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This catalog contains policies, regulations and procedures which were in existence as the publication went to press. The college reserves the right to make changes at any time to reflect current board policies and administrative regulations and procedures.
1973-74 Academic Calendar

Summer Session (1973)

June 4-5  Registration
June 6   Classes begin
June 7   Last day to apply for tuition refund
July 4   Holiday
July 11  Final examinations

Fall Semester

August 27  Faculty reports
August 28-30  Registration
September 3  Labor Day holiday
September 4  Classes begin 8 a.m.
September 10  Last day to apply for tuition refund
November 21  Thanksgiving holiday begins 10 p.m.
November 26  Classes resume 8 a.m.
December 7  Last day to withdraw with a grade of "W" 4 p.m.
December 14  Last day of classes
December 17-21  Final examinations
December 21  Semester closes 5 p.m.

Spring Semester

January 2  Faculty reports
January 7-9  Registration
January 14  Classes begin 8 a.m.
January 18  Last day to apply for tuition refund
April 12  Spring break begins 5 p.m.
April 22  Classes resume 8 a.m.
May 3  Last day to withdraw with a grade of "W" 4 p.m.
May 10  Last day of classes
May 13-17  Final examinations
May 17  Semester closes 5 p.m.

The academic calendar may be subject to change or modification.

Two summer sessions are tentatively scheduled at Richland College during 1973-74. Information regarding the summer sessions will be available from the Admissions Office in the spring of 1974.
### CALENDAR

#### 1973

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Administrative Staff

Richland College

President H. Deon Holt
Dean of Instruction Don McInnis
Dean of Student Services Ed Biggerstaff
Associate Dean of Instruction, Technical and Occupational Programs Bill. B. Passmore
Associate Dean of Instruction, Evening Administration Bill H. Thrash
Associate Dean of Business Services Holland B. Evans
Assistant Dean of Learning Resources Dick Smith
Administrative Assistant Rodger A. Pool
Director of Admissions and Registrar Fred Newbury
Director of Community Services Steve Mittelstet
Director of Counseling Eleanor D. Ott
Director of Financial Aids and Placement Frank Gornick

Instructional Division Chairmen

Business Jay L. Todes
Communications John W. Chandler
Developmental Studies Glenna Scheer
Humanities Jack Stone
Physical Education Tom McLaughlin
Science/Technology Floyd T. King, Jr.
Social Science Robert B. Boyle
Dallas County Community College District

Chancellor _________________________________ Bill J. Priest
Vice-Chancellor of Academic Affairs _______________ R. Jan LeCroy
Vice-Chancellor of Business Affairs _______________ Walter L. Pike
Director of Planning and Research ________________ Gary A. James
Director of Computer Services _____________________ James R. Hill
Director of Special Services _______________________ Robert J. Leo
Director of Program Development ________________ Dexter L. Betts
District Coordinator of Technical
   Occupational Education ________________________ Claude C. Owens
District Director of Public
   Information _________________________________ Sibyl Hamilton
Public Information Assistant _____________________ Ben F. Stevens
Research Specialist ______________________________ Douglas Hamilton
Technical Assistant for Facility
   Planning _________________________________ Stanley E. Pritchard
Construction Coordinator and
   District Coordinator of
   Maintenance and Operations _______________ George L. Robinson

Board of Trustees — DCCC District

Left to right, Standing: Durwood A. Sutton, Loncy L. Leake, Mildren M. Montgomery, Carie E. Welch, Jim Scoggins; Seated: Mrs. Eugene McDermott, Vice Chairman; R. L. Thornton, Jr., Chairman; Dr. Bill J. Priest, Chancellor and Secretary to the Board.
Dallas County Community College District — History and Purpose

The Dallas County Community College District's four innovative educational communities are dedicated to a common goal: serving in the best possible way the complex, varied and ever-changing educational requirements of a growing metropolitan community.

Each of the district's colleges — Eastfield, El Centro, Mountain View and Richland — are therefore committed to providing every person in Dallas County a quality educational experience, whether the person is a youth setting forth toward a degree in medicine, or an adult wanting to enrich his leisure hours with an interesting hobby.

There is a place for a student who wishes to spend a year or two preparing himself to enter a trade or profession, and a place for an employed person who wants to further his training in his occupational field.

There is a place for the eager high school student who is ready to undertake college-level training in advance of his graduation from secondary school, and a place for the mature high school dropout who has changed his mind about the necessity of education in today's complex, demanding society.

There is, simply stated, a place for everyone.

This approach to education brings together into a single college setting a multitude of personalities with divergent interests, ambitions and backgrounds, creating an educational community not unlike the "real" community in which people live, work and play and further enhancing the district's desire for total education. Of primary importance to the district's goal is making certain that a student's educational program is tailored to his needs, abilities and ambitions. The philosophy of the district is to create an educational program for an individual, rather than to try to squeeze or stretch an individual to fit an "educational mold."

Therefore competent, intensive initial and continuing counseling and guidance is offered every student to discover his goals and special abilities and to update his educational program if those goals change during his college experience. This emphasis on counseling, rare for some institutions, is routine procedure at all district colleges.

The traditional "junior college" label, therefore, doesn't fit. True enough the district's colleges are two-year colleges which provide the freshman and sophomore years of a conventional four-year baccalaureate program. However, their function, philosophy and breadth make the label inadequate. Therefore, the name, Dallas County Community College District, has been adopted by the Board of Trustees to more accurately reflect the mission of its colleges, that of meeting the varied educational needs of the entire metropolitan family.

How do the district's colleges serve the educational requirements of such a complex family? The answer can be found in educational offerings in four broad categories:

— For the student seeking the first two years of work toward the goal of a bachelor's or higher degree, the colleges offer a long list of courses which are transferable to senior colleges and universities.

— For the student wishing to enter an occupation at a level above the bottom rung of the ladder, the colleges offer one-year and two-year programs of credit courses covering specific technical-occupational fields.

— For the employed person wishing to improve his knowledge of his field — or train for a move into a new occupational field — the colleges offer a broad range of credit and non-credit adult education courses.

— For the person who simply wants to make life a little more interesting there are Community Service programs offering a myriad of courses in cultural, civic and avocational subjects.

Dallas County voters created the district in May 1965 and approved a $41.5
million bond issue to acquire sites and construct campus facilities.

The following year the district's first college, EI Centro, opened its doors for the fall semester in the heart of downtown Dallas. In August 1970, Eastfield College and Mountain View College enrolled their first student and the multi-campus district envisioned by the district planners became a reality. Richland College became the district's fourth college with the start of the 1972-73 school year.

In addition to these four colleges, sites have been purchased for three future colleges, Brookhaven College, Cedar Valley College and North Lake College.

In September, 1972, voters of the district approved an $85 million bond issue which will finance a ten-year expansion program continuing through the early 1980's. This program is expected to include construction of the three future colleges and expansion of all or part of the presently operating colleges.

These remarkable facilities and excellent faculties are expected to combine with the district's unique but effective philosophy and the strong support of the people and institutions of Dallas County to create a network of outstanding educational communities within the bustling metropolitan county.

Richland College

A fresh, new educational experience awaits prospective students of Richland College, a sparkling campus which opened in the fall of 1972.

Here a vital and dedicated faculty interacts with nature's primitive architecture and contemporary campus design to create an exciting learning environment for students of all ages.

The campus plan enhances the natural beauty of the site, which includes a meandering, spring-fed creek interrupted by dams to form two picturesque lakes. Campus facilities extend along both sides of the lakes, linked by open and closed pedestrian bridges. Extensive landscaping augments the many natural trees which exist on the site.

Richland College is located on a 259-acre site at 12800 Abrams Road, with convenient access routes from Richardson, Garland and other areas of north and northeast Dallas County.

The land occupied by the college was previously used for agricultural purposes, with a history of ownership dating back to the early settlement days of Dallas County in the early to mid-1800's.

Official action acquiring the site was taken by the Board of Trustees on August 30, 1966. The name, Richland College, was approved by the Board the following month, on September 20, 1966, to suggest a link between the two major adjacent communities of Richardson and Garland.

Planning for the college began in the spring of 1967, with the selection of architects on March 21, 1967. The long-range master plan and the design for the first phase of construction were prepared by The Oglesby Group Architects of Dallas with The Perkins and Will Partnership of Chicago as associated architects. The Oglesby firm previously served as architects for EI Centro College, which has received several design awards and other recognitions as an attractive and functional high-rise urban college.

Construction on Richland College began in the fall of 1969 with the awarding of an advanced site work and paving contract. Work on the general contract for building construction began in July, 1970.
The campus plan makes extensive use of pre-cast concrete both as a structural and a design feature. Exterior walls are typically of masonry, with frequent use of glass to provide vistas of the exterior areas.

Structures on the east side include the Learning Resources Center, Physical Education and Fine Arts complexes. The west side units include the Campus Center, Science/Occupations and Administration buildings. The bridge-like structure which links the two sides, provides open and closed pedestrian circulation across the lakes, and houses recreation, college store and student activity spaces.

Richland College has the district's only planetarium, a 100-seat facility with a 40-ft. dome. The planetarium has provision for lowering the projection instrument into a floor pit, permitting the space to double as a lecture classroom. The Planetarium Theatre produces several "plays for planetarium" each year for the public, civic, religious, and community groups.

Another "Richland only" feature is the horticulture unit located near the main entrance to the campus, housing occupational programs in landscape and nursery areas.

Accreditation

The Dallas County Community College District is a member of the American Association of Community and Junior Colleges and is recognized and sanctioned by the Coordinating Board of the Texas College and University System.

Transfer credits of Richland College will be accepted by senior colleges and universities in Texas. The college is making satisfactory progress toward full accreditation by the Southern Association of Colleges and Schools at the time it graduates its first class.

Housing

Richland is designed as a "commuter college," and does not operate residence halls nor maintain listings of available housing for students. Students who do not reside in the area must make their own arrangements for housing.
General Admissions Policy

Applications will be accepted anytime prior to registration. Since registration priorities are assigned according to the date an application is received, applicants should plan to submit an application at least three weeks before registration. Applications received after this date will receive a low priority and the applicants may be limited in their selection of available classes at registration.

Standards of Conduct

All students at Richland College are considered adults and are responsible for their own behavior. All students are expected to conform to all local, state and federal laws and all duly constituted college standards of conduct. These standards appear in the student handbook, Lake Waves, which may be obtained from the Office of Student Development.

Admission Requirements

1. Beginning Freshmen

Students enrolling in college for the first time will be considered for admission if they are:

a. A graduate from an accredited high school.

b. A graduate from an unaccredited high school who is eighteen years of age.

c. A non-high school graduate who is eighteen years of age whose high school class has graduated.

d. A high school student recommended by the high school principal. In this case, a limited number of high school seniors may be concurrently enrolled for special study, but not for more than six hours per semester.

e. Students entering with composite ACT scores of 11 or below will be encouraged to enroll in the Developmental Studies Program. Individual decisions will, however, be made in conference with a counselor.

2. Transfer Students

a. College transfer applicants will be considered for admission based on their previous college record. Academic standings for transfer applicants will be determined by the Office of Admissions based on standards established by Richland College.

b. Students on scholastic or disciplinary suspension from another institution must apply to the Committee on Admissions and Retention at Richland College.

3. Former Students

Former students of El Centro, Eastfield, or Mountain View College must submit an application for re-admission to Richland College. Former Richland students who have not attended school for the preceding long semester should also file an application for re-admission.

A student will not be readmitted to any college within the District if he or she has unsettled financial debts at any of the District campuses.

4. Non-credit Students

Students seeking enrollment in non-credit courses should contact the Office of Community Service Programs.

Admission Procedures

Full-Time Applicants:

(12 semester hours or more)

Students planning to take 12 semester hours or more must submit to the Office of Admissions the following material:

1. Application for Admission

Each applicant is required to furnish his social security number in the space provided on the application form. This number is required for student identification and to insure the accuracy of student records.

2. Official Transcript From Last School Attended (High School or College)

3. Results of the American College Testing Program (ACT)

The results of the ACT are used for counseling and placement. College transfer applicants who have earned at least 6 units of college credit with an average grade of "C" or above are exempt from this requirement. District colleges may substitute other standard testing scores for placement purposes.

Information about the ACT testing program may be obtained from a high school counselor or the Office of the Director of Counseling. The ACT code number for Richland College is 4153.

4. Medical Forms

All students are required to provide written proof of the following:

a. Results of a tuberculin skin test or chest x-ray.
b. Polio immunization if applicant is under 19 years of age.

c. Diphtheria/Tetanus immunization within 10 years.

This form is included in the admissions packet and should be returned to the Admissions Office prior to registration.

In addition, full-time applicants are required to complete the Health History Form (also included in the admissions packet) and return it at registration.

Part-time Applicants

(Less than 12 semester units)

Students planning to take less than 12 semester hours must submit to the Office of Admissions the following material:

1. Application for Admission

   Each applicant is required to furnish his social security number in the space provided on the application form. This number is required for student identification and to insure the accuracy of student records.

2. Official Transcript From Last School Attended (High School or College)

3. Medical Forms

   All students are required to provide written proof of the following:
   a. Results of a tuberculin skin test or chest x-ray.
   b. Polio immunization if applicant is under 19 years of age.
   c. Diphtheria/Tetanus immunization within 10 years.

   This form is included in the admissions packet and should be returned to the Admissions Office prior to registration.

   In addition, part-time applicants are required to complete the Health History Form (also included in the admissions packet) and return it at registration.

Transfer Credit

Transfer credit will be given for all passing work completed at accredited colleges and universities. The Office of Admissions will be responsible for the evaluation of all transfer credits.

Students who are admitted with a grade point deficiency will not be graduated from Richland College until deficiency hours are cleared by means of earning additional grade points.

Credits earned in military service connected schools or through the U.S. Armed Forces Institute will be reviewed by the Office of Admissions and credit granted if applicable.

Foreign Students

Richland College is authorized under Federal Law to enroll non-immigrant alien students. However, under present conditions, no foreign students are admitted without the special permission of the President of the college.

Servicemen's Opportunity College

Richland College, along with the other colleges in the Dallas County Community College District and in cooperation with other community colleges in the United States, participates in the Servicemen's Opportunity College Program. This program enables an institution to plan with the serviceman an educational experience regardless of his mobility pattern.

For further information concerning this program contact the Registrar's Office, Richland College.

Student Diversity

Richland College encourages the attendance of mature students of all ages and from all ethnic backgrounds and fully complies with the provisions of Title VI of the Civil Rights Act of 1964 (P.L. 88-352).

Tuition

Tuition is charged on a sliding scale according to the number of credit hours in which a student is enrolled and his place of legal residence.

Tuition for credit courses will be charged according to the following schedule:

*In case of concurrent enrollment at more than one district college, tuition will be paid at college of residence which will be defined as the college in which student will take the majority of his credit hours.
**Tuition — Fall or Spring Term**

<table>
<thead>
<tr>
<th></th>
<th>Residents of Dallas County</th>
<th>Residents of Other Texas Counties</th>
<th>Non-Texas Residents*</th>
<th>Out-of-Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuition</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residents of Dallas County</strong></td>
<td>$6 per credit hour through 10 credit hours and $4 per credit hour in excess of 10 credit hours; Minimum $25</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residents of Other Texas Counties</strong></td>
<td>$20 per credit hour through 10 credit hours and $4 per credit hour in excess of 10 credit hours; Minimum $25.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Texas Residents</strong>*</td>
<td>$40 per credit hour</td>
<td></td>
<td></td>
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<tr>
<td><strong>Out-of-Country</strong></td>
<td>$40 per credit hour; Minimum $200.</td>
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</tr>
</tbody>
</table>

**Tuition — Summer Session**

<table>
<thead>
<tr>
<th></th>
<th>Residents of Dallas County</th>
<th>Residents of Other Texas Counties</th>
<th>Non-Texas Residents*</th>
<th>Out-of-Country</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuition</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residents of Dallas County</strong></td>
<td>$10 per credit hour, with a minimum of $25.</td>
<td>$64.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Residents of Other Texas Counties</strong></td>
<td>$30 per credit hour</td>
<td>$184.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Non-Texas Residents</strong>*</td>
<td>$45 per credit hour</td>
<td>$310.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Out-of-Country</strong></td>
<td>$45 per credit hour, with a minimum of $100.</td>
<td>$310.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Special Fees and Charges**

<table>
<thead>
<tr>
<th></th>
<th>12 or more credit hours</th>
<th>6 to 11 credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Service Fee</strong></td>
<td>$7 a semester</td>
<td>$4 a semester</td>
</tr>
<tr>
<td><strong>Laboratory Fee (per lab)</strong></td>
<td>$2 to $8 a semester</td>
<td></td>
</tr>
<tr>
<td><strong>Physical Education Activity Fee</strong></td>
<td>$5 a semester</td>
<td></td>
</tr>
<tr>
<td><strong>Bowling Class Fee</strong></td>
<td>$10 a semester</td>
<td></td>
</tr>
<tr>
<td><strong>Private Music Lessons Fee</strong></td>
<td>$35 for 1 hour per week (maximum) for one course) $20 for ½ hour per week</td>
<td></td>
</tr>
<tr>
<td><strong>Audit Fee</strong></td>
<td>The charge for auditing a course is at the same rate as taking a course for credit regardless of the number of hours enrolled, except that a student activity fee is not charged.</td>
<td></td>
</tr>
<tr>
<td><strong>Credit by Examination</strong></td>
<td>***Examination fee of $15 per examination.</td>
<td></td>
</tr>
</tbody>
</table>

*A non-resident student is hereby defined to be a student less than twenty-one (21) years of age, living away from his family and whose family resides in another state or whose family has not resided in Texas for the twelve (12) months immediately preceding the date of registration; or a student twenty-one (21) years of age or older who resides out of the state or who has not been a resident of the state twelve (12) months immediately preceding the date of registration.*

**Available only to music majors enrolled for 12 hours or more.**

**This fee can change without prior notice.**
Additional Fees

Additional fees may be assessed as new programs are developed with special laboratory costs. These fees will always be kept to a basic practical minimum for the program involved. A graduation fee is not assessed students receiving a degree; however, each student will pay for cap and gown rental.

Refund Policy

The refund policy for Richland College is based on the fact that student tuition and fees provide only a fraction of the cost of providing educational opportunities. When a student enrolls in a class, he reserves a place which cannot be made available to another student unless he officially drops the class during the first week of the semester. Also, a student's original enrollment represents a sizeable cost to the district whether or not he continues in that class. Therefore, a refund will be made only under the following conditions:

1. No 100% refund is granted unless college error is involved.
2. An 80% refund of tuition and fees may be obtained through the fifth day of classes of a long semester. The first two days of a six week summer session are considered to be equivalent to the five days of the long semester. (The Academic Calendar lists the last day to apply for a tuition refund in each term.)
3. Requests for a refund must be submitted before the end of a semester or summer session for which the refund is requested.
4. A refund of less than $4 for tuition and/or fees will not be made.

A student who feels that his refund request is due to an extenuating circumstance beyond the limits of the refund policy may submit a letter of explanation to the Refund Petitions Committee in the Office of the Dean of Student Services.

Refund checks normally require a minimum of one month to process.
Scholastic Standards: Grades and Grade Point Average

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

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Point 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>P</td>
<td>Progress</td>
<td>Not Computed</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>W</td>
<td>Withdrawn</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. A student's grade point average is computed by adding the total grade point values for all courses for which grade point values may be computed and dividing by the appropriate number of credit hours attempted during the same period.

Incomplete grades may be given when an unforeseen emergency prevents a student from completing the work in a course. Incomplete grades must be converted to grade point bearing grades within 90 days after the first day of classes in the subsequent regular semester. After 90 days, the “I” grade will be converted to a “W” grade if the student has failed to complete the course requirements.

Degree Requirements

Associate in Arts and Sciences Degree

A total of 60 hours exclusive of physical education activity courses must be presented with an average grade of at least “C” (2.0). Courses numbered 99 and below may not be counted toward the 60 hours minimum.

These 60 hours may be earned at any Dallas County Community College District college and must include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 101-102, plus an additional 6 hours</td>
<td></td>
</tr>
<tr>
<td>English</td>
<td>12</td>
</tr>
<tr>
<td>A minimum of 6 semester hours of a laboratory science. (Music majors are exempt from this requirement. Check listings under subject field.)</td>
<td>6</td>
</tr>
<tr>
<td>History 101-102 and Government 201-202 (No substitutions allowed.)</td>
<td>12</td>
</tr>
<tr>
<td>Humanities: To be selected from Theatre 101, Art 104, Music 104 or Humanities 101</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition to the course requirements, each degree candidate must earn the last 15 hours as a resident student in the district colleges or accrue 45 hours in residence. The degree will be granted by the college in which the student took the last 15 hours or where the majority of hours were accrued. No more than ¼ of the work required for any degree or certificate may be taken by correspondence. Correspondence work submitted for graduation credit must be approved by the Director of Admissions.

All students who expect to transfer to a four year institution are urged to complete their four semester requirement in physical education during their freshman and sophomore years.

The student is urged to consult the catalog of the institutions to which he
may transfer for their special require-
ments. These catalogs should be used by
the student and his advisor as a basis for
the program plan.

Associate in Applied Arts and Sciences
Degree

A minimum of 60 hours exclusive of
physical education activity courses and
those courses numbered 99 and below
must be presented with an average grade
of at least “C” (2.0). All of the prescribed
requirements for the specific technical
or occupational program for which the
student is enrolled must be completed
and for some programs, the semester
hour total is over 60.

Procedure for Filing Degree and
Certificate Plans

1. The student should request a de-
gree plan from the Office of Ad-
misions at the end of his fresh-
man year.
2. Transcripts of all previous college
work must be on file at the time
of request for degree plans.
3. A student following a 1-year certi-
ficate program should request an
official plan during his first semes-
ter.
4. Application for the granting of the
degree or certificate should be
filed in the Registrar's Office prior
to the deadline to be announced
by the Registrar.
5. A candidate for graduation in May
will be required to attend the com-
mencement program unless
granted prior permission by the
Dean of Students to graduate in
absentia.
6. January and August graduates may
attend the next commencement if
they desire, but are not required
to do so. Should the graduating
student wish to attend, the Regis-
trar's Office should be notified of
his intention.
7. Instructions concerning gradu-
ation will be mailed to all candidates
30 days prior to commencement.

Candidates for any degree or certi-
ficate will meet the requirements as set
forth in the catalog for his first year of
enrollment or he may elect to graduate
under the requirements of a later catalog.
The candidate must indicate the catalog
of his choice when he files his degree
plan.

Class Attendance

Students are expected to attend reg-
ularly all classes in which they are enroll-
ed. Class attendance is the responsi-
ability of the student. It is also the responsi-
ability of the student to consult with his instruc-
tors when he is absent from a class.

Instructors are required to report stu-
dents to the Dean of Students for exces-
sive absences. Generally, first excessive
absence reports are made when a student
is absent from class the number of hours
for which the class has credit. At this
point, students are warned that failure
to attend class may result in suspension
from that class. Second excessive
absence reports are filed with the Dean
of Students when, in the opinion of the
instructor, a student's continued
absences warrant his suspension from
class.

Students dropped for excessive
absences prior to the last two weeks of
the semester will receive a grade of “W”
in the class from which they are dropped.
Classroom Dishonesty

Dishonest work on tests, term papers, and examinations is a serious offense. Plagiarism (the act of using source material of other persons without following the accepted techniques of crediting) is never acceptable behavior in an academic community.

Change of Schedule

Request for change of schedule must be initiated through the student's counselor and will be determined on the basis of whether space is available in the class to which he wishes to change. The change action is not completed until it has been received and processed by the registrar's office with the instructor being notified of the change. Change action from the division chairman will be accepted by the Registrar through the first week of classes.

Dropping a Course or Withdrawal from College

A student must drop a class or withdraw from college in the following manner:

1. Obtain a drop or withdrawal from his counselor and follow the procedure outlined by the counselor.
2. Should circumstances prevent a student from appearing in person to withdraw from college, he may withdraw by mail by writing to the Director of Admissions. No drop or withdrawal requests are accepted by telephone.

A student who drops or withdraws from college will receive a "W" in each class from which he has withdrawn. The deadline for receiving a "W" is two weeks prior to the end of the semester. After that time, a student will receive a performance grade in the course.

If a student leaves without officially withdrawing, he will receive an "F" in all subjects.

Auditing a Course

Any person 18 years of age or older may, with the consent of the instructor, enroll in the status of audit. This student may attend classes but not take the examinations or receive credit for the course unless he enrolls in the course again as a regular student. The same fee is charged for auditing as for credit.

Procedures for auditing a course will be administered by the Registrar. No audits will be approved prior to the first day of the second week of classes in any semester. Most lab courses may not be audited. In the case of a student enrolled in collegiate level course, the combined number of semester hours in credit courses and audit shall not exceed 18.

Recommended Academic Load

No student will be permitted to carry more than 18 semester hours of course work or more than 5 classes plus physical education without permission of the administration. Employed students are advised to limit their academic loads in accordance with the following recommendations: If a student carries a full college load (12 semester hours or more), he should not work more than 20 hours per week. If he must work more hours, his credit hour load in college should be reduced proportionately.
The recommended load limit for day or evening students who are employed full-time is 6 semester hours of course work.

The recommended load limit in a 6-week summer session is 6 semester hours of credit. A total of 14 semester hours of credit is the maximum that may be earned in any 12-week summer period.

Classification of Students
1. Freshman: A student who has completed fewer than 30 semester hours.
2. Sophomore: A student who has completed 30 or more semester hours.
3. Part-Time: A student carrying fewer than 12 semester hours work.
4. Full-Time: A student carrying 12 or more semester hours of work.

Definition of Acceptable Scholastic Performance
College work is measured in terms of semester credit hours. The number of semester hours credit offered for each course is included with the course description.

Acceptable scholastic performance is the maintenance of a grade point average of 2.0 (on a four point scale) or better. A student may not be graduated from any degree or certificate program unless he has a cumulative grade point average of 2.0 or better. Grade points and hours earned in courses numbered 999 and below are computed when deriving a student's scholastic standing; however, they are not computed for graduation requirements.

Scholastic Probation and Scholastic Suspension
The policies on scholastic probation and scholastic suspension apply to full-time students (12 semester hours or more) and to part-time students when they have attempted a total of 12 semester hours.

The following criteria will be used to determine academic standing:
1. Students who have completed one or more semesters in a college will be placed on probation if they fail to maintain a 2.0 cumulative grade point average.
2. Students who have been placed on scholastic probation may be removed from probation when they earn a 2.0 cumulative grade point average.
3. Students on scholastic probation who achieve either a cumulative grade point average of 1.5 or above or a previous semester grade point average of 2.0 or above may continue on scholastic probation.
4. Students on probation who do not meet the requirements of paragraph 3 will be placed on scholastic suspension.

The periods of scholastic suspension are: 1) suspension for the first time — one regular semester and 2) subsequent suspension — two regular semesters.

Transcripts of Credit from Richland College
The Registrar's Office will send the student's transcript upon request to any college or agency named. However, a student's official transcript may be withheld until he has settled all financial obligations to the college.

Waiving of Scholastic Suspension
Any student pursuing an academic transfer program who wishes to transfer to a technical-occupational program may
have his earned credits evaluated for the possibility of disregarding any grades below a "C" as long as the student follows the technical-occupational program. The logic of this procedure is that many students do poorly while pursuing a course of studies for which they are not suited but make rapid improvements when faced with tasks more suited to their interests and aptitudes. This procedure is contingent upon the student remaining in a technical-occupational program. A change to an academic transfer program places the student under the original conditions of the academic transfer program including the calculation of a cumulative grade point average of all college credits earned. This procedure will apply both to Richland College students and to students transferring from other institutions. The student who wishes to avail himself of this opportunity should state his intentions in writing to the Director of Admissions prior to preregistration and should assume the responsibility of informing his counselor during the pre-registration advisement session.

Library Obligations

Willful damage to library materials (or property) or actions disturbing to the other users of the Library may lead to revocation of library privileges. Cases involving such damage will be referred for further action by the appropriate authorities.

All books and other library materials must be returned before the end of each semester. No transcripts of grades may be issued until the library record is cleared.

Honors

A full-time student who has completed at least 12 hours of credit and who earns a grade point average of 3.00-3.49 will be listed on the college Honor Roll. Full-time students who complete at least 12 hours of credit and who average 3.50-4.00 will be placed on the Dean's Honor List. The Honor Roll and Dean's Honor List will be published each semester.

Credit by Examination

A person who believes he is qualified by experience or previous training may take a special examination to establish credit in a particular course. Depending upon the course, the examination may be a section of the College Level Examination Program or a teacher-made test. Students will be allowed to earn as many credits through the credit by examination procedure as their needs require and ability permits. The last fifteen semester hours required for graduation in any degree or certificate program must be earned in residence and may not be earned through credit by examination.

Credit by examination may be attempted only one time in any given course and a grade of "C" or better on the examination is required in order to receive credit. Only currently enrolled students will have the semester hours earned through examination become part of their permanent record.

Request for examinations should be made to a counselor who will provide the necessary petition forms and advise the student of the procedure. A student, whether part-time or full-time, will pay an examination fee of $15.00 per examination. There is no refund of this fee. Though great effort has been made to interrelate the credit by examination program with transferring four-year institutions, final acceptance of credit by examination achieved for specific degree purposes is determined by that institution.

For further information concerning graduation requirements, consult the Degree Requirements section in this catalog.
Counseling and Guidance

Students and prospective students who have provided all necessary admissions information to the college will find a staff of professional counselors available to help them resolve questions of career choice, college transfer requirements, study skills, self-understanding and other kinds of personal problems. Group and individual techniques are employed by the counselors to meet students' needs. A partial review of services available through the counseling center is listed for students' information:

1. Counseling
2. Career information
3. Psychological tests of personality, vocational interests and aptitudes
4. Information and catalogs regarding a wide selection of colleges and universities
5. Educational planning of courses to meet specific degree requirements
6. Registration information
7. Information about the general services offered in other divisions of the college
8. Group sessions
9. Referral for students requiring therapy for psychological problems

Those who desire services of a counselor should contact the Counseling Center for an appointment.

Advisement

For students who have been admitted to the college, educational planning and advisement is provided. A staff of full-time counselors is available to the students of Richland College. Faculty members also serve as program advisors to aid students in defining their educational and vocational goals.

Financial Aid, Placement, and Veterans' Affairs

Financial Aid. The Office of Financial Aid exists to assist students who without financial assistance would not be able to complete their education at Richland. The Financial Aid Office is located in the Campus Center, Rm. G140. Phone 746-4488.

Students seeking financial aid should complete and submit the following forms by July 1 preceding the academic year for which aid is requested.

1. A student financial aid application, obtained from the Office of Financial Aid, Campus Center, Rm. G140.
2. An Internal Revenue Service Form #1040 to be completed by parents (if dependent) for the previous year's income.
   a. You may consider yourself a dependent student if:
      1. your parents have claimed you on their 1040 Form as a dependent;
      2. you are presently living at home and have for the past 12 months;
      3. you have received $600 or more during the past year from your parents.
   b. You may consider yourself independent if you can answer NO to all the above questions. If that is the case, you will need to complete the 1040 Form for your income during the previous year.

   Upon receipt of the above information and after it is determined that the student requires financial assistance, the
Director will use his professional judgment in determining the resources available to assist the applicant. The following financial aid resources are available to students to assist in developing a financial aid "package", that is, the combination which will best meet the student's financial need.

**College Work-Study.** A student must demonstrate financial need and be enrolled for 12 or more semester hours to be eligible. He will be referred to a Division Chairman, or to an off-campus supervisor, for an interview to determine his ability to perform the task.

**Educational Opportunity Grants.** A student must demonstrate financial need and be enrolled for 12 or more semester hours to be eligible.

**Institutional Scholarship.** A student must demonstrate financial need.

**Wayne Yancey Memorial Scholarship.** This is a scholarship in memory of Wayne Yancey, a freshman at Richland College. Wayne had a keen interest in education, particularly in engineering, architecture and the construction management curriculum. It is the intent of this scholarship to assist students who demonstrate financial need and share the same educational interests as Wayne Yancey.

**Reese Humanities Scholarship.** A student must demonstrate financial need and be enrolled in any one of the three areas in the humanities curriculum. Applicants must demonstrate potential in music, drama, or art, and have the intention of pursuing a fine arts degree upon graduating from Richland. Recipients will be chosen by a scholarship committee to carry out the intent of the donor.

**Hinson-Hazlewood College Student Loan.** A student must demonstrate financial need. The maximum loan is $1,500 per academic year.

**Short Term Loans.** This loan is for emergency tuition, fees and book purchases. Each student is required to apply at least one week prior to the time he needs these funds in order to allow time for processing.

**Mary Ellen Mittelstet Memorial Loan Fund.** This is short-term loan available to students who demonstrate a financial need. This loan has been established by friends and acquaintances of the family in memory of Mary Ellen Mittelstet.

**Regular Campus Employment.** A student will be allowed to work a maximum of 15 hours per week at an on-campus position.

**Placement.** From the Placement Office, also located in the Campus Center, Rm. G140, students can obtain needed employment information on off-campus employment and can discuss career plans and job opportunities. To aid students in finding a suitable job or in exploring a variety of occupations, the Placement Office provides full-time, part-time and summer job listings; spring recruiting sessions; career guidance materials; and various seminars dealing with occupational possibilities.

Students enrolled in the career programs at Richland are encouraged to register a semester before graduation at the Placement Office for assistance in résumé writing, employment interviewing and job placement.

Students who combine college study with outside employment must plan a realistic proportion of work and study in order to remain in good academic standing. Phone 746-4488.
Veterans' Affairs. Complete approval of Richland College courses by the Veterans Administration makes possible the training of veterans under the public laws which give them educational benefits. A veterans' counselor at the college assists in any matter pertaining to the relationship of students with the United States Veterans Administration and Richland. The Veterans Information and Assistance Office is located in the Campus Center, Rm. G140. Phone 746-4488.

Student Development

A full program of co-curricular activities is available under the direction of the Office of Student Development. This office assists in the total program of student activities at Richland to provide experience out of class which will add to the student's growth and development both personally and intellectually. The student development program at Richland College offers a variety of experiences, including social activities, student government, special interest clubs and organizations, discussion sessions and sports.

Health Center

Health is the most fundamental of human needs and a high standard of physical and mental health is a fundamental right of every human being. Therefore, the Health Center of Richland College is available to help maintain and promote the health of students, faculty and staff.

Some of the services provided by the Health Center are:

1. Health education and counseling about physical and emotional health,
2. Emergency first aid treatment,
3. Referral service to community agencies and physicians,
4. Medical consultation on campus,
5. Various screening programs,
6. Providing programs of interest in the area of health to students and faculty.

The Health Center is open from 8 a.m. until 10 p.m. daily, Monday through Thursday, and from 8 a.m. until 5 p.m. on Friday. All students are encouraged to complete the Health History Form as fully as possible so that the Health Center can best serve their needs.

Campus Security

The Office of Campus Security is required by state law to "protect and police buildings and grounds of state institutions of higher learning." Since all of the general and criminal laws of the state are in full force and effect within the campus community, specially trained and educated personnel are commissioned to protect not only the physical property of the campus community but also to protect the person and the property of campus citizens. The security officers are responsible for enforcing rules, regulations, and Board policies of the college, including a Code of Conduct for students. The department seeks to operate a student-oriented program which encourages face-to-face contact between students and security officers to facilitate the open exchange of ideas and to develop a tolerance for individual points of view.
Lower Division Transfer Studies

Students whose educational objective is the Bachelor's Degree may complete their first two years at Richland College before transferring to a four-year institution.

The academic transfer curriculum is coordinated with senior colleges and universities to facilitate the transfer of credits to these schools.

Technical-Occupational Programs

Richland College offers a variety of technical-occupational programs designed to enable a student to enter his chosen career field as a skilled employee after one or two years of college work. These programs are established only after studies verify that employment opportunities will exist at the time the student completes his training, matching the community's manpower requirements with the ambitions and goals of the student.

This realistic approach to occupational education is made possible by the excellent cooperation of local industry, business and public agencies who more and more are looking to the district's colleges for skilled personnel.

Continuous liaison is maintained with prospective employers to assist in placement of graduates and to keep the training programs up-to-date with the current job requirements.

Recommendations for adding new programs to the college offerings will be made periodically based on community studies which identify additional training needs that can be met by Richland College.

Technical-occupational courses carry college credit leading to a certificate of completion (1-year programs) or an Associate in Applied Arts and Sciences Degree (2-year programs).

Evening Programs

Richland College offers an evening program for the benefit of persons who are unable or do not desire to attend course-work during daytime hours. Most lower division transfer courses and certain technical-occupational courses are available during evening hours.

Instructors for the evening courses are selected from Richland's full-time staff and from among outstanding Dallas area educators and other professionals.

The evening program offers the same high quality instruction and excellent facilities found in the day schedule. Evening students have available the services of the Learning Resources Center, Counseling Center, Health Center and College Store, as well as recreation and dining facilities.

Community Service Programs

Short-term, non-credit Community Service courses are Richland’s answer to the community's challenge to provide educational opportunity for everyone.

These courses reflect the interests and needs of the community and cover a wide variety of subjects, ranging from occupational training to personal entertainment and cultural enrichment.

Instructors are leading professional men and women, college faculty members and experts in the course subject. There are no entrance requirements and class schedules are set for the convenience of the students during both daytime and evening hours.

Special courses can be designed to meet the needs of individuals, groups and organizations. Community Services staff members are eager to cooperate with firms which wish to arrange for courses, workshops or seminars in conjunction with their own training programs.
Divisions of the College

Business Division
- Business
  - Accounting
  - General Business
- Mid-Management
- Secretarial Careers
  - Administrative
  - Educational
  - Executive
  - General
  - Office Skills and Systems
- Computer Science
- Economics

Communications Division
- Communications
- English
- French
- German
- Journalism
- Spanish
- Speech

Developmental Studies Division
- Developmental Mathematics
- Developmental Reading
- Developmental Writing
- Human Development
- Human Services
  - Mental Health Assistant
  - Social Worker Assistant
- Reading
- Teacher Aide

Humanities Division
- Art
- Humanities
- Music
- Philosophy
- Theater

Physical Education Division
- Physical Education Theory
- Physical Education Activity

Science-Technology Division
- Astronomy
- Biology
- Chemistry
- Construction Management and Technology
- Drafting
- Electro-Mechanical Technology
- Engineering
- Fluid Power Technology
- Geology
- Mathematics
- Ornamental Horticulture Technology
- Physical Science
- Physics
- Quality Control Technology

Social Science Division
- Anthropology
- Geography
- Government
- History
- Psychology
- Religion
- Social Science
- Sociology
Course Descriptions

In the following listing of courses, the credit value in semester units is indicated in parenthesis following the course number.

Courses numbered 100 or above are applicable to the Associate Degrees. Courses numbered below 100 are developmental in nature. The student is urged to consult his counselor or specific college catalogs for information regarding transferability of courses.

Course prerequisites may only be waived by the appropriate Division Chairman.

All courses listed in this catalog may not be offered during the 1973-74 year.

The designation (F, Sp, and Su) preceding each description indicates anticipated scheduling of the course for fall, spring, or summer term.

Accounting
(See Business 201, 202)

Anthropology 100 (3)
Introduction to Anthropology
3 hrs. Lec. (F, Sp, Su)
A survey of the origin of mankind involving the processes of physical and cultural evolution; ancient man; preliterate man today. Attention is centered on fossil evidence, physiology and family/group roles and status.

Anthropology 101 (3)
Cultural Anthropology
3 hrs. Lec. (Sp)
Prerequisite: Consent of instructor recommended. A survey of the cultures of the world with emphasis on those of North America. The concept of culture; social and political organization; language; religion and magic; elementary anthropological theory.

Anthropology 110 (3)
The Heritage of Mexico
3 hrs. Lec. (F, Sp)
This course presents major historical developments and personalities which have shaped the Mexican nation, with emphasis on cultures and customs. Beginning with the peoples who inhabited the country before the Spanish conquest, the course leads to modern Mexico, emphasizing the historical relations between Mexico and the United States and the role of the Mexican-American in the contemporary United States. The student may register for either Anthropology 110 or History 110.

Art 104 (3)
Art Appreciation
3 hrs. Lec. (F, Sp, Su)
Films, lectures, slides, and discussions on the theoretical, cultural, and historical aspects of the visual arts. Attempts to develop visual and aesthetic awareness, thus relating art to the student as an individual.

Art 105 (3)
Survey of Art History
3 hrs. Lec. (F)
This course covers the chronological sequence of art from the pre-historic through the Renaissance. Explores the cultural, geophysical, and personal influences on art styles, offering the student a broader range of ideas which will enable him to relate the past to his own work and provide stimuli for his future works.
Art 100 (3)
Survey of Art History
3 hrs. Lec. (Sp)
This course covers the chronological sequence of art from the Baroque through the present. Explores the cultural, geophysical, and personal influences on art styles, offering the student a broader range of ideas which will enable him to relate the past to his own work and provide stimuli for his future works.

Art 110 (3)
Basic Design I
2 hrs. Lec.
4 hrs. Lab. (F, Sp)
A study of basic concepts of design, using two-dimensional materials. Use of line, color, illusion of area or mass and texture, and shape in composition. Required of all art majors. Open to all interested students.

Art 111 (3)
Basic Design II
2 hrs. Lec.
4 hrs. Lab. (F, Sp)
A study of basic concepts of design with three-dimensional materials, using mass, space, movement and texture. Required of all art majors. Open to all interested students. Laboratory fee required.

Art 114 (3)
Basic Drawing I
2 hrs. Lec.
4 hrs. Lab. (F, Sp)
A study of drawing, both as a major medium and as a flexible research tool with emphasis on structure and the illusions of space, volume, and movement. Required of all art majors. Open to others who are interested.

Art 115 (3)
Basic Drawing II
2 hrs. Lec.
4 hrs. Lab. (F, Sp)
Prerequisite: Art 114. A continuation of Art 114.

Art 201 (3)
Life Drawing I
2 hrs. Lec.
4 hrs. Lab. (F)
Prerequisite: Art 110, Art 114, sophomore standing and/or permission of the humanities chairman. Analytic and expressive drawing of the human figure, stressing study of movement and volume. Laboratory fee required.

Art 202 (3)
Life Drawing II
2 hrs. Lec.
4 hrs. Lab. (Sp)
Prerequisite: Art 110, Art 114, Art 201, sophomore standing and/or permission of the humanities chairman. Analytic and expressive drawing of the human figure, stressing study of movement and volume. Laboratory fee required.

Art 205 (3)
Painting I
2 hrs. Lec.
4 hrs. Lab. (F)
Prerequisite: Art 110, Art 114, or permission of the instructor. A studio course stressing fundamental concepts of painting with acrylics and/or oils. Emphasis on painting from still life, models and the imagination.

Art 206 (3)
Painting II
2 hrs. Lec.
4 hrs. Lab. (Sp)
Prerequisite: Art 110, Art 114, Art 205, or permission of the instructor. A studio course stressing fundamental concepts of painting with acrylics and/or oils. Emphasis on painting from still life, models and the imagination.
Art 208  (3)
Sculpture I
2 hrs. Lec.
4 hrs. Lab.  (F)
Prerequisite: Art 110, Art 111, Art 114, or permission of the instructor. A studio course designed as a means of original expression in three dimensional media. Laboratory fee required.

Art 209  (3)
Sculpture II
2 hrs. Lec.
4 hrs. Lab.  (Sp)
Prerequisite: Art 110, Art 111, Art 114, Art 208, or permission of the instructor. A studio course designed as a means of original expression in three dimensional media. Laboratory fee required.

Art 210  (3)
Commercial Art I
2 hrs. Lec.
4 hrs. Lab.  (F)
An introduction to the working world of commercial art with emphasis on the acquisition of professional attitudes and basic studio skills through the working out of typical commercial assignments.

Art 211  (3)
Commercial Art II
2 hrs. Lec.
4 hrs. Lab.  (Sp)
A continuation of Art 210 with added emphasis on layout and design concepts through increased individual assignments, work with simple art for reproduction techniques, and the development of a professional portfolio. Laboratory fee required.

Art 215  (3)
Ceramics I
2 hrs. Lec.
4 hrs. Lab.  (F)
Building of pottery forms by coil, slab and use of wheel; glazing and firing. Laboratory fee required.

Art 216  (3)
Ceramics II
2 hrs. Lec.
4 hrs. Lab.  (Sp)
Prerequisite: Art 111, Art 215, or permission of instructor. A study of glaze technology and advanced problems in the creation of sculptural and utilitarian ceramic ware. Laboratory fee required.

Art 228  (3)
Three Dimensional Design
2 hrs. Lec.
4 hrs. Lab.  (Sp)
Prerequisite: Art majors – Art 110, Art 111, and Art 114. Development of three-dimensional projects in metal, plastic, and wood through the stages of design: idea, sketches, research, working drawing, model and finished product. Emphasis is on function, material and aesthetic form.

Astronomy 101  (3)
Descriptive Astronomy
3 hrs. Lec.  (F, Su)
A descriptive course consisting of a survey of the fundamentals of astronomy. Emphasis on the solar system, including a study of the celestial sphere, the earth's motions, the moon, planets, asteroids, comets, meteors, and meteorites.

Astronomy 102  (3)
General Astronomy
3 hrs. Lec.  (Sp)
A course emphasizing stellar astronomy which includes a study of the sun, the properties of stars, star clusters, nebulae, interstellar gas and dust, the Milky Way galaxy, and external galaxies.

Biology 101  (4)
General Biology
3 hrs. Lec.
3 hrs. Lab.  (F, Sp, Su)
Prerequisite to all high level biology courses and must be taken in sequence. Recommended for science majors. The first semester of the two semester sequence surveying in depth the principle concepts of biology, including a study of the cell, levels of organization, an introduction to metabolism, and
evolutionary relationships. An introductory survey of the plant and animal kingdoms is included which emphasizes the classification and basic structure and function of the more important groups. Laboratory fee required.

Biology 102 (4)
General Biology
3 hrs. Lec.
3 hrs. Lab. (Sp, Su)
Prerequisite: Biology 101. A continuation of Biology 101. Laboratory fee required.

Biology 115 (4)
Biological Science
3 hrs. Lec.
3 hrs. Lab. (F, Su)
A presentation of selected topics in biological science for the non-science major including the cell concept, basic chemistry as it relates to biology, an introduction to genetics, cellular processes such as mitosis, meiosis, respiration, photosynthesis, and plant and animal reproduction. Laboratory fee required.

Biology 116 (4)
Biological Science
3 hrs. Lec.
3 hrs. Lab. (Sp, Su)
No prerequisite: A study of selected topics of biological science for the non-science major including all systems of the human body, disease, drug abuse and aging, evolution, ecology and man in relation to his environment. Laboratory fee required.

Biology 203 (4)
Intermediate Botany
3 hrs. Lec.
3 hrs. Lab. (F)
Prerequisite: Biology 101 and 102. A survey of the major plant groups with emphasis placed on morphology, physiology, classification, life cycles, and evolutionary relationships to each other and their economic importance to man. Recommended for science majors. Laboratory fee required.

Biology 211 (4)
Invertebrate Zoology
3 hrs. Lec.
3 hrs. Lab. (F)
Prerequisite: Eight hours of biological science. An intermediate level course surveying the major groups of animals below the level of chordates. Consideration is given to the phylogeny, taxonomy, morphology, physiology, and biology of the groups involved. Relationships and importance to higher animals and man are stressed. Recommended for science majors. Laboratory fee required.

NOTE: Offered every other fall. Alternates with Biology 203.

Biology 216 (4)
General Microbiology
3 hrs. Lec.
4 hrs. Lab. (Sp)
Prerequisite: Biology 101-102. A study of microbes with emphasis on classification, growth, nutrition, metabolism, reproduction, and the genetics of microorganisms. Recommended for science majors and science-related programs. Laboratory fee required.

Biology 221 (4)
Anatomy and Physiology
3 hrs. Lec.
3 hrs. Lab. (F)
Prerequisite: Biology 102. Structure and function as related to the human skeletal, muscular, nervous, cardiovascular, digestive, respiratory, reproductive and endocrine systems. Emphasis placed on the inter-relationships between these systems as well as basic principles of disease transmission and detection. Laboratory fee required.

Biology 222 (4)
Anatomy and Physiology
3 hrs. Lec.
3 hrs. Lab. (Sp)
Prerequisite: Biology 221. A continuation of Biology 221. Laboratory fee required.

NOTE: Offered every other fall. Alternates with Biology 211.
Business 105
Introduction to Business
3 hrs. Lec. (F, Sp, Su)
Provides overall picture of business operation; includes analysis of specialized fields within business organizations; identifies role of business in modern society.

Business 131
Bookkeeping
3 hrs. Lec. (F, Sp)
The fundamental principles of double-entry bookkeeping as applied to practical business situations. Emphasis is given to the following: financial statements, trial balances, work sheets, special journals, adjusting and closing entries. A practice set covering the entire business cycle will be completed.

Business 132
Bookkeeping
3 hrs. Lec. (F, Sp, Su)
Prerequisite: Business 131. Attention will be given to accruals, bad debts, taxes, depreciation, controlling accounts, and business vouchers. Bookkeeping for partnerships and corporations will be introduced.

Business 140
Educational Processes
3 hrs. Lec. (F)
An overview of the educational processes (public and private) from pre-school through college. Emphasis is placed on the contribution and influence made by education on our culture and our economy.

Business 141
Current Practical Problems
3 hrs. Lec. (Sp)
Orientation to school organization, procedures, and staff utilization via the problem solving approach.

Business 143
Personal Finance
3 hrs. Lec. (F, Sp, Su)
A study of everyday financial problems encountered in managing personal affairs. Includes financial planning, insurance, budgeting, use of credit, home ownership, savings, investment, and tax problems.

Business 150
Management Training
20 hrs. Lab. (F)
Prerequisite: Concurrent enrollment in approved mid-management program. Supervised employment in the student's chosen field. Intended to provide practical experience for students preparing for careers in business management.

Business 151
Management Training
20 hrs. Lab. (Sp)
Prerequisite: Concurrent enrollment in approved mid-management program. A continuation of Business 150.

Business 154
Management Seminar — Role of Supervision
2 hrs. Lec. (F)
Prerequisite: Concurrent enrollment in Business 150 and preliminary interview by mid-management faculty. Problem analysis and project development for students majoring in mid-management. Special emphasis is placed upon development of management, goal setting and planning, leadership, communication and motivation as applied to student's work experiences.

Business 155
Management Seminar — Personnel Management
2 hrs. Lec. (Sp)
Prerequisite: Business 150, Business 154 and concurrent enrollment in Business 151. A study of the principles, policies, and practices relating to the personnel functions of business as applied to student's work experiences.
Business 160  
Machine Transcription  
3 hrs. Lec. (F, Sp, Su)  
Prerequisite: Satisfactory completion of Business 173 or one year of typing in high school. Intensive course in transcribing from recording machines using predicated business letters and other forms of business communication from a variety of professions, industries, and government agencies. Training in use of major dictating-transcribing machines with electric typewriters. Goal is development of employable skill. Familiarization with typewriter-related equipment.

Business 161  
Office Machines  
1 hr. Lec.  
2 hrs. Lab. (F, Sp, Su)  
Training for familiarization and competence on those machines common to most business offices, such as adding machines and calculators.

Business 162  
Secretarial Training  
3 hrs. Lec. (F, Sp, Su)  
Prerequisite: Satisfactory completion of Business 173 or one year of typing in high school. Special emphasis is given to the most frequently performed secretarial duties. Units of work include filing, skill in the use of duplicating machines, mail, telegraph, postal and shipping service, handling travel details and meeting arrangements. Duties of the receptionist and development of a desirable secretarial appearance and personality are used.

Business 163  
Beginning Shorthand  
2 hrs. Lec.  
3 hrs. Lab. (F, Sp, Su)  
Prerequisite: Satisfactory completion of Business 173 or one year of typing in high school. Introduction of fundamental principles of Gregg Shorthand. Diamond Jubilee Series includes development of ability to read, write and transcribe shorthand outlines. Development of knowledge of mechanics of English.

Business 164  
Intermediate Shorthand  
3 hrs. Lec.  
3 hrs. Lab. (F, Sp, Su)  
Prerequisite: Satisfactory completion of Business 163 or one year of shorthand in high school. Application of principles of Gregg Shorthand to develop the ability to take and accurately transcribe shorthand notes at increased dictation speeds. Includes oral reading of shorthand outlines, speed building dictation and timed mailable transcripts. Training to strengthen knowledge of English mechanics and reinforce typing skills.

Business 173  
Beginning Typing  
1 hr. Lec.  
2 hrs. Lab. (F, Sp, Su)  
Fundamental techniques in typewriting are developed. The skills involved in typing manuscripts, business letters and tabulation are introduced. This course is for students with no previous training in typewriting.

Business 174  
Intermediate Typing  
1 hr. Lec.  
2 hrs. Lab. (F, Sp, Su)  
Prerequisite: Satisfactory completion of Business 173 or one year of typing in high school. Further development of techniques. Emphasis will be placed on increasing speed and accuracy with practice in typing business forms, correspondence and manuscripts.
Business 201 (3)
Principles of Accounting
3 hrs. Lec. (F, Sp, Su)
Theory and practice of measuring and interpreting financial data for business units; study of problems and income measurement, such as depreciation, inventory valuation, and credit losses; the operating cycle and the preparation of financial statements.

Business 202 (3)
Principles of Accounting
3 hrs. Lec. (F, Sp, Su)
Prerequisite: Business 201. Accounting procedures and practices applicable to partnerships and corporations: the use of cost data, budgetary controls, analysis and interpretation of financial reports for use by creditors, investors, and management.

Business 206 (3)
Principles of Marketing
3 hrs. Lec. (F, Sp)
A study of the scope and structure of marketing institutions in the marketplace today. Analysis of the marketing functions, consumer behavior, market research, sales forecasting and relevant state and federal laws.

Business 230 (3)
Salesmanship
3 hrs. Lec. (F, Sp)
A course in general salesmanship involving the factors of successful selling of goods and ideas. Buying motives, sales psychology, customer approach, and sales techniques are studied.

Business 231 (3)
Business Correspondence
3 hrs. Lec. (F, Sp)
Prerequisite: Satisfactory completion of Business 173 or one year of typing in high school; satisfactory completion of Communications 131 or English 101. A practical course that includes a study of letter forms, the mechanics of writing, and composing various types of communications. A critical analysis of the appearance and content of representative business correspondence is made.

Business 233 (3)
Advertising and Sales Promotion
3 hrs. Lec. (F, Sp)
Introduces the fundamental principles, practices and common media used in persuasive communication. Includes an insight into buyer behavior, use of advertising media to motivate consumer, and methods of stimulating salespeople and retailers. Familiarizes the student with the management of promotion programs with respect to goals, strategies, evaluation and control of promotional activities.

Business 234 (3)
Business Law
3 hrs. Lec. (F, Sp)
This course is designed to acquaint the student with the historical and ethical background of the law and to familiarize him with present day principles of law. Particular emphasis on contracts, property (bailments, sales, leases, wills, and estates), and torts.

Business 237 (3)
Organizational Behavior
3 hrs. Lec. (F)
This course endeavors to focus on the persisting human problems of administration in modern organizations as they relate to the theory and methods of behavioral science.

Business 250 (4)
Management Training
20 hrs. Lab. (F)
Prerequisite: Business 150-151; concurrent enrollment in Business 254. Continuation of supervised employment in the student's chosen field. Intended to provide increased supervisory responsibility for students preparing for careers in business management.

Business 251 (4)
Management Training
20 hrs. Lab. (Sp)

Business 254 (2)
Management Seminar—Organizational Development
2 hrs. Lec. (F)
Prerequisite: Business 151, 155 and concurrent enrollment in Business 250. A
study of the organizational objectives and management of human resources including the various approaches to organizational theory as applied to the student's work experiences.

**Business 255**  
Management Seminar —  
Business Strategy, The Decision Process and Problem Solving  
2 hrs. Lec.  
Prerequisite: Business 250, Business 254 and concurrent enrollment in Business 251. Business strategy and the decision-making process applied to the first line supervisor and middle-management positions. Specific emphasis will be placed upon the application of the student's course knowledge and work experiences.

**Business 263**  
Advanced Shorthand  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Satisfactory completion of Business 164 or two years of shorthand in high school; satisfactory completion of Business 174 or two years of typing in high school. Further development of shorthand skills to attain proficiency required for stenographic work. Emphasis on speed building dictation, timed typewritten transcription of shorthand notes for mailable letters.

**Business 264**  
Shorthand Transcription  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Satisfactory completion of Business 263; satisfactory completion of Business 273. Emphasis upon specialized dictation, mailable transcriptions, and vocabulary building. Development of high-level skill in production work meeting office standards.

**Business 273**  
Advanced Typing  
1 hr. Lec.  
2 hrs. Lab.  
Prerequisite: Satisfactory completion of Business 174 or two years of typing in high school. Timed production of all types of business material is emphasized. A continuation of skill development and a review of typing techniques are also stressed. This course will demand accuracy at advanced speeds.

**Chemistry 101**  
General Chemistry  
3 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: DM 093 or equivalent. Designed for science and science-related majors, the course includes the fundamental laws and theories dealing with the structure and interactions of matter and the use of these principles in understanding the properties of matter, chemical bonding, chemical reactions, the physical states of matter and changes of state. The fundamental principles are applied to the solution of quantitative problems relating to chemistry. Laboratory fee required.

**Chemistry 102**  
General Chemistry  
3 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Chemistry 101. Designed for science and science-related majors, this course is a continuation of Chemistry 101. The fundamental concepts introduced previously, together with additional ones, are applied to a variety of topics, including solutions and colloids, chemical kinetics and equilibrium, electrochemistry, and nuclear chemistry. Qualitative inorganic analysis is included in the laboratory work. Laboratory fee required.
Chemistry 115
General Chemistry
3 hrs. Lec.
3 hrs. Lab. (F, Sp, Su)
Prerequisite: DM 091 or equivalent.
Designed for non-science majors, the course traces the development of theoretical concepts and the evolution of these concepts in explaining various observations and laws relating to chemical bonding reactions, states of matter, solutions, electrochemistry and nuclear chemistry. The descriptive chemistry of some common elements and inorganic compounds is included. Laboratory fee required.

Chemistry 116
General Chemistry
3 hrs. Lec.
3 hrs. Lab. (Sp, Su)
Prerequisite: CHM 115. Designed for non-science majors, this course covers organic chemistry and biochemistry. The important classes of organic compounds are surveyed with the concept of structure providing the central theme. The biochemistry section includes carbohydrates, proteins, lipids, chemistry of heredity, disease and therapy and plant biochemistry. Laboratory fee required.

Chemistry 201
Organic Chemistry
3 hrs. Lec.
4 hrs. Lab. (F)
Prerequisite: Chemistry 101 and 102. Designed for science and science-related majors. An integrated introductory course in organic chemistry dealing with the fundamental types of organic compounds; their nomenclature, classification, reactions, and applications. The reactions of aliphatic and aromatic compounds are discussed in terms of modern electronic theory with emphasis on reaction mechanisms, stereo-chemistry, transition state theory and technique of organic synthesis. Laboratory fee required.

Chemistry 202
Organic Chemistry
3 hrs. Lec.
4 hrs. Lab. (Sp)
Prerequisite: Chemistry 201. Designed for science and science-related majors, this course is a continuation of Chemistry 201. Emphasis will be given to the further development of aliphatic and aromatic systems, poly-functional compounds including amino acids, proteins, carbohydrates sugars, heterocyclic and related compounds. Instrumental techniques will be used to identify organic compounds. Laboratory fee required.

Chemistry 203
Quantitative Analysis
2 hrs. Lec.
6 hrs. Lab. (Sp)
Prerequisite: Chemistry 101, 102, and Mathematics 101. This course includes the principles of chemistry as applied by the analytical chemist to quantitative determinations. Topics include gravimetry, oxidation reduction, indicators, and acid-base theory. Laboratory experience focuses on the fundamentals of gravimetric and volumetric analysis with an introduction to colorimetry. Laboratory fee required.

Communications 131
Applied Composition and Speech
3 hrs. Lec. (F, Sp)
The study of English as a practical means of preparing for successful performance in the student's chosen vocation. Emphasis placed upon assembling, organizing, and evaluating material for the composition of letters, applications, resumes, and short reports. Practice in oral expression.

Communications 132
Applied Composition and Speech
3 hrs. Lec. (F, Sp)
Prerequisite: Communications 131 or Consent of instructor. Enrichment of communication processes with emphasis on oral and written persuasion directly related to occupational training and work experience. Expository techniques of business letters and documented reports. Wide periodical reading.
Computer Science 175  (3)
Introduction to Computer Science
3 hrs. Lec.  (F, Sp)
Provides a basic understanding of the computer and how it is used in a variety of applications. Covers the history of computer development, vocabulary and broad concepts of design and function. Intended for non-programmers who need a familiarization with computers.

Construction Management and Technology 130  (4)
Building Materials and Their Properties
3 hrs. Lec.
3 hrs. Lab.  (F)
An introductory study of the nature, origin, and properties of materials. The nature of materials and their interactions are considered. The process of selecting, specifying and preserving materials is studied with consideration for economy, quality and performance. Included also are roof coverings, wall and floor materials. Laboratory fee required.

Construction Management and Technology 132  (3)
The Construction Industry
3 hrs. Lec.  (F)
An introductory course designed to survey the growth, magnitude and economic importance of the construction industry. Emphasis is placed on an understanding of the interrelationship between the many trades, professions and agencies involved in construction.

Construction Management and Technology 133  (3)
Electrical and Mechanical Equipment for Builders
2 hrs. Lec.
3 hrs. Lab.  (Sp)
Prerequisite: Construction Management and Technology 130. A continuing study of the nature and use of those construction materials and equipment associated with plumbing; heating, ventilation and air conditioning systems; electrical systems; conveying systems used in building construction. The student will be introduced to the design theories and uses for the completed systems.

Construction Management and Technology 134  (3)
Construction Methods and Equipment
2 hrs. Lec.
3 hrs. Lab.  (Sp)
The analysis of up-to-date construction problems with emphasis upon understanding the organization and equipment used in such construction problems as excavation, pile driving, concrete, wood, brick, stone and steel construction. Additional emphasis is placed on developing a sound conception of the related problems faced by the architect, contractor, construction superintendent, and distributors in planning and erecting buildings.

Construction Management and Technology 136  (4)
Surveying and Measurements
2 hrs. Lec.
6 hrs. Lab.  (F, Su)
Beginning course designed for students with little or no training in surveying. It combines lectures, laboratory, and field work in theory, methods, equipment and problems involved in surveying and measurement and their application.
Construction Management and Technology 138
3 hrs. Lec.
3 hrs. Lab.
An introductory course covering the total responsibilities of a supervisor, such as organization, duties and responsibilities, human relations, grievances, training, rating, promotion, quality and quality control, management-employee relations, scheduling of work, job and safety instructions. Study of roles played by labor and management in the development of American industry. Analysis is made of forces affecting labor supply, employment, and industrial relations under the democratic system of government. A major part of the course is on safety and its value to economic operations and employee morale.

Construction Management and Technology 230
3 hrs. Lec.
3 hrs. Lab.
Prerequisite: Construction Management and Technology 130, Construction Management 134 or equivalent. A course designed to study standard quality control procedures utilized in the construction industry including laboratory and field testing. The student will also learn to separate, analyze and evaluate construction costs and methods to control them. Laboratory fee required.

Construction Management and Technology 231
2 hrs. Lec.
3 hrs. Lab.
Prerequisite: Construction Management and Technology 130 or equivalent. To develop an understanding of soil characteristics and the qualities required of a good foundation. The student will study placement of concrete, reinforcing steel, forms and concrete mixtures indicated in plans and specifications. This course includes standard quality control tests performed on soil and concrete. Laboratory fee required.

Construction Management and Technology 232
1 hr. Lec.
6 hrs. Lab.
Prerequisite: Construction Management and Technology 130, 133, 134, 237 or equivalent. A study of the basic building materials and their interrelations in foundations, columns, beams, slabs, hydraulic conduits and basic design of modern timber structures. Includes welded members, connections and fasteners. The relationship between the structure design and utilities such as electrical, mechanical, communications equipment, etc., are studied. Field trips will be utilized. Laboratory fee required.

Construction Management and Technology 233
2 hrs. Lec.
4 hrs. Lab.
Prerequisite: Construction Management and Technology 230. A basic course for construction estimators. The student studies quantity surveying, interpretation and uses of bid documents. He learns to compute and assemble labor and material costs, unit and lump sum costs and preliminary and final estimates. Laboratory fee required.

Construction Management and Technology 237
3 hrs. Lec.
3 hrs. Lab.
Prerequisite: Construction Management and Technology 130 or equivalent. To develop an understanding of soil characteristics and the qualities required of a good foundation. The student will study placement of concrete, reinforcing steel, forms and concrete mixtures indicated in plans and specifications. This course includes standard quality control tests performed on soil and concrete. Laboratory fee required.

Construction Management and Technology 238
3 hrs. Lec.
3 hrs. Lab.
Prerequisite: Construction Management and Technology 138. A course in project
planning and development in construction which involves feasibility studies, financing, planning, programming, design and construction. Office engineering techniques are investigated through the solutions of problems related to construction projects.

Construction Management and Technology 239 (3)
Building Codes and Safety
3 hrs. Lec. (F)
Studies various construction methods and procedures and relates them to the various building codes. Presents organizations, functions and operations of inspection groups and studies the relationship between inspection and construction personnel. Field trips to inspection organizations will be made. Safety practices will be studied, and the student will become familiar with the recently passed Federal "Occupational Safety and Health Act."

Developmental Mathematics
090 (3)
Pre-Algebra Mathematics
3 hrs. Lec. (F, Sp, Su)
Pre-algebra mathematics is designed to develop an understanding of fundamental operations using whole numbers, fractions, decimals and percents and to strengthen basic skills in mathematics. The course is planned primarily for students who need to review basic mathematical processes. It is the first step in the math sequence and includes an introduction to algebra. Same as GSM 090 in the El Centro and Mountain View catalogs.

Developmental Mathematics
091 (3)
Elementary Algebra
3 hrs. Lec. (F, Sp, Su)
Prerequisite: DM 090 or equivalent. Elementary algebra is designed to develop an understanding of first year algebra. It includes special products and factoring, fractions, equations, graphs, functions, and an introduction to geometry. The sequence DM 090, 091 and 093 is preparatory to Math 101 as well as foundation for technical mathematics. Same as GSM 091 in the El Centro and Mountain View catalogs.

Developmental Mathematics
093 (3)
Intermediate Algebra
3 hrs. Lec. (F, Sp, Su)
Prerequisite: One year high school Algebra or DM 091. Includes the terminology of sets, properties of real numbers, fundamental operations on polynomials and fractions, products, factoring, radicals, and rational exponents. Also covered are solutions of linear, fractional, quadratic, and systems of linear equations, coordinate systems, and graphing. Same as MTH 093 in El Centro and Mountain View catalogs.

Developmental Reading 090 (3)
Basic Reading
3 hrs. Lec. (F, Sp, Su)
Developmental Reading 090 is concerned with the improvement of comprehension skills, vocabulary building, and study skills. The course is designed for those students who wish to strengthen the basic reading skills necessary for success in vocational, terminal, and transfer educational programs. Developmental reading is offered in a laboratory setting employing individualized instruction methods. Same as GSR 090 in the El Centro and Mountain View catalogs.

Developmental Reading 091 (3)
Basic Reading
3 hrs. Lec. (F, Sp, Su)
Developmental Reading 091 is designed to increase proficiency in reading comprehension and rate, word recognition and vocabulary development, and study skills and reading in the content areas. It also includes reading experiences which have been developed to broaden the general reading background of the student. Developmental reading is offered in a laboratory setting employing individual instruction methods. Same as GSR 091 in the El Centro and Mountain View catalogs.
Developmental Writing 090  (3)
Basic Writing
3 hrs. Lec.  (F, Sp, Su)
Developmental Writing 090 emphasizes the diagnosis and correction of deficiencies in basic writing skills. Mechanics of writing will include spelling, comprehension techniques, vocabulary improvement, principles of sentence and paragraph structure and various types of paragraph development. The course provides experience in finding and organizing ideas and materials for written compositions with an introduction to essay writing. It is held in a laboratory setting utilizing individualized instruction techniques. Same as GSW 090 in the El Centro and Mountain View catalogs.

Developmental Writing 091  (3)
Basic Writing
3 hrs. Lec.  (F, Sp, Su)
Prerequisite: Developmental Writing 090 or equivalent. Developmental Writing 091 includes a review of paragraph and essay development. It encompasses research techniques and writing, reports and analyses. Individual instruction in basic skills is included. Same as GSW 091 in El Centro and Mountain View catalogs.

Developmental Writing 092  (1)
Writing Lab
3 hrs. Lab.  (F, Sp, Su)
Developmental Writing Lab 092 is a workshop to facilitate writing success for course work and other individual interests. Students are given instruction and supervision in written assignment, research papers, re-writing and editing, organization, vocabulary development, and correction of errors in grammar, mechanics and spelling. It develops the ability to write effectively, spontaneously, and creatively from individual opinions and reactions. Same as GSW 092 in Mountain View catalog.

Drafting 182  (2)
Technician Drafting
1 hr. Lec.
3 hrs. Lab.  (F)
A beginning drafting course to enable students to read and interpret engineering drawings. Topics covered include multi-view drawings, pictorial drawings, dimensioning, measurement with scales, schematic diagrams and printed circuit boards.

Drafting 183  (4)
Basic Drafting
2 hrs. Lec.
6 hrs. Lab.  (F, Sp)
A beginning course for students who have had little or no previous experience in drafting. The principal objectives are basic understanding of orthographic projection; skill in orthographic, axonometric, and oblique sketching and drawing; lettering fundamentals; applied geometry; fasteners; sectioning; tolerancing; auxiliaries; experience in using handbooks and other resource materials and development of design skills. U.S.A.S.I., government, and industrial standards are used. Emphasis is placed on both mechanical skills and graphic theory.

Drafting 185  (4)
Architectural Drafting
2 hrs. Lec.
6 hrs. Lab.  (Sp)
Prerequisite: Drafting 183 or equivalent. A course in basic architectural drafting beginning with the development of techniques in architectural lettering, drafting of construction details, using appropriate material symbols and conventions. Working drawing including plans, elevations, sections and details as prepared for building construction including steel, concrete, and timber structural components will be emphasized. Reference materials will be used to provide the draftsman with skills in locating data and in using handbooks.
Economics 201 (3)
Principles of Economics I
3 hrs. Lec.  (F, Sp, Su)
The fundamental principles of macroeconomics. Economic organization, national income determination, money and banking, monetary and fiscal policy, economic fluctuations and growth. Sophomore standing recommended.

Economics 202 (3)
Principles of Economics II
3 hrs. Lec.  (F, Sp, Su)
Prerequisite: Economics 201 or the consent of the instructor. The fundamental principles of microeconomics. Theory of demand, supply, and price of factors; income distribution; theory of the firm. Emphasis also on international economics and contemporary economic problems.

Electro-Mechanical Technology 130 (4)
Electrical Circuits
3 hrs. Lec.
3 hrs. Lab.  (F, Sp, Su)
A course in the theory and practical application of direct and alternating current circuits. Emphasis is on understanding of functions and characteristics of circuit components, fundamental laws, and applied problem solving. Laboratory work coordinates with classroom topics emphasizing understanding of principles along with extension into practical areas.

Electro-Mechanical Technology 132 (3)
Electronics I
2 hrs. Lec.
2 hrs. Lab.  (F, Sp)
Prerequisite: EMT 130 or equivalent. A course devoted to the study of the fundamentals of electronics. Upon completion of the course, the student should understand the functions and principles of operation of a variety of electronic components and units used in electro-mechanical devices, be able to confirm manufacturer's specifications, breadboard electronic circuits, use standard electronic laboratory equipment and instrumentation, and assist in prototype development.

Electro-Mechanical Technology 232 (3)
Electronics II
2 hrs. Lec.
3 hrs. Lab.  (F)
Prerequisite: Electro-Mechanical Technology 132. Continuation of Electronics I. The second semester treats more advanced electronic devices and circuits with primary emphasis on semiconductors. Both analog and digital circuit fundamentals are discussed. The use of these circuits in controls, sensing, and testing is stressed. Attention in the laboratory shifts to the application and characteristics of these circuits. Emphasis is placed on the application and analysis of solid state circuits in electro-mechanical devices with increased reliance on pre-assembled or commercially available units. Laboratory fee required.
Electro-Mechanical Technology

233
2 hrs. Lee.  
3 hrs. Lab.  
Prerequisite: Electro-Mechanical 130. This course is designed to provide both theoretical and functional knowledge of power electricity, including AC and DC machines. Both electrical and mechanical aspects of electrical machinery and controls are stressed. The laboratory provides hands-on experience in operation of electrical machinery, quantitative analysis of performance characteristics, electrical measurements on power circuits and equipment as well as experimental demonstration of principles discussed in class. Safety practices for the protection of equipment and personnel are stressed. Laboratory fee required.

Electro-Mechanical Technology

234 (4)
3 hrs. Lee.  
3 hrs. Lab.  
Prerequisite: Electro-Mechanical Technology 130 and 135. A course devoted to a detailed study of integrated electro-mechanical devices, controls and systems. Emphasis is on basic understanding of functions in physical systems. This course provides a foundation for a wide variety of scientific and industrial applications and interdisciplinary systems. Electrical and mechanical sensing devices, input-output devices, control devices, and information transmitting devices are studied and their system relationships investigated in classroom and laboratory. Laboratory fee required.

Electro-Mechanical Technology

235 (4)
3 hrs. Lee.  
3 hrs. Lab.  
Prerequisite: Electro-Mechanical Technology 234. A continuation of Electro-Mechanical Devices and Systems I. The second course deals with the use of control devices, control principles, timing, and types of controllers. Characteristics of automatic control systems are discussed. These will include open and closed loop control systems, feedback, stability and the components and devices applied to these systems. Laboratory sessions involve testing and calibration of components and devices; circuit analysis and response characteristics; assembling, adjusting, and troubleshooting of integrated electro-mechanical systems. Laboratory fee required.

Electro-Mechanical Technology

236 (3)
2 hrs. Lee.  
3 hrs. Lab.  
Prerequisite: Electro-Mechanical Technology 130. In this course the student will be introduced to the various aspects of industrial instrumentation and testing. The characteristics of various instruments used in instrumentation and testing will be investigated both in theory and in practical laboratory applications. The static and dynamic characteristics of measuring devices used in such areas as heat flow, liquid flow, electronic control, pressure and related areas in instrumentation, control, and materials handling. Laboratory fee required.

Electro-Mechanical Technology

237 (3)
2 hrs. Lee.  
3 hrs. Lab.  
Prerequisite: Electro-Mechanical Technology 235. An integrated course which ties together all aspects of the curriculum. This laboratory emphasizes analysis and troubleshooting of operational electro-mechanical systems and processes in which faults are intentionally introduced. Systems studied are derived from a wide range of multi-discipline industrial applications. The student is required to demonstrate a substantial degree of independence in problem identification, problem solving, and reporting techniques. There is continued emphasis on safety in both written and oral communication. Laboratory fee required.
Engineering 101 (2)
Engineering Analysis
2 hrs. Lec. (F, Sp)
Prerequisite: DM 093 or equivalent. The past, present, and future role of the engineer in society; branches and specialties in engineering, introduction to engineering analysis affording practice in analyzing and solving engineering problems; computational methods and devices, to include slide rule theory and techniques; an introduction to numerical methods and computer programming.

Engineering 105 (3)
Engineering Graphics
2 hrs. Lec. 4 hrs. Lab. (F)
Provides the basic graphic fundamentals necessary for engineering communications and engineering design. Teaches standard engineering graphical techniques, auxiliaries, sections, graphical analysis, pictorial and working drawings in a framework which introduces the student to rational processes of creative engineering. Laboratory fee required.

Engineering 106 (3)
Descriptive Geometry
2 hrs. Lec. 4 hrs. Lab. (Sp)
Prerequisite: Drafting or Engineering 105. Provides training in the visualization of three-dimensional structures, and in accurately representing these structures in drawings by analyzing the true relationship between points, lines, and planes. Attention is given to the generation and classification of lines and surfaces, as well as intersections, developments, auxiliaries and revolutions.

Engineering 186 (2)
Manufacturing Processes
1 hr. Lec. 2 hrs. Lab. (F, Sp, Su)
Introduces the student enrolled in technical programs to the many steps involved in manufacturing a product. This is accomplished by involving the class in producing a device with precision. The student gains practical experience with working drawings, a variety of machine tools, and the assembly of components. The student is made aware of the factors involved in selecting materials and economical utilization of materials. Laboratory fee required.

Engineering 187
Manufacturing Processes
1 hr. Lec. 2 hrs. Lab. (Sp, Su)
A continuation of Manufacturing Processes 186. Laboratory fee required.

Engineering 188 (3)
Statics
3 hrs. Lec. (Sp)
Prerequisite: Mathematics 131. A study of the forces acting on rigid bodies using vector mathematics in three dimensional space. The students will learn the principles of resultants and equilibrium of force systems, trusses and three-force members, friction and centroids.

Engineering 189 (3)
Characteristics and Strengths of Materials
3 hrs. Lec. (Sp)
Prerequisites: Engineering 188. A study of the characteristics and strengths of materials as they relate to loads, stresses, and deformities within the elastic range.

English 101 (3)
Composition and Expository Reading
3 hrs. Lec. (F, Sp, Su)
Writing and reading activities designed to help the student write more clearly and effectively and to read more enjoyably and efficiently.

English 102 (3)
Composition and Literature
3 hrs. Lec. (F, Sp, Su)
Prerequisite: English 101. Writing and reading activities in poetry, drama, the short story, and the novel designed to increase the student's understanding and enjoyment of good literature.

English 201 (3)
British Literature
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102. Consideration of significant literature from the fourteenth through the eighteenth centuries.
English 202
British Literature (3)
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102.
Study of significant literature from the Romantic Period to the present.

English 203
World Literature (3)
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102. Reading and analysis of significant continental European works from the Greek Classical Period through the Renaissance.

English 204
World Literature (3)
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102. Study of important post-Renaissance works of continental Europe, England, and America.

English 205
American Literature (3)
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102. Study of the works of important writers before Whitman in the context of their times.

English 206
American Literature (3)
3 hrs. Lec. (F, Sp, Su)
Prerequisites: English 101 and English 102. Reading and analysis of representative works from Whitman to the present.

English 215
Studies in Literature (3)
3 hrs. Lec. (F, Sp)
Prerequisites: English 101 and English 102. The student will read, analyze and discuss selections in literature unified by period, genre or theme.

English 216
Studies in Literature (3)
3 hrs. Lec. (F, Sp)
Prerequisites: English 101 and English 102. The student will read, analyze and discuss selections in literature unified by period, genre or theme.

Fluid Power Technology 131
Fluid Power Fundamentals (4)
3 hrs. Lec. (F)
3 hrs. Lab. (F)
Prerequisite: English 101 or equivalent. Instruction is designed to give the student a sound understanding of the physical properties of fluids, the flow of fluids in conductors, and the behavior of fluids when used for power transmission.

Fluid Power Technology 132
Applied Fluid Mechanics (3)
3 hrs. Lec. (Sp)
3 hrs. Lab. (F)
Prerequisite: English 101 or equivalent. This course stresses the application of working formulas related to the physical properties of fluids, the flow of fluids in conductors, and the behavior of fluids when used for power transmission.

Fluid Power Technology 231
Fluid Power Circuitry (4)
3 hrs. Lec. (F)
3 hrs. Lab. (F)
This course covers the development of various types of standardized hydraulic circuits used in industry. The discussion includes circuits which are manually, mechanically and pilot-operated. Special emphasis is placed on the selection of valves with respect to their operational characteristics. Laboratory fee required.

Fluid Power Technology 232
Fundamentals of Pneumatics (4)
3 hrs. Lec. (F)
3 hrs. Lab. (F)
Instruction is designed to give the student a sound understanding of the constructional features and principles of operation of pneumatic power units.
pneumatic controls, and pneumatic cylinders. In addition, he becomes familiar with the layout and operation of pneumatic circuits including power-operated holding devices, safety circuits, and remote controlled circuits. Circuits studied are those which are manually, mechanically, pilot, and solenoid operated. Laboratory fee required.

**Fluid Power Technology 233 (4)**
Fluid Power Circuit Design
3 hrs. Lec.
3 hrs. Lab. (Sp)
This course includes calculations to determine cylinder sizes, pump capacities, valve sizes, transmission sizes, and velocities through various parts of the circuits. The student evaluates certain assigned problems, designs the circuit, calculates the required system pressures and component sizes, lists the components required, and determines the cost. The circuitry problems include those which are remote-controlled and solenoid-operated. Laboratory fee required.

**Fluid Power Technology 234 (4)**
Fluid Power Systems Analysis
3 hrs. Lec.
3 hrs. Lab. (Sp)
A course designed to analyze and evaluate the requirements of circuits to perform specified functions as new fluid power applications arise. Laboratory tests are made to determine the performance characteristics of pumps, motors, transmissions, valves, and actuators in terms of horsepower, torque efficiencies, and frictional losses. The data obtained are used to set up performance curves as they apply to specific components. Laboratory fee required.

**Fluid Power Technology 235 (3)**
Instrumentation and Testing
2 hrs. Lec.
3 hrs. Lab. (Sp)
Industrial instrumentation and characteristics of instruments; static and dynamic characteristics, heat transfer and measuring devices, control of fluid systems analysis and application of control instruments. Laboratory fee required.

**French 101 (4)**
Beginning French
3 hrs. Lec.
2 hrs. Lab. (F)
Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension, and oral expression. Laboratory fee required.

**French 102 (4)**
Beginning French
3 hrs. Lec.
2 hrs. Lab. (Sp)
Prerequisite: French 101 or equivalent. Continuation of French 101 or with emphasis on idiomatic language and complicated syntax. Laboratory fee required.

**French 201 (3)**
Intermediate French
3 hrs. Lec. (F)
Prerequisite: French 102 or equivalent. Reading, composition, grammar review and intense oral practice.
French 202  
Intermediate French  
3 hrs. Lec.  
Prerequisite: French 201 or equivalent. 
Continuation of French 201 with reading selections drawn more directly from contemporary literary sources. Composition.

Geography 101  
Geography (Physical)  
3 hrs. Lec.  
(F) 
A survey of the physical makeup of the earth: weather and climate, topography, plant and animal life, land and sea. Attention is directed toward the earth in space, use of maps and charts and place geography.

Geography 102  
World Geography (Economic)  
3 hrs. Lec.  
(Sp) 
A study of the relation of man to his environment and his utilization of natural resources, dealing with problems of production, manufacture, and distribution of goods throughout the world. The aspects of primitive subsistence and degrees of commercialism are considered.

Geography 103  
World Geography (Cultural)  
3 hrs. Lec.  
(Sp) 
Development of regional variations of culture, including the distribution of races, religions, languages, and aspects of material culture, with emphasis on origins and diffusion.

Geology 101  
General Geology (Physical)  
3 hrs. Lec.  
3 hrs. Lab.  
(F, Sp, Su) 
Study of earth materials and processes for science and non-science majors. Includes examination of the earth's interior, magnetism, gravity, setting in space, minerals, rocks, structure and geologic processes. Laboratory fee required.

Geology 102  
General Geology (Historical)  
3 hrs. Lec.  
3 hrs. Lab.  
(Sp, Su) 
Prerequisite: Geology 101. Study of earth materials and processes within a time perspective. For science and non-science majors. Utilizes fossils, geologic maps, and field studies to interpret geologic history. Laboratory fee required.

German 101  
Beginning German  
3 hrs. Lec.  
2 hrs. Lab.  
(F) 
Prerequisite: German 101 or equivalent. Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension, and oral expression. Laboratory fee required.

German 102  
Beginning German  
3 hrs. Lec.  
(Sp) 
Prerequisite: German 101 or equivalent. Continuation of German 101 with emphasis on idiomatic language and complicated syntax. Laboratory fee required.

German 201  
Intermediate German  
3 hrs. Lec.  
(F) 
Prerequisite: German 102 or equivalent. Reading, composition, grammar review and intense oral practice.

German 202  
Intermediate German  
3 hrs. Lec.  
(Sp) 
Prerequisite: German 201 or equivalent. Continuation of German 201 with reading selections drawn more directly from contemporary literary sources. Composition.

Government 201  
American Government I  
3 hrs. Lec.  
(F, Sp, Su) 
Prerequisite: Sophomore standing. An introduction to the study of political science: origin and development of constitutional democracy (United States and Texas); federalism and intergovernmental relations; civil rights and liberties; local government; parties, politics and political behavior. (Satisfies requirements for Texas State Teacher Certification.)
Government 202 (3)
American Government II
3 hrs. Lec.  (F, Sp, Su)
Prerequisite: Government 201. A study of the United States and Texas legislative process; the executive and the bureaucracy; the judicial process, domestic policies; foreign relations and national defense. (Satisfies requirements for Texas State Teacher Certification.)

History 101 (3)
History of the United States
3 hrs. Lec.  (F, Sp, Su)
A general presentation of United States history, commencing 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.

History 102 (3)
History of the United States
3 hrs. Lec.  (F, Sp, Su)
Prerequisite: History 101 recommended. A survey of the unfolding of United States history from the Reconstruction Era to the present day. The study includes social, economic and political aspects of American life and follows the development of the United States as a world power.

History 105 (3)
Western Civilization
3 hrs. Lec.  (F, Su)
A survey of the background for development of civilization in the West from ancient time through the Enlightenment; the Mediterranean world including Greece and Rome; the Middle Ages and the beginnings of modern history. Particular attention is paid to Renaissance, Reformation, the rise of the national state, the development of parliamentary government and the influences of European colonization.

History 106 (3)
Western Civilization
3 hrs. Lec.  (Sp, Su)
The unfolding of the pattern of modern western civilization from the Enlightenment to current times. A study of the Age of Revolution and the beginnings of industrialism, the nineteenth century and the social, economic, and political factors of recent world history.

History 110 (3)
The Heritage of Mexico
3 hrs. Lec.  (F, Sp)
This course presents major historical developments and personalities which have shaped the Mexican nation, with emphasis on cultures and customs. Beginning with the peoples who inhabited the country before the Spanish conquest, the course leads to modern Mexico, emphasizing the historical relations between Mexico and the United States and the role of the Mexican-American in the contemporary United States. The student may register for either Anthropology 110 or History 110.

History 120 (3)
Afro-American History
3 hrs. Lec.  (F, Sp)
A study of the role of the Negro in American history; overview of the slave trade and slavery in the United States; focus on contributions of the Negro in the U. S. from colonial times. Emphasis on political, economic and sociological factors of the 20th century.

Horticulture Technology 131 (4)
Horticulture Science
2 hrs. Lab.  (F)
6 hrs. Lab.  (Su)
This course covers the science and practices underlying ornamental horticulture, stressing plant classification, growth, and culture as well as the skills used in landscaping, plant production, and other specialized areas.

Horticulture Technology 132 (2)
Landscape Plant Materials
6 hrs. Lab.  (F, Su)
This course covers the identification and classification of landscape plants and a study of their characteristics and landscape uses. Laboratory fee required.

Horticulture Technology 133 (2)
Landscape Plant Materials II
6 hrs. Lab.  (Sp)
Emphasis in this course is on plant ecology, plant quality, new developments in landscape plant cultivars and in unusual trees and plants.
Horticulture Technology 136 (3)  
Horticulture Structures  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Horticulture Technology 131 or approval of the instructor. This course covers the construction and operation of such ornamental horticulture production structures as greenhouses, plastic houses, lath houses, hotbeds, and coldframes. Emphasis is given to effective environmental control and efficiency in production operations. Laboratory fee required.

Horticulture Technology 140 (3)  
Herbaceous and Exotic Plants  
2 hrs. Lec.  
3 hrs. Lab.  
This course is concerned with identification, culture, and use of ornamental herbaceous plants grown in homes, gardens and conservatories. Laboratory fee required.

Horticulture Technology 141 (4)  
Floral Design  
2 hrs. Lec.  
6 hrs. Lab.  
A study of the basic principles of floral art, flowers and other design materials, and special and unusual floral designs. Laboratory fee required.

Horticulture Technology 231 (4)  
Landscape Design I  
2 hrs. Lec.  
6 hrs. Lab.  
Prerequisite: Horticulture Technology 133 or approval of the instructor. This course gives the basic principles of landscape design and plant selection as used in relation to residential landscapes. Laboratory fee required.

Horticulture Technology 232 (4)  
Landscape Design II  
2 hrs. Lec.  
6 hrs. Lab.  
Prerequisite: Horticulture Technology 231 and 235. This course provides advanced instruction in the application of landscape principles to estates, parks, recreation areas and industrial sites. Laboratory fee required.

Horticulture Technology 233 (3)  
Nursery Operations  
1 hr. Lec.  
6 hrs. Lab.  
Prerequisite: Horticulture Technology 136. In this course emphasis is placed on the propagation of landscape plants, transplanting and proper care in the nursery row. Laboratory fee required.

Horticulture Technology 234 (3)  
Ornamental Crop Production  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Horticulture Technology 136. The course stresses advanced methods in nursery and greenhouse crop production. Emphasis is given to container nursery production, turf grass production, cut flower and pot plant production and the field propagation and production of nursery stock. Laboratory fee required.

Horticulture Technology 235 (3)  
Landscape Development  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Horticulture Technology 131 or approval of instructor. This course covers the planning of landscape operations, the proper care of landscape plants, preparation of garden soil, and construction of landscape structures. It includes pruning and training of trees and shrubs, the culture of turf grass and installation of drainage and irrigation systems. Laboratory fee required.

Horticulture Technology 237 (3)  
Horticulture Sales  
2 hrs. Lec.  
3 hrs. Lab.  
Prerequisite: Horticulture Technology 231. This course is a study of business operations in ornamental horticulture. It is concerned with the structure of the industry, management practices, and marketing methods. Each student studies his selected business, i.e., garden center, flower shop and landscape service. Laboratory fee required.

Horticulture Technology 239 (2)  
Applied Horticulture Training  
10 hrs. Lab.  
Prerequisite: Concurrent enrollment in Horticulture Technology 240. This course gives the student first hand experiences in the occupational aspects of ornamen-
tal horticulture. An internship in ornamental horticulture in such areas as park maintenance, landscape, construction, landscape maintenance, florist operations, and wholesale and retail sales is provided each student. An activity is selected by the student that will meet his future employment goals. All experiences are closely supervised and directed toward the attainment of significant occupational competencies.

Horticulture Technology 240 (2)
Seminar in Horticulture Occupations
2 hrs. Lec. (Sp)
Prerequisite: Concurrent enrollment in Horticulture Technology 239. This course presents the student with problems and problem-solving methods used in the performance of supervisory jobs in various fields of ornamental horticulture. Emphasis is placed on analysis of skills and the supervision and training of ornamental horticulture workers.

Human Development 102 (1)
Orientation
1 hr. Lec. (F, Sp)
This is a course to help the student be successful in college. The student will make an individual contract with the instructor. Student experiences will include appropriate subject “packages” such as “Improving Your Vocabulary,” “How to Take Notes,” “Study Skills,” and “Listening Skills.” Also, an evaluation session with a counselor is included. A “package” may be made up of programmed materials, filmstrips, tapes, slides, or other appropriate materials.

Human Development 105 (3)
Basic Processes of Interpersonal Relationships
3 hrs. Lec. and Lab. (F, Sp, Su)
A course in human development designed to explore interpersonal relations through a study of theory and concepts of small group processes and actual participation in the human experience. Students will be given an opportunity to participate in experiences planned to increase one’s sensitivity to self and to others. A variety of activities are planned, partly by each class, designed to meet certain specific human needs of the students in the class. Open to freshmen and sophomores.

Human Development 106 (3)
Personal and Social Growth
3 hrs. Lec. and Lab. (F, Sp, Su)
A course which deals with human development from the standpoint of the interaction between a person and his society. Understanding of self, the influences of society contributing to the development of self, and the success of the individual within a society are investigated. Adjustment to family, school, and society is developed.

Human Development 107 (3)
Developing Leadership Behavior
3 hrs. Lec. and Lab. (F, Sp)
A course in human development designed to meet specific needs of students through participation in activities. The focus of this course will be on the development of group dynamics, leadership, and human relations skills. Students will be required to participate in the management experience of planning, execution, and evaluation of activities. The theoretical body of knowledge regarding leadership development and growth in group dynamics and management skills will be emphasized.

Humanities 101 (3)
Introduction to the Humanities
3 hrs. Lec. (F, Sp, Su)
Through an examination of interrelated examples of man’s creative achievements, the humanities course attempts to enlarge awareness and increase understanding of the nature of man and the values of human life.
Human Services 131 (3)
Orientation to Human Services
3 hrs. Lec. (F)
A brief survey of historical development
of social services in our society. Emphasis
is on current needs, practices and pro-
jected changes. Will involve contact with
community agencies and give the student
the opportunity to test his interest in
people-to-people occupations.

Human Services 134 (3)
Human Services Seminar
3 hrs. Lec. (Sp)
A continuation of Human Services 131
with an emphasis on class discussion,
sharing of experiences. A problemsolv-
ing approach to individual, family,
and community problems.

Journalism 101 (3)
Introduction to Mass Communications
3 hrs. Lec. (F, Sp, Su)
A survey course designed to provide stu-
dents with a panoramic view of the field
of mass communications and an under-
standing of the role of mass media in
modern society. Not restricted to jour-
nalism majors.

Journalism 102 (3)
News Gathering and Writing
2 hrs. Lec. (F)
Prerequisite: Typing ability. *Journalism
101 is not a prerequisite for Journalism
102. Beginning reporting, study of types
of news, leads, body treatment of story,
feature in lead, facts, background, and
practice in writing straight news story.
Required for all journalism majors.

Journalism 103 (3)
News Gathering and Writing
2 hrs. Lec. (Sp)
Prerequisite: Journalism 102. Required for
all journalism majors. A continuation of
Journalism 102. The writing of more com-
plex types of news stories. Specialized
writing in the fields of sports, police
news, markets, finance, society, amuse-
ments, government, and news of interest
to women. Additional laboratory work on
the student newspaper.

Journalism 104 (1)
Publications
3 hrs. Lab. (F, Sp)
Prerequisite: Permission of instructor. In-
dividual staff assignments on the student
newspaper in one of the following jour-
nalistic fields: writing, advertising,
photography, cartooning, editing. Stu-
dents are required to work at prescribed
periods under supervision and must
attend staff meetings. This course may
not be taken for credit concurrently with
Journalism 102 or 103. Credit limited to
one hour per semester. MAY BE
REPEATED FOR A TOTAL OF THREE
CREDIT HOURS.

Journalism 202 (1)
Publications
3 hrs. Lab. (F, Sp)
Prerequisite: Permission of instructor. In-
dividual staff assignments on the stu-
dent newspaper in one of the following
journalistic fields: writing, advertising,
photography, cartooning, editing. Stu-
dents are required to work at prescribed
periods under supervision and must
attend staff meetings. This course may
not be taken for credit concurrently with
Journalism 102 or 103. Credit limited to
one hour per semester. MAY BE
REPEATED FOR A TOTAL OF THREE
CREDIT HOURS.

Journalism 204 (3)
News Editing and Copyreading
3 hrs. Lec. (F, Sp)
Prerequisite: Journalism 102. A detailed
course in editing news for presentation
in the newspaper and on radio and televi-
sion. Special emphasis on writing head-
lines and laying out pages.

Mathematics 101 (3)
College Algebra
3 hrs. Lec. (F, Sp, Su)
Prerequisite: DM 093 or two years of high
school algebra and satisfactory score on
proficiency examination. (Students regis-
tering for MTH 101 will be counseled
individually by their instructors on the
basis of background and the results of
a proficiency examination given at the
beginning of the semester. Every effort
will be made to register the student in
a mathematics course commensurate
with his background, ability, and educa-
tional goals.)
Introduction to set operations, real and complex numbers, and operations on them. A study of the functions and relations most commonly needed, especially absolute value, polynomial functions, and rational functions, together with equations obtained from these functions. Includes linear, quadratic, and higher degree equations, and systems of equations. Accompanying these will be appropriate auxiliary topics such as determinants, Cramer’s rule, some elementary aspects of the theory of equations, progressions, the binomial theorem, and algebraic proof.

**Mathematics 102**  
**Plane Trigonometry**  
3 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: MTH 101. Angular measure, functions of angles, derivation of formulae, identities, solution of triangles, equations, inverse trigonometric functions, logarithms, and complex numbers.

**Mathematics 106**  
**Elementary Functions and Coordinate Geometry**  
5 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: Two years of high school algebra and one semester of trigonometry. Study of the algebra of functions and coordinate geometry to include the following: polynomial and rational, exponential, logarithmic, trigonometric, functions of two variables, and analytical geometry which includes conics, transformation of coordinates, polar coordinates, and parametric equations.

**Mathematics 111**  
**Math For Business and Economics I**  
3 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: Two years of high school Algebra or DM 093. Study of equations and inequalities; functions to include: linear, quadratic, polynomial, rational, exponential, and logarithmic functions; and linear programming. Applications to business and economics problems are emphasized.

**Mathematics 112**  
**Math for Business and Economics II**  
3 hrs. Lec.  
(Sp, Su)  
Prerequisite: Math 111. Study of sequences and limits, differential calculus, integral calculus, optimization, and appropriate applications.

**Mathematics 115**  
**College Mathematics I**  
3 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: Developmental Mathematics 093 or 1 year of high school algebra and 1 year of high school geometry or 2 years of high school algebra. A course designed for liberal arts students which includes the study of logic, mathematical patterns, mathematical recreations, systems of numeration, mathematical systems, sets and statements, and sets of numbers. Historical aspects of the above topics will also be emphasized.

**Mathematics 116**  
**College Mathematics II**  
3 hrs. Lec.  
(Sp, Su)  
Prerequisite: Mathematics 115. A course designed for liberal arts students which includes the study of algebra, linear programming, permutations, combinations, probability, and geometry. Historical aspects of the above topics will also be emphasized.

**Mathematics 121**  
**Analytic Geometry**  
3 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: MTH 102 or equivalent. Introduction to real numbers, distance, the straight line, the circle, conics, transformation of coordinates, polar coordinates, parametric equations and three-dimensional space.

**Mathematics 126**  
**Introductory Calculus**  
5 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: Math 106 or Math 121 with departmental approval. Study of slopes, some aspects of analytic geometry, tangents, limits, derivatives, continuity, interpretations and applications, chain rule, implicit differentiation, higher derivatives, differentials, and integration.
Mathematics 130 (3)
Business Mathematics
3 hrs. Lec. (F, Sp, Su)
Prerequisite: DM 091 or the equivalent.
Skill in arithmetic essential. Simple and compound interest, bank discount, payrolls, taxes, insurance, markup and markdown, corporate securities, depreciation, and purchase discounts. This course is intended primarily for specialized occupational programs.

Mathematics 195 (3)
Technical Mathematics
3 hrs. Lec. (F, Su)
Prerequisite: DM 091 or the equivalent. A course designed for technical students covering a general review of arithmetic; a treatment of the basic concepts and the fundamental facts of plane and solid geometry, computations with the slide rule, units and dimensions, a treatment of the terminology and concepts of elementary algebra, functions, coordinate systems of simultaneous equations, stated problems, determinants, progression, and the binomial theorem.

Mathematics 196 (3)
Technical Mathematics
3 hrs. Lec. (Sp, Su)
Prerequisite: Math 195. A course for technical students which includes a study of the following: the trigonometric functions of angles, trigonometric identities, inverse trigonometric and inverse functions, trigonometric equations, complex numbers, logarithms, vectors, and the solution of triangles.

Mathematics 202 (3)
Introductory Statistics
3 hrs. Lec. (F, Sp)
Prerequisite: Two years of high school algebra, or Math 101 or Math 104 or Math 111 or equivalent. Study of collection and tabulation of data, bar charts, graphs, sampling, averages, dispersion, correlation, index numbers, normal curve, probability, and applications to various fields.

Mathematics 221 (3)
Linear Algebra
3 hrs. Lec. (Sp)
Prerequisite: Math 227 or equivalent. Study of matrices, linear equations, dot products, cross products, geometrical vectors, determinants, dimensional space, and linear transformation.

Mathematics 227 (4)
Mathematical Analysis I
4 hrs. Lec. (F)
Prerequisite: Mathematics 126 or equivalent. A continued study of techniques of differentiation and integration with respect to logarithmic and exponential functions, parametric equations, polar coordinates, hyperbolic functions and vectors.

Mathematics 228 (3)
Mathematical Analysis II
3 hrs. Lec. (Sp)
Prerequisite: Mathematics 227 or equivalent. A continued study of vectors, introduction to functions of several variables, multiple integrals, indeterminate forms, and infinite series.

Mathematics 230 (3)
Differential Equations
3 hrs. Lec. (Sp)
Prerequisite: Mathematics 228. A course in ordinary differential equations concerned with first order equations, singular solutions, and miscellaneous methods of solving and analyzing differential equations of first and higher order.

Music 101 (4)
Freshman Theory
3 hrs. Lec. (F)
3 hrs. Lab. (F)
Development and cultivation of musicianship skills, especially in the areas of tonal and rhythmic perception and articulation. Presentation of the essential elements of music; introduction to sight-singing, keyboard, and notation.

Music 102 (4)
Freshman Theory
3 hrs. Lec. (Sp)
3 hrs. Lab. (Sp)
Prerequisite: Music 101 or consent of instructor. Introduction to part-writing and harmonization with triads and their
inversions; classification of chords; seventh chords, sight-singing, dictation, and keyboard harmony.

Music 104  (3)
Music Appreciation
3 hrs. Lec.  (F, Sp, Su)
A concise survey of the basic elements of music and their application in the music literature of Western civilization, particularly from the Baroque to the present. Relevant cultural influences upon the music of each era are observed.

Music 105  (1)
Italian Diction
2 hrs. Lab.  (F, Sp)
A study of the phonetic sounds of the Italian language, with selected vocabulary and little or no conversation. Primarily for voice majors.

Music 106  (1)
French Diction
2 hrs. Lab.  (F, Sp)
A study of the phonetic sounds of the French language, with selected vocabulary and little or no conversation. Primarily for voice majors.

Music 110  (3)
Music Literature
3 hrs. Lec.  (F)
A course dealing with the characteristics of sound, the elements of music, performance media, and musical texture as seen in the music of recognized composers in the major periods of music history. Special emphasis is given to the music of the late Gothic, Renaissance, and Baroque eras.

Music 111  (3)
Music Literature
3 hrs. Lec.  (Sp)
Prerequisite: Music 110. A continuation of the studies introduced in Music 110. A study of the compositional procedures and forms employed by the creators of music. Attention is focused upon the music of the Classical, Romantic, and Modern periods.

Music 113  (3)
Foundations in Music I
3 hrs. Lec.  (F, Su)
Emphasis upon participation and the necessary skills for satisfactory performance in singing, playing an instrument, listening, creating rhythmic responses. Development of increasing ability to manage notation (music reading). Course designed specifically for the non-music major.

Music 114  (3)
Foundations in Music II
3 hrs. Lec.  (Sp)
Prerequisite: Music 113. A continuation of Music 113.

Music 117  (1)
Piano Class I
2 hrs. Lab.  (F, Sp)
Class instruction in the areas of basic musicianship and piano skills designed primarily for those with no knowledge in piano skills. Open to all students.

Music 118  (1)
Piano Class II
2 hrs. Lab.  (F, Sp)
Includes techniques, skills, harmonization, transposition, improvisation, accompanying, sightreading and performing various styles of repertoire. Open to all students.

Music 119  (1)
Guitar Class I
2 hrs. Lab.  (F, Sp)
Class instruction covering the basics of guitar skill, designed primarily for those with limited knowledge in the reading of music or playing the guitar. Open to all students.

Music 121-140  (1)
Applied Music-Minor  (F, Sp)
Private instruction in the student's secondary area. One half hour lesson a week. Open to students registered in music theory, ensembles, and other music major or minor courses. Special fee required.

Music 221-240  (2)
Applied Music-Concentration  (F, Sp)
Private instruction in the area of the student's concentration. Two half hour
lessons a week. Open to students registered in music theory, ensembles, and other music major or minor courses. Special fee required.

Music 251-270
Applied Music-Major
Private instruction in the area of the student's major instrument. Primarily for music performance majors. Two half hour lessons a week. Open to students registered in music theory, ensembles, and other music major or minor courses. Special fee required.

Music 150
Chorus
3 hrs. Lab. (F, Sp)
Prerequisite: Consent of instructor. Open to all students of the college, the chorus studies and performs a wide variety of music representing the literature of the great eras of music history.

Music 151
Voice Class I
2 hrs. Lab. (F)
A course teaching the principles of breathing, voice production, tone control, enunciation and phrasing. Two group lessons a week. Open to all non-voice majors.

Music 152
Voice Class II
2 hrs. Lab. (Sp)
A continuation of Music 151 with emphasis on solo singing, appearance in studio recital, stage deportment, personality development. Open to all non-voice majors. Two group lessons a week.

Music 155
Vocal Ensemble
3 hrs. Lab. (F, Sp)
A select group for mixed voices concentrating upon excellence of performance. Membership is open only to members of the chorus through an audition with the director.

Music 156
Madrigal Singers
3 hrs. Lab. (F, Sp)
Select group of vocalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 160
Band
3 hrs. Lab. (F, Sp)
Prerequisite: Non-wind instrument majors consent of the instructor. The band studies and performs a wide variety of music in all areas of band literature. Required of all wind instruments majors.

Music 171
Woodwind Ensemble
3 hrs. Lab. (F, Sp)
Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 172
Brass Ensemble
3 hrs. Lab. (F, Sp)
Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 173
Percussion Ensemble
3 hrs. Lab. (F, Sp)
Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 175
String Ensemble
3 hrs. Lab. (F, Sp)
Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 177
Chamber Ensemble
3 hrs. Lab. (F, Sp)
Select group of instrumentalists or vocalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 185
Stage Band
3 hrs. Lab. (F, Sp)
Prerequisite: Consent of instructor. The stage band studies and performs a wide
variety of music with emphasis on the jazz oriented big-band styles of the 1960's.

Music 199 (1)
Recital
1 hr. Lab. (F, Sp)
One period per week designed to allow students of private lessons an opportunity to perform before an audience. Required of all music students and open to all other other students.

Music 201 (4)
Sophomore Theory
3 hrs. Lec.
3 hrs. Lab. (F)
Prerequisite: Music 101-102 or by consent of instructor. A continuation of freshman theory, including a study of larger forms, thematic development, chromatic chords including the neapolitan sixth and augmented sixth chords, diatonic seventh chords with advanced sight-singing, keyboard harmony and ear training.

Music 202 (4)
Sophomore Theory
3 hrs. Lec.
3 hrs. Lab. (Sp)
Prerequisite: Music 201 or equivalent or by consent of instructor. A continuation of Music 201, including a study of sonata-allegro form, ninth, eleventh and thirteenth chords, exploration of new key schemes, Impressionism, melody, harmony, tonality, and formal processes as they apply to twentieth century music with a comparable advance in sight-singing, keyboard harmony and ear training.

Office Machines
(See Business 161)

Philosophy 102 (3)
Introduction to Philosophy
3 hrs. Lec. (F, Sp, Su)
A survey course designed to acquaint the student with some of the fundamental problems in philosophy and with methods used to deal with them. Some principle views, both ancient and modern, are examined as possible solutions.

Philosophy 105 (3)
Logic
3 hrs. Lec. (F, Sp, Su)
An analysis of the principles of logical thinking. An effort is made to apply logic's methods and tools to real life situations. Fallacies, definitions, analogies, syllogisms, Venn diagrams, and other topics are discussed.

Philosophy 203 (3)
Ethics
3 hrs. Lec. (F, Sp)
Prerequisite: Three hours of philosophy or consent of instructor. A survey of the classical and modern theories of the moral nature of man, posing alternative views of his responsibilities to self and society. The course is designed to verify the ethical issues and their metaphysical and epistemological bases so as to assist the student toward sound application of ethical principles in his own life.

Philosophy 207 (3)
History of Ancient Philosophy
3 hrs. Lec. (F, Sp)
Open to sophomores only. This course is an historical examination of philosophy from Presocratic times to the Renaissance. Connections between the Presocratics, Plato, and Aristotle will be drawn. Stoicism, Epicureanism, and Scholasticism will be considered.

Philosophy 208 (3)
History of Modern Philosophy
3 hrs. Lec. (F, Sp)
Open to sophomores only. A continuation of Philosophy 207. Starting with the Renaissance, it examines western philosophic thought through the 19th century. Special emphasis will be given Continental Rationalism, British Empiricism, Kantian metaphysics and epistemology, and the Hegelian system as it is related to 20th century philosophies. Emphasis will be placed on the historical relationship existing between these schools of thought.

Physical Education 100 (1)
Lifetime Sports Activities
3 hrs. Lab. (F, Sp, Su)
Students are provided an opportunity for participation and instruction in various lifetime sports. Selections may be made from archery, badminton, bowling, golf, handball, racquetball, softball, swim-
Physical Education 101 (3)
Fundamentals of Health
3 hrs. Lec. (F, Sp)
A study of personal and community health. Emphasis is placed on causative factors of various diseases, means of transmission and prevention. For majors and non-majors.

Physical Education 110 (3)
Community Recreation
3 hrs. Lec. (Sp)
Principles, organization, and the function of recreation in American society. Designed for students planning a major or minor in health, physical education or recreation.

Physical Education 111M (1)
Beginning Wrestling
2 hrs. Lab. (F, Sp)
Basic wrestling fundamentals, techniques, rules and strategy will be taught. Emphasis will also be placed upon spectator appreciation. Men only. Uniform and activity fee required.

Physical Education 112M (1)
Softball and Soccer
2 hrs. Lab. (F, Sp)
Designed to provide the student an opportunity for instruction and participation in softball and soccer. Uniform and activity fee required. Men only.

Physical Education 113 (1)
Handball and Racketball
2 hrs. Lab. (F, Sp)
A coeducational activity course designed to provide the student an opportunity for basic skills development in handball and racketball. Uniform and activity fee required.

Physical Education 114 (1)
Beginning Badminton
2 hrs. Lab. (F, Sp, Su)
A coeducational course designed to teach the history, rules, and beginning skills involved in the playing of badminton. Uniform and activity fee required.

Physical Education 115 (1)
Physical Performance
3 hrs. Lab. (F, Sp, Su)
This coeducational course is designed to diagnose and measure the student's physical condition and prescribe a program of exercise to carry with him through life. Much of the course work will be carried on in the physical performance laboratory. Uniform and activity fee required.

Physical Education 116 (1)
Intramural Athletics
2 hrs. Lab. (F)
A coeducational activity class designed to offer intramural competition in a variety of coeducational activities. Uniform and activity fee required.

Physical Education 117 (1)
Beginning Archery
2 hrs. Lab. (F, Sp, Su)
A coeducational class in beginning archery. Equipment furnished. No uniform required. Activity fee required.

Physical Education 118 (1)
Beginning Golf
2 hrs. Lab. (F, Sp, Su)
A coeducational class in beginning golf. Equipment furnished. No uniform required. Activity fee required.

Physical Education 119 (1)
Beginning Tennis
2 hrs. Lab. (F, Sp, Su)
A coeducational class designed for the beginner. Basic tennis fundamentals will be stressed. Uniform and activity fee required.

Physical Education 120 (1)
Beginning Bowling
2 hrs. Lab. (F, Sp, Su)
A coeducational class in beginning bowling. Held off campus. Equipment furnished. No uniform required. Special bowling fee required.
Physical Education 122  (1)  Gymnastics and Tumbling
2 hrs. Lab.  (F, Sp)
A coeducational class in tumbling, horizontal bar, parallel bars, rings and trampoline. Uniform and activity fee required.

Physical Education 125W  (1)  Figure Training
3 hrs. Lab.  (F, Sp, Su)
A course for women designed to develop an understanding of controlling body weight and muscular development through vigorous rhythmical activities. Uniform and activity fee required.

Physical Education 127M  (1)  Basketball and Volleyball
2 hrs. Lab.  (F, Sp)
Techniques, rules, and strategy of the game will be taught and the emphasis will be on playing the game. Uniform and activity fee required. Men only.

Physical Education 127 W  (1)  Basketball and Volleyball
2 hrs. Lab.  (F, Sp)
Techniques, rules, and strategy of the game will be taught and the emphasis will be on playing the game. Uniform and activity fee required. Women only.

Physical Education 128  (1)  Social and Folk Dance
2 hrs. Lab.  (Sp)
A coeducational, beginning class in social and folk dance. No uniform required. Activity fee required.

Physical Education 129  (1)  Modern Dance
2 hrs. Lab.  (F, Sp)
Coeducational, beginning class in modern dance. Uniform and activity fee required.

Physical Education 144  (3)  Introduction to Physical Education
3 hrs. Lec.  (F, Sp)
Designed for professional orientation in physical education, health and recreation. Brief history, philosophy and modern trends of physical education, teacher qualification, vocational opportunities, expected competencies, and skill testing comprise the contents of the course. For students majoring in physical education.

Physical Education 147  (3)  Sports Officiating I
2 hrs. Lec.
2 hrs. Officiating  (F)
This course is especially designed for those students who would like to choose sports officiating for an avocation and/or to increase knowledge in and appreciation of sports. Sports covered in this course will be football and basketball. As part of the course requirement students will be expected to officiate intramural games.

Physical Education 148  (3)  Sports Officiating II
2 hrs. Lec.
2 hrs. Officiating  (Sp)
This course is especially designed for those students who would like to choose sports officiating for an avocation and/or to increase knowledge in and appreciation of sports. Sports covered in this course will be softball, track and field, and baseball.

Physical Education 217  (1)  Intermediate and Advanced Archery
2 hrs. Lab.  (F, Sp, Su)
This course is designed for the student who has had previous experience in archery and who would like to engage in target shooting and field archery. The student furnishes equipment, and no uniform is required. Activity fee required.

Physical Education 218  (1)  Intermediate and Advanced Golf
2 hrs. Lab.  (F, Sp, Su)
Prerequisite: Permission of instructor. A course designed to develop skills and techniques beyond the "beginner" stage. Activity fee required.
Physical Education 219 (1)
Intermediate and Advanced Tennis
2 hrs. Lab. (F, Sp, Su)
Prerequisite: Permission of instructor. A course designed to develop skills and techniques beyond the "beginner" stage. Uniform and activity fee required.

Physical Education 222
Intermediate and Advanced Gymnastics
2 hrs. Lab. (F, Sp)
Prerequisite: Physical Education 122 or permission of instructor. Designed for those students who wish to pursue gymnastic training at a more advanced level. Emphasis on gymnastic routines and use of apparatus. Uniform and activity fee required.

Physical Education 257 (3)
Standard and Advanced First Aid
3 hrs. Lec. (F, Sp, Su)
Theory and practice in the standard and advanced courses of the American National Red Cross in first aid and safety.

Physical Science 115 (3)
Physical Science
3 hrs. Lec. (F, Sp, Su)
A study of the basic principles and concepts of physics, chemistry and nuclear science. The course relates these basic sciences to man's physical world at an introductory level. This course is intended primarily for the non-science major. Laboratory fee required.

Physics 111 (4)
Introductory General Physics
3 hrs. Lec. (F, Su)
Prerequisite: DM 093. The first semester of a two semester course designed for pre-dental, pre-nursing, pre-pharmacy, and pre-architecture majors and other students who require a two semester technical course in physics but do not intend to take additional courses in physics. The first half is a study of mechanics and heat. Laboratory fee required.

Physics 112 (4)
Introductory General Physics
3 hrs. Lec. (Sp, Su)
Prerequisite: Physics 111. A continuation of Physics 111 which includes the study of electricity, magnetism, light, and sound. Laboratory fee required.

Physics 131 (4)
Applied Physics
3 hrs. Lec. (F, Su)
Prerequisite: Math 195 or concurrent enrollment in Math 195. The first half of a one year course designed to explain the basic concepts of the property of matter, mechanics, heat, sound, light, electricity, magnetism, and atomic theory with emphasis on applications and problem solving. Designed primarily for students enrolled in technical programs. Laboratory fee required.

Physics 132 (4)
Applied Physics
3 hrs. Lec. (Sp, Su)
Prerequisite: Physics 131. A continuation of Physics 131. Laboratory fee required.

Physics 201 (4)
General Physics
3 hrs. Lec. (Sp)
Prerequisite: Credit for or concurrent registration in Mathematics 126. Principles and application of mechanics, wave motion, and sound emphasizing fundamental concepts, problem solving, notation, and units. Designed primarily for physics, chemistry, mathematics, pre-med and engineering majors. Laboratory fee required.
Physics 202 (4)
General Physics
3 hrs. Lec.
3 hrs. Lab. (F)
Prerequisite: Physics 201 and credit or concurrent registration in Mathematics 227. Principles and applications of heat, electricity, magnetism and optics emphasizing fundamentals, concepts, problem solving, notation and units. Laboratory fee required.

Physics 203 (4)
Introduction to Modern Physics
3 hrs. Lec.
3 hrs. Lab. (Sp)
Prerequisite: Physics 202. Principles of relativity, atomic and nuclear physics with emphasis on fundamental concepts, problem solving, notation, and units.

Psychology 105 (3)
Introduction to Psychology
3 hrs. Lec. (F, Sp, Su)
A study of basic problems and principles of human experience and behavior; heredity and environment, the nervous system, motivation, learning, emotions, thinking and intelligence.

Psychology 131 (3)
Human Relations
3 hrs. Lec. (Sp)
A study involving the direct application of psychological principles to human relations programs in business and industry. Consideration is given to group dynamics and adjustment factors related to employment and advancement. The presentation will be tailored to fit the needs of the students enrolled in each section.

Psychology 201 (3)
Human Growth and Development
3 hrs. Lec. (F, Sp, Su)
Prerequisite: Psychology 105. A study of human growth, development and behavior, emphasizing the psychological changes which occur during the life pattern. The processes of life from prenatal beginnings to adulthood are treated in an integrated manner. Due attention is given to aging and its place in the developmental sequence.

Psychology 202 (3)
Applied Psychology
3 hrs. Lec. (Sp)
Prerequisite: Psychology 105. A course designed for the application of psychological facts and principles to problems and activities of life. Special emphasis will be placed on observing, recording and modifying human behavior. Some off-campus work will be required.

Psychology 205 (3)
Psychology of Personality
3 hrs. Lec. (F, Sp, Su)
Prerequisite: Psychology 105. A consideration of the important factors involved in successful human adjustment including child-parent relationships, adolescence, anxiety states, mechanisms of defense and psychoanalytic concepts. The course includes a survey of methods of personality measurement.

Psychology 207 (3)
Social Psychology
3 hrs. Lec. (F, Sp)
Prerequisite: Psychology 105 and/or Sociology 101. A survey of the research and theories dealing with individual behavior in the social environment. Topics include socio-psychological process, attitude formation and change, interpersonal relations, and group processes. The student may register for either Psychology 207 or Sociology 207.

Psychology 209 (3)
General Psychology
3 hrs. Lec. (F)
Prerequisite: Psychology 105. An in-depth survey of behavior, including learning, motivation, perception, and emotion. An introduction to behavioral research, data collecting and analysis will be included. (Recommended for psychology majors.)
Quality Control Technology 131 (3)  
Introduction to Quality Control  
3 hrs. Lec.  (F)  
This course traces the elements of quality control through the product life-cycle from research, to development, to purchasing, to production, to testing and finally to customer use. A study of the scope and function of quality will be made, including regulations, records, quality control manuals and specifications, including government publications. Fundamentals of the engineering of quality control and fundamentals of engineering as applied to quality control problems and procedures will be emphasized.

Quality Control Technology 132 (4)  
Quality Control Measurement I  
3 hrs. Lec.  2 hrs. Lab.  (Sp)  
This course provides an opportunity to get practical and theoretical understanding of many types of mechanical, chemical and optical measuring devices.

Quality Control Technology 133 (4)  
Statistical Quality Control I  
3 hrs. Lec.  2 hrs. Lab.  (Sp)  
This course is devoted to the interpretation and use of quality control data. Study is made of the laws of probability as related to sampling inspection; risk of rejections; risk of acceptance; control charts and statistical tolerancing. The development of fundamental statistical theory will be practiced by calculating standard deviation, plotting frequency distribution curves, operating characteristic curves, as well as other tools used in determining product variability.

Quality Control Technology 231 (3)  
Quality Control Systems I  
3 hrs. Lec.  (F)  
This course deals with overall concept of quality control industry and managerial methods of applying concepts in an actual situation. Data gathering systems are studied such as measurements and inspection; how data is presented and used in decision making.

Quality Control Technology 232 (3)  
Quality Control Systems II  
3 hrs. Lec.  (Sp)  
Prerequisite: Quality Control Technology 231. This course covers the formulation and management of a quality control department. Study will be made of the systems and procedures necessary to operate the quality element of the manufacturing process. Studies in budgeting, manpower, quality control policy, information feed-back and process engineering will also be discussed.

Quality Control Technology 234 (3)  
Industrial Organizations and Operations  
3 hrs. Lec.  (F, Su)  
Gives the student an overall viewpoint of a manufacturing organization. Topics are from the areas of process planning, quality control, plant layout, motion and time study, safety, use of computers in manufacturing, costs and budgets, marketing and personnel.

Quality Control Technology 235 (4)  
Statistical Quality Control II  
3 hrs. Lec.  2 hrs. Lab.  (F)  
This course deals with advanced statistical techniques such as process capability analysis, tests of hypotheses, product reliability prediction, tests of normality, analysis of variance and design of experiments. The mastery of these more advanced statistical tools will be achieved by application in a laboratory environment. Laboratory fee required.

Quality Control Technology 236 (4)  
Quality Control Measurement II  
3 hrs. Lec.  2 hrs. Lab.  (F)  
This course is devoted to acquiring a practical understanding of electrical measuring devices and their application to circuit analysis. Some topics included are: resistance bridge, standard resistance comparator, phase measurement, diode voltage references and potentiometers. Laboratory fee required.

Quality Control Technology 237 (4)  
Quality Control Measurement III  
3 hrs. Lec.  2 hrs. Lab.  (Sp)  
Provides a basic background in product and materials testing for quality control.
Included are physical, non-destructive and environmental testing. Emphasis is given to the methods used to predict product and materials performance and to the proper use of each test. Advantages and limitations of testing methods are reviewed. Laboratory fee required.

**Reading 101**  
(3)  
Advanced Reading  
3 hrs. Lec. and Lab.  
(F, Sp, Su)  
*Prerequisite: Successful completion of DR 091 or equivalent.* Advanced Reading 101 emphasizes the development of advanced techniques in reading for pleasure as well as for information. Improved reading comprehension, vocabulary development, and flexibility of reading rate are stressed. In addition, advanced techniques for note-taking, exam-taking, studying, and reading for specialized content areas are developed.

**Religion 101**  
(3)  
Religion in American Culture  
3 hrs. Lec.  
(F)  
A systematic examination of religion in American culture. Emphasis will be upon the interaction of religion with politics, economics, the military, education, the arts and other cultural phenomena.

**Religion 102**  
(3)  
Contemporary Religious Problems  
3 hrs. Lec.  
(Sp)  
An analysis of the background and present expression of basic problems in religion, e.g. the problem of belief, the nature of religious literature, the existence of God, evil, human destiny and the relation of religion to society and the arts. Both Western and Eastern traditions will be considered.

**Social Science 132**  
(3)  
American Civilization  
3 hrs. Lec.  
(Sp)  
A continuation of Social Science 131.

**Sociology 101**  
(3)  
An Introduction to Sociology  
3 hrs. Lec.  
(F, Sp, Su)  
An inquiry into the nature of society and the foundations of group life, including institutions, with a broad presentation of the bases of social change, processes and problems.

**Sociology 102**  
(3)  
Social Problems  
3 hrs. Lec.  
(F, Sp)  
*Prerequisite: Sociology 101.* A study of the background, emergence and scope of current group relationships in our society, emphasizing topics as they apply to social adjustment in the family and the total community environment.

**Sociology 203**  
(3)  
Marriage and the Family  
3 hrs. Lec.  
(F, Sp, Su)  
*Prerequisite: Sociology 101 or permission of division chairman.* An analysis of courtship patterns, marriage and family forms, relationships and functions and socio-cultural differences in family behavior.
Sociology 204  
American Minorities  
3 hrs. Lec.  
(F, Sp)  
Prerequisite: Sophomore standing or Sociology 101 recommended. The principal minority groups in American society; their sociological significance and historic contributions. An emphasis will be placed on problems of intergroup relations, social movements and related social changes occurring on the contemporary American scene.

Sociology 207  
Social Psychology  
3 hrs. Lec.  
(F, Sp)  
Prerequisite: Psychology 105 and/or Sociology 101. A survey of the research and theories dealing with individual behavior in the social environment. Topics include socio-psychological process, attitude formation and change, intrapersonal relations, and group processes. The student may register for either Psychology 207 or Sociology 207.

Spanish 101  
Beginning Spanish  
3 hrs. Lec.  
(F, Sp, Su)  
Prerequisite: Spanish 101 or equivalent. Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension, and oral expression. Laboratory fee required.

Spanish 102  
Beginning Spanish  
3 hrs. Lec.  
(F, Sp)  
Prerequisite: Spanish 101 or equivalent. Continuation of Spanish 101 with emphasis on idiomatic language and complicated syntax. Laboratory fee required.

Spanish 201  
Intermediate Spanish  
3 hrs. Lec.  
(F)  
Prerequisite: Spanish 102 or equivalent or consent of the instructor. Reading, composition, grammar review and intense oral practice.

Spanish 202  
Intermediate Spanish  
3 hrs. Lec.  
(Sp)  
Prerequisite: Spanish 201 or equivalent. Continuation of Spanish 201 with reading selections drawn more directly from contemporary literary sources. Composition.

Speech 100  
Speech Laboratory  
3 hrs. Lab.  
(F)  
A laboratory course for the preparation of speeches, reading of dialogue from literature, and debate propositions which will be presented throughout the community. May be repeated for one additional hour of credit each semester.

Speech 105  
Fundamentals of Public Speaking  
3 hrs. Lec.  
(F, Sp, Su)  

Speech 109  
Voice and Articulation  
3 hrs. Lec.  
(F, Sp)  
Prerequisite: Speech 105 or consent of instructor. A study of the mechanics of speech applied to improvement of the individual's voice and pronunciation.

Speech 110  
Readers Theatre Workshop  
2 hrs. Lab.  
(F, Sp)  
Prerequisite: Consent of the instructor. A laboratory course for the preparation and presentation of scripts, readings, and book reviews, collecting and arranging all types of literature for group interpretation and performance. May be repeated once for credit.

Speech 206  
Oral Interpretation  
3 hrs. Lec.  
(F)  
Prerequisite: Speech 105. A study of fundamental techniques of analyzing various types of literature, and practice in preparing and presenting selections orally. Emphasis on individual improvement.
Speech 207 (3)
Advanced Oral Interpretation
3 hrs. Lec.
Prerequisite: Speech 105 and 206. Application of basic principles of interpretation to longer selections of literature; more detailed analysis and arranging of poetry and prose for various types of multiple reading situations including choral speaking and reader's theatre. Investigation of all types of literature which are suited to group interpretation work.

Teacher Aide 129 (3)
Communication Skills for Teacher Aides
3 hrs. Lec.
This course is designed to test and enhance the teacher aide's basic communication skills in reading, writing, speaking, and listening. It will also include a survey of techniques and methods for encouraging the development of these language skills in the students with whom the aide works. Creative writing, storytelling, and appreciation of literature, tutoring techniques for reading and writing, cursive and manuscript handwriting will be included in the language skills emphasized.

Teacher Aide 131 (3)
Teacher Aide Techniques I
3 hrs. Lec.
The primary purpose of this course is to define the role of the teacher aide within the school structure and to develop an understanding of the organization and administration of the public school system. Special attention will be given to the development of effective interpersonal relationships. Through direct experiences with students on a one-to-one basis, the teacher aide trainee will observe and study the developmental patterns of students. A study will be made of the general principles of human growth and development.

Teacher Aide 133 (3)
Teacher Aide Techniques II
3 hrs. Lec.
This course is designed to further develop the teacher aide trainees understandings, skills and attitudes in providing a wholesome learning environment in the classroom. The facilitation of learning with small groups of students will be emphasized through didactic and field experiences. The unique factors affecting the growth and development of inner-city students will be emphasized along with a study of the teacher aide responsibilities as a member of the educational team.

Teacher Aide 135 (3)
Arts and Crafts for Teacher Aides
3 hrs. Lec.
Prerequisite: Acceptance as a member of the cast or crew of a major production. Participation in the class includes the rehearsal and performance of the current theatrical presentation of the division. Students will be enrolled by the director upon being accepted for participation in a major production. Credit limited to one hour per semester.

Theatre 100 (1)
Rehearsal and Performance
F, Sp
Prerequisite: Acceptance as a member of the cast or crew of a major production. Participation in the class includes the rehearsal and performance of the current theatrical presentation of the division. Students will be enrolled by the director upon being accepted for participation in a major production. Credit limited to one hour per semester.

Theatre 101 (3)
Introduction to the Theatre
F, Su
A general survey designed to acquaint the student with the various aspects of theatre, plays and playwrights, directing and acting, artists, and technicians.

Theatre 102 (3)
Contemporary Theatre
Sp
A study of the modern theatre and cinema as art forms, with attention to the historical background and traditions of each. Emphasis is placed on a better understanding of the social, cultural, and aesthetic significance of these media in today's life. Includes the reading of a number of modern plays and the viewing of specially selected films.
Theatre 103
Stagecraft I
2 hrs. Lec.
3 hrs. Lab. (F)
A study of the technical aspects of play production including set design and construction, stage lighting, make-up, costuming, and related areas.

Theatre 104
Stagecraft II
2 hrs. Lec.
3 hrs. Lab. (Sp)
Prerequisite: Theatre 103 or consent of instructor. A continuation of Theatre 103 with emphasis on individual projects in set and lighting design and construction, including further exploration of the technical aspects of play production.

Theatre 106
Acting I
2 hrs. Lec.
3 hrs. Lab. (F)
Individual and group activity with theory and exercises in bodily control, voice, pantomime, interpretation, characterization, and stage movement. Analysis and study of specific roles for stage presentation.

Theatre 107
Acting II
2 hrs. Lec.
3 hrs. Lab. (Sp)
Prerequisite: Theatre 106 or consent of instructor. Continuation of Theatre 106 with emphasis on problems of complex characterization, ensemble acting, stylized acting and acting in period plays.

Theatre 108
Movement for the Stage
1 hr. Lec.
4 hrs. Lab. (F)
A study of movement as a pure form as well as its relation and integration with the theatre arts. The course will include movement as a technique to control balance, rhythm, strength, and flexibility. Movement will be explored as it is used in all the theatrical forms and in development of characterization. May be repeated for credit.

Theatre 109
Voice and Articulation
3 hrs. Lec. (F, Sp)
Same as Speech 109.

Theatre 110
History of Theatre I
3 hrs. Lec. (F)
Survey of theatre from its beginning through the sixteenth century. Study of the theatre in each period as a part of the total culture of the period.

Theatre 111
History of Theatre II
3 hrs. Lec. (Sp)
Development of the theatre from the seventeenth century through the twentieth century.

Theatre 115
Mime
1 hr. Lec.
2½ hrs. Lab. (F, Sp)
Prerequisite: Theatre 106. Exploration of the expressive significance and techniques of mime.

Typing
(See Business 173, 174)
Eastfield College
Accounting Technician
Air Conditioning and Refrigeration Technology
Auto Body
Automotive Technology
Child Development
Diesel Mechanics
Digital Electronics Technology
Drafting and Design Technology
Graphic Arts
Human Services
Mid-Management
Recreational Leadership
Secretarial Careers
Training Para-Professionals for the Deaf
Transportation Technology

El Centro College
Accounting Technician
Apparel Design
Architectural Technology
Associate Degree Nursing
Data Processing Programmer
Dental Assisting Technology
Drafting and Design Technology
Environmental Technology
Fire Protection Technology
Food Service — Dietetic Technician
Food Service Operations
Interior Design
Library Technical Assistant
Medical Assisting Technology
Medical Laboratory Technician
Program
Medical Transcriptionist
Mid-Management
Office Skills and Systems
Pattern Design
Police Science
Radiologic Technology
Respiratory Therapy Technology
Secretarial Careers
Teacher Aide
Television and Radio Servicing
Vocational Nursing

Mountain View College
Accounting Technician
Aviation Administration
Avionics Technology
Drafting and Design Technology
Electronics Technology
Educational Office Occupations
Horology (Watch Repair)
Human Services
Industrial Welding
Machine Shop
Mid-Management
Pilot Technology
Plastics Management and Technology
Plastics Technology
Secretarial Careers
Teacher Aide

Richland College
Accounting Technician
Construction Management and Technology
Electro-Mechanical Technology
Fluid Power Technology
Human Services
Mid-Management
Ornamental Horticulture
Quality Control Technology
Secretarial Careers
Administrative
Educational
Executive
General
Office Skills and Systems
Teacher Aide
Technical-Occupational Programs Offered by Tarrant County Junior Colleges Available to Dallas County Residents

Dallas County residents may enroll in the below-listed programs at the appropriate Tarrant County Junior College at the Tarrant County resident's tuition rate. This reciprocal arrangement does not apply to programs of instruction which are filled to capacity with Tarrant County students.

Northeast Campus Courses

Civil Technology
Dental Hygiene
Fashion Merchandising
Food Marketing
General Clerical (one year)
General Office Occupations
Instructional Media
Legal Secretarial
Technical Illustration

South Campus Courses

Aviation Technology
   (aircraft mechanic)
Appliance Service
Broadcast Communications
   Technology
General Clerical (one year)
General Office Occupations
Legal Secretarial
Medical Secretarial
Accounting Technician (1-year program)

The objective of this program is to provide the student with a working knowledge of bookkeeping procedures currently in use in business; to introduce the student to accounting principles supporting bookkeeping procedures; and to give the student practical bookkeeping experience by the use of problem solving. Certificate awarded upon completion.

Curriculum Pattern

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lec Hrs</th>
<th>Lab Hrs</th>
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*Recommended Electives:

- BUS 162—Secretarial Training
- PSY 105—Introduction to Psychology
- PSY 131—Human Relations
This program prepares the student for employment as a technician in a wide range of construction industry applications. Course content is designed to provide meaningful experiences in the construction industry at the management and site coordination level. Successful completion of this program leads to the Associate in Applied Arts and Sciences Degree.

### Curriculum Pattern

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<td>CMT 134—Construction Methods and Equipment</td>
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<td>CMT 138—Construction Management I</td>
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<td>EGR 188—Statics</td>
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<td>CMT 136—Surveying and Measurements</td>
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<td>CMT 237—Soils, Foundations, and Reinforced Concrete</td>
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<td>CMT 239—Building Codes and Safety</td>
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<td>CMT 233—Estimating</td>
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<td>CMT 231—Contracts and Specifications</td>
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<td>CMT 238—Construction Management II</td>
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<td>CMT 232—Structures</td>
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<td>EGR 189—Strength of Materials</td>
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</table>
Electro — Mechanical Technology

This two-year program is designed to prepare the student for entry into industrial manufacturing or service work at the technician level. Emphasis is placed on an understanding of electro-mechanical systems, as well as practical experience in a laboratory setting. Successful completion of the program leads to the Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

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<tr>
<th>Semester</th>
<th>Course</th>
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<th>Lab. Hrs.</th>
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<td>EMT 237—Systems Laboratory</td>
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<td>MTH 196—Technical Mathematics</td>
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<td>FLP 231—Fluid Power Circuitry</td>
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<td>FLP 132—Applied Fluid Mechanics</td>
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<tr>
<td>CHM 115—General Chemistry</td>
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Fluid Power Technology

This program is designed to prepare the student for entry-level employment into various industrial applications of fluid power. Both hydraulic and pneumatic systems are studied in a theory and laboratory setting. Successful completion of this two-year program leads to the Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

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<th>Semester</th>
<th>Course</th>
<th>Lec Hrs</th>
<th>Lab Hrs</th>
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*Recommended Electives:
- MTH 196—Technical Mathematics II
- CHM 115—Applied Chemistry
- CS 175—Introduction to Computer Science
- EGR 106—Descriptive Geometry
Human Services

This two-year program will develop competencies for students to enter employment in para-professional positions as social service assistants in various social and mental health agencies. The first year of the program consists of a basic "core curriculum" followed by a "branching" into either social worker assistant or mental health assistant options in the second year of the program.

Curriculum Pattern
First Year Core

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<th>Lab. Hrs.</th>
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*Recommended electives for first year:

- HD 106
- SS 132
- BUS 173
- BIO 116
- HUM 101
- SPE 105
- SPA 101
- PEH 110
- PEH 257
- PEH 101
- DM 090
- DM 091
- RD 101
### Human Services (Mental Health Assistant Option)
#### Curriculum Pattern
##### Second Year

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### Human Services (Social Worker Assistant Option)
#### Curriculum Pattern
##### Second Year

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81
Mid-Management

This program in business management is designed to develop the fundamental skills, knowledge, attitudes and experiences which enable men and women to function in decision-making positions as supervisors or junior executives. Successful completion of the program leads to the Associate in Applied Arts and Sciences Degree.

**Curriculum Pattern**

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*Recommended Electives:*
- BUS 161—Office Machines
- CS 175—Introduction to Computer Science
- PSY 105—Introduction to Psychology
- PSY 131—Human Relations
- SPE 105—Fundamentals of Public Speaking
Ornamental Horticulture Technology (Greenhouse Florist Option)

This option prepares a student to enter the wholesale florist industry. The student may direct his training toward his own goals through the selection of appropriate electives and occupational experience. The program places emphasis on those skills required for success in wholesale greenhouse flower production, retail floral design and sales, and retail greenhouse florist production and sales. Upon graduation, a student is qualified to enter a wide number of positions in crop production, sales and distribution, floral design and flower shop management. Successful completion of this option will lead to an Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

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*Evening Division Course*
Ornamental Horticulture Technology (Landscape Nursery Option)

This option prepares a student to enter both the landscaping industry and the nursery industry at a technician level. The student may direct his training toward his own goals through the selection of electives and occupational experiences. The course places emphasis on those skills required for success in landscape service, nursery production and sales, and landscaping planning and contracting business. A student who completes this training is also well prepared for work in park and recreation departments, shopping center malls and industrial parks and gardens. The successful completion of this option leads to an Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

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<td><strong>Total for Fall Semester</strong></td>
<td>16</td>
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<tr>
<td>Spring</td>
<td>HLN 232</td>
<td>Landscape Design II</td>
<td>2</td>
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<tr>
<td></td>
<td>HLN 237</td>
<td>Horticulture Sales</td>
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<tr>
<td></td>
<td>HLN 234</td>
<td>Ornamental Crop Production</td>
<td>2</td>
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<tr>
<td></td>
<td>HLN 239</td>
<td>Applied Horticulture Training</td>
<td>0</td>
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<tr>
<td></td>
<td>BUS 131</td>
<td>Bookkeeping</td>
<td>3</td>
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<tr>
<td></td>
<td>HLN 240</td>
<td>Seminar in Horticulture Occupations</td>
<td>2</td>
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<td><strong>Total for Spring Semester</strong></td>
<td>17</td>
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</tbody>
</table>
Ornamental Horticulture Technology (Florist Certificate)

This program prepares the student to enter positions in floral design, retail flower shop operations, and sales and distribution of flowers and florist supplies. Through the selection of electives and occupational experiences the student can guide his training toward specific jobs. Upon successful completion of the required courses the student will be eligible to receive a Florist Certificate.

Curriculum Pattern

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>*HLN 141—Floral Design</td>
<td>2</td>
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<td>4</td>
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<tr>
<td>HLN 132—Landscape Plant Materials I</td>
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<tr>
<td>ART 110—Basic Design I</td>
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<tr>
<td>BUS 105—Introduction to Business</td>
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<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
</tr>
</thead>
<tbody>
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<tr>
<td>HLN 133—Landscape Plant Materials II</td>
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<td>HLN 140—Herbaceous and Exotic Plants</td>
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<tr>
<td>HLN 239—Applied Horticulture Training</td>
<td>0</td>
<td>10</td>
<td>2</td>
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<tr>
<td>BUS 131—Bookkeeping</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>HLN 240—Seminar in Horticulture Occupations</td>
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</tbody>
</table>

*Evening Division Course

Ornamental Horticulture Technology (Landscape Gardener Certificate)

This program prepares the student to enter positions in landscape construction, park maintenance, home landscape and garden services and garden center and nursery sales. Through the selection of electives and occupational experiences the student can guide his training toward specific jobs. Upon successful completion of the required courses the student will be eligible to receive a Landscape Gardener Certificate.

Curriculum Pattern

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>HLN 132—Landscape Plant Materials I</td>
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<td>HLN 231—Landscape Design I</td>
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<td>BUS 105—Introduction to Business</td>
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<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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<td>HLN 136—Horticulture Structures</td>
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<td>HLN 140—Herbaceous and Exotic Plants</td>
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</tr>
<tr>
<td>HLN 237—Horticulture Sales</td>
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<tr>
<td>HLN 239—Applied Horticulture Training</td>
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<td>HLN 240—Seminar in Horticulture Occupations</td>
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</table>

15
Quality Control Technology

This program prepares the student with no previous experience in quality control for an entry level position as a quality control technician. A student having previous quality control experience will be able to upgrade his skills and knowledge in order to qualify himself for advancement in his chosen field. Successful completion of the program leads to the Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Description</th>
<th>Lec. Hrs</th>
<th>Lab. Hrs</th>
<th>Credit Hrs</th>
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<tbody>
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<td><strong>Fall Semester</strong></td>
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<tr>
<td>QCT 131—Introduction to Quality Control</td>
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<tr>
<td>DFT 182—Technician Drafting, or</td>
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<tr>
<td>*EGR 105—Engineering Graphics</td>
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<tr>
<td>EGR 186—Manufacturing Processes</td>
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<td>MTH 195—Applied Mathematics</td>
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<td>PHY 131—Applied Physics, or</td>
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<td>EMT 130—Electrical Circuits</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>QCT 132—Quality Control Measurement I</td>
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<tr>
<td>QCT 133—Statistical Quality Control</td>
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<tr>
<td>EGR 187—Manufacturing Processes</td>
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<td>*CHM 115—General Chemistry</td>
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<td><strong>Fall Semester</strong></td>
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<td></td>
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<td>QCT 231—Quality Control Systems I</td>
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<td>QCT 234—Industrial Organizations and Operations</td>
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<td>QCT 235—Statistical Quality Control II</td>
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<tr>
<td>*QCT 236—Quality Control Measurements II</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>QCT 232—Quality Control Systems II</td>
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<td>QCT 237—Quality Control Measurements III</td>
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<td>PSY 131—Human Relations</td>
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<tr>
<td>COM 131—Applied Composition and Speech</td>
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<tr>
<td>Elective</td>
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</tbody>
</table>

*For students choosing the chemical and physical testing path, these courses will be replaced by CHM 101, 102, 103.

Recommended Electives:

**Electro-Mechanical Products Path**
- EMT 132—Electronics I
- EMT 135—Mechanical Components and Mechanisms
- EMT 232—Electronics II
- EMT 233—Electrical Machinery
- EMT 234—Electrical Mechanical Devices and Systems I

**Chemical and Physical Testing Path**
- CHM 201—Organic Chemistry
- CHM 202—Organic Chemistry
- CHM 116—General Chemistry

**Chemical and Physical Testing Path**
- BUS 206—Principles of Marketing
- BUS 230—Salesmanship
- BUS 234—Business Law

**Supervision and Management Path**
- BUS 136—Principles of Management
- BUS 201—Principles of Accounting

86
**Secretarial Careers**

**Educational Secretary (Two Years)**
This program is designed to provide a sound educational basis for persons already employed or for persons desiring to enter employment in the field of education. Special emphasis will be placed on practical business methods, record-keeping, psychology of education and human relations. Upon completion of the courses in the curriculum pattern listed below, the student receives an Associate in Applied Arts and Sciences Degree.

**Curriculum Pattern**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BUS 131—Bookkeeping</td>
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<td>BUS 161—Office Machines</td>
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<tr>
<td>BUS 163—Beginning Shorthand</td>
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<tr>
<td>BUS 140—Educational Processes</td>
<td>3</td>
<td>0</td>
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<tr>
<td>BUS 174—Intermediate Typing</td>
<td>1</td>
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<td>2</td>
</tr>
<tr>
<td>COM 131—Applied Composition and Speech or ENG 101—Composition and Expository Reading</td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BUS 160—Machine Transcription</td>
<td>3</td>
<td>0</td>
<td>3</td>
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<tr>
<td>BUS 162—Secretarial Training</td>
<td>3</td>
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</tr>
<tr>
<td>BUS 164—Intermediate Shorthand</td>
<td>2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>HUM 101—Introduction to Humanities or PSY 105—Introduction to Psychology or SOC 101—Introduction to Sociology</td>
<td>3</td>
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<td>*Elective</td>
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</table>

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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</thead>
<tbody>
<tr>
<td>BUS 231—Business Correspondence</td>
<td>3</td>
<td>0</td>
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<tr>
<td>BUS 263—Advanced Shorthand or MTH 130—Business Mathematics or LT 131—Introduction to Libraries</td>
<td>2</td>
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<tr>
<td>COM 132—Applied Composition and Speech or ENG 102—Composition and Literature</td>
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<tr>
<td>SS 131—American Civilization or HST 101—History of the United States</td>
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<td>0</td>
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<tr>
<td>BUS 273—Advanced Typing</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>BUS 141—Current Practical Problems</td>
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<tr>
<td>PSY 131—Human Relations</td>
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</tr>
<tr>
<td>SS 132—American Civilization or HST 102—History of the United States</td>
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<tr>
<td>CS 175—Introduction to Computer Science</td>
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</tr>
<tr>
<td>*Elective</td>
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</tbody>
</table>

*Recommended Electives:*
- BUS 105—Introduction to Business
- LT 132—Introduction to Media
- BUS 264—Shorthand Transcription
- PEH 257—Standard and Advanced First Aid

87
General Secretary (Two Years)

The purpose of this program is to prepare students to become alert and responsive secretaries capable of performing the tasks required of them in the modern business office. Suggested electives are such that students may take courses which will allow specialties in secretarial areas such as law, selling, advertising, and accounting. Successful completion of the program leads to the Associate in Applied Arts and Sciences Degree.

Curriculum Pattern

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 105—Introduction to Business</td>
<td>3</td>
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<td>3</td>
</tr>
<tr>
<td>BUS 131—Bookkeeping</td>
<td>3</td>
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</tr>
<tr>
<td>BUS 161—Office Machines</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>BUS 163—Beginning Shorthand</td>
<td>3</td>
<td>2</td>
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</tr>
<tr>
<td>BUS 174—Intermediate Typing</td>
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<td>2</td>
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<tr>
<td>COM 131—Applied Composition &amp; Speech or ENG 101—Composition &amp; Expository Reading</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>BUS 160—Machine Transcription</td>
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<tr>
<td>BUS 162—Secretarial Training</td>
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<tr>
<td>BUS 164—Intermediate Shorthand</td>
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<tr>
<td>BUS 231—Business Correspondence</td>
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<tr>
<td>BUS 273—Advanced Typing</td>
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<table>
<thead>
<tr>
<th>Fall Semester</th>
<th></th>
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<tbody>
<tr>
<td>BUS 263—Advanced Shorthand</td>
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<tr>
<td>CS 175—Introduction to Computer Science</td>
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<tr>
<td>COM 132—Applied Composition &amp; Speech or ENG 102—Composition and Literature</td>
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<td>SS 131—American Civilization or HST 101—History of the United States</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>BUS 264—Shorthand Transcription</td>
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<td>3</td>
</tr>
<tr>
<td>HUM 101—Introduction to Humanities</td>
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<tr>
<td>PSY 131—Human Relations or PSY 105—Introduction to Psychology</td>
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<tr>
<td>SS 132—American Civilization or HST 102—History of the United States</td>
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</tbody>
</table>

Recommended Electives:

- BUS 230—Salesmanship
- BUS 233—Advertising and Sales Promotion
- BUS 234—Business Law
- MTH 130—Business Mathematics
Secretarial Careers

Administrative Secretary (One Year)
This program is designed for the person interested in being an assistant to the office administrator. Emphasis will be placed on developing the ability to make decisions and solve complex problems. The program is primarily designed for the office worker already working or for those who had prior office work experience, such as file clerk, typist, stenographer, or secretary.

Curriculum Pattern

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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<tbody>
<tr>
<td>Fall Semester</td>
<td>BUS 273—Advanced Typing</td>
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<td>BUS 136—Principles of Management</td>
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<td>BUS 201—Principles of Accounting or</td>
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<td>BUS 234—Business Law</td>
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<td>BUS 233—Advertising &amp; Sales Promotion</td>
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<tr>
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<td>BUS 231—Business Correspondence</td>
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<td>BUS 237—Organizational Behavior</td>
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<td>SPE 105—Public Speaking</td>
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Executive Secretary (One Year)
This program is for those students who are entering college with high level skills in typing (50 WPM) and shorthand (90 WPM), and who are striving to become employable at the executive secretarial level after one year of post-high school training.

Curriculum Pattern

<table>
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<tr>
<th>Semester</th>
<th>Course</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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<tr>
<td>Fall Semester</td>
<td>BUS 131—Bookkeeping or</td>
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<tr>
<td></td>
<td>BUS 201—Accounting</td>
<td>3</td>
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<tr>
<td></td>
<td>BUS 162—Secretarial Training</td>
<td>3</td>
<td>0</td>
<td>3</td>
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<tr>
<td></td>
<td>BUS 231—Business Correspondence</td>
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<td>BUS 273—Advanced Typing</td>
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<td></td>
<td>ENG 101—Composition and Expository Reading or</td>
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<td>COM 131—Applied Composition and Speech</td>
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<td><strong>17</strong></td>
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<tr>
<td>Spring Semester</td>
<td>BUS 132—Bookkeeping or</td>
<td></td>
<td></td>
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<td>BUS 202—Accounting</td>
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<td></td>
<td>BUS 160—Business Machines Transcription</td>
<td>3</td>
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<td>BUS 275—Secretarial Procedures</td>
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<td>BUS 264—Shorthand Transcription</td>
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<td>ENG 102—Composition and Literature or</td>
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<td>COM 132—Applied Composition and Speech</td>
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General Secretary (One Year)
The purpose of this program is to prepare students with the basic skills necessary to enter the secretarial field. A certificate is issued upon completion of the program.

Curriculum Pattern

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<th>Fall Semester</th>
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<td>BUS 105—Introduction to Business</td>
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<tr>
<td>BUS 131—Bookkeeping</td>
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<td>BUS 161—Office Machines</td>
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<tr>
<td>BUS 163—Beginning Shorthand</td>
<td>2</td>
<td>3</td>
<td>3</td>
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<tr>
<td>BUS 173—Beginning Typing</td>
<td>1</td>
<td>2</td>
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<tr>
<td>COM 131—Applied Composition and Speech</td>
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<th>Lab. Hrs.</th>
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<tbody>
<tr>
<td>BUS 160—Machine Transcription</td>
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<td>BUS 162—Secretarial Training</td>
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<td>BUS 164—Intermediate Shorthand</td>
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<td>BUS 174—Intermediate Typing</td>
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<tr>
<td>BUS 231—Business Correspondence</td>
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Office Skills and Systems (One Year)
This program is designed to meet the needs of those students who desire to enter a business career in a minimum of time. Intensive training in the basic office skills and systems is provided — including office machines, communications systems, and other related business subjects. A general orientation to business is given.

Curriculum Pattern

<table>
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<tr>
<th>Fall Semester</th>
<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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<tr>
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<tr>
<td>BUS 131—Bookkeeping or BUS 201—Accounting</td>
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<td>BUS 162—Secretarial Training</td>
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<tr>
<td>BUS 174—Intermediate Typing</td>
<td>1</td>
<td>2</td>
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<tr>
<td>BUS 273—Advanced Typing</td>
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<td>Elective</td>
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NOTE: In all secretarial careers programs, students with previous training in shorthand and typing will be placed according to ability. The last semester of typewriting and shorthand must be taken at Richland College.
Teacher Aide

This is a two-year program designed to prepare aides to assist teachers. Graduates of the program will be able to perform the wide range of supportive duties common to educational processes. Special courses will prepare students in the use of instructional media and enhance understanding of learning processes and stages of development.

Curriculum Pattern

<table>
<thead>
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<th>Lec. Hrs.</th>
<th>Lab. Hrs.</th>
<th>Credit Hrs.</th>
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<tr>
<td>RD 101—Advanced Reading or</td>
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<tr>
<td>SPE 105—Fundamentals of Public Speaking</td>
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<tr>
<td>DW 090—Developmental Writing or</td>
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<td>COM 131—Applied Composition and Speech or</td>
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<tr>
<td>ENG 101—Composition and Expository Reading</td>
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<tr>
<td>TA 131—Teacher Aide Techniques I</td>
<td>3</td>
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<tr>
<td>BUS 173—Beginning Typing or</td>
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<td>BUS 174—Intermediate Typing</td>
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<td>HD 105—Basic Processes of Interpersonal Relationships</td>
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<td>DM 090—Pre-Algebra Mathematics</td>
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<td>TA 129—Communication Skills for Teacher Aides</td>
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<td>TA 133—Teacher Aide Techniques II</td>
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<tr>
<td>*LT 132—Introduction to Media</td>
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<td>TA 135—Arts and Crafts for Teacher Aides</td>
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<td>BUS 161—Office Machines</td>
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<td>TA 231—Teacher Aide Seminar I</td>
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<td>TA 232—Teacher Aide Practicum I</td>
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<td>PSY 105—Introduction to Psychology</td>
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<td><strong>Spring Semester</strong></td>
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<td>*COM 132—Applied Composition and Speech or</td>
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<td>ENG 102—Composition and Literature</td>
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<td>TA 236—Teacher Aide Practicum II</td>
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<td>PSY 201—Human Growth and Development</td>
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<td>SOC 231—Urban Social Problems</td>
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<td>PEH 101—Fundamentals of Health</td>
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Recommended Electives:

- PEH 257
- SPE 105
- HD 107
- HUM 101
- PHI 101

*Available on the El Centro campus.

**If COM 132 or ENG 102 was taken previously, an elective may be chosen.
Faculty

Acrea, Patricia  Secretarial Science
Texas Christian Univ., B.S.C.; North Texas State Univ., M.B.E.

Aguren, Carolyn  Human Development
Univ. of Texas, Austin, B.S.; Southern Methodist Univ., M.A.

Allen, Floyd A.  English
Univ. of Michigan, B.A.; M.A.

Alther, Robert C.  History
Indiana Univ., B.A.; M.A.

Armstrong, Peggy L.  French
Indiana Univ., A.B.; M.A.T.

Baker, William E.  Counselor
Florida Atlantic Univ., B.A.; M.Ed.

Beck, Larry A.  Mid-Management
Drake Univ., B.S.; North Texas State Univ., M.B.E.

Biggerstaff, Ed  Dean of Student Services
North Texas State Univ., B.S.; M.S.; Ed.D.

Bindseil, Kenneth Ray  English
Southwest Texas State Univ., B.A.; M.A.

Boyle, Robert B.  Chairman, Div. of Social Science
Southern Methodist Univ., B.A.; M.A.

Burnham, Weldon  Chemistry
Univ. of California, Los Angeles, B.S.; Brigham Young Univ., Ph.D.

Camp, Marguerite  Counselor
Atlantic Christian College, B.A.; Ohio Univ., M.A.

Chandler, John  Chairman, Div. of Communications
Lee College, A.A.; Howard Payne College, B.A.; Southwestern Seminary, M.R.E.; Texas Christian Univ., M.A.

Chapman, Sidney  Philosophy & Religion
Michigan State Univ., M.A.

Chumbley, Richard  Business
Howard Payne College, B.B.A.

Coldwell, Patricia C.  English
Southwestern College, B.A.; Yale Univ., M.A.

Collins, Dan  Learning Resources Center
East Texas State Univ., B.S.; M.S.

Collins, Robert M.  Physical Education
LaCrosse State Univ., B.S.; New Mexico State Univ., M.A.T.

Cooper, Sally C.  English
Univ. of Arkansas, B.A.; M.A.

Davis, Randy  Secretarial Science
North Texas State Univ., B.S.; M.B.E.

Deen, Gary  Developmental Writing
Univ. of Texas, Arlington, B.A.; North Texas State Univ., M.Ed.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Department</th>
<th>Institution(s)</th>
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<tr>
<td>Devillier, Dianne G.</td>
<td>Counselor</td>
<td>Southeastern Louisiana College, B.A.; North Texas State Univ., M.Ed.</td>
</tr>
<tr>
<td>Dunn, Billyelu H.</td>
<td>Counselor</td>
<td>Texas Wesleyan College, B.S.; Texas Christian Univ., M.A.</td>
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<td>Dyer, Robert E.</td>
<td>Theatre</td>
<td>Un. of Texas, Austin, B.F.A.; Yale Univ., M.F.A.</td>
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<tr>
<td>Emory, Theresa M.</td>
<td>Biology</td>
<td>Univ. of New Mexico, B.S.; Texas Woman's Univ., M.S.</td>
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<td>Evans, Holland</td>
<td>Associate Dean of Business Services</td>
<td>Un. of Oklahoma, B.S.</td>
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<td>Freeman, M. Jay</td>
<td>Assistant Director, Student Development</td>
<td>Univ. of Houston, B.B.A.</td>
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<td>Georges, Carolyn</td>
<td>Biology</td>
<td>North Texas State Univ., B.A.; Southern Methodist Univ., M.A.</td>
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<td>Gibbons, Mary Frances</td>
<td>Communications</td>
<td>Sam Houston State Univ., B.A.; M.A.</td>
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<tr>
<td>Gornick, Frank</td>
<td>Director, Financial Aids, Placement,</td>
<td>Coalinga Community College, A.A.; Sacramento State College, B.A.; M.S.</td>
</tr>
<tr>
<td></td>
<td>and Veterans' Affairs</td>
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<td>Griffith, Henry V.</td>
<td>Ornamental Horticulture</td>
<td>Oklahoma State Univ., B.S.; Univ. of Alabama, M.S.; Oklahoma State Univ., M.S.; Ed.D.</td>
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<tr>
<td>Grizzle, Grady</td>
<td>Developmental Mathematics</td>
<td>North Texas State Univ., B.S.; M.Ed.</td>
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<td>Herring, Gus</td>
<td>Quality Control</td>
<td>St. Edward's Univ., B.S.; Univ. ofDallas, M.S.</td>
</tr>
<tr>
<td>Holt, H. Deon</td>
<td>President</td>
<td>Univ. of Utah, B.A.; M.A.; Univ. of Texas, Austin, Ph.D.</td>
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<tr>
<td>Hughes, Robert J.</td>
<td>Business</td>
<td>Bethany College, B.S.; North Texas State Univ., M.B.E.</td>
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<tr>
<td>Jagers, JoAnn L.</td>
<td>Physical Education</td>
<td>Montclair State College, B.A.; San Jose State College, M.A.</td>
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<tr>
<td>Jeser, Sharlee A.</td>
<td>Learning Resources Center</td>
<td>Southwest Texas State Univ., B.A.; Univ. of Texas, Austin, M.L.S.</td>
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<tr>
<td>John, Gary G.</td>
<td>Counselor</td>
<td>Austin College, B.A.; M.A.</td>
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<td>Johnson, Dan R.</td>
<td>Accounting</td>
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<td>Johnson, Marilyn Carole</td>
<td>Learning Resources Center</td>
<td>West Texas State Univ., B.S.; North Texas State Univ., M.L.S.</td>
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<td>Johnson, Thomas F.</td>
<td>Counselor</td>
<td>Ball State Univ., B.S.; M.A.; North Texas State Univ., Ed.D.</td>
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<tr>
<td>Kelso, Mark</td>
<td>English</td>
<td>Stephen F. Austin State College, B.A.; M.A.</td>
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</table>
Kennedy, Dale E. Instrumental Music
Univ. of Oklahoma, B.M.E.; Univ. of New Mexico, M.M.E.

Kerr, James English
Univ. of Iowa, B.A.; M.A.; M.F.A.

King, Floyd T., Jr. Chairman, Div. of Science/Technology
Colorado College, B.S.; M.A.T.

Leff, Gladys R. History
New York Univ., B.A.; M.A.

Lott, Kenneth L. Mathematics
Univ. of Texas, Austin, B.A.; North Texas State Univ., M.S.

Luke, Paul J. Physics
North Texas State Univ., B.S.; M.S.

Luter, Edward C. English
Univ. of Dallas, B.A.; Univ. of Miami, M.A.

Marabito, Ronald E. Construction Management
Univ. of Texas, Austin, Bachelor of Architecture

Matter, William W. English
Texas Technological Univ., B.A.; M.A.; Ph.D.

McAda, Judi Journalism
North Texas State Univ., B.A.

McElveen, Jerry D. English
Southeastern Louisiana Univ., B.A.; Louisiana State Univ., M.A.

McInnis, Donald W. Dean of Instruction

McKinney, John E. Mid-Management
Southern Methodist Univ., B.B.A.; M.B.A.

McLaughlin, Thomas A. Chairman, Div. of Physical Education
Coalinga Community College, A.A; Wisconsin State Univ., B.A.; Southern Illinois Univ., M.S.

McManus, Kay Director, Health Center
Univ. of Texas School of Nursing, B.S.; Texas Woman's Univ., M.S.

McPeek, Maurice Learning Resources Center
East Texas State Univ., B.A.; M.Ed.

Milton, Annette S. Developmental Writing
East Texas State Univ., B.A.; M.S.L.S.

Mittelstet, Stephen Director, Community Services
McMurry College, B.A.

Moreland, William H. Developmental Reading
North Texas State Univ., B.S.; Univ. of Guam, M.A.

Neal, William B. Physical Education
Hiram College, B.A.; Southern Illinois Univ., M.S.

Newbury, Fred Registrar-Director of Admissions
Howard Payne College, B.A.; North Texas State Univ., M.Ed.

Newman, Robert E. Mid-Management
Oklahoma State Univ., B.S.; Univ. of Arkansas, M.B.A.
Northcut, Mary N. English
Univ. of Texas, Arlington, B.A.; Southern Methodist Univ., M.A.; Texas
Christian Univ., Ph.D.

Nunley, John Parker Anthropology
Univ. of Texas, Austin, B.A.; M.A.; Southern Methodist Univ., M.A.; Ph.D.

Osentowski, Mary Speech
Kearney State College, B.A.; North Texas State Univ., M.S.

Ott, Eleanor Director, Counseling
Rice Univ., B.A.; Southern Methodist Univ., M.A.

Parker, Carolyn Counselor
Southern Methodist Univ., B.A.; Univ. of Florida, M.Ed.

Parr, Vallye E. History
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