise of the national state, the development of parliamentary government, and the influences of European colonization. (3 Lec.)
(Coordinating Board Academic Approval Number 4508015442)

HIST 2312 Western Civilization (3)
(First year's course prefix/number HST 106)
This course is a continuation of History 2311. It follows the development of civilization from the Enlightenment to current times. Topics include the Age of Revolution, the beginning of Industrialism, 19th century, and the social, economic, and political factors of recent world history. (3 Lec.)
(Coordinating Board Academic Approval Number 4508015442)

HIST 2321 World Civilizations (3)
(First year's course prefix/number HST 103)
This course presents a survey of ancient and medieval history with emphasis on Asian, African, and European cultures. (3 Lec.)
(Coordinating Board Academic Approval Number 4508015342)

HIST 2322 World Civilizations (3)
(First year's course prefix/number HST 104)
This course is a continuation of History 2321. The modern history and cultures of Asia, Africa, Europe, and the Americas, including recent developments, are presented. (3 Lec.)
(Coordinating Board Academic Approval Number 4508015342)

HIST 2370 Latin American History (3)
(First year's course prefix/number HST 112)
This course presents developments and personalities which have influenced Latin American history. Topics include Indian cultures, the Conquistadors, Spanish administration, the wars of independence, and relations with the United States. A brief survey of contemporary problems concludes the course. (3 Lec.)
(Coordinating Board Academic Approval Number is to be assigned. This is a unique need course.)
The human as a loving, believing and hating being is also presented through the context of the humanities. Universal concerns are explored, such as a person's relationship to self and to others and the search for meaning. The human as a loving, believing and hating being is also studied. Emphasis is on the human as seen by artists, playwrights, film makers, musicians, dancers, philosophers, and theologians. The commonality of human experience across cultures and the premises for value choices are also stressed. (3 Lec.)

(Hum 1302) Advanced Humanities (3) 
Prerequisite: Humanities 1301 or demonstrated competence approved by the instructor. Human value choices are presented through the context of the humanities. Universal concerns are explored, such as a person's relationship to self and to others and the search for meaning. The human as a loving, believing and hating being is also studied. Emphasis is on the human as seen by artists, playwrights, film makers, musicians, dancers, philosophers, and theologians. The commonality of human experience across cultures and the premises for value choices are also stressed. (3 Lec.)

(Hum 2319) American Minorities (3) 
Prerequisite: Sociology 1301 or six hours of U.S. history recommended. Students may register for either Humanities 2319 or Sociology 2319 but may receive credit for only one of the two. The principal minority groups in American society are the focus of this course. The sociological significance and historic contributions of the groups are presented. Emphasis is on current problems of intergroup relations, social movements, and related social changes. (3 Lec.)

(Jour 1307) Introduction To Mass Communications (3) 
Note: These courses will carry a Dallas County Community College prefix of "JOUR"; however, most can be identified by a common course number for transfer evaluation purposes. Both are listed in the course descriptions.

(Jour 1370) Student Publications (1) 
Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 2311 or 2315. This course is a continuation of Journalism 2132. (3 Lab.)

(Jour 2131) Student Publications (1) 
Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 2311 or 2315. Individual staff assignments are made for the student newspaper. Assignments may be made in writing, advertising, photography, cartooning, or editing. Student are required to work at prescribed periods under supervision and must attend staff meetings. (3 Lab.)

(Jour 2132) Student Publications (1) 
Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 2311 or 2315. This course is a continuation of Journalism 2131. (3 Lab.)

(Jour 2311) News Gathering And Writing (3) 
Prerequisite: Typing ability. This course focuses upon recognizing newsworthy events, gathering information and writing the straight news story. It provides a basis for future study in newspaper and magazine writing, advertising, broadcast journalism and public relations. Students are required to write for the campus newspaper. (2 Lec., 3 Lab.)

(Jour 2315) News Gathering And Writing II (3) 
Prerequisite: Journalism 2311 or professional experience approved by the instructor. This course is a continuation of Journalism 2311. Students study and practice writing more complex stories, such as features, profiles, follow-up stories, and sidebars. Students are required to write for the campus newspaper. (2 Lec., 3 Lab.)
HIST 2380 The Heritage Of Mexico (3)
(This is a common course number. Last year's course prefix/number HST 110)
This course (cross-listed as Anthropology 1371) is taught in two parts each semester. The first part of the course deals with the archaeology of Mexico beginning with the first humans to enter the North American continent and culminating with the arrival of the Spanish in 1519 A.D. Emphasis is on archaic cultures, the Maya, the Toltec, and the Aztec empires. The second part of the course deals with Mexican history and modern relations between the United States and Mexico. The student may register for either History 2380 or Anthropology 1371, but may receive credit for only one of the two. (3 Lect.)
(Coordinating Board Academic Approval Number 4511015342)

HIST 2381 Afro-American History (3)
(This is a common course number. Last year's course prefix/number HST 120)
The role of the Black in American history is studied. The slave trade and slavery in the United States are reviewed. Contributions of black Americans in the U.S. are described. Emphasis is on the political, economic, and sociological factors of the 20th century. (3 Lect.)
(Coordinating Board Academic Approval Number 4511015342)

HIST 2470 Advanced Historical Studies (3)
(Last year's course prefix/number HST 205)
Prerequisite: Six hours of history. An in-depth study of minority, local, regional, national, or international topics is presented. This course may be repeated for credit when topics vary. (3 Lect.)
(Coordinating Board Academic Approval Number 4508015642)

HUMAN DEVELOPMENT

HDEV 0092 Student Success (3)
(Last year's course prefix/number HD 092)
In this orientation course, students are introduced to academic and personal goal-setting and learning skills that enhance their chances for educational success. Students will learn how to develop positive attitudes toward themselves, improve communication and decision-making skills, and make effective use of campus resources. This course supports students enrolling in other appropriate remediation. (3 Lect.)
(Coordinating Board Academic Approval Number 3201995140)

HDEV 0100 Educational Alternatives (1)
(Last year's course prefix/number HD 100)
The learning environment is introduced. Career, personal study skills, educational planning, and skills for living are all included. Emphasis is on exploring career and educational alternatives and learning a systematic approach to decision-making. A wide range of learning alternatives is covered, and opportunity is provided to participate in personal skills seminars. This course may be repeated for credit. (1 Lect.)
(Coordinating Board Academic Approval Number 3201995140)

HDEV 0110 Assessment Of Prior Learning (1)
(Last year's course prefix/number HD 110)
Prerequisite: Limited to students in Technical-Occupational Programs. Demonstrated competence approved by the instructor is required. This course is designed to assist students in documenting prior learning for the purpose of applying for college credit. Students develop a portfolio which includes a statement of educational/career goals, related noncollegiate experiences which have contributed to college-level learning, and documentation of such experiences. This course may be repeated for credit. (1 Lect.)
(Coordinating Board Academic Approval Number 3201995140)

HDEV 1370 Educational And Career Planning (3)
(Last year's course prefix/number HD 104)
This course is designed to teach students the ongoing process of decision-making as it relates to career/life and educational planning. Students identify the unique aspects of themselves (interests, skills, values). They investigate possible work environments and develop a plan for personal satisfaction. Job search and survival skills are also considered. (3 Lect.)
(Coordinating Board Academic Approval Number 4210015140)

HDEV 1371 Principles And Processes Of Personal And Social Adjustment (3)
(Last year's course prefix/number HD 112)
This course is a presentation of the ways in which the psychological principles of human behavior apply to personal and social adjustment. The course content is designed as an intensive theoretical and experiential study of interpersonal and socio-cultural relationships and an exploration of the behavioral patterns that promote effective adjustment. (3 Lect.)
(Coordinating Board Academic Approval Number 4210015140)

HDEV 1372 Cognitive Processes: The Master Student Course (3)
(Last year's course prefix/number HD 108)
This course is an overview of the processes of learning, memory, perception, language and thought. Special emphasis is placed upon the practical applications of these psychological principles for students to learn, practice and adopt in support of their success in college. (3 Lect.)
(Coordinating Board Academic Approval Number to be assigned. This is a unique need course.)

HUMANITIES

HUMA 1301 Introduction To The Humanities (3)
(This is a common course number. Last year's course prefix/number HUM 101)
Introduction to the Humanities focuses on the study and appreciation of the fine and performing arts and the ways in which they reflect the values of civilizations. (3 Lect.)
(Coordinating Board Academic Approval Number 5007035130)
Principles Of Advertising (3)

Fundamentals of advertising, including advertising appeals, print and broadcast copy writing, and design and selection of media will be covered. Typography as it relates to advertising is stressed. The course will provide students with the concepts they will need to go into the advertising field and into advanced advertising courses. (3 Lec.)

News Editing And Copy Reading (3)

Prerequisite: Journalism 2311. This course focuses on editing news for newspaper, radio, and television. Emphasis is on writing headlines and laying out pages. (3 Lec.)

Introduction To Legal Technology (3)

Legal technology is introduced. Topics include the legal technician concept, the legal profession and unauthorized practice, legal ethics and the "new profession" concept. The history and areas of American law are also included. Legal research, bibliography, legal drafting, and writing are also covered. (3 Lec.)

Law Of Real Property And Real Estate Transactions (3)

The law of real property and common real estate transactions are studied. The system of recording and the search of public documents are also covered. (3 Lec.)

Principles Of Family Law (3)

Family law is surveyed. Divorce, separation, custody, legitimacy, adoption, change of name, guardianship, support, domestic relations court procedures, and separation agreements are studied. (3 Lec.)

Texas And Federal Court Systems (3)

The Texas and federal courts are studied. Legal practices related to the courts and principles of court administration are examined. (3 Lec.)

Introductory Legal Research And Drafting (3)

Prerequisites: Legal Assistant 1370 and 1373 and English 1301. This course familiarizes the beginning legal assistant student with operation of a typical law library and the use of various legal research materials and tools. General and Texas legal research resources are emphasized. The student also studies legal research terminology, introductory computerized legal research techniques, and "shepardizing." Basic citation form for legal resource material is discussed. The student is given several opportunities to research rudimentary legal problems and write short case reports and legal memoranda. (3 Lec.)

Legal Assistant Special Topics (3)

Prerequisites: Legal Assistant 1370 and 1373 and English 1301. Students participate in identifying, defining and analyzing current topics of interest in legal assistant services. The course emphasizes present career needs and problems, and students are guided to offer realistic and workable solutions which include the knowledge of legal concepts and principles involved in legal assistant careers. (3 Lec.)

Business Organizations (3)

This course is a study of the practical aspects of the law of business organizations, including a "how-to-do-it" approach, with explanation of the legal principles which must be observed in counseling and enterprise. This course covers the common law principles of proprietorships and reviews the Uniform Partnership Act, the Uniform Limited Partnership Act, and the Model Business Corporation Act as they have been used and adopted in Texas law. (3 Lec.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LEGL 2372</td>
<td>Civil Litigation I (3)</td>
<td></td>
<td>Legal Assistant 1370, 1373, English 1301 or demonstrated competence approved by the instructor. This course is an overview of civil litigation in both state and federal courts with particular emphasis on the areas in which a legal assistant can assist the trial attorney. Particular attention is paid to preparation for litigation (interviewing clients and witnesses, reviewing public information), discovery proceedings (interrogatories, requests for admissions, depositions and document production), pretrial proceedings (motions to dismiss, motions for summary judgment, pretrial orders), and trial (witnesses and exhibits). Attention is also devoted to practical techniques required to cope with protracted or complex litigation, including organization of pleadings, documents and depositions; preparation of summaries, chronologies and indices; and maintaining a complex file in an orderly manner. Mention is made of the legal theories involved in complex litigation (e.g., product liability, civil rights, securities, and antitrust). Principal emphasis is on procedural techniques rather than substantive areas of law. (3 Lec.)</td>
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<tr>
<td>LEGL 2373</td>
<td>Income Taxation (3)</td>
<td></td>
<td>Legal Assistant 1370 and 1373 or demonstrated competence approved by the instructor. This course is a study of federal, state and local income taxation including discussion of tax-paying entities such as individuals, estates, trusts and corporations. Emphasis is on training in basic legal research skills related to income tax materials. (3 Lec.)</td>
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<tr>
<td>LEGL 2374</td>
<td>Wills, Trusts, And Probate Administration (3)</td>
<td></td>
<td>Legal Assistant 1370, 1371 and 1373 or demonstrated competence approved by the instructor. The forms and principles of law for wills and trusts are covered. The organization and jurisdiction of the Texas Probate Court are studied. The administration of estates under the Texas Probate Code is analyzed, and estate and inheritance taxes are reviewed. (3 Lec.)</td>
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<tr>
<td>LEGL 2375</td>
<td>Tort And Insurance Law And Claims Investigation (3)</td>
<td></td>
<td>Legal Assistant 1370, 1373, and English 1301 or demonstrated competence approved by the instructor. The law of torts and insurance is the focus of this course. The techniques of investigation involved in tort and insurance claims are considered, and the various forms of pleadings for making the claims are studied. (3 Lec.)</td>
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<tr>
<td>LEGL 2376</td>
<td>Personal Property, Sales And Credit Transactions (3)</td>
<td></td>
<td>Legal Assistant 1370, 1373, and English 1301 or demonstrated competence approved by the instructor. The law of personal property and contracts is presented. Included are the special forms related to the law of sales and credit transactions and special drafting problems of various instruments and legal research projects. The Uniform Commercial Code and its effect are also included. (3 Lec.)</td>
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<tr>
<td>LEGL 2377</td>
<td>Legal Office Management (3)</td>
<td></td>
<td>Legal Assistant 1370 and 1373 and English 1301. All aspects of law office management are covered. Topics include office organization, bookkeeping and accounting, fees and billing procedures, scheduling and calendaring, and ethics. Management of personnel, proofreading, file preparation, legal drafting, and procedures for specialized areas of law are also included. Trust accounts, law office forms, checklists and files, and disbursement on behalf of clients are covered. This course may be repeated for credit. (3 Lec.)</td>
</tr>
<tr>
<td>LEGL 2378</td>
<td>Advanced Legal Research and Drafting (3)</td>
<td></td>
<td>Legal Assistant 1370, 1373 and 1374 and English 1301. This course familiarizes the students with advanced legal research materials, particularly federal legal resources. Students continue their study from Legal Assistant 1374 of computerized legal research techniques. This course also continues training in citation form begun in Legal Assistant 1374. The student is given several opportunities to research various legal problems and to write legal documents such as an appellate brief. This course may be repeated for credit. (3 Lec.)</td>
</tr>
<tr>
<td>LEGL 2379</td>
<td>Constitutional And Criminal Law (3)</td>
<td></td>
<td>Legal Assistant 1370 and 1373 and English 1301. This course covers freedom of communication and religion, individual privacy, private property and contractual rights, and criminal justice. Also studied are procedural due process and discrimination, rights and privileges of citizenship, states' powers and limitations, theories of federal government and its powers, congressional powers, the presidency, and the courts system and judicial review of constitutional issues. Special emphasis is put on the elements of criminal law and evidence with practice given on drafting documents related to these areas. (3 Lec.)</td>
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LEGL 2380 Civil Litigation II (3)  
Prerequisite: Legal Assistant 2372. This course is a study coordinated with other legal technology courses at an advanced level. It includes specialized study and training in the preparation for and procedures of advanced litigation, including discovery and pretrial procedures, and specialized study of the basic legal concepts of antitrust and securities law, as well as the practical application of those concepts as the predominant topics of advanced litigation.  
(3 Lec.)

LEGL 2381 Bankruptcy and Creditors' Rights (3)  
Prerequisites: Legal Assistant 1370 and 1373 and English 1301. This course provides the student with a historical overview of the Bankruptcy Code, Title 11, U.S.C., and understanding of the stages generally applicable to bankruptcy proceedings. The student will acquire a practical, comprehensive knowledge of chapters 7, 9, 11, and 13 of the Bankruptcy Code; the operations of the United States Trustee's Office; recovery of fraudulent and preferential transfers; creditors' rights under the Bankruptcy Code; and use of bankruptcy forms and schedules. Emphasis is put on preparation of documents related to this topic.  
(3 Lec.)

LEGL 2382 Oil and Gas Law (3)  
Prerequisite: Legal Assistant 1371 or demonstrated competence approved by the instructor. Oil and gas law's history, terminology, and principle instruments are examined. Litigation of oil and gas matters, title determination, division of interest, and major regulatory agencies are also discussed.  
(3 Lec.)

LEGL 7371 Cooperative Work Experience (3)  
Prerequisites: Completion of two courses in the Legal Assistant program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of topics which include job site interpersonal relations, employer expectations of employees, analysis of job market research and changing jobs.  
(1 Lec., 20 Lab.)

LEGL 7372 Cooperative Work Experience (3)  
Prerequisites: Completion of two courses in the Legal Assistant program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of topics which include job site interpersonal relations, employer expectations of employees, analysis of job market research and changing jobs.  
(1 Lec., 20 Lab.)

LEGR 7471 Cooperative Work Experience (4)  
Prerequisites: Completion of two courses in the Legal Assistant program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of topics which include preparation of resumes, job application and interview techniques, organizational skills and building self-esteem.  
(1 Lec., 20 Lab.)

LEGR 7472 Cooperative Work Experience (4)  
Prerequisites: Completion of two courses in the Legal Assistant program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of topics which include job site interpersonal relations, employer expectations of employees, analysis of job market research and changing jobs.  
(1 Lec., 20 Lab.)

LIBRARY SKILLS

LIBR 1370 College Library Research Methods and Materials (3)  
This course is a survey of college research methodologies and materials with emphasis on search strategies appropriate for college-level research in the undergraduate disciplines, the structure and assessment of information sources within society, and the organization of academic libraries. Attention will also be given to the formal presentation of research results, including models of academic writing, bibliographic preparation and documentation standards.  
(3 Lec.)

(Coordinating Board Academic Approval Number to be assigned. This is a unique need course.)
MGMT 1370 Principles Of Management (3)
(Last year's course prefix/number MGT 136)
This course emphasizes the managerial functions of planning, organizing, staffing, directing, and controlling. Communication, motivation, leadership, and decision making are included. (3 Lec.)

MGMT 1371 Introduction To Total Quality Management (3)
(Last year's course prefix/number MGT 140)
This survey course is designed to provide students with a general overview of quality management. Participants will learn the various components and features unique to total quality. Course content will include: the Deming philosophy of quality, statistical process control tools for problem solving, fitness for use criteria, steps to statistical based management, data collection, team building and employee management strategies. (3 Lec.)

MGMT 1372 Small Business Management (3)
(Last year's course prefix/number MGT 153)
Small Business Management presents an introductory view of the basic entrepreneurial strategies for planning, financing, establishing, and operating a small business. Resources for both initial start-up and day-to-day operations are emphasized including market research, site selection, and such services as financial, legal, and accounting. (3 Lec.)

MGMT 1373 Principles Of Purchasing (3)
(Last year's course prefix/number MGT 160)
An introduction to the purchasing function is provided. The course covers purchasing tasks and responsibilities, analytical techniques in buying, organizational interrelationships and coordination, measurement and control, and legal implications. Special emphasis is placed on the five tenets of buying: quality, quantity, time, price and source. (3 Lec.)

MGMT 1374 Introduction To Supervision (3)
(Last year's course prefix/number MGT 171)
This course is a study of today's supervisors and their problems. The practical concepts of modern-day, first-line supervision are described. Emphasis is on the supervisor's major functions, such as facilitating relations with others, leading, motivating, communicating, and counseling. (3 Lec.)

MGMT 2170 Special Problems In Business (1)
(Last year's course prefix/number MGT 212)
Each student will participate in the definition and analysis of current business problems. Special emphasis will be placed on relevant problems and pragmatic solutions that integrate total knowledge of the business process in American society. This course may be repeated for credit up to a maximum of three credit hours. (1 Lec.)

MGMT 2370 Small Business Capitalization, Acquisition And Finance (3)
(Last year's course prefix/number MGT 210)
Prerequisite: Accounting 2301 or demonstrated competence approved by instructor. The student studies alternative strategies of financial planning, capitalization, profits, acquisition, ratio analysis, and other related financial operations required of small business owners. The preparation and presentation of a loan proposal are included. (3 Lec.)

MGMT 2371 Small Business Operations (3)
(Last year's course prefix/number MGT 211)
Skills in decision making necessary for the operation of a small business are covered. Topics include strategic planning, forecasting, organizational structure, and the expansion of such business functions as human resources, marketing, finance and accounting, purchasing, and control processes. (3 Lec.)

MGMT 2372 Special Problems In Management (3)
(Last year's course prefix/number MGT 232)
Topics will vary and will be annotated in each semester's schedule. Selection of topics will be based on current areas of interest expressed by service area management students and employers. (3 Lec.)

MGMT 2373 Organizational Behavior (3)
(Last year's course prefix/number MGT 237)
The persisting human problems of administration in modern organizations are covered. The theory and methods of behavioral science as they relate to organizations are included. (3 Lec.)

MGMT 2374 Human Resources Management (3)
(Last year's course prefix/number MGT 242)
This course presents the fundamentals, theories, principles, and practices of people management. Emphasis is on people and their employment. Topics include recruitment, selection, training, job development, interactions with others, labor/management relations, and government regulations. The managerial functions of planning, organizing, staffing, directing, and controlling are also covered. (3 Lec.)

MGMT 2375 Problem Solving And Decision-Making (3)
(Last year's course prefix/number MGT 244)
The decision-making process and problem-solving as key components are the focus of this course. Topics include: individual, group, and organizational decision-making; logical and creative problem-solving techniques; and the use of decision aids by managers. Application of theory is provided by experiential activities such as small group discussions, case studies, and simulations. (3 Lec.)
MGMT 7371 Cooperative Work Experience (3)  
(Old year's course prefix/number MGT 703)  
Prerequisite: Previous credit in or concurrent enrollment in Management 1374 or demonstrated competence approved by the instructor. This course is designed to develop the student's managerial skills through the completion of a written competency-based learning plan describing varied student learning objectives and planned work experience. Emphasis is on improving leadership skills and goal-setting. (1 Lec., 14 Lab.)

MGMT 7372 Cooperative Work Experience (3)  
(Old year's course prefix/number MGT 713)  
Prerequisite: Previous credit in or concurrent enrollment in Management 2374 or demonstrated competence approved by the instructor. This course is designed to develop the student's managerial skills through the completion of a written competency-based learning plan describing varied student learning objectives and planned work experience. Emphasis is on the role of managers in job analysis/job descriptions and interviewing techniques. (1 Lec., 14 Lab.)

MGMT 8381 Cooperative Work Experience (3)  
(Old year's course prefix/number MGT 803)  
Prerequisite: Previous credit in or concurrent enrollment in Management 2373 or demonstrated competence approved by the instructor. This course is designed to develop the student's managerial skills through the completion of a written competency-based learning plan describing varied student learning objectives and planned work experience. Emphasis is on improving motivational techniques and communicating. (1 Lec., 14 Lab.)

MGMT 8382 Cooperative Work Experience (3)  
(Old year's course prefix/number MGT 813)  
Prerequisite: Previous credit in or concurrent enrollment in Management 2375 or demonstrated competence approved by the instructor. This course is designed to develop the competency-based learning plan describing varied student learning objectives and planned work experience. Emphasis is on individual and group decision-making and rational and creative problem solving. (1 Lec., 14 Lab.)

MARKETING CAREERS

MRKT 1370 Principles Of Retailing (3)  
(Old year's course prefix/number MKT 137)  
The operation of the retail system of distribution is examined. Topics include consumer demand, requirements, computer use, store location and layout, and credit policies. Interrelationships are emphasized. (3 Lec.)

MRKT 1770 Special Topics In Fashion Marketing (1)  
(Old year's course prefix/number MKT 211)  
Selected topics in fashion marketing are presented in this course which may include showroom management, fashion markets, apparel production, cultural and international influences. Special topics may vary from semester to semester to address contemporary concerns. This course may be repeated for credit when topics vary, up to a maximum of three credit hours. (1 Lec.)

MRKT 2270 Special Topics In Fashion Marketing (2)  
(Old year's course prefix/number MKT 212)  
Selected topics in fashion marketing are presented in this course which may include showroom management, fashion markets, apparel production, cultural and international influences. Special topics may vary from semester to semester to address contemporary concerns. This course may be repeated for credit when topics vary, up to a maximum of four credit hours. (2 Lec.)

MRKT 2370 Principles Of Marketing (3)  
(Old year's course prefix/number MKT 206)  
The scope and structure of marketing are examined. Marketing functions, consumer behavior, market research, sales forecasting, and relevant state and federal laws are analyzed. (3 Lec.)

MRKT 2371 Special Topics In Fashion Marketing (3)  
(Old year's course prefix/number MKT 223)  
Selected topics in fashion marketing are presented in this course which may include showroom management, fashion markets, apparel production, cultural and international influences. Special topics may vary from semester to semester to address contemporary concerns. This course may be repeated for credit when topics vary, up to a maximum of six credit hours. (3 Lec.)

MRKT 2372 Computer Graphics: Marketing Applications (3)  
(Old year's course prefix/number MKT 224)  
This course presents an overview of computer graphics systems utilizations in design, manufacturing and marketing. Students will generate advertising and product presentations, sketches, charts, graphs, slides, transparencies and videos with specialized graphics hardware and software. No prior computer experience is necessary. (3 Lec., 1 Lab.)

MRKT 2373 Salesmanship (3)  
(Old year's course prefix/number MKT 230)  
The selling of goods and ideas is the focus of this course. Buying motives, sales psychology, customer approach, and sales techniques are studied. (3 Lec.)
MRKT 2374 Advertising And Sales Promotion (3)
(Last year's course prefix/number MKT 233)
This course introduces the principles, practices, and media of persuasive communication. Topics include buyer behavior, use of advertising media, and methods of stimulating sales people and retailers. The management of promotion programs is covered, including goals, strategies, evaluation, and control of promotional activities. (3 Lec.)

MRKT 2375 Automated Inventory Management (3)
(Last year's course prefix/number MKT 239)
Through the use of computer models, students will operate their own retail stores with emphasis on inventory management. Intensive practice with buying, markdowns, price tag generation, sales, and analysis will be emphasized. Accounts payable for store vendors, and accounts receivable for store customers will also be covered. Laboratory fee. (3 Lec., 1 Lab.)

MRKT 2376 Visual Merchandising (3)
(Last year's course prefix/number MKT 251)
Concepts and skills essential to effectively promote fashion merchandise are the focus of this course. Experience will be gained in principles and elements of design, color, props, lighting, sign layout, budget, themes and sources of materials. These components will be applied to the creation of interior and window displays that sell. Laboratory fee. (3 Lec., 1 Lab.)

MRKT 2377 Fashion Buying (3)
(Last year's course prefix/number MKT 290)
This course focuses on the principles of fashion buying. It is designed to prepare the student for employment as an assistant buyer or buyer of fashion merchandise. (3 Lec.)

MRKT 2380 Fashion Merchandising and Promotion (3)
(Last year's course prefix/number MKT 231)
An overview of the fashion industry including career opportunities, domestic and foreign markets, fashion vocabulary, fashion theories, and promotion. Emphasis will be placed on all aspects of fashion sales promotion as well as the application of basic fashion merchandising principles. (3 Lec.)

MRKT 2381 Fashion Trends and Research (3)
(Last year's course prefix/number MKT 235)
Students will expand their knowledge of silhouette, color, fashion designers, fabric and apparel development, design and production. Emphasis will be placed on the relationship of demographic and lifestyle trends to current fashion trends. Readings, research, demonstrations, and projects will focus on trend tracking and the development of a fashion product for a particular market segment. (3 Lec.)

MRKT 2382 Customer Service (3)
(Last year's course prefix/number MKT 237)
Focus on customer service as a strategic element of marketing and retail operations. Topics include customer service objectives, training and development, and support and evaluation. Practice in verbal and nonverbal communications, along with experience in writing service reviews and recommendations are emphasized. (3 Lec.)

MRKT 7371 Cooperative Work Experience (3)
(Last year's course prefix/number MKT 703)
Prerequisite: Completion of two courses in the Fashion Marketing, or Sales, Marketing and Retail programs or demonstrated competence approved by the instructor. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. Seminar topics will include personal issues, business ethics, customer service and interpersonal skills. Analysis and evaluation of job performance will be completed by faculty and employer. (1 Lec., 15 Lab.)

MRKT 7372 Cooperative Work Experience (3)
(Last year's course prefix/number MKT 713)
Prerequisite: Previous credit in Marketing 7371, completion of two courses in the Fashion Marketing or Sales, Marketing and Retail programs or demonstrated competence approved by the instructor. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experience. Students must develop new learning objectives each semester. Seminar topics in the areas of business, communications, organizational behavior, networking, and professional organizations will be included. Analysis and evaluation of job performance will be completed by faculty and employer. (1 Lec., 15 Lab.)

MATHEMATICS
(See Developmental Mathematics also. Supplementary instruction in mathematics is available through the Learning Resources Center.)
MATH 1314 College Algebra (3)
(This is a common course number. Last year’s course prefix/number MTH 101)
Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0093. This course is a study of relations and functions including polynomial, rational, exponential, logarithmic, and special functions. Other topics include variation, complex numbers, systems of equations and inequalities, theory of equations, progressions, the binomial theorem, proofs, and applications. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015437)

MATH 1316 Plane Trigonometry (3)
(This is a common course number. Last year’s course prefix/number MTH 102)
Prerequisite: Mathematics 1314 or Mathematics 1470 or equivalent. This course is a study of angular measures, functions of angles, identities, solutions of triangles, equations, inverse trigonometric functions, and complex numbers. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015337)

MATH 1324 Mathematics For Business And Economics I (3)
(This is a common course number. Last year’s course prefix/number MTH 111)
Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0093. This course includes equations, inequalities, matrices, linear programming; linear, quadratic, polynomial, rational, exponential, and logarithmic functions; and probability. Applications to business and economics problems are emphasized. (3 Lec.)
(Coordinating Board Academic Approval Number 2703015237)

MATH 1325 Mathematics For Business And Economics II (3)
(This is a common course number. Last year’s course prefix/number MTH 112)
Prerequisite: Mathematics 1324. This course includes limits, differential calculus, integral calculus, and appropriate applications. (3 Lec.)
(Coordinating Board Academic Approval Number 2703015237)

MATH 1332 College Mathematics I (3)
(This is a common course number. Last year’s course prefix/number MTH 115)
Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0093. Designed for liberal arts students, this course includes the study of sets, logic, sets of numbers, and mathematical systems. Additional topics will be selected from mathematics of finance, introduction to computers, introduction to statistics, and introduction to matrices. Recreational and historical aspects of selected topics are also included. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015137)

MATH 1333 College Mathematics II (3)
(This is a common course number. Last year’s course prefix/number MTH 116)
Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0093. Designed for liberal arts students, this course includes the study of algebra, linear programming, permutations, combinations, probability, and geometry. Recreational and historical aspects of selected topics are also included. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015137)

MATH 1335 Fundamental Concepts Of Mathematics For Elementary Teachers (3)
(This is a common course number. Last year’s course prefix/number MTH 117)
Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 0093. This course includes the structure of the real number system and geometry. Emphasis is on the development of mathematical reasoning needed for elementary teachers. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015137)

MATH 1342 Introductory Statistics (3)
(This is a common course number. Last year’s course prefix/number MTH 202)
Prerequisite: Two years of high school algebra or demonstrated competence approved by the instructor. This course is a study of collection and tabulation of data, bar charts, graphs, sampling, measures of central tendency and variability, correlation, index numbers, statistical distributions, probability, and application to various fields. (3 Lec.)
(Coordinating Board Academic Approval Number 2705015137)

MATH 1348 Analytic Geometry (3)
(This is a common course number. Last year’s course prefix/number MTH 121)
Prerequisite: Mathematics 1316 or equivalent. This course is a study of the real numbers, distance, the straight line, conics, transformation of coordinates, polar coordinates, parametric equations, and three-dimensional space. (3 Lec.)
(Coordinating Board Academic Approval Number 2701015537)

MATH 1371 Business Mathematics (3)
(Last year’s course prefix/number MTH 130)
Prerequisites: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 0091 or equivalent. This course is intended primarily for students in specialized occupational programs. It is a study of simple and compound interest, bank discount, payrolls, taxes, insurance, mark up and mark down, corporate securities, depreciation, and purchase discounts. (3 Lec.)
MATH 1372 Mathematics for Allied Health (3)
(Previous year's course prefix/number MTH 130)
Prerequisite: Developmental Mathematics 0090 or an appropriate test score. This course is a study of percents, apothecary system, metric system, linear equations, literal equations, gas laws, magnification laws, and statistics which includes histograms, bar graphs, pie-charts, averages, standard deviations and variances. Also included are basic concepts of geometry. (3 Lec.)

MATH 1373 Applied Mathematics (3)
(Previous year's course prefix/number MTH 138)
The course is a study of commercial, technical, and other applied uses of mathematics. Topics vary to fit the needs of the students enrolled in a particular technical/occupational program. The prerequisite will vary accordingly and be determined by the needed skills. (3 Lec.)

MATH 1374 Technical Mathematics I (3)
(Previous year's course prefix/number MTH 185)
Prerequisites: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 0091 or equivalent. This course is designed for technical students. It covers the basic concepts and fundamental facts of plane and solid geometry, computational techniques and devices, units and dimensions, the terminology and concepts of elementary algebra, functions, coordinate systems, simultaneous equations, and stated problems. (3 Lec.)

MATH 1375 Technical Mathematics II (3)
(Previous year's course prefix/number MTH 196)
Prerequisite: Mathematics 1374. This course is designed for technical students. It includes a study of topics in algebra, an introduction to logarithms, and an introduction to trigonometry, trigonometric functions, and the solution of triangles. (3 Lec.)

MATH 1470 College Algebra (4)
(Previous year's course prefix/number MTH 103)
Prerequisites: Two years of high school algebra and an appropriate assessment score or Developmental Mathematics 0093. This course is a study of relations and functions including polynomial, rational, exponential, logarithmic, and special functions. Other topics include variation, complex numbers, systems of equations and inequalities, theory of equations, progressions, the binomial theorem, proofs, and applications. (4 Lec.)

MATH 2305 Discrete Mathematics (3)
(This is a common course number. Previous year's course prefix/number MTH 215)
Prerequisites: Mathematics 2513 and an introductory programming course. This course is a study of sets, algebraic structures (relations, functions, groups, and Boolean Algebra), combinatorics, graphs, logic, algorithms, and applications to computing devices. (3 Lec.)

MATH 2312 Precalculus Mathematics (4)
(This is a common course number. Previous year's course prefix/number MTH 109)
Prerequisites: Two years of high school algebra and trigonometry and an appropriate assessment test score. This course consists of the application of algebra and trigonometry to the study of polynomial, rational, exponential, logarithmic and trigonometric functions and their graphs. Conic sections, polar coordinates, and other topics of analytic geometry will be included. (4 Lec.)

MATH 2315 Calculus III (3)
(This is a common course number. Previous year's course prefix/number MTH 228)
Prerequisite: Mathematics 2414 or equivalent. This course is a study of topics in vector calculus, functions of several variables, and multiple integrals, with applications. (3 Lec.)

MATH 2318 Linear Algebra (3)
(This is a common course number. Previous year's course prefix/number MTH 221)
Prerequisite: Mathematics 2513 or equivalent. This course is a study of matrices, linear equations, dot products, cross products, geometrical vectors, determinants, n-dimensional space, and linear transformations. (3 Lec.)

MATH 2320 Differential Equations (3)
(This is a common course number. Previous year's course prefix/number MTH 230)
Prerequisite: Mathematics 2414 or demonstrated competence approved by the instructor. This course is a study of ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, boundary value problems, and applications. (3 Lec.)

MATH 2370 Technical Mathematics III (3)
(Previous year's course prefix/number MTH 287)
Prerequisite: Mathematics 1375. This course will introduce the concepts and applications of calculus used in the field of Engineering Technology. Included are basic concepts from analytic geometry, differential calculus, and integral calculus. Practical application of the derivative and of integration in technology will be emphasized. (3 Lec.)
MATH 2414 Calculus II (4)  
(This is a common course number. Last year's course prefix/number MTH 225)  
Prerequisite: Mathematics 2513 or equivalent. This course is a study of techniques of integration, polar coordinates, parametric equations, topics in vector calculus, sequences, series, indeterminate forms, and partial differentiation with applications. (4 Lec.)  
(Coordinating Board Academic Approval Number 2701015937)

MATH 2513 Calculus I (5)  
(This is a common course number. Last year's course prefix/number MTH 124)  
Prerequisite: Mathematics 2312 or 1348 or equivalent. This course is a study of limits, continuity, derivatives, and integrals of algebraic and transcendental functions, with applications. (5 Lec.)  
(Coordinating Board Academic Approval Number 2701015937)

MORTGAGE BANKING

MOBA 1170 Loan Quality Control (1)  
(Last year’s course prefix/number MB 104)  
This course provides the student with the understanding of quality control, its purpose and procedure. The student will learn to distinguish abnormal unacceptable transactions as well as to resolve the deficiencies noted. (1 Lec.)

MOBA 1370 Loan Origination (3)  
(Last year’s course prefix/number MB 101)  
This course provides the student with an introduction to the mortgage loan application process. Topics include regulatory compliance and documentation, real estate sales contracts, how to pre-qualify borrowers and how to explain the mortgage application to borrowers. (3 Lec.)

MOBA 1372 Loan Underwriting (3)  
(Last year’s course prefix/number MB 102)  
This course is designed to provide the student with an in-depth training of mortgage loan underwriting for all facets of conventional loans as well as some discussion of FHA/VA lending practices. It provides a thorough understanding of Underwriting Guidelines as set forth by the Federal National Mortgage Association, Federal Home Loan Mortgage Corporation and most Institutional type lenders. Topics include analyzing and evaluating documentation, analyzing IRS forms and working with private and secondary market investors. (3 Lec.)

MOBA 1373 Loan Closing (3)  
(Last year’s course prefix/number MB 103)  
This course provides the student with comprehensive training in mortgage loan closing with an in-depth study of title commitments/policies, engineer’s survey, deed restrictions, and various documents (legal and other) used for residential mortgage loans. (3 Lec.)

MOBA 2370 Loan Servicing (3)  
(Last year’s course prefix/number MB 205)  
This specialized course examines how mortgage lenders handle loans from the time a loan is closed until the final payment is made. The course focuses on the legal aspects and actual procedures used in the daily operations of the loan servicing function. Topics include escrow accounting, contract servicing, governmental regulations, taxing authorities and establishing tax rates and economic impacts of delinquency. (3 Lec.)

MOBA 2372 Secondary Market (3)  
(Last year’s course prefix/number MB 206)  
This course provides a study of the purpose of the secondary mortgage market and its history. Included are review of the policies and programs of the major secondary market conduits; review of the basic strategies used in the selling of closed real estate mortgages into the secondary market; conventional and government segments; mortgage backed securities and bonds; regulatory requirements; GNMA mortgage backed securities; preparing and completing loans for sale and in servicing sold loans. Other topics are institutional and non-institutional lenders and characteristics provided; overview of types of mortgages; history, and alternative mortgage instruments. (3 Lec.)

MOBA 2373 Investor Accounting (3)  
(Last year’s course prefix/number MB 207)  
This course provides the student with an introduction to accounting and investor reporting functions that relate to the financial aspects of servicing mortgages that are in either a first or second position. Topics include custodial and remittance accounting methods, reporting procedures and rules for establishment of a custodial account. (3 Lec.)

MOBA 7471 Cooperative Work Experience (4)  
(Last year’s course prefix/number MB 704)  
Prerequisites: Completion of two core Mortgage Banking courses, concurrent enrollment in a core or related course or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of the development of a personalized on-the-job training plan and discussions with field experts on the application of mortgage banking fundamentals which may include finance, law, lending practices, government regulations and servicing. (1 Lec., 20 Lab.)
MOBA 7472 Cooperative Work Experience (4)
(First year’s course prefix/number MB 714)
Prerequisites: Completion of two core Mortgage Banking courses, concurrent enrollment in a core or related course or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of the development of a personalized on-the-job training plan and discussions with field experts on the application of mortgage banking fundamentals which may include finance, law, lending practices, government regulations and servicing. (1 Lec., 20 Lab.)

MUSIC
(Music [MUSI] and Applied Music [MUAP])

MUSI 1116 Musicianship I (1)
(This is a common course number. Last year’s course prefix/number MUS 161)
Prerequisite: Music 1300 and 1371 or demonstrated competence approved by the instructor. Keyboard skills and aural skills (including sight-singing and ear training) are developed. It is recommended that students enrolled in Music 1311 enroll in this course. (3 Lab.)
(Coordinating Board Academic Approval Number 5009045630)

MUSI 1117 Musicianship II (1)
(This is a common course number. Last year’s course prefix/number MUS 162)
Prerequisite: Music 1116. This course is a continuation of Music 1116. It is recommended that students enrolled in Music 1312 enroll in this course. (3 Lab.)
(Coordinating Board Academic Approval Number 5009045630)

MUSI 1123 Orchestra (1)
(This is a common course number. Last year’s course prefix/number MUS 170)
Prerequisite: Demonstrated competence approved by the instructor. Experience is provided in performing and reading orchestral literature and in participating in the college orchestra. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035530)

MUSI 1125 Jazz Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 184)
Prerequisite: Demonstrated competence approved by the instructor. The jazz ensemble reherses and performs a variety of jazz styles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035530)

MUSI 1132 Keyboard Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 174)
Prerequisite: Demonstrated competence approved by the instructor. A group of keyboard instrumentalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1133 Woodwind Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 171)
Prerequisite: Demonstrated competence approved by the instructor. A group of woodwind instrumentalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1134 Brass Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 172)
Prerequisite: Demonstrated competence approved by the instructor. A group of brass instrumentalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1137 Guitar Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 103)
Music composed and arranged for a guitar ensemble is performed. Works for a guitar and a different instrument or for guitar and a voice are also included. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1138 Percussion Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 173)
Prerequisite: Demonstrated competence approved by the instructor. A group of percussion instrumentalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1139 String Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 175)
Prerequisite: Demonstrated competence approved by the instructor. A group of string instrumentalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 5009035630)
This course is an entry-level performance course designed to teach students the basic theoretical concepts and performance skills necessary to perform on synthesizers. (3 lab.) (Coordinating Board Academic Approval Number 5009035630)

MUSI 1143 Vocal Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 155)
Prerequisite: Demonstrated competence approved by the instructor. Activities include study and performance of specialized choral literature suitable for more advanced students. This course may be repeated for credit. (3 Lab.) (Coordinating Board Academic Approval Number 5009035730)

MUSI 1151 Chamber Ensemble (1)
(This is a common course number. Last year’s course prefix/number MUS 177)
Prerequisite: Demonstrated competence approved by the instructor. A group of chamber instrumentalists or vocalists read and perform literature for small ensembles. This course may be repeated for credit. (3 Lab.) (Coordinating Board Academic Approval Number 5009035830)

MUSI 1152 Madrigal Singers (1)
(This is a common course number. Last year’s course prefix/number MUS 156)
A group of vocalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.) (Coordinating Board Academic Approval Number 5009035830)

MUSI 1160 Italian Diction (1)
(This is a common course number. Last year’s course prefix/number MUS 105)
The phonetic sounds of the Italian language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.) (Coordinating Board Academic Approval Number 5009085330)

MUSI 1161 English Diction (1)
(This is a common course number. Last year’s course prefix/number MUS 108)
The phonetic sounds of the English language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.) (Coordinating Board Academic Approval Number 5009085330)

MUSI 1170 Synthesizer Class I (1)
(Last year’s course prefix/number MUS 147)
Prerequisite: Music 1181 or prior music synthesizer experience. This course is an entry-level performance course designed to teach students the basic theoretical concepts and performance skills necessary to perform on synthesizers. (3 Lab.) (Coordinating Board Academic Approval Number 5009037130)

MUSI 1172 Synthesizer Class II (1)
(Last year’s course prefix/number MUS 148)
Prerequisite: Music 1170 or prior music synthesizer experience. This course is a continuation of Music 1170. This course emphasizes the rehearsal and performance of commercial music styles. FM synthesis is introduced and a variety of programmable equipment is surveyed including drum machines, sequencers, digital samplers and computer software. (3 Lab.) (Coordinating Board Academic Approval Number 5009037130)

MUSI 1173 Survey Of Recording Laboratory (1)
(Last year’s course prefix/number MUS 191)
Prerequisite: Successful completion of or concurrent enrollment in Music 1272. This course parallels Music 1272 and provides students with laboratory experiments in the operation of recording equipment, session procedures, and audio techniques. The course also includes acoustic and electronic theory. (3 Lab.)

MUSI 1174 Studio Technology Laboratory (1)
(Last year’s course prefix/number MUS 198)
Prerequisite: Completion of or concurrent enrollment in Music 1273 or demonstrated competence approved by the instructor. This course reinforces, by application and demonstration, the theory covered in Music 1273. By the end of this course, a student is able to perform the basic operations necessary to operate a multi-track studio. Laboratory fee. (3 Lab.)

MUSI 1181 Piano Class I (1)
(This is a common course number. Last year’s course prefix/number MUS 117)
This course is primarily for students with no piano background. It develops basic musicianship and piano skills. This course may be repeated for credit. (2 Lab.) (Coordinating Board Academic Approval Number 5009075130)

MUSI 1182 Piano Class II (1)
(This is a common course number. Last year’s course prefix/number MUS 118)
Prerequisite: Music 1181 or demonstrated competence approved by the instructor. The study of piano is continued. Included are technique, harmonization, transposition, improvisation, accompanying, sight reading, and performing various styles of repertoire. This course may be repeated for credit. (2 Lab.) (Coordinating Board Academic Approval Number 5009075130)

MUSI 1183 Voice Class I (1)
(This is a common course number. Last year’s course prefix/number MUS 151)
This course is for non-voice majors. It presents the principles of breathing, voice production, tone control, enunciation, and phrasing in two group lessons a week. This course may be repeated for credit. (2 Lab.) (Coordinating Board Academic Approval Number 5009085130)
MUSI 1184 Voice Class II (1)
(This is a common course number. Last year's course prefix/number MUS 152)
This course is a continuation of Music 1183. It is open to all non-voice majors. Emphasis is on solo singing, appearance in studio recital, stage deportment, and personality development. Two group lessons are given a week. This course may be repeated for credit. (2 Lab.)
(Coordinating Board Academic Approval Number 5009085130)

MUSI 1186 Composition (3)
(This is a common course number. Last year's course prefix/number MUS 203)
Prerequisites: Music 1311 and 1312 or demonstrated competence approved by the Instructor. This course covers composing in small forms for simple media in a variety of styles. This course may be repeated for credit. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045330)

MUSI 1192 Guitar Class I (1)
(This is a common course number. Last year's course prefix/number MUS 119)
This course is primarily for students with limited knowledge in reading music or playing the guitar. It develops basic guitar skills. This course may be repeated for credit. (2 Lab.)
(Coordinating Board Academic Approval Number 5009035130)

MUSI 1193 Guitar Class II (1)
(This is a common course number. Last year's course prefix/number MUS 120)
Prerequisite: Music 1192 or demonstrated competence approved by the instructor. This course is a continuation of Music 1192. Emphasis is on classical guitar techniques and music reading skills. This course may be repeated for credit. (2 Lab.)
(Coordinating Board Academic Approval Number 5009035130)

MUSI 1237 Band (1)
(This is a common course number. Last year's course prefix/number MUS 160)
Prerequisite: Demonstrated competence approved by the instructor. The band studies and performs a wide variety of music in all areas of band literature. This course may be repeated for credit. (3 Lec.)
(Coordinating Board Academic Approval Number 5009035630)

MUSI 1283 Jazz Improvisation (2)
(This is a common course number. Last year's course prefix/number MUS 115)
The art of improvisation is introduced. Basic materials, aural training, analysis, and common styles are presented. This course may be repeated for credit. (1 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 5009036530)

MUSI 1270 Audio Production For Voice (2)
(This is a common course number. Last year's course prefix/number MUS 180)
This course is designed to introduce students to audio production as it relates to the human voice. Topics include physiology of the voice, technical skills for the studio singer and speaker, jingle copyrighting, and studio and sound support production. The course concludes with individually produced advertising jingles. (1 Lec., 2 Lab.)

MUSI 1271 Computerized Music Production I (2)
(This is a common course number. Last year's course prefix/number MUS 189)
This course serves as an introduction to computer-based music production. Areas covered include basic operation of synthesizers, sequencers, music scoring programs, and synthesizer editing programs. (2 Lec.)

MUSI 1272 Survey Of Recording (2)
(This is a common course number. Last year's course prefix/number MUS 190)
This descriptive course includes an introduction to audio recording. This introduction includes the nature of sound, operation of recording equipment, session procedures, studio techniques, simultaneous recording, and multi-track recording. (2 Lec.)

MUSI 1273 Studio Technology (2)
(This is a common course number. Last year's course prefix/number MUS 197)
Prerequisites: Music 1272 and 1173 or demonstrated competence approved by the instructor. This course is an intensive study of the theory of studio, microphone, and multi-track mix down techniques. (2 Lec.)

MUSI 1300 Foundations Of Music I (3)
(This is a common course number. Last year's course prefix/number MUS 113)
This course is the initial course to prepare students with limited music training for Music 1311. It focuses on notation (music reading), musical terminology, analysis, listening to and creating rhythmic and melodic responses. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045430)

MUSI 1306 Music Appreciation (3)
(This is a common course number. Last year's course prefix/number MUS 104)
The basic elements of music are surveyed and examined in the music literature of western civilization, particularly from the Baroque Period to the present. Cultural influences on the music of each era are observed. (3 Lec.)
(Coordinating Board Academic Approval Number 5009025130)

MUSI 1308 Music Literature (3)
(This is a common course number. Last year's course prefix/number MUS 110)
The music of recognized composers in the major periods of music history is examined. Topics include the characteristics of sound, elements of music, performance media, and musical texture. Emphasis is on the music of the late Gothic, Renaissance, and Baroque eras. (3 Lec.)
(Coordinating Board Academic Approval Number 5009025230)
MUSI 1309 Music Literature (3)
(This is a common course number. Last year's course prefix/number MUS 111)
This course is a continuation of Music 1308. The composi-
tional procedures and forms used by composers are
studied. Emphasis is on the Classical, Romantic, and
Modern periods. (3 Lec.)
(Coordinating Board Academic Approval Number 5009025230)

MUSI 1310 History Of Jazz/Rock Music (3)
(This is a common course number. Last year's course prefix/number MUS 166)
The study of social and musical Influences on Jazz/Rock
music and the influence of Jazz/Rock Music on society and
the music industry. This course may be repeated for credit.
(3 Lec.)
(Coordinating Board Academic Approval Number 5009025330)

MUSI 1311 Music Theory I (3)
(This is a common course number. Last year's course prefix/number MUS 145)
Prerequisite: Music 1300 and 1371 or demonstrated com-
petence approved by the instructor. This course is
designed for music majors and minors. Emphasis is on
notation, cadences, classification of diatonic triads, scales,
and modes. It is recommended that students enrolled in
Music 1116 enroll in this course. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045130)

MUSI 1312 Music Theory II (3)
(This is a common course number. Last year's course prefix/number MUS 146)
Prerequisite: Music 1311 or demonstrated competence
approved by the instructor. This course focuses on part-
writing and harmonization with triads and their inversions.
Also included is a chord vocabulary expanded to include
materials from the common practice period as well as con-
temporary periods. It is recommended that students
enrolled in Music 1117 enroll in this course. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045130)

MUSI 1310 Guitar Literature And Materials (3)
(Last year's course prefix/number MUS 112)
The body of music for the guitar is surveyed. Emphasis is
on the repertoire of instruments in the guitar family, such as
the lute. Transcription and arranging are studied as well as
the selection of a program for public performance. (3 Lec.)
(Coordinating Board Academic Approval Number 5009025230)

MUSI 1311 Foundations Of Music II (3)
(Last year's course prefix/number MUS 114)
Prerequisite: Music 1300 or demonstrated competence
approved by the instructor. This course prepares students
with limited music training for Music 1311 and increases
their general music understanding. Emphasis is on rhyth-
mic and melodic training, chord functions, melody, textures,
and basic analysis of music. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045430)

MUSI 1372 Digital Music Production (3)
(Last year's course prefix/number MUS 153)
Prerequisite: One semester of music theory and keyboard
or demonstrated competence approved by the instructor.
This course is designed to introduce major/non-major
music students to the MIDI technology as an extension of
the music theory/keyboard curriculum. Various MIDI
devices, computer hardware, and computer software will be
explored. This course may be repeated for credit. (2 Lec., 1 Lab.)
(Coordinating Board Academic Approval Number 5009035630.)

MUSI 1373 Digital Music Production (3)
(Last year's course prefix/number MUS 154)
Prerequisite: Successful completion of Music 1372 or
demonstrated competence approved by the instructor.
This course is a continuation of Music 1372 and will present
advanced concepts in music production. This course may
be repeated for credit. (2 Lec., 1 Lab.)
(Coordinating Board Academic Approval Number 5009045130.)

MUSI 1374 Music In America (3)
(Last year's course prefix/number MUS 192)
American music and musicians from early times to the
present are surveyed. Various styles and periods are
covered. Religious, folk, jazz, rock, musical theater, and
contemporary developments are included. (3 Lec.)

MUSI 1375 Improvisation (3)
(Last year's course prefix/number MUS 193)
The creation of spontaneous melodic and harmonic ideas
and the translation of these ideas into notation are em-
phasized. Using scales and modes, the instrumentalist
improvises on the student's major instrument. The vocalist
uses scat singing techniques. Analysis of transcribed solos
and student transcriptions are included. (3 Lec.)

MUSI 1376 Jazz Workshop (3)
(Last year's course prefix/number MUS 194)
This course is for the advanced instrumentalist and vocalist.
Jazz is performed in recitals and scheduled functions. Dis-
cussion, analysis, writing, rehearsing, improvising, and style
are emphasized. Articulating, phrasing, and conducting
jazz compositions are discussed with guest artists who work
and perform with the group periodically. (3 Lec.)

MUSI 1377 Business Of Music (3)
(Last year's course prefix/number MUS 196)
The world of the music industry is presented. Topics include
performing, engineering, producing, music merchandising,
music teaching, song writing, performing rights organiza-
tions, demo tapes, resumes, agents and managers, concert
promotion and the 1976 Copyright Act. Lecture will be
supplemented by consultant and guest panel discussions.
(3 Lec.)
MUSI 2116 Musicianship III (1)  
(This is a common course number. Last year's course prefix/number MUS 271)  
Prerequisite: Music 1116 and 1117 or demonstrated competence approved by the instructor. Keyboard and aural skills (including sight-singing and ear training) are developed. It is recommended that students enrolled in Music 2311 enroll in this course. (3 Lab.)  
(Coordinating Board Academic Approval Number 5009045730)

MUSI 2118 Musicianship IV (1)  
(This is a common course number. Last year's course prefix/number MUS 272)  
Prerequisite: Music 2116 or demonstrated competence approved by the instructor. This course is a continuation of Music 2116. It is recommended that students enrolled in Music 2312 enroll in this course. (3 Lab.)  
(Coordinating Board Academic Approval Number 5009045730)

MUSI 2143 Chorus (1)  
(This is a common course number. Last year's course prefix/number MUS 150)  
Prerequisite: Demonstrated competence approved by the instructor. A wide variety of music representing the literature of the great eras of music history is studied and performed. This course may be repeated for credit. (3 Lab.)  
(Coordinating Board Academic Approval Number 5009035730)

MUSI 2160 German Diction (1)  
(This is a common course number. Last year's course prefix/number MUS 107)  
The phonetic sounds of the German language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)  
(Coordinating Board Academic Approval Number 5009085330)

MUSI 2161 French Diction (1)  
(This is a common course number. Last year's course prefix/number MUS 106)  
The phonetic sounds of the French language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)  
(Coordinating Board Academic Approval Number 5009085330)

MUSI 2181 Piano Class III (1)  
(This is a common course number. Last year's course prefix/number MUS 217)  
Prerequisite: Music 1181 and 1182 or demonstrated competence approved by the instructor. This course is a continuation of functional keyboard skills, including harmonization, sight-reading, accompanying styles, improvisation, and technical exercises. It is designed for the music major preparing for the piano proficiency exam, but is also open to any interested student. It is recommended that music majors also study privately. (2 Lab.)  
(Coordinating Board Academic Approval Number 5009075130)

MUSI 2182 Piano Class IV (1)  
(This is a common course number. Last year's course prefix/number MUS 218)  
Prerequisite: Music 2181 or demonstrated competence of the instructor. This course is a continuation of functional keyboard skills in Music 2181 with greater emphasis on advanced harmonization and appropriate technical skills. It is designed as a preparation for the piano proficiency exam for the music major, but is also open to any interested student. It is recommended that music majors also study privately. (2 Lab.)  
(Coordinating Board Academic Approval Number 5009075130)

MUSI 2192 Guitar Pedagogy (1)  
(This is a common course number. Last year's course prefix/number MUS 205)  
Guitar method books are surveyed. Emphasis is on the strengths and weaknesses of each method. Structuring lessons and optimizing each individual teacher-student relationship are also discussed. (2 Lec.)  
(Coordinating Board Academic Approval Number 5009035130)

MUSI 2237 Lab Band (1)  
(This is a common course number. Last year's course prefix/number MUS 181)  
Prerequisite: Demonstrated competence approved by the instructor. Students study and perform various forms of commercial music, such as jazz, pop, avant-garde, and fusion. Student arranging, composing, and conducting are encouraged. This course may be repeated for credit. (3 Lab.)  
(Coordinating Board Academic Approval Number 5009035630)

MUSI 2270 Computerized Music Production II (2)  
(last year's course prefix/number MUS 289)  
Prerequisites: Music 1271 or demonstrated competence approved by the instructor. This course is an intensive study of computer-based music production. Areas covered include advanced sequencing, computer-based generation of musical scores, synchronization of sequencers with other media, and advanced synthesizer concepts. (2 Lec., 2 Lab.)

MUSI 2311 Music Theory III (3)  
(This is a common course number. Last year's course prefix/number MUS 245)  
Prerequisite: Music 1311 and 1312 or demonstrated competence approved by the instructor. This course is a continuation of the study of music theory. It includes the materials of modulation, larger forms, and thematic development, and more advanced analysis. It is recommended that students enrolled in Music 2116 enroll in this course. (3 Lec.)  
(Coordinating Board Academic Approval Number 5009045230)
MUSI 2312 Music Theory IV (3)
(This is a common course number. Last year's course prefix/number MUS 246)
Prerequisite: Music 2311 or demonstrated competence approved by the instructor. This course is a continuation of the topics developed in Music 2311. The preceding materials are expanded to include melody, harmony, tonality, and the formal processes of 20th century music. It is recommended that students enrolled in Music 2118 enroll in this course. (3 Lec.)
(Coordinating Board Academic Approval Number 5009045230)

MUSI 2370 Arranging/Orchestration (3)
(Last year's course prefix/number MUS 292)
The knowledge of ranges and the ability to transpose for instruments, to write for voices, and to plan and execute an arrangement is developed. Standard copying techniques, chord voicing, large ensemble writing and combo writing, and use of strings (simulated by string synthesizer) are also included. (3 Lec.)

MUSI 2371 Independent Study (3)
(Last year's course prefix/number MUS 293)
This course is for advanced work in music and is designed to meet specific needs of the student. On approval of the instructor and division chairperson, the student prepares and executes a written contract (proposal for learning). Credit is given upon completion of all aspects of the contract. This course may be repeated for credit. (3 Lec.)

MUSI 2372 Recording Studio Practices (3)
(Last year's course prefix/number MUS 295)
Prerequisites: Music 1273 and Music 1174. The lecture portion of this course concentrates on the artistic and stylistic considerations of audio recording. The laboratory portion translates these considerations into class projects. Laboratory fee. (2 Lec., 3 Lab.)

MUSI 2373 Studio Production (3)
(Last year's course prefix/number MUS 297)
Prerequisite: Music 2372. In this course students produce, engineer, mix, setup, and perform in actual recording sessions. Samples of portfolios may be acquired. Laboratory fee. (2 Lec., 3 Lab.)

MUSI 7371 Cooperative Work Experience (3)
(Last year's course prefix/number MUS 703)
Prerequisites: Completion of two courses in Music or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning experiences each semester. The seminars consist of topics which may include observing live performances, observing live recording sessions, equipment operating systems, inventory and stock categories, and pricing. (1 Lec., 15 Lab.)

MUSI 7372 Cooperative Work Experience (3)
(Last year's course prefix/number MUS 713)
Prerequisites: Completion of Music 7371. This advanced course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning experiences each semester. The seminars consist of topics which may include observing live performances, observing live recording sessions, equipment operating systems, inventory and stock categories, and pricing. (1 Lec., 15 Lab.)

MUSI 9175 Recital (1)
(Last year's course prefix/number MUS 199)
This is an on-campus concert/seminar series designed to provide a laboratory and listening experience as an extension of classroom music studies. Concerts, seminars and workshops are presented by guest artists and lecturers, faculty members and students. This is a one-hour credit course and may be repeated for credit. (1 Lec.)

MUAP 1101-1181 Applied Music-Minor (1)
This course is open to students enrolled in music theory, ensembles, and other music major and minor courses. It provides private instruction in the student's secondary area and consists of a one-half hour lesson a week. Private music may be repeated for credit. Laboratory fee required. (1 Lec.)

MUAP 1101 Applied Music-Violin (1)
(This is a common course number. Last year's course prefix/number MUS 124)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1105 Applied Music-Viola (1)
(This is a common course number. Last year's course prefix/number MUS 125)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1109 Applied Music-Cello (1)
(This is a common course number. Last year's course prefix/number MUS 126)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1113 Applied Music-Double Bass (1)
(This is a common course number. Last year's course prefix/number MUS 127)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1115 Applied Music-Electric Bass (1)
(This is a common course number. Last year's course prefix/number MUS 141)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1117 Applied Music-Flute (1)
(This is a common course number. Last year's course prefix/number MUS 128)
(Coordinating Board Academic Approval Number 5009035430)
MUAP 1121 Applied Music-Oboe (1)
(This is a common course number. Last year's course prefix/number MUS 129)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1125 Applied Music-Bassoon (1)
(This is a common course number. Last year's course prefix/number MUS 131)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1129 Applied Music-Clarinet (1)
(This is a common course number. Last year's course prefix/number MUS 130)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1133 Applied Music-Saxophone (1)
(This is a common course number. Last year's course prefix/number MUS 132)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1137 Applied Music-Trumpet (1)
(This is a common course number. Last year's course prefix/number MUS 133)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1141 Applied Music-French Horn (1)
(This is a common course number. Last year's course prefix/number MUS 134)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1145 Applied Music-Trombone (1)
(This is a common course number. Last year's course prefix/number MUS 135)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1149 Applied Music-Baritone (1)
(This is a common course number. Last year's course prefix/number MUS 136)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1153 Applied Music-Tuba (1)
(This is a common course number. Last year's course prefix/number MUS 137)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1157 Applied Music-Percussion (1)
(This is a common course number. Last year's course prefix/number MUS 138)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1158 Applied Music-Drum Set (1)
(This is a common course number. Last year's course prefix/number MUS 143)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1161 Applied Music-Guitar (1)
(This is a common course number. Last year's course prefix/number MUS 140)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1165 Applied Music-Organ (1)
(This is a common course number. Last year's course prefix/number MUS 122)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1169 Applied Music-Piano (1)
(This is a common course number. Last year's course prefix/number MUS 121)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1177 Applied Music-Harp (1)
(This is a common course number. Last year's course prefix/number MUS 139)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 1181 Applied Music-Voice (1)
(This is a common course number. Last year's course prefix/number MUS 123)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2201-2281 Applied Music-Concentration (2)
This course is open to students enrolled in music theory, ensembles, or other music major and minor courses. It provides private instruction in the area of the student's concentration and consists of one hour of instruction per week. Private music may be repeated for credit. Laboratory fee required. (1 Lec.)

MUAP 2201 Applied Music-Violin (2)
(This is a common course number. Last year's course prefix/number MUS 224)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2205 Applied Music-Viola (2)
(This is a common course number. Last year's course prefix/number MUS 225)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2209 Applied Music-Cello (2)
(This is a common course number. Last year's course prefix/number MUS 226)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2213 Applied Music-Double Bass (2)
(This is a common course number. Last year's course prefix/number MUS 227)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2215 Applied Music-Electric Bass (2)
(This is a common course number. Last year's course prefix/number MUS 241)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2217 Applied Music-Flute (2)
(This is a common course number. Last year's course prefix/number MUS 228)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2221 Applied Music-Oboe (2)
(This is a common course number. Last year's course prefix/number MUS 229)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2225 Applied Music-Bassoon (2)
(This is a common course number. Last year's course prefix/number MUS 231)
(Coordinating Board Academic Approval Number 5009035430)
MUAP 2229 Applied Music-Clarinet (2)  
(This is a common course number. Last year's course prefix/number MUS 230)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2233 Applied Music-Saxophone (2)  
(This is a common course number. Last year's course prefix/number MUS 232)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2237 Applied Music-Trumpet (2)  
(This is a common course number. Last year's course prefix/number MUS 233)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2241 Applied Music-French Horn (2)  
(This is a common course number. Last year's course prefix/number MUS 234)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2245 Applied Music-Trombone (2)  
(This is a common course number. Last year's course prefix/number MUS 235)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2249 Applied Music-Baritone (2)  
(This is a common course number. Last year's course prefix/number MUS 236)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2253 Applied Music-Tuba (2)  
(This is a common course number. Last year's course prefix/number MUS 237)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2257 Applied Music-Percussion (2)  
(This is a common course number. Last year's course prefix/number MUS 238)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2258 Applied Music-Drum Set (2)  
(This is a common course number. Last year's course prefix/number MUS 243)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2261 Applied Music-Guitar (2)  
(This is a common course number. Last year's course prefix/number MUS 240)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2265 Applied Music-Organ (2)  
(This is a common course number. Last year's course prefix/number MUS 222)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2269 Applied Music-Piano (2)  
(This is a common course number. Last year's course prefix/number MUS 221)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2277 Applied Music-Harp (2)  
(This is a common course number. Last year's course prefix/number MUS 238)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2281 Applied Music-Voice (2)  
(This is a common course number. Last year's course prefix/number MUS 223)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2301-2381 Applied Music-Major (3)  
This course is primarily for music performance majors and is open to students enrolled in music theory, ensembles, or other music major and minor courses. It provides private instruction in the area of the student's major instrument and consists of one hour of instruction per week. This course may be repeated for credit. Laboratory fee. (1 Lec.)  

MUAP 2301 Applied Music-Violin (3)  
(This is a common course number. Last year's course prefix/number MUS 254)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2305 Applied Music-Viola (3)  
(This is a common course number. Last year's course prefix/number MUS 255)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2309 Applied Music-Cello (3)  
(This is a common course number. Last year's course prefix/number MUS 256)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2313 Applied Music-Double Bass (3)  
(This is a common course number. Last year's course prefix/number MUS 257)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2317 Applied Music-Flute (3)  
(This is a common course number. Last year's course prefix/number MUS 258)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2321 Applied Music-Oboe (3)  
(This is a common course number. Last year's course prefix/number MUS 259)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2325 Applied Music-Bassoon (3)  
(This is a common course number. Last year's course prefix/number MUS 261)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2329 Applied Music-Clarinet (3)  
(This is a common course number. Last year's course prefix/number MUS 260)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2333 Applied Music-Saxophone (3)  
(This is a common course number. Last year's course prefix/number MUS 262)  
(Coordinating Board Academic Approval Number 5009035430)  

MUAP 2337 Applied Music-Trumpet (3)  
(This is a common course number. Last year's course prefix/number MUS 263)  
(Coordinating Board Academic Approval Number 5009035430)
MUAP 2341 Applied Music-French Horn (3)
(This is a common course number. Last year’s course prefix/number MUS 284)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2345 Applied Music-Trombone (3)
(This is a common course number. Last year’s course prefix/number MUS 265)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2349 Applied Music-Baritone (3)
(This is a common course number. Last year’s course prefix/number MUS 268)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2353 Applied Music-Tuba (3)
(This is a common course number. Last year’s course prefix/number MUS 267)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2357 Applied Music-Percussion (3)
(This is a common course number. Last year’s course prefix/number MUS 269)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2361 Applied Music-Guitar (3)
(This is a common course number. Last year’s course prefix/number MUS 289)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2365 Applied Music-Organ (3)
(This is a common course number. Last year’s course prefix/number MUS 252)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2369 Applied Music-Piano (3)
(This is a common course number. Last year’s course prefix/number MUS 251)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2377 Applied Music-Harp (3)
(This is a common course number. Last year’s course prefix/number MUS 259)
(Coordinating Board Academic Approval Number 5009035430)

MUAP 2381 Applied Music-Voice (3)
(This is a common course number. Last year’s course prefix/number MUS 253)
(Coordinating Board Academic Approval Number 5009035430)

NUTRITION

NUTR 1322 Principles of Nutrition (3)
(Last year’s course prefix/number NTR 101. Common Course Number is HECO 1322)
This is an introduction to human nutrition. Topics will include classes, sources, and function of nutrients, digestion and absorption, and metabolism with applications to normal and therapeutic nutritional needs. (3 Lec.)
(Coordinating Board Academic Approval Number 1905025133)

OFFICE TECHNOLOGY

OFCT 1170 Contemporary Topics in Office Technology (1)
(Last year’s course prefix/number OFC 143)
Prerequisites: Demonstrated competence approved by the instructor. This course emphasizes current topics of interest in office technology fields. Realistic solutions to problems relevant to the needs of industry are presented. This course may be repeated for credit with different emphasis up to six hours. (1 Lec.)

OFCT 1171 Keyboarding (1)
(Last year’s course prefix/number OFC 176)
This course is for students with no previous training in typing. The course introduces the typewriter parts. Alphabetic keys, numeric keys, and symbol keys are covered. Fundamental techniques are refined, and speed is developed. Laboratory fee. (1 Lec., 1 Lab.)

OFCT 1172 Introduction To Word Processing (1)
(Last year’s course prefix/number OFC 182)
Prerequisites: Office Technology 1375 or demonstrated competence approved by the instructor. This course introduces the fundamental techniques required in the operation of word processing software. Basic concepts of electronic storage and retrieval involved in creating, printing, centering, and revising documents are introduced. May be repeated for credit using different software. Laboratory fee. (2 Lab.)

OFCT 1173 Keyboarding For Speed And Accuracy (1)
(Last year’s course prefix/number OFC 183)
This course provides intensive practice drills for developing speed and accuracy on one-, three-, and five-minute writings. May be taken concurrently with Intermediate Typing or Advanced Typing Applications. May be repeated for credit. Laboratory fee. (2 Lab.)

OFCT 1174 Basic Machine Transcription (1)
(Last year’s course prefix/number OFC 185)
Prerequisites: Office Technology 1376 or concurrent enrollment. This course introduces the basic equipment, techniques, and skills required to transcribe recorded business information into mailable documents. Emphasis is placed on grammar, punctuation, and spelling skills required in word processing operations. Automated equipment and audio transcription machines are used. Laboratory fee. (1 Lec., 1 Lab.)

OFCT 1175 Office Machines I (1)
(Last year’s course prefix/number OFC 192)
Business mathematical skills needed to operate office calculators are reviewed. Speed and accuracy skills using ten-key touch are developed. Laboratory fee. (1 Lec.)
OFCT 1270 Contemporary Topics In Office Technology (2)
(Last year’s course prefix/number OFC 144)
Prerequisites: Will vary based on topics covered and will be annotated in each semester’s class schedule. Current developments in the rapidly changing field of office technology are studied. This course may be repeated for credit when topics vary. (2 Lec.)

OFCT 1271 Office Information Systems Concepts (2)
(Last year’s course prefix/number OFC 179)
Prerequisite: Office Technology 1375. This course introduces information/word processing and describes its effect on traditional office operations. Basic information/word processing principles, concepts, terminology and advantages of word processing systems are introduced. This course does not include the operation of a word processor or microcomputer. (2 Lec.)

OFCT 1370 Contemporary Topics In Office Technology (3)
(Last year’s course prefix/number OFC 145)
Prerequisites: Will vary based on topics covered and will be annotated in each semester’s class schedule. Current developments in the rapidly changing field of office technology are studied. This course may be repeated for credit when topics vary. (3 Lec.)

OFCT 1371 Automated Filing Procedures (3)
(Last year’s course prefix/number OFC 150)
Prerequisite: Office Technology 1375 or demonstrated competence approved by the instructor. This course introduces the basic principles and procedures of records storage and control. Topics include records storage methods; procedures for the operation and control of manual and automated storage systems; rules for indexing; and principles for the selection of records equipment and supplies. (2 Lec., 2 Lab.)

OFCT 1372 Office Calculating Machines (3)
(Last year’s course prefix/number OFC 160)
This course focuses on the development of skills in using electronic calculators. Emphasis is on developing the touch system for both speed and accuracy. Business math and business applications are included. Laboratory fee. (3 Lec.)

OFCT 1373 Office Procedures (3)
(Last year’s course prefix/number OFC 162)
Prerequisites: Office Technology 1375 or demonstrated competence approved by the instructor. This course bridges the gap between the basic skills courses and current office practices. Topics include records management, electronic filling, reprographics, mail, telephone usage, financial transactions, and interpersonal relations. (3 Lec.)

OFCT 1374 Legal Terminology And Transcription (3)
(Last year’s course prefix/number OFC 167)
Prerequisites: Office Technology 1376 and Office Technology 1174 or concurrent enrollment or demonstrated competence approved by the instructor. Legal terms are the focus of this course. Included are the spelling and use of legal terms and Latin words and phrases. Intensive practice is provided in building speed and accuracy in the transcription of legal terms. Laboratory fee. (3 Lec.)

OFCT 1375 Beginning Typing (3)
(Last year’s course prefix/number OFC 172)
This course is for students with no previous training in typing. Fundamental techniques in typing are developed. The skills of typing manuscripts, business letters, and tabulations are introduced. Office Technology 1375 is equivalent to Office Technology 1171, 1177, and 1178. Laboratory fee. (2 Lec., 3 Lab.)

OFCT 1376 Intermediate Typing (3)
(Last year’s course prefix/number OFC 173)
Prerequisites: Office Technology 1375 or demonstrated competence approved by the instructor. Typing techniques are developed further. Emphasis is on problem-solving. Increasing speed and accuracy in typing business forms, correspondence, and manuscripts are also covered. Laboratory fee. (2 Lec., 3 Lab.)

OFCT 1377 Office Systems and Applications (3)
(Last year’s course prefix/number OFC 101)
Prerequisite: Office Technology 1375 or demonstrated competence. This course introduces the principles and concepts of office information systems as they relate to today’s office worker. Basic concepts and terminology that include the topics of ergonomics, operating systems, hardware, business software, and electronics communications will be presented. Hands-on introduction to application software for business and personal use will also be included. Laboratory fee. (2 Lec., 3 Lab.)

OFCT 1378 Text Processing Transcription (3)
(Last year’s course prefix/number OFC 102)
Prerequisite: Office Technology 1376 or demonstrated competence. This course introduces the basic equipment, techniques, and skills required to transcribe recorded business information into mailable documents. Emphasis is placed on grammar, punctuation, proofreading, and spelling skills required in text processing applications. Accuracy and speed are developed to a proficient level. Composition and dictation of business communications are included. Computers and audio transcription machines are used for lab requirement. Laboratory fee. (2 Lec., 2 Lab.)
OFCT 1379 Word Processing I (3)
(Previous year's course prefix/number OFC 105)
Prerequisite: Office Technology 1375 or demonstrated competence.
This introductory course develops word processing skills to a proficient level necessary for employment in an office environment or for personal use. Emphasis is on creating, editing, formatting, and printing documents. May be repeated for credit as software changes. Laboratory fee. (2 Lec., 2 Lab.)

OFCT 1380 Business Software Applications I (3)
(Previous year's course prefix/number OFC 112)
Prerequisite: Office Technology 1375 or demonstrated competence. This beginning-level course emphasizes the basic functions of spreadsheet, database, graphics, or communication software required for office employment. May be repeated for credit as software changes. Laboratory fee. (2 Lec., 2 Lab.)

OFCT 1474 Principles Of Word Processing (4)
(Previous year's course prefix/number OFC 190)
Prerequisites: Office Technology 1376 or concurrent enrollment. This course introduces word processing and describes its effect on traditional office operations. An understanding of basic word processing principles and fundamental techniques required in the operation of word processing and transcription equipment are introduced. Emphasis is placed on grammar, punctuation, and spelling skills required in word processing operations. Office Technology 1474 is equivalent to Office Technology 1271, 1375, and 1174. Laboratory fee. (3 Lec., 3 Lab.)

OFCT 2170 Word Processing Applications (1)
(Previous year's course prefix/number OFC 282)
Prerequisites: Office Technology 1172 or demonstrated competence approved by the instructor. This course is designed for students who have a basic knowledge of word processing. Advanced word processing concepts and machine functions are developed. Special emphasis is placed on producing mailable documents. May be repeated for credit using different emphasis. Laboratory fee. (2 Lab.)

OFCT 2171 Specialized Software I (1)
(Previous year's course prefix/number OFC 283)
Specialized applications are performed using automated equipment which the student has previously mastered. Applications may include word processing, graphics, math functions, spreadsheets, databases, desk top publishing, and the use of other software packages. Microcomputers will be used in this course. May be repeated for credit using different emphasis/equipment. Laboratory fee. (2 Lab.)

OFCT 2172 Specialized Software II (1)
(Previous year's course prefix/number OFC 284)
Specialized applications are performed using automated equipment that the student has previously mastered. More advanced applications may include graphics, math functions, spreadsheets, databases, and desk top publishing. This course may be repeated for credit using different emphasis/equipment. (2 Lab.)

OFCT 2173 Applied Machine Transcription (1)
(Previous year's course prefix/number OFC 285)
Prerequisites: Office Technology 1376 or 1474 and Office Technology 1174 or demonstrated competence approved by the instructor. This course is designed for students with basic skills in machine transcription. Emphasis is placed on increasing accuracy and speed in the timed transcription of recorded information. Composing and dictating business communications are introduced. Laboratory fee. (1 Lec., 1 Lab.)

OFCT 2270 Advanced Typing Applications (2)
(Previous year's course prefix/number OFC 273)
Decision-making and production of all types of business materials under timed conditions are emphasized. A continuation of skill development and a review of typing techniques are also stressed. Accuracy at advanced speeds is demanded. Laboratory fee. (1 Lec., 2 Lab.)

OFCT 2370 Business Communications (3)
(Previous year's course prefix/number OFC 231)
Prerequisites: Office Technology 1375 and English 1301 or demonstrated competence approved by the instructor. This practical course includes a study of letter forms, the mechanics of writing and the composition of various types of communications. A critical analysis of the appearance and content of representative business correspondence, proposals, and reports is made. (3 Lec.)

OFCT 2371 Legal Secretarial Procedures (3)
(Previous year's course prefix/number OFC 274)
Prerequisite: Completion of, or concurrent enrollment in, Office Technology 1374, or demonstrated competence approved by the instructor. This course focuses on procedures of the legal secretary. Topics include reminder and filing systems, telephone usage, dictation and correspondence, the preparation of legal documents, and the court system. Client contacts, use of law library, research techniques, timekeeping, billing, bookkeeping, and ethics are also covered. Ways to obtain a position as a legal secretary are described. (3 Lec.)
OFCT 2372 Word Processing II (3)
(Last year's course prefix/number OFC 205)
Prerequisite: Office Technology 1376, Word Processing I, or demonstrated competence. This course is designed to develop advanced features to a proficient level of a comprehensive word processing program. Applications and desktop publishing projects requiring critical thinking and decision making as expected in the office environment will be included. May be repeated for credit as software changes. Laboratory fee. (2 Lec., 2 Lab.)

OFCT 2373 Business Software Applications II (3)
(Last year's course prefix/number OFC 212)
Prerequisite: Business Software Applications I (Office Technology 1380) or demonstrated competence. This intermediate-level course expands the usefulness and functions of spreadsheet, database, graphics, or communications software to a proficient level as required for office support personnel. Applications require critical thinking and decision making. May be repeated for credit as software changes. Laboratory fee. (2 Lec., 2 Lab.)

OFCT 2374 Business Software Applications III (3)
(Last year's course prefix/number OFC 222)
Prerequisite: Business Software Applications II (Office Technology 2373) or demonstrated competence. This course covers advanced applications of spreadsheet, database, graphics, or communications software to a proficient level as required for office support personnel. Critical thinking and decision-making skills are required in creating, formatting, editing, and printing documents for the business environment. May be repeated for credit as software changes. Laboratory fee. (2 Lec., 2 Lab.)

OFCT 7371 Cooperative Work Experience (3)
(Last year's course prefix/number OFC 703)
Prerequisites: Completion of two courses in the Office Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives each semester. Students must complete three objectives and work a minimum of 15 hours per week for a total of three credit hours. This seminar consists of orientation, setting/writing job objectives, stress management, Certified Professional Secretary, communication skills, job search, professional image, and exit seminar. (1 Lec., 15 Lab.)

OFCT 7372 Cooperative Work Experience (3)
(Last year's course prefix/number OFC 713)
Prerequisites: Completion of two courses in the Office Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives each semester. Students must complete three objectives and work a minimum of 15 hours per week for a total of three credit hours. This seminar consists of orientation, setting/writing job objectives, stress management, Certified Professional Secretary, communication skills, job search, professional image, and exit seminar. (1 Lec., 15 Lab.)

OFCT 7471 Cooperative Work Experience (4)
(Last year's course prefix/number OFC 704)
Prerequisites: Completion of two courses in the Office Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must complete four objectives and work a minimum of 20 hours per week for a total of four credit hours. This seminar consists of orientation, setting/writing job objectives, interpersonal skills, career interest/aptitude test and evaluation, time management, career planning, and exit seminar. (1 Lec., 20 Lab.)

OFCT 7472 Cooperative Work Experience (4)
(Last year's course prefix/number OFC 714)
Prerequisites: Completion of two courses in the Office Technology program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. Students must complete four objectives and work a minimum of 20 hours per week for a total of four credit hours. This seminar consists of orientation, setting/writing job objectives, stress management, Certified Professional Secretary, communication skills, job search, professional image, and exit seminar. (1 Lec., 20 Lab.)
OFCT 8381 Cooperative Work Experience (3)
(Previous year's course prefix/number OFC 803)
Prerequisites: Completion of previous Office Technology
7371 or 7471 and 7372 or 7472. This course combines
productive work experience with academic study. The stu-
dent, employer and instructor will develop a written
competency-based learning plan with varied learning objec-
tives and work experiences. Students must develop new
learning objectives each semester. Students must com-
plete three objectives and work a minimum of 15 hours per
week for a total of three credit hours. This seminar consists
of orientation, setting/writing job objectives, and inde-
dependent study of business topics. (1 Lec., 15 Lab.)

OFCT 8481 Cooperative Work Experience (4)
(Previous year's course prefix/number OFC 804)
Prerequisites: Completion of previous Office Technology
7371 or 7471 and 7372 or 7472. This course combines
productive work experience with academic study. The stu-
dent, employer and instructor will develop a written
competency-based learning plan with varied learning objec-
tives and work experiences. Students must develop new
learning objectives each semester. Students must com-
plete four objectives and work a minimum of 20 hours per
week for a total of four credit hours. This seminar consists
of orientation, setting/writing job objectives, and inde-
dependent study of business topics. (1 Lec., 20 Lab.)

PHILOSOPHY

PHIL 1301 Introduction To Philosophy (3)
(This is a common course number. Previous year's course prefix/number
PHI 101)
The fundamental problems in philosophy are surveyed.
Methods to deal with the problems are discussed. Ancient
and modern views are examined as possible solutions.
(3 Lec.)
(Coordinating Board Academic Approval Number 3801015135)

PHIL 1370 Critical Thinking (3)
(Previous year's course prefix/number PHI 103)
This course is designed to improve students' critical thinking
ability. Students will both analyze and construct arguments.
Elementary deductive forms, common fallacies, and induct-
ive reasoning are considered. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015235)

PHIL 2303 Logic (3)
(This is a common course number. Previous year's course prefix/number
PHI 105)
The principles of logical thinking are analyzed. The
methods and tools of logic are applied to real-life situations.
Fallacies, definitions, analogies, syllogisms, Venn diagrams,
and other topics are discussed. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015235)

PHIL 2306 Ethics (3)
(This is a common course number. Previous year's course prefix/number
PHI 203)
The classical and modern theories of the moral nature of the
human are surveyed. Alternative views of responsibilities to
self and society are posed. Ethical issues and their
metaphysical and epistemological bases are vivified. Em-
phasis is on applying ethical principles in life. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015335)

PHIL 2307 Introduction To Social And Political
Philosophy (3)
(This is a common course number. Previous year's course prefix/number
PHI 202)
The relationships of philosophical ideas to the community
are presented. Emphasis is on concepts of natural rights,
justice, education, freedom, and responsibility. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015535)

PHIL 2316 History Of Ancient Philosophy (3)
(This is a common course number. Previous year's course prefix/number
PHI 207)
The history of philosophy from pre-Socratic times to the
Renaissance is examined. Connections are made between
the pre-Socratics, Plato, and Aristotle; Stoicism,
Epicureanism, and Scholasticism are considered. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015535)

PHIL 2317 History Of Modern Philosophy (3)
(This is a common course number. Previous year's course prefix/number
PHI 208)
The history of philosophy from the Renaissance through the
19th century is examined. Emphasis is on continental
rationalism, British empiricism, Kantian metaphysics and
epistemology, and the Hegelian system as it relates to 20th
century philosophies. The historical relationship between
these schools of thought is explored. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015535)

PHOTOGRAPHY

NOTE: These courses will carry a Dallas County Com-
munity College prefix of "PHOT" next year; however, some
can be identified by a common course number for transfer
evaluation purposes. Both are listed in the parenthetical
notes in the course descriptions.
PHOT 1316 Introduction To Photography And Photojournalism (3)
(Last year's course prefix/number PHO 110. Common Course Number is COMM 1316)
Photography and photojournalism are introduced. Topics include the general mechanics of camera lenses and shutters and the general characteristics of photographic films, papers, and chemicals. Darkroom procedures are presented, including enlarging, processing, contact printing, and exposing films and papers. Artificial lighting is introduced. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0904015526)

PHOT 1317 Advanced Photography And Photojournalism (3)
(Last year's course prefix/number PHO 111. Common Course Number is COMM 1317)
Prerequisite: Photography 1316 or demonstrated competence approved by the instructor. Techniques learned in Photography 1316 are refined. Emphasis is on photographic communication. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0904015526)

PHOT 1370 Special Photographic Topics and Problems (Non-Lab Related) (3)
This course of study addresses special photographic topics or problems which do not require lab instruction or use of lab facilities. Topics may include special interest areas such as: history of photography, photographic criticism, history of film making, looking at photographic collections, and color slide photography. The course will be narrow in scope to provide for in-depth study of the particular topics and may employ field trips and visiting instructors with specialized expertise. This course may be repeated for credit. (3 Lec.)
(Coordinating Board Academic Approval Number 5006055230)

PHOT 2324 Introduction to Multimedia (3)
(Last year's course prefix/number PHO 212. Common Course Number is COMM 2324)
Prerequisites: Photography 1316 or Art 1370, Photography 2325. This course will provide students with an exploration of the latest computer hardware and software applications used to produce multimedia presentations. Students will experience the areas of digital sound reproduction, the creation of computer animation, converting video into digital images, and digital editing techniques. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0907015326)

PHOT 2325 Introduction to Digital Imaging (3)
(Last year's course prefix/number PHO 124. Common Course Number is COMM 2325)
Prerequisite: Photography 1316 or Art 1370. This is a broad-based, introductory course which explores the creation and manipulation of images on the computer. The course content will include an introduction to the computer system, an overview of desktop publishing and graphic programs, use of the digital camera, scanning-in photographs, and exploring techniques of photo-manipulation. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0907015326)

PHOT 2326 Advanced Digital Imaging (3)
(Last year's course prefix/number PHO 125. Common Course Number is COMM 2326)
Prerequisites: Photography 1316 or Art 1370, Photography 2325. This course will explore in greater depth the applications covered in the Introduction to Digital Photography (Photography 2325) class. Students will work to master the technical complexities of digital photography and seek to clarify a personal direction through extended projects. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0907015326)

PHOT 2356 Commercial Photography I (3)
(Last year's course prefix/number PHO 122. Common Course Number is ARTS 2356)
Prerequisites: Photography 1316 and 1317 or demonstrated competence approved by the instructor. Commercial or contract photography is studied. Field, studio, and darkroom experiences for various kinds of photography are discussed. Social, portrait, studio, fashion, publicity, landscape, and product photography, as well as portfolio development, are included. The use of natural and artificial lighting is covered. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5006055130)

PHOT 2357 Commercial Photography II (3)
(Last year's course prefix/number PHO 123. Common Course Number is ARTS 2357)
Prerequisites: Photography 1316 and 1317 or demonstrated competence approved by the instructor. This course is a continuation of Photography 2356. Publicity, architectural, interior, and advertising photography are included. The latest equipment, papers, films, and techniques are explored. Exchanges may be made with sample clients, employers, studios, and agencies. Laboratory fee. (2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5006055230)
PHOT 2370 Photography For Publications (3)
(Last year's course prefix/number PHO 207)
Prerequisites: Photography 1316 and 1317 or demonstrated competence approved by the instructor.
This course is designed for the student who is interested in demonstrating competence approved by the instructor.
It encourages skills in all three areas and prepares the student for a broad job market that includes photojournalism, printing, editing, composing, and general copy preparation. Students who enroll in this course should have a background in journalism, photography, and graphic arts and be of sophomore standing. Laboratory fee.
(2 Lec., 4 Lab.)

PHOT 2371 Advanced Multimedia (3)
(Last year's course prefix/number PHO 213)
Prerequisites: Photography 1316 or Art 1370, Photography 2325, Photography 2324. This course offers students a continued refinement of multimedia techniques to create interactive animation presentations. Students will gain competency of powerful software applications in order to design, create, and building programming sequences. Laboratory fee.
(2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 0907015326)

PHOT 2375 Special Photographic Topics And Problems (3)
(Last year's course prefix/number PHO 215)
Prerequisites: Photography 1316 and 1317 or demonstrated competence approved by the instructor.
This course of study addresses special photographic topics or problems that may result from technological advances and particular student and/or instructor interests and/or expertise. Topics may include special interest areas such as architectural, landscape, wedding, environmental portraiture and audiovisual slide-with-sound productions. The course will be narrower in scope to provide for in-depth study of the particular topic and may employ visiting instructors with specialized expertise. This course may be repeated for credit.
(2 Lec., 4 Lab.)
(Coordinating Board Academic Approval Number 5006055230)

PHED 1101 Beginning Casting And Angling (1)
(This is a common course number. Last year's course prefix/number PEH 103)
This course will include the fundamentals of fly casting, bait casting, spinning and spin casting. This course covers basic knowledge and understanding of angling techniques and concepts, and will include several tackle crafts. This course may be repeated for credit. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1102 Beginning Soccer (1)
(This is a common course number. Last year's course prefix/number PEH 104)
Course content emphasizes the basic playing skills of both indoor and outdoor soccer at the beginner level, as well as rules, strategies, safety, offensive and defensive patterns of play, and competitive activities. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1103 Shooting and Firearm Safety (1)
(This is a common course number. Last year's course prefix/number PEH 105)
Course content includes fundamentals of shooting, gun safety and principles of reloading. This course includes personal safety associated with hunting and sport shooting. This course may be repeated for credit. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1104 Beginning Softball (1)
(This is a common course number. Last year's course prefix/number PEH 112)
Course content includes the basic playing skills of softball at the beginner level, as well as rules, strategies, safety, offensive and defensive elements, and competitive activities. These common elements will be applied to fast pitch, slow pitch, and coed softball. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1105 Beginning Racquetball (1)
(This is a common course number. Last year's course prefix/number PEH 113)
Basic racquetball skills, rules and strategies are taught and class tournaments are conducted. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1106 Beginning Badminton (1)
(This is a common course number. Last year's course prefix/number PEH 114)
Course content emphasizes the basic playing skills of badminton at the beginner level, as well as rules, strategies, safety, offensive and defensive elements, and competitive activities. Each of the above elements will be applied to the singles, doubles, and mixed-double games. Laboratory fee.
(3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)
PHED 1107 Intramural Athletics (1)
(This is a common course number. Last year's course prefix/number
PEH 116)
Intramural competition in a variety of activities is offered for
men and women. Individual and team competition are
offered. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1108 Beginning Archery (1)
(This is a common course number. Last year's course prefix/number
PEH 117)
The beginning level skills of target and field shooting and
bow hunting are emphasized. History, rules of competition,
preparation and care of equipment and safety are included.
Equipment is furnished. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1109 Beginning Golf (1)
(This is a common course number. Last year's course prefix/number
PEH 118)
Course content emphasizes the basic skills involved in club
selection, golf course analysis, shot selection and execution
of the golf swing. Rules, scoring, handicapping, and eti-
quette are included. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1110 Beginning Tennis (1)
(This is a common course number. Last year's course prefix/number
PEH 119)
This course emphasizes the acquisition of beginning level
skills in the execution of forehand strokes, backhand
strokes, the serve, and the volley. Rules, strategies of the
singles and doubles games, etiquette, safety, and competi-
tive activities are included. Equipment is furnished.
Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1111 Beginning Bowling (1)
(This is a common course number. Last year's course prefix/number
PEH 120)
Basic bowling skills at the beginner level as well as rules,
strategies, safety, scoring and competitive activities are
emphasized. All classes are conducted at an off-campus
bowling lane. Lane fee. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1112 Folk Dance (1)
(This is a common course number. Last year's course prefix/number
PEH 121)
Participation is provided in a variety of folk dances from
other lands. The study of cultural backgrounds and cos-
tumes is included. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1113 Beginning Gymnastics (1)
(This is a common course number. Last year's course prefix/number
PEH 122)
Beginning level skills in both men's and women's all-around
gymnastic events are emphasized. Men's events include
horizontal bar, pommel horse, rings, vaulting, floor exercise,
and parallel bars. Women's events include floor exercise,
vaulting, balance beam, and uneven parallel bars. Basic
tumbling skills are also included. All appropriate events will
be incorporated into a beginner's level routine. Laboratory
fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1114 Beginning Swimming (1)
(This is a common course number. Last year's course prefix/number
PEH 123)
This course is designed to teach a non-swimmer or a shal-
low water swimmer to become a safe and efficient deep
water swimmer. After the development of sufficient skills to
perform a modified crawl stroke, the elementary back
stroke, survival floating, jumping into deep water, leveling
off and changing directions, swimmers will be able to swim
in deep water. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1115 Social Dance (1)
(This is a common course number. Last year's course prefix/number
PEH 124)
This course is for students who have limited experience in
dance. Ballroom and social dancing are offered. Included
are fundamental steps and rhythms of the fox-trot, waltz,
tango, and recent dances. "Country" dancing includes the
two-step, cotton-eyed Joe, square dance, and other dan-
ces. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1116 Conditioning Exercise (1)
(This is a common course number. Last year's course prefix/number
PEH 125)
This course focuses on understanding exercise and its
effect on the body. Cardiovascular endurance, muscular
strength, endurance and flexibility are improved through a
variety of conditioning activities. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1117 Beginning Basketball And
Volleyball (1)
(This is a common course number. Last year's course prefix/number
PEH 127)
Basic basketball and volleyball skills are taught. Rules,
game strategies and competitive activities are included.
Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)
This beginning course is designed to emphasize basic dance technique, body alignment and placement, floor work, locomotor patterns, and creative movement. The heart rate is elevated to the appropriate target zone for dance technique, body alignment and placement, floor work (Coordinating Board Academic Approval Number 3601085128).

PHED 1119 Weight Training And Conditioning (1)
(This is a common course number. Last year's course prefix/number PEH 131)
Instruction in weight training and conditioning techniques are stressed. Emphasis is placed on muscular strength and endurance. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1120 Self-Defense (1)
(This is a common course number. Last year's course prefix/number PEH 132)
Various forms of self-defense are introduced. The history and philosophy of the martial arts are explored. The student should progress from no previous experience in self-defense to an adequate skill level covering basic self-defense situations. Both mental and physical aspects of the arts are stressed. Uniform required. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1121 Jogging for Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 133)
Development and improvement of physical fitness through jogging is emphasized. Fitness concepts and jogging skills will be introduced. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1122 Outdoor Education (1)
(This is a common course number. Last year's course prefix/number PEH 134)
Knowledge and skills in outdoor education and camping are presented. Planned and incidental experiences take place, including a week-end camp-out. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1123 Walking For Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 135)
This course is designed for the student who desires cardiovascular fitness by means of a low impact method. Maximum physical fitness is achieved by vigorous walking. The heart rate is elevated to the appropriate target zone for peak conditioning. An extensive warm-up and cool down increases joint and muscle flexibility. This course may be repeated for credit. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1124 Aerobic Dance (1)
(This is a common course number. Last year's course prefix/number PEH 137)
This course emphasizes the development of cardiovascular endurance by utilizing choreographed routines which may combine basic dance patterns with walking, jogging, jumping, etc. Individual fitness levels are accommodated by the intensity of the workout. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1125 Aquatic Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 143)
This course is designed to promote fitness through the use of water-related activities compatible with a pool environment. Emphasis is placed on water resistant exercises, lap swimming utilizing various kicks and strokes, relays, and a variety of aquatic games. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1126 Cycling (1)
(This is a common course number. Last year's course prefix/number PEH 145)
Development of cycling skills and improvement of physical fitness through cycling are emphasized. Fitness concepts, riding technique, safety, routine maintenance and repair of the cycle are fundamental topics of this course. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1127 Triathlon Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 146)
This course includes an individualized program of walking, running, cycling, swimming, and weight training. From these activities, the student and instructor will design a fitness program to improve total body fitness, strength, endurance and self-image. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1128 Canoeing/Kayaking (1)
(This is a common course number. Last year's course prefix/number PEH 149)
This course is designed to teach the students knowledge and appreciation of basic white water canoeing/kayaking skills so they can actively engage in these activities throughout their lives. A weekend river trip is included in this course. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)

PHED 1129 Backpacking/Rock Climbing (1)
(This is a common course number. Last year's course prefix/number PEH 150)
This course is designed to teach the students basic skills, knowledge and appreciation of backpacking and rock climbing to the extent that they can actively engage in these activities throughout their lives. A weekend backpacking trip is included in the course. Laboratory fee. (3 Lab.) (Coordinating Board Academic Approval Number 3601085128)
PHED 1130 Lifetime Sports Activities II (1)  
(This is a common course number. Last year's course prefix/number PEH 200)  
Prerequisite: Associate Physical Education 1000 level or demonstrated competence approved by the instructor. Intermediate and intermediate/advanced skills in a variety of lifetime sports are presented. Students participate in a selected sport. Physical Education 2000 may be repeated for credit when students select different activities. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1131 Intermediate Soccer (1)  
(This is a common course number. Last year's course prefix/number PEH 204)  
Prerequisite: Physical Education 1102 or demonstrated competence approved by the instructor. Basic skills and techniques are refined beyond the beginner level. Analysis and practice of strategies, safety, offensive and defensive patterns of play and competitive activities are covered. Course emphasis is placed on the development and preparation for participation on an Intercollegiate team. This course may be repeated for credit. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1132 Intermediate Softball (1)  
(This is a common course number. Last year's course prefix/number PEH 212)  
Prerequisite: Physical Education 1104 or demonstrated competence approved by the instructor. Emphasis is placed on game strategy, base coaching, preparing a lineup, conducting drills, and performance on hitting, catching, and throwing. This course may be repeated for credit. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1133 Intermediate Racquetball (1)  
(This is a common course number. Last year's course prefix/number PEH 213)  
Prerequisite: Physical Education 1105 or demonstrated competence approved by the instructor. This activity course is designed for students seeking to advance their racquetball skill level. The course content covers advanced shot execution, strategy, and the doubles game. Emphasis is placed on improved skill and strategy. This course may be repeated for credit. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1134 Intermediate Physical Fitness (1)  
(This is a common course number. Last year's course prefix/number PEH 215)  
Prerequisite: Demonstrated competence approved by the instructor. Basic skills and techniques of fitness-related activities are developed beyond the beginner level. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1135 Intermediate Archery (1)  
(This is a common course number. Last year's course prefix/number PEH 217)  
Prerequisite: Demonstrated competence approved by the instructor. Course content includes refinement for basic archery skills and competitive target shooting and field archery. Equipment is furnished. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1136 Intermediate Golf (1)  
(This is a common course number. Last year's course prefix/number PEH 218)  
Prerequisite: Demonstrated competence approved by the instructor. Basic skills and techniques are refined beyond the beginner level. Analysis and practice of the golf swing; swing theory and methods, strategy, and actual golf course playing are emphasized. Equipment is furnished. Green fees. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1137 Intermediate Tennis (1)  
(This is a common course number. Last year's course prefix/number PEH 219)  
Prerequisite: Demonstrated competence approved by the instructor. Emphasis is placed on refinement of basic skills and specialty shots. Competitive activities in singles, doubles and mixed doubles will be included. Equipment is furnished. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1139 Intermediate Gymnastics (1)  
(This is a common course number. Last year's course prefix/number PEH 222)  
Prerequisite: Demonstrated competence approved by the instructor. Basic tumbling and the all-around events for men and women will be emphasized at the intermediate performance level. Course emphasis is placed on the development, preparation and presentation of gymnastic routines. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1140 Intermediate Swimming (1)  
(This is a common course number. Last year's course prefix/number PEH 223)  
Prerequisite: Demonstrated competence approved by the instructor. The correct performance of the crawl, elementary back stroke, side and breast strokes will be emphasized. Some speed and endurance swimming will be required. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)

PHED 1141 Intermediate Weight Training (1)  
(This is a common course number. Last year's course prefix/number PEH 231)  
Prerequisite: Demonstrated competence approved by the instructor. Skills and instruction in weight training techniques are developed beyond the beginner level. Laboratory fee. (3 Lab.)  
(Coordinating Board Academic Approval Number 3601085128)
PHED 1142 Intermediate Self-Defense (1)
(This is a common course number. Last year's course prefix/number PEH 232)
Prerequisite: Demonstrated competence approved by the instructor. Students will be introduced to intermediate forms of defense and combinations of self-defense methods. Emphasis is on practical application of self-defense movements. Uniform required. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1143 Intermediate Jogging (1)
(This is a common course number. Last year's course prefix/number PEH 233)
Prerequisite: Demonstrated competence approved by the instructor. Improvement of physical fitness through jogging is developed beyond the beginner stage. A higher level of fitness is expected. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1144 Walking For Physical Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 235)
Prerequisite: Demonstrated competence approved by the instructor. Students participate in a low impact exercise walking program beyond the beginning level. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1145 Intermediate Aerobic Dance (1)
(This is a common course number. Last year's course prefix/number PEH 237)
Prerequisite: Demonstrated competence approved by the instructor. This course emphasizes the development of cardiovascular endurance through a combination of walking, jogging, jumping, etc. Individual fitness levels are developed beyond the beginner level. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1146 Intermediate Basketball (1)
(This is a common course number. Last year's course prefix/number PEH 239)
Prerequisite: Demonstrated competence approved by the instructor. Basic skills and techniques are refined beyond the beginner level. Analysis and practice of shooting, passing, dribbling, team play, strategies, and competitive play covered. Course emphasis is placed on the development and preparation for participation on an intercollegiate team. Equipment is furnished. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1147 Intermediate Volleyball (1)
(This is a common course number. Last year's course prefix/number PEH 240)
Prerequisite: Demonstrated competence approved by the instructor. Basic skills and techniques are refined beyond the beginner level. Analysis and practice of the forearm pass, setting, spiking, serving, team play, strategies, and competitive play are covered. Course emphasis is placed on the development and preparation for participation on an intercollegiate team. Equipment is furnished. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1148 Intermediate Baseball (1)
(This is a common course number. Last year's course prefix/number PEH 241)
Prerequisite: Demonstrated competence approved by the instructor. Basic skills and techniques are refined beyond the beginner level. Analysis and practice of hitting, fielding, pitching, team play, and competitive play are emphasized. Baseball history and interpretation of the rules are also covered. Course emphasis is placed on the development and preparation for participation on an intercollegiate team. This course may be repeated for credit. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1149 Intermediate Cycling (1)
(This is a common course number. Last year's course prefix/number PEH 245)
Prerequisite: Physical Education 1126 or demonstrated competence approved by the instructor. Improvement of physical fitness through cycling is developed beyond the beginner stage. A higher level of fitness is expected. This course may be repeated for credit. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)

PHED 1150 Intermediate Bowling (1)
(This is a common course number. Last year's course prefix/number PEH 220)
This course is designed for students seeking improvement in the lifetime sport of bowling. The course covers a review of history, etiquette, care and selection of equipment, rules and scoring. Additional information will be provided on handicapping, league play, variation of grips, spot bowling and alley textures. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085128)
PHED 1164 Physical Fitness (1)
(This is a common course number. Last year's course prefix/number PEH 115)
Students are introduced to health related concepts and activities for the purpose of gaining knowledge and skills necessary to evaluate personal fitness level and to develop a personal lifelong fitness program. Activities include, but are not limited to: aerobics, circuit training, muscular development, flexibility, agility exercises, weight training and body composition. This course may be repeated for credit. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3105015128)

PHED 1270 Divermaster (2)
(Last year's course prefix/number PEH 142)
Prerequisite: Physical Education 2271 or advanced certification from any of the national certifying organizations. This course is designed for the advanced diver who seeks additional training as an instructional assistant responsible for the organization, teaching and safety of scuba divers. Students who successfully complete this course will receive divermaster certification. This course may be repeated for credit. Laboratory fee. (1 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 3601085328)

PHED 1301 Introduction To Physical Education (3)
(This is a common course number. Last year’s course prefix/number PEH 144)
This course is for students majoring in physical education and is designed for professional orientation in physical education, health, and recreation. The history, philosophy, and modern trends of physical education are surveyed. Topics include teacher qualifications, vocational opportunities, expected competencies, and skill testing. This course does not satisfy the physical education activity course requirement. (3 Lec.)
(Coordinating Board Academic Approval Number 3105015228)

PHED 1304 Health For Today (3)
(This is a common course number. Last year's course prefix/number PEH 101)
Emphasis is placed on relating course content to lifestyle to foster a better understanding of the major health issues of today. Current issues include, but are not limited to: emotional health, chemical use and abuse, human sexuality, major diseases, physical fitness, nutrition, aging, death and dying. This course does not satisfy the physical education activity course requirement. (3 Lec.)
(Coordinating Board Academic Approval Number 5103015128)

PHED 1306 Advanced First Aid And Emergency Care (3)
(This is a common course number. Last year’s course prefix/number PEH 257)
This course covers the theory and practice in advanced first aid and emergency care. Various aspects of safety education also are included. The course content has been selected from nationally recognized organizations in safety education and first aid. This course does not satisfy the physical education activity course requirement. (3 Lec.)
(Coordinating Board Academic Approval Number 5103015328)

PHED 1308 Sports Officiating I (3)
(This is a common course number. Last year’s course prefix/number PEH 147)
This course is for students who choose officiating for an avocation and who want to increase their knowledge and appreciation of sports. Sports covered in this course are football, basketball, and other sports as appropriate. Students are expected to officiate Intramural games. This course does not satisfy the physical education activity course requirement. (2 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1202045128)

PHED 1309 Sports Officiating II (3)
(This is a common course number. Last year's course prefix/number PEH 148)
This course is for students who choose officiating for an avocation and who want to increase their knowledge and appreciation of sports. Sports covered in this course are softball, track and field, baseball, and other sports as appropriate. Students are expected to officiate Intramural games. This course does not satisfy the physical education activity course requirement. (2 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1202045128)

PHED 1321 The Coaching Of Football And Basketball (3)
(This is a common course number. Last year’s course prefix/number PEH 236)
The skills and techniques of coaching football and basketball are presented. Included are the history, theories, philosophies, rules, terminology, and finer points of the sports. Emphasis is on coaching techniques. This course does not satisfy the physical education activity course requirement. (2 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 3105065128)

PHED 1336 Outdoor Recreation (3)
(This is a common course number. Last year’s course prefix/number PEH 109)
Outdoor recreation and organized camping are studied. Both the development of these activities and present trends are covered. This course does not satisfy the physical education activity course requirement. (3 Lec.)
(Coordinating Board Academic Approval Number 3101015128)
PHED 1337 Community Recreation (3)
(This is a common course number. Last year’s course prefix/number PEH 110)
This course is primarily for students majoring or minoring in health, physical education, or recreation. The principles, organization, and function of recreation in American society are covered. This course does not satisfy the physical education activity course requirement. (3 Lec.)
(Coordinating Board Academic Approval Number 3101015128)

PHED 2155 Advanced Life Saving (1)
(This is a common course number. Last year’s course prefix/number PEH 226)
Prerequisite: Demonstrated competence approved by the instructor. Successful completion of this course qualifies students for the Red Cross Life Guarding Certificate. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 3601085328)

PHED 2255 Water Safety Instructor (2)
(This is a common course number. Last year’s course prefix/number PEH 234)
Prerequisite: Current Advanced Life Saving Card. The principles and techniques for instructors in water safety and life saving classes are covered. Completion of the course qualifies the student to test for certification by the Red Cross as a water safety instructor. A uniform is required. Laboratory fee. (1 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 3601085328)

PHED 2270 Scuba Diving (2)
(Last year’s course prefix/number PEH 225)
Prerequisite: Demonstrated competence approved by the instructor. This course includes instruction in the proper use of equipment, safety, physiology and open water diving. Students completing course requirements receive certification through one of several major accredited associations. Equipment rental fee. Laboratory fee. (1 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 3601085328)

PHED 2271 Advanced Open Water Scuba (2)
(Last year’s course prefix/number PEH 227)
Prerequisite: Physical Education 2270 or appropriate certifying agency entry level certificate or 10 log book hours. Instruction will include the introductory knowledge and skill development in the open water environment for the student to participate in underwater investigation, deep diving, search and light salvage, and limited visibility/night diving. Safety, special equipment, dive planning and dive buddy procedures will be covered. Upon successful completion of the course, the student will receive advanced open water certification through a qualified certifying agency. Laboratory fee. (1 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 3601085328)

PHYSICAL FITNESS TECHNOLOGY

PFIT 1181 Group Exercise Instruction (1)
(Last year’s course prefix/number PFT 181)
The teaching of group exercise sessions is presented. Topics covered include music selection, cueing, sequencing, basic and advanced steps, and floor work. Techniques appropriate to low- and high-impact aerobics and water aerobics are presented. The emphasis is on the development of safe, enjoyable group exercise. Laboratory fee. (1 Lab.)

PFIT 1191 Personal Training (1)
(Last year’s course prefix/number PFT 191)
Aspects of personal (one-on-one) training are presented. Topics include marketing, program development, documentation, training systems, and business considerations. The emphasis is on the development of safe, enjoyable individualized training sessions. (1 Lec.)

PFIT 1370 Exercise Science (3)
(Last year’s course prefix/number PFT 101)
This course is a survey of scientific principles, methodologies, and research as applied to exercise and physical fitness. The emphasis is on physiological responses and adaptations to exercise. Basic elements of kinesiology, biomechanics, and motor learning are addressed. An introduction to the physical fitness industry is included. (3 Lec.)

PFIT 1470 Fitness And Exercise Testing I (4)
(Last year’s course prefix/number PFT 120)
Techniques for conducting physical fitness assessments are studied. Tests of cardio-respiratory fitness, muscular strength and endurance, joint flexibility, body composition, and pulmonary capacity are included. The course includes an introduction to electrocardiography. Safety guidelines and precautions are emphasized. Equipment use and maintenance are covered. (3 Lec., 3 Lab.)

PFIT 1471 Physical Fitness Theory And Instruction (4)
(Last year’s course prefix/number PFT 140)
Prerequisite: Physical Fitness Technology 1470 or demonstrated competence approved by the instructor. Five health-related components of physical fitness are studied: cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and body composition. The theoretical bases underlying physical fitness and instructional techniques for fitness development are covered. Methods for leading an exercise session, including recruitment, design, instruction, and evaluation are studied. Safety and injury prevention are emphasized. Equipment use and maintenance are covered. (3 Lec., 3 Lab.)
PFIT 2170 Selected Topics In Physical Fitness Technology (1)
(Last year's course prefix/number PFT 281)
This is an elective course designed to deal with specific topics in physical fitness technology. As the topics change, this course may be repeated twice for credit. (1 Lec.)

PFIT 2171 Practical Application In Physical Fitness Technology I (1)
(Last year's course prefix/number PFT 290)
Prerequisites: Physical Fitness Technology 1471. The student serves as an instructional assistant in a physical education activity class. Course objectives are individualized to the student. The student assists in a class from one of the three activity course clusters: Aerobic Activities, Strength Activities, Recreational/Sport Activities. (3 Lab.)

PFIT 2172 Practical Application In Physical Fitness Technology II (1)
(Last year's course prefix/number PFT 291)
Prerequisite: Physical Fitness Technology 2171. The student serves as an instructional assistant in a physical education activity class. Course objectives are individualized to the student. The class in which the student assists must be from an activity course cluster (Aerobic Activities, Strength Activities, Recreational/Sport Activities) different from the student's Physical Fitness Technology 2171 assignment. (3 Lab.)

PFIT 2370 Instruction In Lifestyle Change (3)
(Last year's course prefix/number PFT 200)
Health risk appraisals and their application to lifestyle change are covered. The components of weight control, smoking cessation, and stress management programs and the principles of exercise adherence are studied. Techniques in behavior modification, motivation, teaching, and counseling are addressed, and behavior change as lifestyle change is emphasized. The use of personal computer and audiovisual programs for health risk appraisal and lifestyle change instruction is included. (2 Lec., 3 Lab.)

PFIT 2371 Exercise Programming (3)
(Last year's course prefix/number PFT 212)
The scheduling and implementation of physical fitness classes, recreational activities, and competitive events are studied. Non-exercise programming and programming for special populations are also included. The design of safe, enjoyable activities is emphasized. (3 Lec.)

PFIT 2372 Prevention And Care Of Exercise Injury (3)
(Last year's course prefix/number PFT 230)
Prerequisite: Physical Education 1306, current Advanced First Aid and CPR Certification, or demonstrated competence approved by the instructor. Methods for the injury-prevention design of the exercise setting and exercise program are covered in this course. The use of physical conditioning techniques to prevent injury, and current exercise fads and myths that promote injury are explored. Methods for injury recognition and evaluation, the on-site care of exercise injuries, and emergency procedures are presented. (2 Lec., 3 Lab.)

PFIT 2373 Practical Aspects Of The Fitness Industry (3)
(Last year's course prefix/number PFT 240)
This course is a survey of the practical aspects of the physical fitness industry. Topics covered include equipment cost analysis, program marketing, legal issues, policy formation, budgetary planning, and time management. A variety of computer applications and current industry trends are also covered. (3 Lec.)

PFIT 2374 Psychosocial Aspects Of Sport And Exercise (3)
(Last year's course prefix/number PFT 250)
The social and cultural influences on exercise initiation and exercise adherence are explored. Emphasis is given to the interrelatedness of mental skills and physical skills and the value of sport and exercise for overall well-being. Techniques for maximizing performance are included. (3 Lec.)

PFIT 2375 Selected Topics In Physical Fitness Technology (3)
(Last year's course prefix/number PFT 283)
This is an elective course designed to deal with specific topics in physical fitness technology. As the topics change, this course may be repeated once for credit. (3 Lec.)

PFIT 2470 Fitness And Exercise Testing II (4)
(Last year's course prefix/number PFT 220)
Prerequisite: Physical Fitness Technology 1470 or demonstrated competence approved by the instructor. This is an advanced course in graded exercise testing. Various exercise testing protocols for determining cardiorespiratory fitness are covered. Basic electrocardiography is studied, including abnormalities that would prompt limitation or termination of an exercise tolerance test. Methods for prescribing exercise programs based upon exercise test results are also studied. (3 Lec., 3 Lab.)
PFIT 7371 Cooperative Work Experience (3)
(Last year's course prefix/number PFT 703)
Prerequisites: Completion of two courses in Physical Fitness Technology or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, team building, problem solving, goal setting, and conflict resolution. (1 Lec., 15 Lab.)

PFIT 7372 Cooperative Work Experience (3)
(Last year's course prefix/number PFT 713)
Prerequisite: Completion of Physical Fitness Technology 7371 or 7471 or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, time management, stress management, chemical dependency, and personal wellness. (1 Lec., 15 Lab.)

PFIT 7471 Cooperative Work Experience (4)
(Last year's course prefix/number PFT 704)
Prerequisites: Completion of two courses in Physical Fitness Technology or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, team building, problem solving, goal setting, and conflict resolution. (1 Lec., 20 Lab.)

PFIT 7472 Cooperative Work Experience (4)
(Last year's course prefix/number PFT 714)
Prerequisite: Completion of Physical Fitness Technology 7371 or 7471 or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, time management, stress management, chemical dependency, and personal wellness. (1 Lec., 20 Lab.)

PFIT 8381 Cooperative Work Experience (3)
(Last year's course prefix/number PFT 803)
Prerequisite: Completion of Physical Fitness Technology 7372 or 7472 or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, job interviews, career goals, work ethics, and professional resources. (1 Lec., 15 Lab.)

PFIT 8481 Cooperative Work Experience (4)
(Last year's course prefix/number PFT 804)
Prerequisite: Completion of Physical Fitness Technology 7372 or 7472 or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives each semester. The seminar consists of orientation to cooperative work experience, writing learning objectives, customer service, job interviews, career goals, work ethics, and professional resources. (1 Lec., 20 Lab.)

PHYSICAL SCIENCE
(See Physics)

PHYSICS

PHYS 1111 Astronomy Laboratory I (1)
(This is a common course number. Last year's course prefix/number AST 103)
Prerequisite: Credit or concurrent enrollment in Physics 1311. The student uses simple equipment to make elementary astronomical observations of the motions of celestial objects. Also covered are elementary navigational techniques, graphical techniques of calculating the position of a planet or comet, and construction of simple observing equipment. This laboratory includes night observations. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 4002015139)

PHYS 1112 Astronomy Laboratory II (1)
(This is a common course number. Last year's course prefix/number AST 104)
Prerequisite: Credit or concurrent enrollment in Physics 1312. The student makes and uses elementary astronomical observations. Topics include timekeeping, the various uses of spectra, and the motions of stars and galaxies. This laboratory includes night observations. Laboratory fee. (3 Lab.)
(Coordinating Board Academic Approval Number 4002015139)
PHYS 1311 Descriptive Astronomy (3)
(This is a common course number. Last year's course prefix/number AST 101)
This course surveys the fundamentals of astronomy. Emphasis is on the solar system. Included is the study of the celestial sphere, the earth's motions, the moon, planets, asteroids, comets, meteors, and meteorites. (3 Lec.) (Coordinating Board Academic Approval Number 4002015139)

PHYS 1312 General Astronomy (3)
(This is a common course number. Last year's course prefix/number AST 102)
Stellar astronomy is emphasized. Topics include a study of the sun, the properties of stars, star clusters, nebulae, interstellar gas and dust, the Milky Way Galaxy, and external galaxies. (3 Lec.) (Coordinating Board Academic Approval Number 4002015139)

PHYS 1401 Introductory General Physics (4)
(This is a common course number. Last year's course prefix/number PHY 111)
Prerequisite: Two years of high school algebra, including trigonometry, or the equivalent. This course is for pre-dental, biology, premedical, pre-pharmacy, and pre-architecture majors and other students who need a two-semester technical course in physics. Mechanics and heat are studied. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4008015339)

PHYS 1402 Introductory General Physics (4)
(This is a common course number. Last year's course prefix/number PHY 112)
Prerequisite: Physics 1401. This course is a continuation of Physics 1401. Electricity, magnetism, light, and sound are studied. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4008015339)

PHYS 1405 Concepts In Physics (4)
(This is a common course number. Last year's course prefix/number PHY 117)
This course is for non-science majors. It introduces principles of physics and does not require a mathematical background. Emphasis is on classical mechanics and thermodynamics. Historical developments and their impact on daily life are included. The principle of energy conservation is stressed, and current problems of worldwide energy production are examined. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4008015139)

PHYS 1407 Concepts In Physics (4)
(This is a common course number. Last year's course prefix/number PHY 118)
This is for non-science majors. It introduces principles of physics and does not require a mathematical background. Emphasis is on modern developments in physics. Topics include acoustics, electricity and magnetism, light and the electromagnetic spectrum, atomic physics, and relativity. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4008015139)

PHYS 1411 Fundamentals Of Astronomy (4)
(This is a common course number. Last year's course prefix/number AST 111)
This course concerns fundamental aspects of the solar system and the historical development of astronomical ideas. Included are studies of the celestial sphere and motions of the earth, the moon, planets, and other minor bodies. The origin and evolution of the solar system are also covered. The laboratory includes outdoor viewing sessions and study of celestial motions, elementary navigation, constellation identification, and telescope construction. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4002015139)

PHYS 1412 General Introductory Astronomy (4)
(This is a common course number. Last year's course prefix/number AST 112)
This course concerns fundamental properties of stars, stellar systems, star clusters, nebulae, interstellar gas and dust, and galaxies. Included is the study of the sun, Milky Way Galaxy, stellar evolution, black holes, and current cosmological ideas. The laboratory includes outdoor viewing sessions and the study of timekeeping, use of spectra, and motions of stars and galaxies. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4002015139)

PHYS 1415 Physical Science (4)
(This is a common course number. Last year's course prefix/number PSC 118)
This course is primarily for non-science majors. It is a study of the basic principles and concepts of physics, chemistry, and nuclear science. The three basic sciences are related to the physical world at an introductory level. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4001015138)

PHYS 1417 Physical Science (4)
(This is a common course number. Last year's course prefix/number PSC 119)
This course is for non-science majors. It focuses on the interaction of the earth sciences and the physical world. Geology, astronomy, meteorology, and space science are emphasized. Selected principles and concepts are explored. This course is also offered as Geology 1401. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4001015138)

PHYS 1470 Applied Physics (4)
(Last year's course prefix/number PHY 131)
Prerequisite: Mathematics 1374 or concurrent enrollment in Mathematics 1374. This course is primarily for students in technical programs. The properties of matter, mechanics, and heat are introduced. Emphasis is on uses and problem-solving. Laboratory fee. (3 Lec., 3 Lab.) (Coordinating Board Academic Approval Number 4008015339)
PHYS 1471 Applied Physics (4)
(Last year’s course prefix/number PHY 132)
Prerequisite: Physics 1470. This course is a continuation of Physics 1470. Concepts of sound, light, electricity, magnetism, and atomic theory are explained. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4008015339)

PHYS 2425 General Physics (4)
(This is a common course number. Last year’s course prefix/number PHY 201)
Prerequisite: Credit or concurrent enrollment in Mathematics 2513. This course is designed primarily for physics, chemistry, mathematics, and engineering majors. The principles and applications of mechanics, wave motion, and sound are studied. Emphasis is on fundamental concepts, problem-solving, notation, and units. The laboratory includes a one-hour problem session. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4008015439)

PHYS 2426 General Physics (4)
(This is a common course number. Last year’s course prefix/number PHY 202)
Prerequisites: Physics 2425 and credit or concurrent enrollment in Mathematics 2414. This course presents the principles and applications of heat, electricity, magnetism, and optics. Emphasis is on fundamental concepts, problem-solving, notation and units. The laboratory includes a one-hour problem session. Laboratory fee. (3 Lec., 3 Lab.)
(Coordinating Board Academic Approval Number 4008015439)

PSYCHOLOGY
PSYC 1370 Applied Psychology And Human Relations (3)
(Last year’s course prefix/number PSY 131)
Psychological principles are applied to human relations problems in business and industry. Topics include group dynamics and adjustment factors for employment and advancement. (3 Lec.)
(Coordinating Board Academic Approval Number 4020105240)

PSYC 2301 Introduction To Psychology (3)
(This is a common course number. Last year’s course prefix/number PSY 101)
Introduction to Psychology surveys major topics in the study of behavior. Factors which determine and affect behavior are examined. Psychological principles are applied to the human experience. (3 Lec.)
(Coordinating Board Academic Approval Number 4201015140)

PSYC 2302 Applied Psychology (3)
(This is a common course number. Last year’s course prefix/number PSY 202)
Prerequisite: Psychology 2301. Psychological facts and principles are applied to problems and activities of life. Emphasis is on observing, recording, and modifying human behavior. Some off-campus work may be required. (3 Lec.)
(Coordinating Board Academic Approval Number 4201015240)

PSYC 2306 Human Sexuality (3)
(This is a common course number. Last year’s course prefix/number PSY 103)
Students may register for either Psychology 2306 or Sociology 2306 but receive credit for only one of the two. Topics include physiological, psychological, and sociological aspects of human sexuality. (3 Lec.)
(Coordinating Board Academic Approval Number 4201015340)

PSYC 2314 Developmental Psychology (3)
(This is a common course number. Last year’s course prefix/number PSY 201)
Prerequisite: Psychology 2301. This course is a study of human growth, development, and behavior. Emphasis is on psychological changes during life. Processes of life from prenatal beginnings through adulthood and aging are included. (3 Lec.)
(Coordinating Board Academic Approval Number 4207015140)

PSYC 2316 Psychology Of Personality (3)
(This is a common course number. Last year’s course prefix/number PSY 205)
Prerequisite: Psychology 2301. This course is an introduction to the study of personality. Topics of personality and adjustment will be studied in the context of various personality theories. Emphasis will be on the application of those topics. (3 Lec.)
(Coordinating Board Academic Approval Number 4201015740)

PSYC 2319 Social Psychology (3)
(This is a common course number. Last year’s course prefix/number PSY 207)
Prerequisite: Psychology 2301 or Sociology 1301. Students may register for either Psychology 2319 or Sociology 2326 but may receive credit for only one. Theories of individual behavior in the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (3 Lec.)
(Coordinating Board Academic Approval Number 4216015140)
RADIO, FILM AND TELEVISION

(Videotechnology)

RFTV 1370 Introduction to Video Technology (3)
(Last year’s course prefix/number VFT 101)
This course covers the practical selection and application of production supplies and equipment to shooting situations. It further covers the study of the properties of video tape and a variety of video apparatus used in studio and field production. Equipment theory covers the technical aspects of equipment internal operation and application. Laboratory fee. (2 Lec., 2 Lab.)

RFTV 1371 Television Lighting (3)
(Last year’s course prefix/number VFT 103)
This course introduces students to the theory and application of lighting for television production. Topics include basic lighting equipment for studio and location productions and the application of lighting to a variety of production environments. Choices of color, angle, intensity, distribution, and the proper use of lighting control scrim, screens, and gels are emphasized. Laboratory fee. (2 Lec., 3 Lab.)

RFTV 1372 Audio Production (3)
(Last year’s course prefix/number VFT 115)
This course introduces students to the fundamentals of audio production. The course focuses on the properties of sound, conversion into electronic signals, mixing, and recording. The application of audio production to television is emphasized. Laboratory fee. (2 Lec., 3 Lab.)

RFTV 1470 Video Production I (4)
(Last year’s course prefix/number VFT 106)
This course introduces students to video production and provides an opportunity for students to get initial experience as directors, producers, and equipment crew while handling talent, blocking scenes, dealing with composition, lighting, packing, staging, sound, scripting, and sequencing of shots. This course reviews the history of television in looking at site selection, location shots, set discipline, breaks, shooting schedules, and property management. Laboratory fee. (3 Lec., 4 Lab.)

RFTV 1471 Video Production II (4)
(Last year’s course prefix/number VFT 110)
Prerequisite: Radio, Film and Television 1470. This course provides training in the operation of the equipment used in television production facilities and remote shooting locations. The course includes camera operations, application of light and sound, technical directing, video recording techniques, silent and soundover applications, switching, special effects, set blocking, and development of the shoot and use of above and below the line personnel. Laboratory fee. (3 Lec., 4 Lab.)

RFTV 1472 Video Editing and Post Production I (4)
(Last year’s course prefix/number VFT 112)
Prerequisite: Radio, Film and Television 1470. This course provides the theory and practice of video editing through laboratory exercises in the creative and mechanical aspects of editing and visual sweetening. Laboratory fee. (3 Lec., 4 Lab.)

RFTV 2370 Broadcast Engineering I (3)
(Last year’s course prefix/number VFT 205)
Prerequisite: Radio, Film and Television 1370. This course emphasizes the basics of engineering of video productions. It includes the basic alignment of cameras, vectorscopes, waveform monitors, signal and sync generators, time base correctors, the general operation of each and servicing of many other pieces of equipment. It includes audio and video cable and connector identification, construction, and testing. It further covers PAL, SMPTE, SECAM, NTSC, and EIAJ standards. The basics of electricity and electronics are also emphasized in this class. Laboratory fee. (2 Lec., 3 Lab.)

RFTV 2371 Business Aspects of Video Management (3)
(Last year’s course prefix/number VFT 214)
This general business course for video stresses personnel management, production budgeting, staffing, decision-making, portfolio/resume development, interviewing techniques, site selection, contract law, and copyright management. Use of legal and financial advisors, with a variety of business topics related to production companies, use of post houses, professional organizations, taxes, insurance, entrepreneurship, distribution, marketing, and sales will be discussed in depth. (3 Lec.)

RFTV 2372 Broadcast Engineering II (3)
(Last year’s course prefix/number VFT 215)
Prerequisite: Radio, Film and Television 2370. This course carries forward the concepts taught in Radio, Film and Television 2370 and provides for detailed application of electricity and electronics theory in the troubleshooting of problems and maintenance of video equipment. Specific problems in control room equipment adjustment and maintenance will be combined with detailed problems on camera, sound, and lighting instrument maintenance. Laboratory fee. (2 Lec., 4 Lab.)

RFTV 2373 Scriptwriting and Property Management (3)
(Last year’s course prefix/number VFT 218)
This course provides instruction in converting books, plays, drama, story, and other properties into video scripts. The course also deals with the management of these properties and the legal responsibility of property manager. (3 Lec.)
RFTV 2374 Computer Application To Video Production (3)
(Last year's course prefix/number VFT 220)
Students are provided the opportunity to develop skills in producing computer graphics, working with character generators, teleprompters, and a variety of special computer applications to visual enhancement and special effects. Laboratory fee. (2 Lec., 4 Lab.)

RFTV 2375 Music Video Production (3)
(Last year's course prefix/number VFT 226)
Prerequisite: Radio, Film and Television 2470. The student will produce a variety of video programs with a music theme and a complementary visual sequence. The process of making music videos will be thoroughly explored including visits to local production houses and application of both original, live, and canned music to visual aesthetics. Laboratory fee. (2 Lec., 4 Lab.)

RFTV 2376 Broadcast, Cable, And Satellite Technology (3)
(Last year's course prefix/number VFT 232)
This course is designed to provide a working knowledge of control room, distribution, headend, uplink, transmission, and a variety of other signal transfer techniques. Students will study the theory and application of these diverse video operations. (3 Lec.)

RFTV 2470 Video Production III (4)
(Last year's course prefix/number VFT 203)
Prerequisite: Radio, Film and Television 1470 and 1471. The advanced application and design of video productions in location and studio shoots are studied. The students are provided opportunities to build on Video Production I and II knowledge in a variety of productions with real deadlines and quality control restrictions. Students will be introduced to a variety of more sophisticated production equipment than used in Radio, Film and Television 1470 or 1471. (2 Lec., 6 Lab.)

RFTV 2471 Video Production IV (4)
(Last year's course prefix/number VFT 210)
Prerequisite: Radio, Film and Television 2470. Students produce a variety in final projects demonstrating mastery of field and studio competence. The process of developing a video portfolio for use of post graduate interviews, polishing production techniques, and developing an individual style are all important parts of the final production course. Laboratory fee. (2 Lec., 6 Lab.)

RFTV 2472 Video Editing And Post Production II (4)
(Last year's course prefix/number VFT 213)
Prerequisite: Radio, Film and Television 1318 and 1472. This course provides the students with the opportunity to apply advanced editing and post production skills to advanced equipment while producing final portfolio programs. The course incorporates the use of SMPTE time code editing with time base correction and multisource edits. It also provides opportunities for students to visit local post production facilities. Laboratory fee. (2 Lec., 6 Lab.)

RFTV 7371 Cooperative Work Experience (3)
(Last year's course prefix/number VFT 703)
Prerequisites: Completion of two courses in the Radio, Film and Television program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation, writing objectives, and work station objectives, how to find a job, resume writing, preparation for the interview, the interview, job interview from the employer's viewpoint, group discussions on experiences of job interviews, interpersonal relationships with supervisor and co-workers. (1 Lec., 15 Lab.)

RFTV 7372 Cooperative Work Experience (3)
(Last year's course prefix/number VFT 713)
Prerequisites: Completion of two courses in the Radio, Film and Television program or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation, writing objectives and work station agreements, review of work station objectives, problem solving in the workplace, role of supervisor and subordinates, building the workplace, role of supervisor and subordinates, building self-esteem, discussion of job site problems, revising existing resume, interpersonal relationships with professionals in the field that the students come into contact with, and how to gain a professional attitude within the workplace. (1 Lec., 15 Lab.)
RFTV 7471 Cooperative Work Experience (4)
( Last year's course prefix/number VFT 704)
Prerequisites: Completion of two courses in the Radio, Film and Television program or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of orientation, writing objectives, and work station objectives, how to find a job, resume writing, preparation for the interview, the interview, job interview from the employer's viewpoint, group discussions on experiences of job interviews, interpersonal relationships with supervisor and co-workers. (1 Lec., 20 Lab.)

RFTV 7472 Cooperative Work Experience (4)
( Last year's course prefix/number VFT 714)
Prerequisites: Completion of two courses in the Radio, Film and Television program or Instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The semester consists of orientation, writing objectives and work station agreements, review of work station objectives, problem solving in the workplace, role of supervisor and subordinates, building self-esteem, discussion of job site problems, revising existing resume, interpersonal relationships with professionals in the field that the student comes into contact with, and how to gain a professional attitude within the workplace. (1 Lec., 20 Lab.)

RADIO AND TELEVISION

(See Communications)

READING

READ 1370 College Reading And Study Skills (3)
( Last year's course prefix/number RD 101)
Comprehension techniques for reading college texts are emphasized. Also included are vocabulary development, critical reading, and rate flexibility. Study skills addressed include listening, note taking, underlining, concentrating, and memory. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015735)

READ 1371 Speed Reading And Learning (3)
( Last year's course prefix/number RD 102)
Reading and learning skills are addressed. Speed reading techniques and comprehension are emphasized. Learning and memory skills are also covered. (3 Lec.)
(Coordinating Board Academic Approval Number 3801015735)

REAL ESTATE

REAL 1370 Real Estate Principles (3)
( Last year's course prefix/number RE 130)
This course provides an overview of licensing for the real estate broker and salesman, ethics of practice, titles to and conveyancing of real estate, legal descriptions, law of agency, deeds, encumbrances and liens. Distinctions between personal and real property, contracts, appraisal, finance and regulations, closing procedures, and real estate mathematics are also included. Three classroom hours will be devoted to federal, state and local laws governing housing discrimination, housing credit discrimination, and community reinvestment. (3 Lec.)

REAL 1371 Real Estate Finance (3)
( Last year's course prefix/number RE 131)
Prerequisite: Real Estate 1370 or concurrent enrollment in Real Estate 1370 or equivalent. This course covers monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs and loan applications, processes, and procedures. Closing costs, alternative financial instruments, equal credit opportunity act, community reinvestment act, and state housing agency are also included. (3 Lec.)

REAL 1372 Real Estate Marketing (3)
( Last year's course prefix/number RE 133)
Prerequisite: Real Estate 1370 or concurrent enrollment in Real Estate 1370 or the equivalent. The emphasis of this course is on real estate professionalism and ethics and the satisfaction of all parties. Topics covered include characteristics of successful salesmen, time management, psychology of marketing, listing procedures, advertising, negotiating and closing, financing, and the Deceptive Trade Practices-Consumer Protection Act, as amended, Section 17.01 et seq, Business and Commerce Code. (3 Lec.)

REAL 1373 Real Estate Appraisal-Commercial (3)
( Last year's course prefix/number RE 134)
Prerequisite: Real Estate 1370 and 1371 or the equivalent. This course focuses on commercial principles and methods of appraising. Topics include central purposes and functions of an appraisal, social and economic determinants of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. (3 Lec.)

REAL 1374 Real Estate Appraisal-Residential (3)
( Last year's course prefix/number RE 135)
Prerequisites: Real Estate 1370 and 1371 or the equivalent. This course focuses on residential principles and methods of appraising. Topics include central purposes and functions of an appraisal, social and economic determinants of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. (3 Lec.)
REAL 1375 Real Estate Law (3)  
(Last year's course prefix/number RE 136)  
Prerequisite: Real Estate 1370 or concurrent enrollment in Real Estate 1370 or the equivalent. This course examines the legal concepts of real estate land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of titles. (3 Lec.)

REAL 1376 Promulgated Contract Forms (3)  
(Year's course prefix/number RE 138)  
Concepts of general contract law are reviewed as required by the Real Estate License Act. Emphasis is on detailed instructions and hands-on exercises in preparation of all promulgated contract forms. The course shall include, but not be limited to unauthorized practice of law, broker-lawyer committee, current promulgated forms, commission rules governing use of forms and case studies involving use of forms. (3 Lec.)

REAL 1378 Real Estate Mathematics (3)  
(Year's course prefix/number RE 110)  
Real estate mathematics shall include but not be limited to basic arithmetic skills and review of mathematical logic, percentages, interest, time-valued money, depreciation, amortization, proration, and estimation of closing costs. (3 Lec.)

REAL 1379 Law of Agency (3)  
(Year's course prefix/number RE 111)  
Law of agency shall include the principal-agent and master-servant relationships, the authority of an agent, the termination of an agent's authority, the fiduciary and other duties of an agent, employment law, deceptive trade practices, listing or buying representation procedures, and the disclosure of agency. (3 Lec.)

REAL 2170 Special Problems In Real Estate (1)  
(Year's course prefix/number RE 240)  
This is a special problems study course for organized class instruction in real estate. Examples of topics might include: market analysis and feasibility studies, land economics, international real estate, urban planning and development, tax shelter regulations, international money market, environmental impact and energy conservation. This course may be repeated for credit up to a maximum of three hours of credit. (1 Lec.)

REAL 2370 Real Estate Office Management/  
Brokerage (3)  
(Year's course prefix/number RE 230)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course focuses on knowledge and skills required to manage a real estate office. Topics include law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria. (3 Lec.)

REAL 2371 Commercial And Investment  
Real Estate (3)  
(Year's course prefix/number RE 233)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. Topics include real estate investment characteristics, techniques of investment analysis, time-value of money, discounted and non-discounted investment criteria, leverage, tax shelter depreciation, and applications to property tax. (3 Lec.)

REAL 2372 Property Management (3)  
(Year's course prefix/number RE 235)  
Prerequisite: Real Estate 1370 or demonstrated competence approved by the instructor. This course focuses on the various aspects of managing property. The role of the property manager, landlord policies, operational guidelines, leases, lease negotiations, tenant relations, maintenance, reports, habitability laws, and the Fair Housing Act are included. (3 Lec.)

REAL 2373 Residential Inspection For Real Estate  
Agents (3)  
(Year's course prefix/number RE 237)  
This course is a study of the different types of building systems and materials used in the design and construction of real property. The course will primarily cover residential construction; however, commercial building systems and materials will also be addressed. Different structural building systems will be studied including wood-related products, concrete and concrete masonry, brick, stone, and steel units. The TREC Promulgated Property Condition Addendum will be addressed along with inspector and client agreement, tools and procedures, electromechanical systems (plumbing, heating, air conditioning, appliances, energy-saving considerations); and structures (lot and landscape, roofs, chimney, gutters, paving, walls, windows and doors, insect damage and storage areas). (3 Lec.)

REAL 2374 Special Problems In Real Estate (3)  
(Year's course prefix/number RE 241)  
This is a special problems study course for organized class instruction in real estate. Examples of topics might include: market analysis and feasibility studies, land economics, international real estate, urban planning and development, tax shelter regulations, international money market, environmental impact and energy conservation. This course may be repeated for credit up to a maximum of six hours of credit. (3 Lec.)
REAL 7471 Cooperative Work Experience (4)
(Last year’s course prefix/number RE 704)
Prerequisites: Completion of two core Real Estate courses, concurrent enrollment in a core or related course or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of the development of a personalized on-the-job training plan and discussions with field experts on the application of real estate fundamentals which may include brokerage, marketing, finance, law, property management and appraisal in the residential and commercial real estate sectors. (1 Lec., 20 Lab.)

REAL 7472 Cooperative Work Experience (4)
(Last year’s course prefix/number RE 714)
Prerequisites: Completion of two core real estate courses and Real Estate 7471, enrollment in a core or related course or instructor approval. This course combines productive work experience with academic study. The student, employer and instructor will develop a written competency-based learning plan with varied learning objectives and work experiences. Students must develop new learning objectives each semester. The seminar consists of the development of a personalized on-the-job training plan and continuation of discussions with field experts on the application of real estate fundamentals which may include brokerage, marketing, finance, law, property management and appraisal in the residential and commercial real estate sectors. (1 Lec., 20 Lab.)

RELIGION

NOTE: These courses carry a Dallas County Community College prefix of “REU”; however, some can be identified by a common course number for transfer evaluation purposes. Both are listed in the course descriptions.)

RELI 1304 Major World Religions (3)
(Last year’s course prefix/number REL 201. The common course number is PHIL 1304)
This course surveys the major world religions. Hinduism, Buddhism, Judaism, Islam, and Christianity are included. The history of religions is covered, but the major emphasis is on current beliefs. Other topics may also be included, such as the nature of religion, tribal religion, and alternatives to religion. (3 Lec.)
(Coordinating Board Academic Approval Number 3802015235)

RELI 1370 Religion In American Culture (3)
(Last year’s course prefix/number REL 101)
This course examines the nature of religion in America. It covers important influences from the past and characteristics of current religious groups and movements. Emphasis is on understanding the role of religion in American life. (3 Lec.)
(Coordinating Board Academic Approval Number 3802015135)

RELI 1371 Contemporary Religious Problems (3)
(Last year’s course prefix/number REL 102)
Both classic and recent issues are explored. Such topics as the nature of religion, the existence of God, world religions, mysticism, sexuality and religion, and the interpretation of death are included. This course may be offered with emphasis on a specific topic, such as death and dying. (3 Lec.)
(Coordinating Board Academic Approval Number 3802015335)

RELI 1372 The History And Literature Of The Bible (3)
(Last year’s course prefix/number REL 105)
This course presents a history and literature of both the Hebrew people during the Old Testament period and the Christian movement during the New Testament period with emphasis upon the origins and development of the religious ideas and institutions of the biblical people. (3 Lec.)
(Coordinating Board Academic Approval Number 3802015135)

SOCIOLOGY

SOCI 1301 Introduction To Sociology (3)
(This is a common course number. Last year’s course prefix/number SOC 101)
This course is a sociological study of social behavior and social structures, emphasizing the importance of a knowledge and appreciation of the multicultural and multilingual dimensions of society. Topics include cultural elements such as values, norms, beliefs, language, and roles, as well as group processes, social conflict and social change. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015142)

SOCI 1306 Social Problems (3)
(This is a common course number. Last year’s course prefix/number SOC 102)
This course is a sociological study of social problems which typically include: crime, poverty, minorities, deviance, population, and health care. Specific topics may vary from semester to semester to address contemporary concerns. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015242)
SOCI 2301 Marriage, Family, and Close Relationships (3)
(This is a common course number. Last year's course prefix/number
SOC 203)
Prerequisite: Sociology 1301 recommended. Courtship patterns and marriage are analyzed. Family forms, relationships, and functions are included. Sociocultural differences in family behavior are also included. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015442)

SOCI 2306 Human Sexuality (3)
(This is a common course number. Last year's course prefix/number
SOC 103)
Students may register for either Psychology 2306 or Sociology 2306 but receive credit for only one of the two. Topics include physiological, psychological, and sociological aspects of human sexuality. (3 Lec.)
(Coordinating Board Academic Approval Number 4201015342)

SOCI 2319 American Minorities (3)
(This is a common course number. Last year's course prefix/number
SOC 204)
Prerequisite: Sociology 1301 or six hours of U.S. history recommended. Students may register for either Humanities 2319 or Sociology 2319 but may receive credit for only one. The principal minority groups in American society are the focus of this course. The sociological significance and historic contributions of the groups are presented. Emphasis is on current problems of intergroup relations, social movements, and related social changes. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015342)

SOCI 2320 Field Studies In American Minorities (3)
(This is a common course number. Last year's course prefix/number
SOC 210)
Prerequisite: Sociology 1301 or Sociology 2319. Experience is provided in various minority community centers. Work is under professional supervision in a task-oriented setting. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015342)

SOCI 2326 Social Psychology (3)
(This is a common course number. Last year's course prefix/number
SOC 207)
Prerequisite: Psychology 2301 or Sociology 1301. Students may register for either Psychology 2319 or Sociology 2326 but may receive credit for only one. Theories of individual behavior in the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (3 Lec.)
(Coordinating Board Academic Approval Number 4216015142)

SOCI 2370 Selected Topics (3)
(This is a common course number. Last year's course prefix/number
SOC 109)
Prerequisite: Sociology 1301 or demonstrated competence approved by the instructor. An in-depth study of specific contemporary topics in sociology such as popular culture (including sports, religion and mass media), the military as a social institution, education, medicine, ethnographic film, apartheid, deviance or formal organizations. This course may be repeated for credit when topics vary. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015742)

SOCI 2371 Urban Social Problems (3)
(This is a common course number. Last year's course prefix/number
SOC 231)
The sociology of social institutions is studied. Topics include urbanization, theories of formation, and the impact of urbanization on the individual. (3 Lec.)
(Coordinating Board Academic Approval Number 4511015742)

SOCW 2361 Introduction To Social Work (3)
(This is a common course number. Last year's course prefix/number
SOC 206)
The development of the field of social work is studied. Topics include the techniques of social work and the requirements for training in social work. (3 Lec.)
(Coordinating Board Academic Approval Number 4407015142)

SPANISH

SPAN 1411 Beginning Spanish (4)
(This is a common course number. Last year's course prefix/number
SPA 101)
The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1609055131)

SPAN 1412 Beginning Spanish (4)
(This is a common course number. Last year's course prefix/number
SPA 102)
Prerequisite: Spanish 1411 or the equivalent or demonstrated competence approved by the instructor. This course is a continuation of Spanish 1411. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)
(Coordinating Board Academic Approval Number 1609055131)

SPAN 2306 Spanish Conversation I (3)
(This is a common course number. Last year's course prefix/number
SPA 207)
Prerequisite: Spanish 1411 and Spanish 1412 or the equivalent. This course is designed to strengthen and improve oral skills in the language. Oral activities focus on current events, cultural, historical and social issues. Audiovisual media are used to explore Hispanic life and society. This course is intended to complement Spanish 2311. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055431)
SPAN 2311 Intermediate Spanish (3)
(This is a common course number. Last year’s course prefix/number SPA 201)
Prerequisite: Spanish 1412 or the equivalent or demonstrated competence approved by the instructor. Reading, composition, and intense oral practice are covered. Grammar is reviewed. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055231)

SPAN 2312 Intermediate Spanish (3)
(This is a common course number. Last year’s course prefix/number SPA 202)
Prerequisite: Spanish 2311 or the equivalent or demonstrated competence approved by the instructor. This course is a continuation of Spanish 2311. Contemporary literature and composition are studied. Grammar is reviewed and expanded. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055231)

SPAN 2321 Introduction To Spanish Literature (3)
(This is a common course number. Last year’s course prefix/number SPA 203)
Prerequisite: Spanish 2312 or the equivalent or demonstrated competence approved by the instructor. This course is an introduction to Spanish literature. It includes readings in Spanish literature, history, culture, art, and civilization. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055331)

SPAN 2322 Introduction To Spanish Literature (3)
(This is a common course number. Last year’s course prefix/number SPA 204)
Prerequisite: Spanish 2312 or the equivalent or demonstrated competence approved by the instructor. This course is a continuation of Spanish 2321. It includes readings in Spanish literature, history, culture, art, and civilization. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055331)

SPAN 2370 Spanish Conversation II (3)
(Last year’s course prefix/number SPA 208)
Prerequisite: Spanish 2311 or the equivalent. This course is designed to further strengthen and improve oral skills in the language. Oral activities will continue to focus on current events, cultural, historical, and social issues. Audio-visual media are used to explore Hispanic life and society. This course is intended to complement Spanish 2312. (3 Lec.)
(Coordinating Board Academic Approval Number 1609055431)

SPAN 2371 Spanish for Business I (3)
(Last year’s course prefix/number SPA 211)
Prerequisite: Spanish 2311 or the equivalent. This course exposes students to the Spanish language used in business including the terminology and idioms of Spanish business language in special oral and written communication. Emphasis is placed on the structure and content of Spanish business correspondence. Authentic materials are used to give students a contemporary view of business as it is conducted in Hispanic society. This course is not a substitute for Spanish 2311 or 2312. (3 Lec.)
(Coordinating Board Academic Approval Number is to be assigned. This is a unique need course.)

SPAN 2372 Spanish for Business II (3)
(Last year’s course prefix/number SPA 212)
Prerequisite: Spanish 2371 or the equivalent. This course is devoted to the continued development of business language skills with a focus on the accurate use of business vocabulary and business style. Emphasis is on preparing students to function in Spanish in a business setting via practice of receptive and productive linguistic skills. The course also provides training in cross-cultural communication skills and is designed to help students achieve levels of proficiency to meet foreign language needs for business and international trade. This course is not a substitute for Spanish 2311 or 2312. (3 Lec.)
(Coordinating Board Academic Approval Number is to be assigned. This is a unique need course.)

SPEECH COMMUNICATION

SPCH 1144 Speech Communication Laboratory (1)
(This is a common course number. Last year’s course prefix/number SC 100)
This laboratory course focuses on students applying speech communication skills through service projects, internships, and leadership activities. This course may be repeated for credit. (3 Lab.)
(Coordinating Board Academic Approval Number 2310016035)

SPCH 1145 Speech Communication Workshop (1)
(This is a common course number. Last year’s course prefix/number SC 110)
This laboratory course offers students a wide variety of applied speech communication experiences. This course may be repeated four times for credit. (2 Lab.)
(Coordinating Board Academic Approval Number 2310016035)
SPCH 1311 Introduction To Speech Communication (3)
(This is a common course number, Last year’s course prefix/number SC 101)
Theory and practice of speech communication behavior in one-to-one, small group, and public communication situations are introduced. Students learn more about themselves, improve skills in communicating with others, and make formal oral presentations. This course requires college-level skills in reading and writing. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015135)

SPCH 1315 Fundamentals Of Public Speaking (3)
(This is a common course number. Last year’s course prefix/number SC 105)
Public speaking is introduced. Topics include the principles of reasoning, audience analysis, collection of materials, outlining, and delivery. Emphasis is on the oral presentation of well prepared speeches. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015335)

SPCH 1318 Interpersonal Communication (3)
(This is a common course number. Last year’s course prefix/number SC 203)
Theories and exercises in verbal and nonverbal communication with focus on interpersonal relationships. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015435)

SPCH 1321 Business And Professional Communication (3)
(This is a common course number. Last year’s course prefix/number SC 209)
Theories and skills of speech communication as applied to business and professional situations will be studied. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015235)

SPCH 1342 Voice And Articulation (3)
(This is a common course number. Last year’s course prefix/number SC 109)
Students may register for either Speech Communication 1342 or Drama 2336 but may receive credit for only one of the two. The mechanics of speech are studied. Emphasis is on improving voice and pronunciation. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015635)

SPCH 2144 Forensic Workshop (1)
(This is a common course number. Last year’s course prefix/number SC 201)
This course focuses on preparing speeches, readings, and debate propositions. Presentations are made in competition and before select audiences. This course may be repeated for credit. (2 Lab.)
(Coordinating Board Academic Approval Number 2310016035)

SPCH 2335 Discussion And Debate (3)
(This is a common course number. Last year’s course prefix/number SC 205)
Public discussion and argumentation are studied. Both theories and techniques are covered. Emphasis is on evaluation, analysis, and logical thinking. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015935)

SPCH 2341 Oral Interpretation (3)
(This is a common course number. Last year’s course prefix/number SC 206)
Techniques of analyzing various types of literature are examined. Practice is provided in preparing and presenting selections orally. Emphasis is on individual improvement. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015735)

SPCH 2370 Group Interpretation (3)
(Last year’s course prefix/number SC 208)
This course offers practical experience in sharing fiction and nonfiction selections with audiences. Various types of literature are studied for group presentation. Emphasis is on selecting, cutting, and arranging prose and poetry, and applying reader’s theatre techniques to group performance of literature. (3 Lec.)
(Coordinating Board Academic Approval Number 2310015735)

THEATRE
(See Drama and Dance)

VIDEO TECHNOLOGY
(See Radio, Film & Television)
CROSSWALK of NEW Courses

to OLD Course Prefixes & Numbers
for 1995-96 Catalog

Beginning with the 1995-96 academic year, all Dallas County Community College District courses have been renumbered. Courses designated as Texas Common Course Numbers have been underlined. For all courses, the numbering scheme is based on the following. The first digit indicates freshman [1] or sophomore [2] level; the second digit indicates credit hours; the third digit, if "7," "8," or "9," generally indicates courses that are not Texas Common Course Numbers. The fourth digit is a free number. (Selected Automotive Technology courses offered at Brookhaven College do not currently follow this numbering scheme.)

The following list is a comprehensive one which includes courses available at one or more colleges within the Dallas County Community College District. Not all courses are offered at all colleges. To determine which courses are available at specific colleges, please consult the college course schedules.

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ACCT 1372 ... ACC 132
ACCT 2301 ... ACC 201
ACCT 2302 ... ACC 202
ACCT 2370 ... ACC 250
ACCT 2372 ... ACC 239
ACCT 2375 ... ACC 205
ACCT 2376 ... ACC 238
ACCT 2377 ... ACC 204
ACCT 2378 ... ACC 203
ACCT 2379 ... ACC 207
ACCT 2401 ... ACC 208
ACCT 2402 ... ACC 209
ACCT 7371 ... ACC 703
ACCT 7372 ... ACC 713
ACCT 7471 ... ACC 704
ACCT 7472 ... ACC 714

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**PHOTOGRAPHY**

These courses care a DCCCD prefix. The Texas Common Course Number is listed in parentheses.

PHOT 1316 . . . PHO 110
(CCN # COMM 1316)

PHOT 1317 . . . PHO 111
(CCN # COMM 1317)

PHOT 1370 . . . PHO 115
(No CCN #)

PHOT 2234 . . . PHO 212
(CCN # COMM 2324)

PHOT 2235 . . . PHO 124
(CCN # COMM 2325)

PHOT 2236 . . . PHO 125
(CCN # COMM 2326)

PHOT 2356 . . . PHO 122
(CCN # ARTS 2356)

PHOT 2357 . . . PHO 123
(CCN # ARTS 2357)

PHOT 2370 . . . PHO 207
(No CCN #)

PHOT 2371 . . . PHO 213
(No CCN #)

PHOT 2375 . . . PHO 215
(No CCN #)

**PHYSICAL EDUCATION**

All PHED courses carry Texas Common Course Numbers; however, only those that are underlined exactly match Texas Common Course Numbers. The other course numbers are assigned Texas Common Course Numbers within a given range of numbers identified by the Texas Common Course Numbering Consortium.

PHED 1100 . . . PEH 100

**PHYSICAL FITNESS**

**TECHNOLOGY**

PFIT 1811 . . . PFT 181

PFIT 1911 . . . PFT 191

PFIT 1970 . . . PFT 101

PFIT 1730 . . . PFT 101

PFIT 1371 . . . PFT 130

PFIT 2370 . . . PFT 120

PFIT 1471 . . . PFT 10

PFIT 2170 . . . PFT 251

PFIT 2171 . . . PFT 290
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