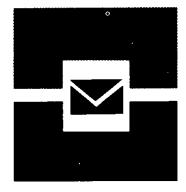
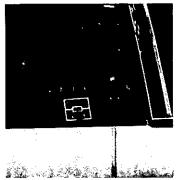


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Mountain View College

DALLAS COUNTY COMMUNITY COLLEGE DISTRICT 1975/76













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Cover designed by Cindy Ashmore.

This catalog contains policies, regulations, and procedures which were in existence as the publication went to press. The College reserves the right to modify or amend any statement or policy to reflect current Board policies, administrative regulations or procedures and applicable State or Federal laws and regulations.

General Information

Academic Calendar 1975-76

Fall Semester, 1975

August 25 Faculty Reports
August 26-28 Registration

August 29 Faculty Professional Development

September 1 Labor Day Holiday September 2 Classes Begin, 8 a.m.

September 8 Last Day for Tuition Refund, 8:30 p.m.

October 27 Veteran's Day Holiday

November 26 Thanksgiving Day Holiday, Begins 10 p.m.

December 1 Classes resume, 8 a.m.

December 5 Last Day to Withdraw with a Grade

of "W", 4 p.m. Last Day of Classes

December 15-19 Final Examinations
December 19 Semester Closes, 4 p.m.

Spring Semester, 1976

December 12

January 5 Faculty Reports
January 6-8 Registration

January 9 Faculty Professional Development

January 12 Classes Begin, 8 a.m.

January 16 Last Day for Tuition Refund, 4 p.m.

March 5 Faculty Professional Development*

(No Classes)

March 12 Spring Break Begins, 5 p.m.

March 22 Classes Resume, 8 a.m.

April 15 Easter Holiday Begins, 10 p.m.

April 19 Classes Resume, 8 a.m.

May 6 Last Day to Withdraw with a Grade

of "W", 8:30 p.m.

May 13 Last Day of Classes May 14-20 Final Examinations

May 20 Semester Closes, 8:30 p.m.

Graduation, 7:30 p.m.

May 31 Memorial Day Holiday

Summer Sessions, 1976

First Summer Session

June 1 Registration

June 2 Classes Begin, 8 a.m.

^{*}To coincide with the Texas Junior College Teachers Association (TJCTA) Convention.

June 3	Last Day for Tuition Refund, 8:30 p.m.
June 29	Last Day to Withdraw with a Grade
	of "W", 8:30 p.m.
July 5	Independence Day Holiday
July 7	Final Examinations
July 7	Semester Closes, 8:30 p.m.

Second Summer Session

July 9	Registration
July 12	Classes Begin, 8 a.m.
July 13	Last Day for Tuition Refund, 8:30 p.m.
August 6	Last Day to Withdraw with a Grade
-	of "W", 4 p.m.
August 13	Final Examinations
August 13	Semester Closes, 4 p.m.

The Academic Calendar may be subject to change or modification.

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DCCCD History and Philosophy

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 four colleges — Eastfield, El Centro, Mountain View and Richland — is 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 very bright high school student who is ready to undertake college-level training in advance of his graduation from secondary school, and a place for the 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.

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."

Every student is offered competent, intensive counseling to help discover his goals and special abilities. Continued guidance is available to update a student's educational program if his goals change during his college experience. This emphasis on counseling, rare for some institutions, is routine procedure at all district colleges.

The district officially became the Dallas County Community College District in 1972, when its philosophy, function and breadth outgrew the traditional "junior" college label. The new name more closely states the district's mission—to meet the educational needs of the entire metropolitan community.

How do the district's colleges serve the educational requirements of such a complex family. The answer is 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 wide range 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 on cultural, civic and avocational topics.

Dallas County voters created the district in May 1965 and approved a \$41.5 million bond issue.

The following year the district's first college, El 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 students and the multi-campus district envisioned by the district planners became a reality. Richland College became the district's fourth college in the fall of 1972.

In September of 1972, the voters of Dallas County approved the sale of an additional \$85 million in bonds, thereby paving the way for the expansion of existing campuses as needed and the planning and construction of three more colleges. The first priority in the expansion program was the remodeling and enlarging of El Centro College. The construction got underway in late 1973, and is scheduled for completion by the fall of 1976.

The addition of the new campuses — Cedar Valley College (1976) North Lake College (1977) and Brookhaven College (1978) — will round out the seven-campus plan of the Dallas County Community College District.

Philosophy of Mountain View College

Mountain View College is further dedicated to enhancing the worth and dignity of every individual who interacts with the college. Dedication to individualizing instruction, recognizing individual differences and capabilities, and providing counseling and guidance service to every student shall be the primary objectives of the faculty and administrators. This college has established and intends to maintain an instructional faculty who are managers of class activities rather than disseminators of facts. The college adheres to the concept that teaching is a process of involvement and direction.

Mountain View College, then, commits itself to an ever-changing society and dedicates its fullest efforts to providing a stimulating, practical, varying curriculum and environment for every person within its reach.

League for Innovation

Mountain View College of the Dallas County Community College District is a member of the League for Innovation in the Community College. Sixteen outstanding community college districts throughout the nation compose the League membership. Innovative experimentation and the continuing development of the community college movement in America are the purposes and goals of the League. Membership commits the Dallas County Community College District to research, evaluation and cooperation with other community college districts in providing the best possible educational program and fullest utilization of its resources to serve the needs of its community.

Accreditation

Mountain View College was granted full accreditation by the Southern Association of Colleges and Schools in December, 1972. Mountain View College and the other colleges of the Dallas County Community College District are members of the American Association of Community Junior Colleges and are recognized and sanctioned by the Coordinating Board of The Texas College and University system. The academic transfer curriculum is coordinated with senior colleges and universities to facilitate the transfer of credits to these institutions.

Evening College and Community Service Programs

Evening and Weekend College

In a dynamic, growing community such as that in which Mountain View College is located, people are involved Their involvement creates a need for gaining and developing knowledge and skills. Because of their involvement it is often impossible for them to attend college during daytime hours. The evening and weekend program was created to meet the needs of students who work or have other obligations during the day. The evening and weekend program offers these students the same broad spectrum of educational programs that is available to full-time day students.

It may be that the student desires to renew old skills or to acquire new ones. In the evening and weekend program there are courses to aid in building occupational, avocational, aesthetic, economic, civic, social and domestic skills. There are courses from all disciplines, both credit and non-credit. College transfer and career programs of two years or less are available. The direction a student takes will be determined by his personal goals. As a comprehensive community college Mountain View offers the student the option of electing the program best suited for him and of changing the direction of his studies if his goals change. In this manner students, with the help of qualified counselors, can draw a personalized blueprint for themselves in higher education. The course load which is attempted should be realistically determined by the amount of time available for doing quality work.

The evening and weekend program offers high quality instruction, excel-

lence of facilities, and a variety of student services as provided in the areas of counseling, health, bookstore, food, and recreation. Instructors in the evening and weekend program are selected from Mountain View's full-time staff and from among outstanding Dallas area educators and other professional specialists who are interested in teaching.

To enroll in the evening and weekend program at Mountain View College, call or write the Director of Admissions for an application for admission.

Community Service Programs

The community service program of Mountain View College offers programs directed toward finding educational solutions to localized problems which are not met by the formal degree and certificate programs of the college. These courses are designed to help individuals in exploring new fields of study, increase their proficiency in a particular profession, develop their potential or enrich their life through planned cultural and recreational studies, regardless of the student's age or previous educational experience.

Instructors for community service programs are leading professional men and women, Mountain View College faculty members and other educators who bring to our community exciting learning opportunities.

Community service programs are non-credit courses — there are no entrance requirements. Classes are offered both on and off campus as circumstances warrant. Special assist-

ance will be given to companies who wish to conduct courses, workshops or seminars in conjunction with their own training programs.

Courses may be offered in areas such as:

Business and Secretarial Programs
Languages and Developmental Studies
Management Development Programs
Career Programs
Physical Performance Programs
Special Interest Programs
Engineering & Industrial Programs
Continuing Education for Women

For additional information about Community Service programs, please contact the Mountain View Community Service office — Phone 746-4112.

Admissions and Registration

General Admission Policy

Applications will be accepted any time prior to registration. Since registration priorities are assigned according to the date an application is received, applicants should plan to submit applications at least three weeks before registration. Applications received after this date will receive a lower priority. All applicants are limited in their selection of classes to those available when they register.

Admission Requirements

1. Beginning Freshmen:

Students enrolling in college for the first time may apply if they are:

- a. A graduate from an accredited high school.
- 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 and whose high school class has graduated.
- d. A high school student recommended by the high school principal. (See concurrent enrollment.)
- 2. Transfer Students:
 - a. College transfer applicants will be considered for admission on the basis of their previous college record. Academic standing for transfer applicants will be determined by the Office of Admissions based on the standards es-

- b. Students on scholastic or disciplinary suspension from another institution must petition the Committee on Admission and Retention for special approval.
- 3. Former Students:

Former Dallas County Community College District students will be required to submit an application for readmission to any one of the District colleges. 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 colleges.

4. Non-Credit Students:

Students seeking enrollment for non-credit courses are directed to contact the Division of Community Service Programs.

Exceptions to these requirements will be referred to the Committee on Admission and Retention.

Admission Procedures

The following material must be submitted to the Office of Admissions before a student's entrance file is considered complete:

- an application for admission
- an official transcript from the last school (high school or college) attended. Transcripts are required by Mountain View College's accrediting agency and are important for program advising in the

tablished by Mountain View College.

^{*}A student may present satisfactory results of a high school equivalency exam (GED).

Counseling Center. Students who are seeking a certificate or associate degree are required to submit transcripts of all previous college work prior to the end of the first semester.

- written proof from a medical office of
 - a negative tuberculin skin test or chest X-ray
 - a polio immunization if the applicant is under 19 years of age
 - a diphtheria/tetanus injection within the last ten years

This medical proof is required by state law (Senate Bill 27).

Advisement Procedures

When students receive their letter of acceptance, they will be invited to an advisement session. This session may be conducted individually or as a group with a counselor; however, new students are expected to attend a New Student Orientation for advisement. The session is designed to help students to make schedule choices for themselves based upon assessment in courses or programs at Mountain View College. The session requires one-half day and is designed to meet the needs of students who are enrolling in college for the first time and who expect to attend fulltime.

A variety of diagnostic instruments may be used for assessment and placement in courses or programs; however, none are required for admission. These instruments are used as counseling tools for more reliable placement. For those students who wish to send their ACT scores for placement use, the ACT code for Mountain View College is 4089.

Developmental Studies are provided for those students who may require developmental assistance in

reading, writing, or math. Test data, transcripts of previous work, and counseling assessment may be used to determine placement in this program.

Name, Address, and Social Security Number

Students are reminded to inform the Office of the Registrar of any changes which occur in their name or address. All applicants are required to furnish a social security number which is used as the student's identification number and to insure accuracy of student records.

Concurrent Enrollment

A limited number of high school seniors may be concurrently enrolled upon recommendation of the high school principal. The colleges in the Dallas County Community College District have no geographical boundary restrictions for enrollment at any of the campuses. Admission requirements for all of the colleges are established by the Dallas County Community College District Board of Trustees and are the same for all District colleges. Students may enroll in more than one college at the same time.

Transfer of Credits

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

Students who are admitted with a grade point deficiency will not be graduated from Mountain View College until this deficiency has been cleared

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

Transcripts of Credit from Mountain View College

The Registrar's Office will send the student's transcript upon request to the individual student or 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.

International Students

Mountain View College is authorized under Federal Law to enroll nonimmigrant alien students. However, under present conditions, foreign students are not admitted until all admission requirements are complete. A personal interview with the foreign student advisor and special permission from the President of the College are required before admission can be finalized. In addition to admission requirements for all other students international students must demonstrate proficiency in English, provide evidence of financial stability, and meet with the foreign student advisor for general counseling concerning his potential for profiting from the educational programs of Mountain View College, Admission procedures for international students are regulated by the President of the College and may require his permission for enrollment. Under present conditions, international students are not admitted until all admission requirements are complete.

Servicemen's Opportunity College

Mountain View College, along with the other colleges of the Dallas County Community College District and in cooperation with other community colleges in the United States, participates in the Servicemen's Opportunity College. This program enables the institution to plan with the serviceman an educational experience regardless of his mobility pattern. For futher information, contact the Office of Financial Aid and Placement.

Student Diversity

Mountain View College encourages the attendance of mature students of all ages 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 and Fees

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:

Dallas County Community College District Tuition and Student Services Fall, Spring Sessions, 1975-76

Semester	In-	-Distri	ct	Out-o	of-Dist	rict	Out	-of-Sta	te*	Out-c	of-Cou	ntry
Cr. Hrs.	Tuition	Fees	Total	Tuition	Fees	Total	Tuitio	n Fees	Total	Tuition	Fees	Total
1	25		25	25		25	40		40	200		200
2	25		25	40		40	80		80	200		200
3	25		25	60		60	120		120	200		200
4	25		25	80		80	160		160	200		200
5	30		30	100		100	200		200	200		200
6	36	4	40	120	4	124	240	4	244	240	4	244
7	42	4	46	140	4	144	280	4	284	280	4	284
8	48	4	52	160	4	164	320	4	324	320	4	324
9	54	4	58	180	4	184	360	4	364	360	4	364
10	60	4	64	200	4	204	400	4	404	400	4	404
11	64	4	68	204	4	208	440	4	444	440	4	444
12	68	7	75	208	7	215	480	7	487	480	7	487
13	72	7	79	212	7	219	520	7	527	520	7	527
14	76	7	83	216	7	223	560	7	567	560	7	567
15	80	7	87	220	7	227	600	7	607	600	7	607
16	84	7	91	224	7	231	640	7	647	640	7	647
17	88	7	95	228	7	235	680	7	687	680	7	687
18	92	7	99	232	7	239	720	7	727	720	7	727
19	96	7	103	236	7	243	760	7	767	760	7	76 7
20	100	7	107	240	7	247	800	7	807	800	7	807

Dallas County Community College District Tuition Schedule Summer Sessions, 1976

Semester Credit Hours	In-District	Out-of-District (Other Texas Counties)	Out-of-State*	Out-of-Country
1	25	30	45	100
2	25	60	90	100
$-\frac{1}{3}$	30	90	135	135
4	40	120	180	180
5	50	150	225	225
6	60	180	270	270
7	64	184	310	310
8	68	188	350	350
9	72	192	390	390

^{*}A non-resident student is hereby defined to be a student of less than eighteen (18) years of age living away from his family and whose family resides in another state, or whose family has not resided in Texas for twelve (12) months immediately preceding the date of registration; or a student of eighteen (18) years of age who resides out of the state or who has not been a resident of the state twelve (12) months.

Special Fees and Charges

Laboratory fee — Music Fees —

Physical Education —
Bowling Fee —
Pilot Technology — Flight Fees

(a semester, per lab) \$2.00 to \$8.00 *(private lessons a semester) \$35.00 for 1 hour per week (maximum charge for one course) \$20 for ½ hour per week \$5.00 per course \$10.00

Costs per flight and/or simulator hour vary with level of instruction. Students should contact the director of the Pilot Technology Program for exact cost figures \$20.00

Credit by Examination —

Audit Fee

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 service fee is not charged.

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 Mountain View 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 class days of a six week summer session or a Fastrak semester 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.)
- Requests for a refund must be submitted before the end of a semester or summer session for which the refund is requested.
- A refund of less than \$4.00 for tuition and/or fees will not be made.
- Refund Petition forms are available in the office of the Dean of Human Development Programs.

A student who feels that his refund request is due to an extenuating circumstance beyond the limits of the refund policy should be explicit when completing the Refund form. All requests for refund will be referred to the Refund Petitions Committee in the Office of the Dean of Human Development Programs for evaluation and recommendation. Refund checks normally require a minimum of one month to process.

^{*}Available only to music students enrolled for 12 units or more.



Student Services

Human Development Center

The primary purpose of the Mountain View College Human Development Center is to provide the maximum opportunity for combined personal, educational, social, cultural and career development for any student enrolled in the college. This is accomplished by the provision of programs of coordinated services of the college as needed, and regularly includes identification, testing, counseling, planning and participation in developmental programs — all determined on an individual basis.

With the adoption of an open-door policy of admission, off-campus and weekend classes, flexible enrollment, and a variety of instructional programs, the population of Mountain View College includes a wide range of student populations that include but go far beyond the traditional student populations and brings needs that are also non-traditional; routine service programs are insufficient to provide for the additional problems of many of the students currently enrolled in Mountain View College as well as those expected in the future.

The Human Development Center is seen as a coordinator of services and as such serves as a base for planning and implementing other support services and instructional programs that will more fully provide maximum opportunity for continuing and coordinated development of the individual.

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 student needs. A partial review of additional materials and services available through the counseling center is listed for student information:

- Psychological tests of personality, vocational interests and aptitudes.
- 2. Technical and occupational information.
- Catalogs from a wide selection of college and universities.
- 4. Registration information.
- 5. Information about the general services offered in other divisions of the college.
- 6. Tutoring services.
- Referral for students requiring therapy for psychological problems.
- Educational planning of courses to meet specific degree requirements.

All students are assigned a counselor by the Counseling Center. Those who desire services of a counselor should contact their assigned counselor for an appointment. Students are encouraged to express any desire for change in their assigned counselor.

Human Development

The instructional activities in the Human Development courses provide chances for students to explore the relationship between meaningful education and some of the dilemmas

or questions commonly brought to college. "Why learn" and "how to learn" is put in a perspective of "who is to learn." These courses are taught by counselors, student advisors, and by instructors in Developmental Studies.

This new series of courses in student development enhances the total curriculum and blends in with the total concept of the community college, and at the same time, offers academic credit which is transferable to most surrounding four-year institutions.

Testing Center

The Mountain View College Testing Center, located in Room W136, functions as a service component to the Human Development Center and other instructional programs. The three primary functions of the Testing Center are to administer:

- Psychological tests of personality, vocational interests and aptitudes.
- Academic testing for the college instructional programs.
 Many courses at Mountain View College are individualized and self-paced and permit students to be tested at appropriate times.
- 3. Diagnostic tests which make appropriate class placement possible. (While these tests are not required, they are very strongly recommended to insure student success at Mountain View College.)

Health Services

The Health Center, located in E-001 (next to Physical Education Department), is maintained on campus to provide health counseling and education as well as emergency and first aid care. The Health Center is open from 8:30 a.m. until 10:00 p.m. Monday through Thursday and from 8:30 a.m. until 5:00 p.m. on Friday.

Confidentiality of all findings is maintained, and no information is ever released without written permission from the student. A major function of the Health Center is the referral of students to the appropriate outside source for additional treatment, if this is needed. Each student is responsible for his own transportation to referred sources.

Health education material may be secured from the Health Center. A small library is maintained containing health-related materials not available in the library.

All students are encouraged to complete the health history form as fully as possible so that the Health Center can best serve their needs.

The Health Center is staffed with registered nurses and a physician is on call at all times.

Student Development

The Student Development and Programs office at Mountain View College develops programs that are visualized as an integral part of the learning experience available at the college. Through direct contact with a professionally trained staff, the student is encouraged to find new ways of expressing himself, to develop skills in relating to other people, to formulate a new understanding of and respect for himself and his environment. The division is under the jurisdiction of a student, faculty, and administration-composed policymaking board, and includes the general areas of the Student Programming Council, student organizations, intramurals, athletics, and the college newspaper, each designed to provide unique opportunities in which classroom experiences can be extended and expanded. Student-planned activities such as games, tournaments, speakers, dances, films, art shows, entertainers, intramurals, special-interest groups, clubs, and organizations

provide opportunities for a more complete experience for each individual student.

Financial Aid Programs

The Financial Aid Program at Mountain View College is designed to function as a multi-purpose financial assistance service for students. A major objective is to provide assistance to students who, without such aid, would be unable to attend college. Basic to this philosophy is the belief that the educational opportunities of able students should not be controlled by their financial resources.

Where to apply: Requests for information should be directed to the Director of Financial Aid, Mountain View College, 4849 W. Illinois, Dallas, Texas 75211.

When to apply: Students who anticipate the need for financial assistance for college should complete an application well in advance so a realistic determination of their need may be reached.

The student should submit the application as early as possible prior to the semester in which he plans to enroll.

Federal and State Programs Veterans Benefits

The Veteran's Benefits Program for eligible students is coordinated by the Office of Financial Aid and Placement located in E-110B. Veterans who are interested should call 746-4188, 746-4267, or come by E-110B.

Services of the Veterans Affairs Office include counseling the veteran concerning benefits, employment, housing, financial problems, and other practical areas of concern. When tutoring or remedial studies are indicated, arrangements can be made

through the office to obtain financial help for tutoring.

The Veterans Affairs Office is also charged with the responsibility of informing veterans in the community of their educational benefits and indicating how Mountain View College can help them use these benefits in fulfilling educational goals.

Bureau of Indian Affairs

For information on educational benefits, an Indian student should contact the nearest BIA office.

Social Security Administration

Benefits under this program are available to students who meet the criteria set up by the Social Security Administration. The Office of Admissions and Records acts as liaison between Mountain View College students and the Social Security Administration.

Vocational Rehabilitation

The Texas Education Agency, through the Vocational Rehabilitation Division, offers assistance for tuition and fees to students who are vocationally handicapped as a result of a physically or mentally disabling condition. For further information, contact Vocational Rehabilitation, 4333 North Central Expressway, Dallas, Texas 75205.

Hazlewood Act

Certain veterans who have no remaining V.A. educational benefits can attend Texas state supported institutions with their tuition and fees waived if they were residents of Texas at the time they entered the services and are now residents of Texas. Contact the Financial Aid office for details.

State-Sponsored Scholarships

These scholarships waive payment of tuition for two semesters for the highest ranking graduate of each accredited high school in Texas each year.

Loans

Mountain View College has several loan funds for students needing long-term as well as short-term assistance.

Hinson-Hazlewood College Student Loan Program. The necessary requirements for this loan are:

- Legal residence in Texas.
- Enrolled or accepted for enrollment for at least a half-time course of study.
- Established financial need.

The amount of loan for which a student may qualify depends upon the income of his family. Married applicants are qualified by considering the income of both husband and wife.

Qualified students may receive up to \$1,500 for the nine-month school session.

Repayment begins between 9 and 12 months after the student ceases to be enrolled for at least half the normal course load. Repayment may extend up to 10 years; however, a minimum payment of \$30 a month is required. Interest rate is 6.25 per year (adjusted).

Short-Terms Loans. A student may borrow up to \$100 at no interest if funds are available. This loan must be repaid within 90 days or before the end of the semester in which the money is borrowed.

Grants

Basic Educational Opportunity Grant (BEOG). Students who entered college for the first time after July 1, 1973 and are enrolling full-time may be eligible for this "entitlement grant." Applications are available in many federal offices, as well as in the Financial Aid Office, and are mailed directly by the student to a central processing place indicated in the instructions. The student receives a Family Contribution Analysis Report which he brings to the Financial Aid Office for interpretation and determination of grant amount according to an objective table provided to them by the federal government for that purpose.

Supplemental Educational Opportunity Grant. This grant is authorized under the Higher Educational Act of 1965 and is designed to help students with exceptional financial need. To be eligible a student must prove such financial need and make satisfactory progress toward the completion of his educational goal. The amount of an SEOG award must be matched by another source, usually an amount earned by the student from a workstudy job on campus. SEOG amounts vary from \$200.00 to \$800.00 per academic year depending on need, total number of applicants, and funds available. Students must apply each academic year to be reinstated.

Scholarships

Mountain View College offers a limited number of scholarships to students who exhibit scholastic ability, and/or need. Individuals, private industries and groups make these scholarships available through the Office of Financial Aid and Placement.

Revocation of Aid

The Financial Aid and Placement Office reserves the right to review and cancel awards at any time for the following reasons:

- Failure to maintain an acceptable academic record.
- 2. Failure to meet the minimum course load requirements.
- Changes in the financial status of the student or his family.
- Any student in violation of any regulation governing the program from which he is receiving aid.

It is understood that the student is aware of the conditions under which aid is offered and agrees to meet all the necessary requirements.

Placement

The Financial Aid and Placement Office will assist any student desiring job placement, either on or off campus.

Career placement assistance is available for students nearing completion of their course of study. All students should register with the Financial Aid and Placement Office at least one full semester prior to their graduation.

Campus Employment

Part-time employment. Typically, part-time employment is designed as a financial aid to assist students while they are in college through:

- On-campus placement.
- 2. Work-study programs.

Efforts are made by the Office of Financial Aid and Placement for students to gain employment in clerical work, library work, laboratories, custodial work, selling, etc.

Student Center

The Mountain View College Student Center occupies a major portion of the West complex. It contains conference rooms and recreational facilities including a Bowling Alley, pool tables, foosball, table tennis, and air

hockey. The student may choose to use these facilities and services, which are provided for his comfort and recreation, as his leisure time and interests dictate. Those students desiring to become more fully involved in the programming aspects of the Student Development office are encouraged to do so.

Student Organizations

Information about participating in any organization may be obtained through the Student Development and Programs office located in W-045. Most recognized organizations at Mountain View College fall within one of the following classifications:

- Co-Curricular Organizations

 These co-curricular organizations are integral to the educational goals and purposes of the College. Certain procedures affecting student life are designated as the responsibility of such organizations.
- 2. Social Organizations Such organizations exist for the purpose of providing fellowship, developing social relationships and promoting a sense of community among students who wish to be involved in group social activities.
- Service Organizations Service organizations have as their primary function the pursuit of activities which will contribute to the development of career fields.
- 4. Professional Organizations Pre-professional and academic organizations are joined by students wishing to pursue interests which will contribute positively to the school and to the community.
- 5. Scholastic Honorary Organizations Scholastic honorary

- organizations offer membership to students on the basis of academic excellence and performance.
- 6. Special Interest Organizations
 Such organizations are organized by students who are intent upon developing or broadening an interest in some particular aspect of their lives as human beings.

Intercollegiate Athletics

Mountain View College offers qualified students an opportunity for participation in intercollegiate athletics in the following sports:

- 1. Basketball
- Baseball
- Golf
- 4. Tennis
- Handball

Other sports shall be included at a later date as interest demands.

Participation is available on athletic teams for all full-time students on a voluntary non-scholarship basis.

College Commission System

The College Commission System includes all segments of Mountain View College — students, faculty, classified staff, and administrators. All have a vested interest in the school and are therefore entitled and urged to participate in the operation of the college and the activities sponsored by Student Development and Programs.

The College Commission System allows the total college population to share in the decision-making process and is composed of the following elements: President's Forum, Commissions, and Ad Hoc committees.

Educational Opportunity Center

The Educational Opportunity Center is sponsored by the Dallas County Community College District and the Special Services Branch of the U.S. Office of Education. This project is designed to offer extensive counseling and information services primarily to persons from economically disadvantaged groups who may profit from further secondary or postsecondary education. This is done by the Mobile Counseling Center, satellite centers through the community and a computer terminal network. The staff will achieve its objectives through such activities as one-to-one counseling, disseminating educational information, acquiring financial aid for needy students, bringing the counseling service to the target communities, referring students to appropriate social help agencies, and assisting in the placement of individuals either in schools and/or on-thejob training programs. For further information, contact the EOC, Room 307, Main Bank Building, Main and Lamar or phone 746-2197 or 746-2258.

Housing

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

Standards of Conduct

The College student is considered a responsible adult. The student's enrollment indicates acceptance of those standards of conduct which appear in the Student Handbook. A copy of the Student Handbook may be obtained from the Office of Student Development & Programs.

Grade Reports and Settlement of Dehts

Grade reports are issued to each student at the end of each semester. Transcripts may be withheld if the student does not have all required student information on file in the Registrar's Office or if any financial obligations to the college have not been paid.

Security Division

The department of Campus Security is required by state law to "protect and police building 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.

The Campus Security Office is located on the first floor of the West complex (W-135). A security officer may be reached any time the campus is open for educational activities by calling the campus operator: "O" or the Security office 746-4258.



Academic Information

Academic Standards: Grades and Grade Point Averages

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

Grade	Interpretation	Grade Point Value
Α	Excellent	4 points
В	Good	3 points
C	Average	2 points
D	Poor	1 point
Р	Progress	Not Computed
F	Failing	0 points
1	Incomplete	Not Computed
W	Withdrawn	Not Computed

Grade Points earned for each course are determined by multiplying the number of points for each grade by the number of credit units 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 units attempted during the same period.

Incomplete grades are given when an unforeseen emergency prevents a student from completing the work in a course. Division Chairmen must approve all "I" grades. Incomplete grades must be removed within 90 calendar days after the first day of classes in the subsequent regular semester. After 90 days they will be changed to a "W".

Degree Requirements Associate in Arts and Sciences Degree Requirements

A total of 60 units must be presented with an average of at least "C" (2.0). Courses numbered 99 and below may not be counted toward the 60 hours minimum. Technical occupational courses applicable toward the Associate in Applied Arts and Sci-

ences degree are applicable for the Associate in Arts and Sciences degree.

Hours toward the Associate Degree may be earned at any Dallas County Community College District college and must include:

English 101-102, plus an additional 6 units of English 12 units

A minimum of 8 semester units of a laboratory science 8 units

(Music Majors are exempt from this requirement. Check listings under subject field)

History 101-102* and Government 201-202* 12 units (No substitutions allowed)

Humanities: To be selected from Theatre 101, Art 104, Music 104 or Humanities 101 3 units

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

All students who expect to transfer to a four-year institution are urged to complete their four semester requirements in physical education during their freshman and sophomore years. A maximum of two physical education activity hours may be counted toward requirements for graduation.

^{*}Only 3 hours of History or Government credit may be earned by credit-by-examination. (CLEP credit does not qualify for this requirement.)

The student is urged to consult the catalog of the institution to which he may transfer for its special requirements. These catalogs should be used by the student and his advisor as a basis for the program plan.

Degree Requirements Associate in Applied Arts and Science Degrees and Certificate Career Programs

A minimum of 60 hours exclusive of those courses numbered 99 and below must be prepared 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.

A minimum of 28 hours exclusive of those courses numbered 99 and below must be presented with an average of at least "C" (2.0) for all courses listed in the requirements of the Certificate Program in which the student is enrolled.

A maximum of two physical education activity hours may be counted as credit toward requirements for graduation.

Procedure for Filing Degree and Certificate Plans

- The student should request a degree plan from the Admissions Office upon completion of 30 semester hours. Transcripts of all previous college work must be on file at the time of the request for a degree plan.
- 2. A student following a 1-year certificate program should request an official plan during his first semester.

- 3. Application for the granting of the degree or certificate should be filed in the Registrar's Office prior to the college catalog calendar dead-line
- 4. A candidate for graduation in May is requested to attend the commencement program unless granted prior permission by the Dean of Human Development Programs to graduate in absentia.
- 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 Registrar's Office should be notified of his intention.
- 6. For information concerning graduation fee, see page 19 under "Additional fees." Instruction concerning graduation will be mailed to all candidates 30 days prior to commencement.

Candidates for any degree or certificate must meet the requirements as set forth in the catalog for the year of first enrollment unless he elects to graduate under the requirements of a later catalog. The candidate must indicate the catalog of his choice when he files his degree plan.

To qualify for a second degree or certificate a student must fulfill the residence requirement for the second degree and must complete all required courses in the plan for the second degree or certificate.

Class Attendance

Students are expected to attend regularly all classes in which they are enrolled. Class attendance is the responsibility of the student. It is also the responsibility of the student to consult with his instructors when an absence must be excused. Instructors are given the prerogative of determining the excusability of student absences.

Instructors are required to report students to the Dean's office for excessive absences. Generally, first excessive absence reports are made when absences have reached 3 consecutive hours or an accumulation of 6 hours. 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's office when, in the opinion of the instructors, a student's continued absences warrant his suspension from class.

Students dropped for excessive absence 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 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. No change action will be accepted by the registrar after 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:

- Obtain a drop or withdrawal form 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.

Students who drop a class or withdraw from college before the deadline will receive a "W" in each class from which they have 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 "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 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 courses, the combined

number of semester units in credit courses and audit shall not exceed eighteen.

Recommended Academic Load

No student will be permitted to carry more than 18 semester units of course work or more than 5 classes plus physical education without permission of the Assistant Dean of Counseling. Employed students are advised to limit their academic loads in accordance with the following recommendation: If a student carries a full college load (12 semester units or more), he should not work more than 20 hours per week. If he must work more hours, his credit unit load in college should be reduced proportionately.

The recommended load limit for day or evening students who are employed full-time is 6 semester units of course work.

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

Telecourses

Mountain View College is offering several courses via television, including courses in English composition and literature, government, psychology, anthropology, ecology, business and the history of science. Content and credit for these courses is the same as for similar courses taken on campus.

Telecourses include the viewing of television programs on KERA Channel 13 each week, plus reading, study guide and writing assignments. Students come to the Mountain View college campus for an orientation session at the beginning of the

semester, for one or two discussion meetings, and for three or four tests during the semester. These visits to the campus are normally scheduled so that they may be attended at a time convenient to the student.

Telecourses may be taken in conjunction with on-campus courses or by persons who are taking no oncampus instruction. Registration for telecourses may be accomplished by mail or through the normal on-campus registration procedures.

Cooperative Work Experience Education

Cooperative Work Experience Education offers career program students the opportunity to gain on-the-job work experience in their educational program. Students work at college-approved training stations on a job that provides experience in their chosen occupation. The college supervises the program and awards credit based on the number of approved hours worked on the job during the semester.

Classification of Students

- Freshman: A student who has completed fewer than 30 semester hours.
- 2. Sophomore: A student who has completed 30 or more semester hours.
- 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 the Developmental Studies courses 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 units or more) and to part-time students when they have attempted a total of 12 semester units. These policies are based on a 4.0 grade point scale (see page 29 "Academic Standards").

The following criteria will be used to determine academic standing:

- 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.
- Students who have been placed on scholastic probation may be removed from probation when they earn a 2.0 cumulative grade point average.
- 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.

Students previously enrolled in college who are placed on scholastic probation are expected to enroll in a Human Development course. Under special circumstances a counselor may waive this course for probationary students.

Students who have been suspended must file a petition for readmission. The conditions for readmission are established and administered by the Dean of Human Development Programs.

Waiving of Scholastic Deficiency

Any student pursuing an academic transfer program who wishes to transfer to a career program may have his earned credits evaluated for the possibility of disregarding any grades of his choice below "C" as long as the student follows the career 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 improvement when faced with tasks more suited to their interests and aptitudes. This procedure is contingent upon the student remaining in a career 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 Mountain View 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 registration 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 grades will be sent to students who have not returned all such materials or who have unpaid library fines. No transcripts of grades may be sent 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. A part-time student who is taking 6-11 credit hours and who maintains a 3.5 or higher grade-point average will receive Academic Recognition. The Honor Roll, the Dean's Honor List and the Academic Recognition 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. Not all courses offered at Mountain View College are approved for credit by examination. A list of those credits which may be established through this method is available in the Testing Center. Students will be allowed to earn as many credits through the credit-by-examination procedure as their needs required and ability permits. The last fifteen semester hours required for graduation in any degree or certificate program must be earned in residency 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 fulltime, will pay an examination fee of \$20,00 per examination. This fee must be paid prior to taking the examination and is non-refundable. Though great effort has been made to interrelate our 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. A student can use no more than three (3) credit hours earned by credit-by-examination for the degree requirement in History and no more than three (3) credit hours for the degree requirement in Government, For further information concerning graduation requirements, consult the Degree Requirement section in this catalog.

Divisions of the College

Business Division

Accounting Bookkeeping Computer Science General Business Mid-Management Secretarial Careers

Communications Division

Communications
English
French
German
Journalism
Photography
Spanish
Speech

Human Development Center

Developmental Communications
Developmental Mathematics
Developmental Reading
Developmental Writing
Advanced Reading
Human Development
Teacher Aide

Humanities Division

Art Humanities Music Philosophy Theatre

Mathematics and Technology Division

Aviation Administration Avionics Technology Electronics Technology Machine Shop Mathematics Pilot Technology

Physical Education Division

Physical Education Theory Physical Education Activity

Science and Technology Division

Biology
Blue Print Reading
Chemistry
Drafting
Engineering
Geology
Geography
Horology
Physics

Social and Behavioral Science Division

Anthropology Economics Government History Psychology Religion Social Science Sociology



Courses by Alphabetical Listings

Animal Medical Technology 131 Orientation 3 Cr.

An introduction to the areas of employment for the animal medical technologist. A description of the role of the animal medical technology graduate. A survey of the laws and ethics related to the veterinary profession.

Animal Medical Technology 133 Breeds of Animals 3 Cr. 3 Lec.

A survey of the common breeds of domestic livestock and human pets. Detailed study of the origin of dog and cat breeds is included. Visual identification of all common animal breeds is studied.

Animal Medical Technology 135 Animal Biology 5 Cr.

An introductory course covering cell structure and functions, basic anatomy and physiology, general microbiology, genetics, evolution and ecology. Laboratory fee required.

Animal Medical Technology 136 Pharmacology 3 Cr. 3 Lec.

Prerequisite: Chemistry 134. Classification of pharmaceuticals, terminology, measurement, administration and storage of animal medications.

Animal Medical Technology 137 Comparative Mammalian Anatomy & Physiology I 4 Cr.

3 Lec., 3 Lab.
Prequisite: Animal Medical Technology

Prerequisite: Animal Medical Technology 135. Mammalian structure is presented on a comparative basis by a histologically and gross study of selected organ systems utilizing the dog, cat, monkey, pigeon and selected organs of the cow. Laboratory fee required.

Animal Medical Technology 231 Comparative Mammalian Anatomy & Physiology II 4 Cr.

3 Lec., 3 Lab.

Prerequisite: Animal Technology 137. A continuation of AMT. Laboratory fee required.

Animal Medical Technology 232 General Parasitiology & Entomology

3 Lec., 3 Lab. Prerequisite: Animal Medical Technology 135. Taxonomy, identification, life cycles and control of common parasites associated with the advanced vertebrate. Physiological changes in host tissue will

Animal Medical Technology 233 Animal Microbiology 4 Cr.

be stressed. Laboratory fee required.

3 Lec., 3 Lab. Prerequisites: Animal Medical Technology 135, Chemistry 134. Morphology, cultural and staining characteristics of pathogens with emphasis on those species of common concern to animal health. The physiological changes caused by selected pathogens will be covered.

Animal Medical Technology 234 Animal Care 3 Cr.

Laboratory fee required.

2 Lec., 2 Lab.

4 Cr.

Prerequisite: Animal Medical Technology 135. Identification and care of surgical instruments. Anesthesiology. Preparation of animals for surgery. Preventive medical care. Recovery. Sterilization and Sanitation. Laboratory fee required.

Animal Medical Technology 235 Animal Nutrition 3 Cr.

3 Lec.

Prerequisites: Chemistry 134, Animal Medical Technology 136, 137. The physiological and biochemical aspects of digestion are considered. Emphasis on nutritional requirements and ration formulation. Pathological conditions resulting in dietary changes are presented.

Animal Medical Technology 236 Radiology 3 Cr. 3 Lec.

Prerequisite: Animal Medical Technology 231. Description of the types of radiation and their harmful and beneficial effects. Analysis of the principles of x-ray. Operation of radiological equipment. Radiological terminology.

Animal Medical Technology 237 Clinical Analysis I 4 Ci

3 Lec., 3 Lab.

Prerequisite: Animal Medical Technology 231. Basic principles associated with blood, urine and fecal analysis. Laboratory fee required.

Animal Medical Technology 238 Animal Health

2 Cr. 2 Lec.

Prerequisite: Animal Medical Technology 231. Relationship between animal diseases and human health. Principles employed in meat inspection, waste sanitation and water treatment.

Animal Medical Technology 239 Clinical Analysis II

3 Lec., 3 Lab.

Prerequisite: Animal Medical Technology 237. Advanced blood, urine and fecal analysis. Emphasis placed on correlating sample data with affected physiological parameters. Laboratory fee required.

Animal Medical Technology 240 Animal Restraint 4 Cr.

3 Lec., 3 Lab.

Large and small animal restraining techniques and procedures are presented. Laboratory fee required.

Animal Medical Technology 245 Clinical Seminar

2 Cr. 2 Lec.

A course designed to allow the student to receive on the job instruction from an authorized veterinarian concerning daily routine procedures.

Animal Medical Technology 246 Clinical Training 2

2 Cr. 10 Lab.

A course designed to allow the student to perform his duties as an animal medical technologist under the supervision of a veterinarian.

Animal Medical Technology 247 Clinical Seminar 2 Cr.

2 Lec.

A course designed to allow the student to receive on the job instruction from an authorized veterinarian concerning daily routine procedures.

Animal Medical Technology 248

Clinical Training

2 Cr. 10 Lab.

A course designed to allow the student to perform his duties as an animal medical technologist under the supervision of a veterinarian.

Anthropology 100 Introduction to Anthropology

3 Cr. 3 Lec.

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 Cultural Anthropology

3 Cr. 3 Lec.

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.

Art 103

Introduction to Art

1 Cr. 3 Lab.

An introduction to materials and techniques of studio art for the non-major, with emphasis on basic compositional concepts and traditional media. Laboratory fee required.

Art 104

Art Appreciation

3 Cr. 3 Lec.

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

Survey of Art History

3 Cr. 3 Lec.

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 106

Survey of Art History

3 Cr. 3 Lec.

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 Design I

3 Cr. 2 Lec., 4 Lab.

A study of basic concepts of design using two-dimensional materials. Use of line, color, illusion of space or mass, texture and shape in composition. Required of all art majors. Open to all interested students.

Art 111 Design II

3 Cr. 2 Lec., 4 Lab.

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 Drawing I

3 Cr. 2 Lec., 4 Lab.

A beginning course investigating a variety of media, techniques and subjects, exploring perceptual and descriptive possibilities with consideration of drawing as a developmental process as well as an end in itself. Required of all art majors, open to others who are interested.

Art 115 Drawing II

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Art 114. Expansion of Drawing I stressing the expressive and conceptual aspects of drawing including the human figure within a spatial environment. Required of all art majors. Open to others who are interested.

Art 116

Introduction to Jewelry

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Art 110, Art 111, or permission of instructor. The basic techniques of fabrication and casting or metals, with emphasis on original design. Laboratory fee required.

Art 117

Introduction to Jewelry II

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Art 116. A continuation of Jewelry I. The study of advanced fabrication and casting techniques, with emphasis on original design. Laboratory fee required.

Art 201 Drawing III

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Art 110, Art 111, Art 115, sophomore standing and/or permission of the Division Chairman. Analytic and expressive drawing of the human figure, stressing study of movement and volume.

Art 202 Drawing IV

Laboratory fee required.

3 Cr.

2 Lec., 4 Lab.

Prerequisite: Art 201, sophomore standing, and/or permission of the Division Chairman. A continuation of Art 201 with emphasis on individual expression. Laboratory fee required.

Art 205 Painting I

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Art 110, Art 111, Art 115 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

Painting II

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Art 205. Continuation of Painting I with emphasis on individual expression.

Art 208 Sculpture I

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Art 110, Art 111, Art 115 or permission of the instructor. An exploration of various sculptural approaches in a variety of media and using different techniques. Laboratory fee required.

Art 209 Sculpture II

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Art 208. A continuation of Sculpture I with emphasis on individual expression. Laboratory fee required.

Art 215 Ceramics I

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Art 110, Art 111, Art 115 or permission of instructor. Building of pottery forms by coil, slab and use of wheel; glazing and firing. Laboratory fee required.

Art 216 Ceramics II

3 Cr.

2 Lec., 4 Lab. Prerequisite: 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.

Aviation Administration 131 Introduction to Aviation

3 Cr. 3 Lec.

General introductory course to the total aviation industry covering the history, development, and advances in aircraft from balloon flight to the supersonic transport (SST), economic impact on the business economy, and the sociological effect on people and communities both local and worldwide. Special emphasis on origin and growth of airlines and the aviation industry.

Aviation Administration 133
Air Transportation

6 Cr. 3 Lec.

Prerequisite: Aviation Administration 131. A study of the need, nature and structure of the air transportation segment of the aviation industry relating to passengers and cargo, both domestic and interna-

tional. Covers the levels and categories of utilization such as air carrier, air-taxi, commuter, business, and pleasure. Explores basic costs and revenue sources; describes present status, future limiting and growth factors, and legal aspects and characteristics.

Aviation Administration 134 Aviation Law

3 Cr. 3 Lec.

Prerequisite: Aviation Administration 131 credit or concurrent enrollment in Air Transportation. A study of procedural laws and regulations, local, national, and international relating to both public and private sectors of air commerce. Outlines the development of aviation law from enactment through judicial decisions on application of those laws. Identifies regulatory agencies and quasi-official study and advisory groups along with functions. Special emphasis on flight procedures (flight plans), ports of entry, customs, clearances, contraband, quarantines, aviation hazards and liabilities as they relate to passenger and cargo movements. Develops present legal structure and possible future changes, including reciprocity agreements.

Aviation Administration 232 Transportation, Traffic and Air Cargo

3 Cr. 3 Lec.

Prerequisites: Aviation Administration freshman core, credit or concurrent enrollment in Business 136. A study of transportation modes and how these interface to provide efficient transport of passengers and cargo. Emphasis on managerial definition and solution of problems involved at transition/transfer terminals where compatibly scheduled traffic movement is crucial. Includes the evolution of air cargo; the purpose, application, and benefits of air mail, air express, and air freight to modern industry. Discusses the nature of automation, trends, and future development.

Aviation Administration 235 Airline Management

3 Cr. 3 Lec.

Prerequisites: Aviation Administration freshman core, Business 136. A course designed to cover the complex organization, operation, and management of an airline today. Includes planning, facility requirements, financing, aircraft selection criteria, route feasibility studies, market and passenger trends, and population trends affecting load factors. Explores the managerial problem areas unique to airline operations.

Aviation Administration 236 Aviation Marketing

3 Cr. 3 Lec.

3 Cr.

3 Lec.

Prerequisites: Aviation Administration freshman core, Business 233. The significance and functions of marketing in aviation stressing the airline viewpoint. Includes market research, sales, unique advertising and promotion concepts, traffic, demand analysis, and price determination theory.

Aviation Administration 237 Transportation

Prerequisites: Aviation Administration freshman core, Aviation Administration 231. An in-depth study of regulations, domestic and international, relating to accommodations, tariffs, import-export licensing, rate structuring, bonded warehousing, liability assumption and transfer, and other regulatory factors which directly and indirectly affect the revenues in air transport of passengers and cargo.

Aviation Administration 239 Airport Management 3 Cr. 3 Lec.

Prerequisites: Aviation Administration freshman core, Business 136. A presentation of the major functions of airport management: adequacy of facilities and services, financing, organization, personnel, maintenance, planning and zoning, operations, revenues and expenses, public relations, ecology, and safety. Includes a study of the socioeconomic effect of airports on the communities they serve.

Avionics Technology 129 Introduction to Aircraft Electronic Systems

2 Lec., 2 Lab.

3 Cr.

A survey course introducing the student to the aircraft and the nature of flight, the aircraft's electronic systems and their function related to the aircraft and its mission, basically how the systems operate, and the information supplied to the aircraft operator. Laboratory fee required.

Avionics Technology 131 Aircraft Communications Systems

3 Lec., 3 Lab.

4 Cr.

Prerequisites: Credit or concurrent enrollment in Electronics Technology 193 or equivalent. An in-depth study of aircraft VHF and interphone systems, circuit analysis of typical systems, specialized circuitry, bench maintenance and alignment procedures, related bench and aircraft test equipment, introduction to UHF and HF systems, and related FCC regulations. Laboratory fee required.

Avionics Technology 230 Aircraft Navigation

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 193 and Avionics Technology 129. A study of typical aircraft navigation systems including VOR, ILS, ADF, and marker beacon. Topics covered for each system include the operation of the system in relation to the ground station, circuit analysis of a typical system, special circuitry, bench maintenance and alignment procedures, and related bench and aircraft test equipment. Laboratory fee required.

Avionics Technology 231 Aircraft Electrical and Instrumentation Systems

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 193 and Avionics Technology 129. A study of aircraft electrical power sources, buses, fusing, monitoring and warning devices and the associated instrumentation, magnetic and electronic compasses, and basic autopilot systems. Laboratory fee required.

Avionics Technology 232 Aircraft Radar Systems

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 193 and Avionics Technology 129. A study of aircraft electronic systems utilizing radar principles such as weather radar, ATC transponder, DME radio altimeters, and Doppler Navigation. X-band weather radar and the ATC transponder will be covered in depth with an introduction to principles of operation of radio altimeters, DME and Doppler Systems. Bench check and alignment procedures, trouble-shooting, and repair of aircraft radar systems. Laboratory fee required.

Avionics Technology 233 Aircraft Systems Installation, Wiring and Modification

3 Cr. 1 Lec., 5 Lab.

Prerequisites: Electronics Technology 193 and Avionics Technology 129. A laboratory oriented course which gives the student practical experience in installing aircraft equipment, modifying systems and associated wiring, repairing damaged wiring, and performing equipment installations inspections, and accomplishing necessary repairs. Laboratory fee required.

Avionics Technology 234 Aircraft Electronic Systems Checkout and Trouble-Shooting Procedures

4 Cr. 2 Lec., 5 Lab.

Prerequisites: Avionics Technology 129 and credit or concurrent enrollment in three additional avionics technology courses. Primarily a laboratory course in which the student will perform systems checks of electronic equipment on the aircraft. Procedures for determining the operational condition of the equipment and techniques for correcting equipment malfunctions will be covered. Practical experience in aircraft trouble-shooting and repair will be provided for the student. Application of related test equipment to problem solutions will be stressed. Laboratory fee required.

Biology 101 General Biology

4 Cr. 3 Lec., 3 Lab.

Prerequisite to all higher 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 General Biology

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Biology 101. A continuation of Biology 101. Laboratory fee required.

Biology 115 Biological Science

4 Cr. 3 Lec., 3 Lab.

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 Biological Science

4 Cr. 3 Lab.

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 120 Introduction to Human Anatomy and Physiology

4 Cr. 3 Lec., 2 Lab.

A two-semester course in anatomy and physiology, introducing the normal structure of the human body, its cells, organs, and systems, and the functioning of these units. This course serves as a foundation

for present and future specialization for students of A.D. Nursing and Allied Health disciplines, Other students interested in the study of the functioning of the human body should consult a counselor. No science background is presupposed. Thorough grounding in the basic chemistry of life processes, cell theory. genetics, embryology and anatomy and physiology will be provided. Coordination of body systems for integral functioning will be stressed. Laboratory fee required.

Biology 121 Introduction to Human Anatomy and Physiology

4 Cr. 3 Lec., 2 Lab.

Prerequisite: Biology 120. A continuation of Biology 120. Laboratory fee required.

Biology 203 Intermediate Botany

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Biology 101 and 102, A survey of the major plant groups with emphasis placed morphology. on physiology, classification, life cycles, and evolutionary relationships to each other and their economic importance to man. Recommended for science majors, Laboratory fee required.

Biology 216 General Microbiology

4 Cr. 3 Lec., 4 Lab.

Prerequisites: Biology 102 and Chemistry 102 or consent of instructor. A study of microbes with emphasis on classification. growth, nutrition, metabolism, reproduction, genetics, and ecology of microorganisms. Recommended for science majors and science related programs. Laboratory fee required.

Biology 221

Anatomy and Physiology I 4 Cr. 3 Lec., 3 Lab.

Prerequisite: Biology 102 or approval of instructor. Recommended for science majors. First course of a two course sequence. Structure and function as related to the human skeletal, muscular and circulatory system. Emphasis placed on the inter-relationships of these systems. Laboratory fee required.

Biology 222

Anatomy and Physiology II 4 Cr.

3 Lec., 3 Lab.

Prerequisite: Biology 221 or approval of instructor. Second course of a two-course sequence. Structure and function as related to the human digestive, nervous, respiratory, reproductive and endocrine systems. Emphasis placed on the interrelationships of these systems. Laboratory fee required.

Biology 224

Environmental Biology

3 Cr. 2 Lec., 3 Lab.

Prerequisite: 6 hrs. biology. A one semester course dealing with the basic principles and techniques of aquatic and terrestrial communities and how these relate to the problems facing man in a modern technological society. Laboratory fee required.

Biology 226 Genetics

4 Cr. 3 Lec., 3 Lab.

Fundamental concepts in genetics to include Mendelian Inheritance, recombination genetics, the biochemical theory of genetic material and mutation theory. Plant and animal materials will be used to study population genetics, linkage, gene structure and function and other concepts of heredity. Laboratory fee required.

Biology 230 Mammalian Physiology

4 Cr. 3 Lec., 3 Lab.

Prerequisite: 12 hours of biology, 8 hours of inorganic chemistry, concurrent registration in organic chemistry, and consent of instructor. A study of the function of various mammalian systems with emphasis placed on the interrelationships that exist. Utilization of instrumentation to measure various physiological parameters will be employed. Laboratory fee required.

Biology 290 (See Ecology 290) Man and His Environment

Blueprint Reading 177
Blueprint Reading

2 Cr. 1 Lec., 3 Lab.

The description and explanation of engineering drawings is the content of the course. This includes multiview projection, sections, auxiliaries, bill of materials, symbols, notes, conventions, and standards. The skills of visualization, dimensioning, and sketching of machine parts are covered in the course.

Blueprint Reading 178 Blueprint Reading

2 Cr. 1 Lec., 3 Lab.

Prerequisite: Blueprint Reading 177. This course goes beyond the basic course in respect to the kinds and complexities of engineering drawings. The different kinds of prints read are machine, piping, architectural, civil, structural, electrical, electronic, numerical control documents, and aircraft. Calculations required in blueprint reading are learned; tolerances on shafts and holes, gear drives and dimensioning, square root, right triangle trigotrue position tolerances, nometry. geometric form tolerancing, and calculation of bend allowance.

Bookkeeping (See Business 131, 132)

Business 105 Introduction to Business

3 Cr. 3 Lec.

Provides overall picture of business operation; includes analysis of specialized fields within business organization; identifies role of business in modern society. (This course offered on campus and via television)

Business 131 Bookkeeping

3 Cr. 3 Lec.

The fundamental principles of doubleentry 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 Cr. 3 Lec.

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 136 Principles of Management

3 Cr. 3 Lec.

A study of the process of management including the functions of planning, organizing, leading, and controlling. Particular emphasis on policy formulation, decision making processes, operating problems, communications theory, and motivation techniques.

Business 143 Personal Finance

3 Cr. 3 Lec.

A study of every-day 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

4 Cr. 20 Lab.

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 150 will be offered the first semester.

Business 151 Management Training

4 Cr. 20 Lab.

Prerequisite: Concurrent enrollment in approved mid-management program. A continuation of Business 150. Business 151 will be offered the second semester.

Business 154 Management Seminar — Role of Supervision

2 Cr. 2 Lec.

Prerequisites: 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 the development of management, goal setting and planning, leadership, communication and motivation as applied to the student's work experiences.

Business 155

Management Seminar: Personnel Management

2 Cr. 2 Lec.

Prerequisites: 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 the student's work experiences.

Business 159 Beginning Shorthand

4 Cr. 3 Lec., 2 Lab.

Prerequisite: Credit in or concurrent enrollment in 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 160 Machine Transcription

3 Cr. 3 Lec.

Prerequisite: Credit in Business 173 or one year of typing in high school. An intensive course in transcribing from recording machines using predictated 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

2 Cr. 1 Lec., 2 Lab.

Office machines is designed to provide the student with a skill in the operation of such machines as adding machines, printing calculators, and electronic calculators. Emphasis is placed on using the touch system in both speed and accuracy for performing the basic functions, solving problems that require the use of special keys and controls, and solving application problems.

Business 162 Secretarial Training

3 Cr. 3 Lec.

Prerequisite: Credit in 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 studied.

Business 164 Intermediate Shorthand

3 Cr.

2 Lec., 3 Lab.

Prerequisite: Credit in Business 159 or one year of shorthand in high school; credit in Business 173 or one year of typing 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 171 Introduction to Supervision

3 Cr. 3 Lec.

Prerequisite: Enrollment in Technical/ Occupational Program or consent of the instructor. A course studying today's supervisor and his problems. The course objective is to describe the practical concepts of modern-day, first line supervision. Emphasis is placed on discussing the supervisor's major functions: relations with others, motivation, communication, grievances, recruitment, counseling, and the fundamentals of cost accounting.

Business 173 Beginning Typing

2 Cr. 1 Lec., 2 Lab.

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

2 Cr. 1 Lec., 2 Lab.

Prerequisite: Credit. in BUS 173 or one year of typing in high school. Further development of techniques. Emphasis will be placed on problem solving, increasing speed and accuracy in typing business forms, correspondence, and manuscripts.

Business 201 Principles of Accounting

3 Cr. 3 Lec.

Theory and practice of measuring and interpreting financial data for business units; study of problems of income measurement, such as depreciation, inventory valuation, and credit losses; the operating cycle and the preparation of financial statements.

Business 202 Principles of Accounting

3 Cr. 3 Lec.

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 Principles of Marketing

3 Cr. 3 Lec.

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 Salesmanship

3 Cr. 3 Lec.

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

Business Correspondence

3 Cr. 3 Lec.

Prerequisites: Credit in Business 173 or one year of typing in high school; credit in 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 Advertising and Sales

Promotion

3 Cr. 3 Lec.

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 ac-

Business 234 Business Law

tivities.

3 Cr. 3 Lec.

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 239

Income Tax Accounting

3 Cr. 3 Lec.

Provides an understanding of basic income tax laws applicable to individuals and sole proprietorships. Subjects treated include personal exemption, gross in-

come, business expenses, non-business deductions, capital gains and losses. Emphasis is on those problems commonly encountered in the preparation of income tax returns.

Business 250 Management Training

4 Cr. 20 Lab.

Prerequisites: 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 250 will be offered the first semester.

Business 251 Management Training

4 Cr. 20 Lab.

Prerequisites: Business 150-151; concurrent enrollment in Business 255. A continuation of Business 250. Business 251 will be offered the second semester.

Business 254 Management Seminar — Organizational Development

2 Cr. 2 Lec.

Prerequisites: 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 Cr.

Prerequisites: 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

3 Cr. 2 Lec., 3 Lab.

Prerequisites: Credit in Business 164 or two years of shorthand in high school; credit in 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

3 Cr. 2 Lec., 3 Lab.

Prerequisites: Credit in Business 263; credit in 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

2 Cr. 1 Lec., 2 Lab.

Prerequisite: Credit in BUS 174 or two years of typing in high school. Decision making and timed production of all types of business material are 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

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Developmental Mathematics 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

4 Cr. 3 Lec., 3 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

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Developmental Mathematics 091 or equivalent. Designed for nonscience 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, solution, electrochemistry and nuclear chemistry. The descriptive chemistry of some common elements and inorganic compounds is included. Laboratory fee required.

Chemistry 116 General Chemistry

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Chemistry 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 132 Applied Chemistry I

4 Cr. 3 Lec., 3 Lab.

A survey of inorganic and organic chemistry. Applicability to veterinary medicine is stressed. The utilization of the metric system is stressed. Laboratory fee required.

Chemistry 134 Applied Chemistry II

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Chemistry 132. In-depth analysis of carbohydrates, proteins, fats, vitamins, minerals and hormones. Their role in a physiological system will be stressed. Changes in biochemical activity in the disease state will be presented. Laboratory fee required.

Chemistry 201 Organic Chemistry I

4 Cr. 3 Lec., 4 Lab.

Prerequisite: Chemistry 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 II

4 Cr. 3 Lec., 4 Lab.

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, polyfunctional compounds including amino acids, proteins, carbohydrates, sugars, heterocyclic and related compounds. Instrumental techniques will be used to identify compounds. Laboratory fee required.

Chemistry 203 Quantitative Analysis

4 Cr. 2 Lec., 6 Lab.

Prerequisites: Chemistry 102, Mathematics 101 or Mathematics 104 or equivalent. This course includes the principles of chemistry as applied by the analytical chemist to quantitive 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 Cr. 3 Lec.

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 Cr. 3 Lec.

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.

Computing Sciences 175 Introduction to Computer Sciences

3 Cr. 3 Lec.

Provides a basic understanding of the computer, cultural impact, history of computers, vocabulary, flow charts, data representation, and an introduction to a procedure oriented languages with general applications.

Computing Science 208 Introductory APL Programming

3 Cr. 3 Lec.

Prerequisite: Mathematics 101 or Mathematics 104 or Mathematics 111, and Mathematics 107 or consent of instructor. A study of APL language with emphasis on applications. This course is designed for partial fulfillment of degree requirements in Computer Science.

Cooperative Work Experience

/UI, / II, 8UI, 8TI		1 Cr.
702, 712, 802, 812		2 Cr.
703, 713, 803, 813		3 Cr.
704, 714, 804, 814	,	4 Cr.

Prerequisite: Completion of two courses in the student's major and instructor/coordinator approval. This course constitutes an on-the-job application of theory and laboratory instruction received in the formal courses of the student's major curricula. The student will be placed in a work-study position in his technical/occupational field that will test his skill and ability to function successfully in that respective occupation. The student's learning in this course will be guided by a set of learning objectives formulated at the beginning of each semester by the student, his instructor/coordinator, and his supervisor at work. A student may elect to take one to four credit hours of cooperative education. One credit hour equals 80 clock hours on the job.

Developmental Communications 095

Communicative Skills

3 Cr. 3 Lec.

A course designed for the student who needs grammar, paragraph structure, reading skills, and/or oral communication to enhance his proficiency in language communications. Students will be tested and given prescribed work in one or a combination of the elements of study as the individual needs indicate.

Developmental Communications 120

Communication Skills

3 Cr. 2 Lec., 2 Lab.

Designed for students with significant problems in communications development causing learning problems. Group sessions are supplemented with individual evaluations to provide a basis for the development of personalized programs based on needs. Inter-departmental planning provides alternative modes of learning. Special attention is given to oral language as the initial language form. The course is organized in terms of skills de-

velopment in a competency-based mode and enrollment may be accepted on a flexible basis on instructor referral.

Developmental Mathematics 090 3 Cr. Pre-Algebra Mathematics 3 Lec.

This course is designed to develop an understanding of fundamental operations using whole numbers, fractions, decimals, and percentages and to strengthen basic skills in mathematics. The course is planned primarily for students who need to review basic mathematical processes. It is the first step in the math sequence and includes an introduction to algebra.

Developmental Mathematics 091 Elementary Algebra 3 Cr. 3 Lec.

Prerequisite: Developmental Mathematics 090 or equivalent. The course 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 developmental Mathematics 090-091 and Developmental Mathematics 093 is preparatory to Mathematics 101 or Mathematics 104 as well as a foundation for Technical Mathematics.

Developmental Mathematics 093 3 Cr. Intermediate Algebra 3 Lec.

Prerequisite: One year of high school algebra or Developmental Mathematics 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.

Developmental Reading 090 Techniques of Reading/ Learning 3 Lec.

Developmental Reading 090 is designed to meet individual needs for proficiency in reading comprehension, vocabulary development, study skills, and reading for success in academic areas and career advancement. It emphasizes learning how

to learn and includes reading/learning experiences developed to strengthen the total educational background of each student. Developmental Reading 090 and Developmental Reading 091 are offered in a laboratory setting employing varied instructional methods.

Developmental Reading 091 Techniques of Reading/ Learning

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Developmental Reading 091 is designed to meet individual needs for proficiency in reading comprehension, vocabulary development, study skills, and reading for success in academic areas and career advancement. It emphasizes learning how to learn and includes reading/learning experiences developed to strengthen the total educational background of each student. Developmental Reading 090 and Developmental Reading 091 are offered in a laboratory setting employing varied instructional methods.

Developmental Reading 092 Reading Lab

1 Cr. 3 Lab.

The reading lab is a workshop designed to examine and present writings of various subject matters to students needing additional proficiency in comprehension and rate to supplement their course work. The patterns and underlying structures peculiar to a given subject area are investigated. The course is held in a laboratory setting utilizing individualized instruction techniques.

Developmental Writing 090 Writing

3 Cr. 3 Lec.

Writing 090 emphasizes the diagnosis and correction of deficiencies in basic writing skills. Spelling, grammar, vocabulary improvement, and principles of sentence and paragraph structure (as well as experience in organization for composition) are taught in a laboratory utilizing individualized instruction techniques.

3 Cr.

Developmental Writing 091 Writing

3 Cr. 3 Lec.

Writing 091 is a sequel to Writing 090 and concentrates on the composition process; therefore, it is important to develop the student's skills of organization, transition and revision. His program of composition will vary according to his individual needs, which may include brief, simple forms as well as more complex critical and research writing.

Developmental Writing 092 Writing Lab

1 Cr. 3 Lab.

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 assignments, including the research paper, and in editing for mechanical effectiveness.

Drafting 135 Reproduction Processes

2 Cr. 1 Lec., 3 Lab.

A study of equipment and processes used to reproduce technical art: graphic arts process camera, lithographic offset printing, diazo reproduction, blueprinting, photodrafting, microfilming, photocopying, silk screen printing, printed circuit board etching, thermography, typographics, xerography, engravings, and others. A special section of the course is a study of the rapidly expanding field of computergraphics. Laboratory work includes the preprartion of flats for the printing of a brochure. Laboratory fee required.

Drafting 136 Geological and Land Drafting

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Drafting 184 and Mathematics 196. This is a specialty course to prepare one for work in the area of civil drafting. Drawings completed are relief maps, plan and profile drawings, roadways, pipelines, petroleum and geophysical maps. Calculations are made from surveyor's notes to plot a traverse and to determine area. A set of drawings is pre-

pared for a residential subdivision, a shopping center, or some other type of land development.

Drafting 182 Technician Drafting

2 Cr. 1 Lec., 3 Lab.

A beginning drafting course to enable students to read and interpret engineering drawings. Topics covered include multiview drawings, pictorial drawings, dimensioning, measurement with scales, schematic diagrams, and printed circuit boards.

Drafting 183 Basic Drafting

4 Cr. 2 Lec., 6 Lab.

A beginning course for students who have had little or no previous experience in drafting. The principle 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 skills. U.S.A.S.I., government and industrial standards are used. Emphasis is placed on both mechanical skills and graphic theory.

Drafting 184 Intermediate Drafting

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Drafting 183. The instructional units provide additional understanding of drafting problems, place emphasis on the design function, and introduce several specialized drafting areas that are valuable for the designer. This course includes the detailing and assembling of machine parts, gears and cams, jigs and fixtures, a study of metals and metal forming processes, drawing room standards and reproduction of drawings. The student is assigned to work that requires him to make complete and accurate detail and assembly drawings. Laboratory fee required.

Drafting 185 Architectural Drafting

4 Cr. 2 Lec., 6 Lab.

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 drawings 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.

Drafting 230 Structural Drafting

3 Cr. 2 Lec., 4 Lab.

Prerequisites: Drafting 183 and Mathematics 196. A study of stresses, thermal and elastic qualities of materials such as beams and columns, etc.; requires the student to develop structural plans, details and shop drawings of components of buildings to include steel, reinforced concrete, and timber structures. Emphasis will be placed on drafting of appropriate drawings for fabrication and erection of structural components.

Drafting 231 Electronic Drafting

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Drafting 183. Develops skills in drawing and understanding of drawings used in the electronics industry. Topics include logic diagrams, schematic diagrams, interconnecting wiring diagrams, printed circuit boards, integrated circuits, component packaging, chassis design and current practices.

Drafting 232 Technical Illustration

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Drafting 183. Instruction and experience in the rendering of three-dimensional drawings. Orthographic views and engineer's sketches are developed into isometric, dimetric, perspective, and diagramatic drawings of equipments and their environments. Mechani-

cal lettering, air brush retouching of photographs, use of commercially prepared pressure sensitive materials, and layout of electronics schematics are included in the course. Laboratory fee required.

Drafting 233 Machine Design

4 Cr. 2 Lec., 6 Lab.

Prerequisites: Physics 131 and credit or concurrent registration in Engineering 189. Consists of the application of the principles of physics, statics, strength of materials, and physical properties of materials to the design of machine elements. Factors considered are function, environment, production, problems, and cost. Emphasis is placed on the practical application of design principles in graphic form.

Drafting 234 Advanced Technical Illustration

4 Cr. 2 Lec., 6 Lab.

Prerequisite: Drafting 232. An area of specialization is chosen and pursued in depth. Examples are pictorials for color separation printing, air brush renderings, letterforms for logos and hand lettering, complex exploded views in isometric, perspective renderings, design of commercial displays, and art for slide presentations. Laboratory fee required.

Drafting 235 Building Equipment (Mechanical and Electrical)

3 Cr. 2 Lec., 4 Lab.

Prerequisite: Drafting 183 or Drafting 185. Involves the drawing of plans and details as prepared for mechanical equipment such as air conditioning, plumbing, and electrical systems by using appropriate symbols and conventions. Consideration is given to coordination of mechanical and electrical features with structural and architectural components. Laboratory fee required.

Drafting, Basic (See Drafting 183)

Ecology 290 Man and his Environment

3 Cr. 3 Lec.

Selected topics affecting man and his environment will be treated through seminars, field studies, and special lectures. Recognized authorities and specialists from the many academic disciplines will be used as guest lecturers and resource persons. Man's responsibility to his environment, both biological and physical, will be the thesis of this course and its presentation will be interdisciplinary. This course is directed to all students interested in the environmental problems of today. (This course is offered via television.)

Economics 201 Principles of Economics I

3 Cr. 3 Lec.

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 Principles of Economics II

3 Cr. E 3 Lec. A

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.

Electronics Technology 135 D.C.-A.C. Theory and Circuit Analysis

6 Cr. 5 Lec., 3 Lab.

Prerequisite: Credit or concurrent enrollment in Mathematics 195 or equivalent. An accelerated course combining D.C. and A.C. theory in one semester's work. Topics covered include D.C. and A.C. analysis of resistive, capacitive, inductive, and combination circuits, magnetism, resonance, sine wave analysis, series, parallel and combination circuits, and schematic symbols. Laboratory fee required.

Electronics Technology 190 D.C. Circuits and Electrical Measurements

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Credit or concurrent enrollment in Mathematics 195 or equivalent. Combines mathematical theory and laboratory fundamentals in direct current circuits. Elementary principles of magnetism, electric concepts and units, diagrams, resistance, series and parallel circuits, simple meter circuits, conductors, and insulators will be emphasized. Laboratory fee required.

Electronics Technology 191 A.C. Circuits

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 190 and credit or concurrent enrollment in Mathematics 196 or equivalent. Devoted to the study of fundamental theories of alternating current and their applications in various circuits. Laboratory experiments will include power factor, sine wave analysis, resonant circuits, capacitance, inductance, Q of coils, electromagnetism, and resistance. Laboratory fee required.

Electronics Technology 193Active Devices

4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 190 and credit or taken concurrently with Electronics Technology 191. This is a course in semiconductors (active devices). This course will cover topics such as the physical structure, parameters, linear and non-linear characteristics, and operation action as applied to amplifiers, rectifiers, and electronic switching devices.

Electronics Technology 194 Instrumentation

2 Lec., 3 Lab.

3 Cr.

Prerequisites: Electronic Technology 190 and concurrent enrollment in Electronic Technology 191 and 193 or permission of instructor. A study of electrical measurement and instrumentation devices and how they apply to work situations. Specific devices and measuring instruments in classes of measuring devices including

basic AC and DC measurements meters, impedance bridges, oscilloscopes, signal generators, signal tracers, tube and transistor testers, concluding with a study of audio frequency test methods and equipment. Laboratory fee required.

Electronics Technology 231 Special Circuits with Communications Applications 4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 193 and Electronics Technology 194. Active devices are applied to circuitry common in communications equipment. Both the theory of operation and practical applications of the circuits in laboratory exincluded. Circuits periments аге including amplifiers, oscillators, detecmodulators. tors, transmitters. antennas with lines. and mission application to various types of intelligence transmission and reception are emphasized in the course. Laboratory fee reauired.

Electronics Technology 232 Analysis of Electronics Logic and Switching Circuits 4 Cr. 3 Lec., 3 Lab.

Prerequisites: Electronics Technology 193 and Electronics Technology 194. The course presents circuitry common to the increasing variety of electronic control systems and automatic measuring systems. These circuits require either a certain output waveform from a device or a specific response of a device to a particular input waveform. Typical circuit functions covered in the course include clamping, gating, switching, and counting. The circuits which perform these functions are voltage discriminators, multivibrators, dividers, counters and AND. or NOR, etc. gating circuits. A review of Boolean algebra and binary numbers will be presented. Emphasis is placed on semiconductor devices. Fluidic switching devices are introduced. Laboratory fee required.

Electronics Technology 233 Industrial and Microwave Electronic Technology

3 Lec., 3 Lab. Prerequisites: Electronics Technology 194 and Electronics Technology 231. The microwave portion of this semester's work involves a study of U.H.F. and V.H.F. components, circuits, and measurement techniques including the use of distributed constant-element waveguides, wave links, and an introduction to radar and similar systems. The industrial electronics portion of the semester's work involves a study of time constant and electronic timing circuits, photoelectric controls, synchros and servomechanisms, induction and dielectric heating, radiation detention, applications in the field of industrial control and automation, combining of electrical electronic, magnetic, and mechanical principles. Laboratory fee

Electronics Technology 234 Electronic Circuits and Systems

required.

3 Cr. 6 Lab.

4 Cr.

Prerequisites: Must have completed all electronic courses up to and including Electronics Technology 231 and may take Electronics Technology 232 and Electronics Technology 231 simultaneously with Electronics Technology 234. A supervised course consisting of design, layout construction and calibration of an electronics project. Students will utilize all tools and equipment available. The student will be required to prepare a term paper which incorporates such material as functions of components, operating specifications, and schematics. The student must develop a project independently through conferences and activities directed by the instructor. Laboratory fee required.

Electronics Technology 235 Fundamentals of Electricity 4 Cr. 3 Lec., 3 Lab.

An introductory course for students requiring or desiring a background knowledge of electricity for related curriculums or occupations. Topics covered include basic A.C. and D.C. theory, voltage, cur-

rent and resistance; electrical wiring principles and schematics, transformers, relays, timers, electrical measuring devices, and basic electrical calculations.

Electronics Technology 236 Electronics Theory and Application of Digital Computers

3 Cr. 3 Lec.

Prerequisites: Mathematics 196 and Electronics Technology 193. The course is designed primarily to provide related theory and applications of electronic switching circuits to digital computer systems. Logic symbology, gates, and related Boolean algebra to predict the output of such circuits are presented. An overview of general computer terminology and number systems is provided. APL programming with respect to basic electronic circuit analysis is also included.

Engineering 106 Descriptive Geometry

3 Cr.

2 Lec., 4 Lab.

Prerequisite: Drafting 183 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. Laboratory fee required.

Engineering 186 Manufacturing Processes

2 Cr. 1 Lec., 2 Lab.

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.

English 101 Composition and Expository Reading

3 Cr. 3 Lec.

Writing and reading activities designed to help the student write more clearly and effectively and read more enjoyably and efficiently. (This course is offered on campus and via television.)

English 102

Composition and Literature

3 Cr. 3 Lec.

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. (This course is offered on campus and via television.)

English in the Sophomore Year

(English 201, 202, 203, 204, 205, 206, 215, and 216 are independent units of three credit hours each, from which any combination of two will be selected to satisfy degree requirements in sophomore English. Student should consult catalog of the senior college he expects to attend for requirements in his major before choosing English courses.)

English 201 British Literature

3 Cr. 3 Lec.

Prerequisite: English 102. A study of significant works of British Literature from the Old English period through the eighteenth century.

English 202 British Literature

3 Cr. 3 Lec.

Prerequisite: English 102. Study of important works from the Romantic period to the present.

English 203

World Literature

3 Cr. 3 Lec.

Prerequisite: English 102. Reading and analysis of significant continental European works from the Greek classical period through the Renaissance.

English 204 World Literature

3 Cr. 3 Lec.

Prerequisite: English 102. Study of ten to twelve important post-Renaissance works of continental Europe, England, and America.

English 205

American Literature 3 Cr. 3 Lec.

Prerequisite: English 102. Study of the works of the important writers before Whitman in the context of their times.

English 206

American Literature 3 Cr. 3 Lec.

Prerequisite: English 102. Reading and analysis of representative works from Whitman to the present.

English 209 Creative Writing

3 Cr. 3 Lec.

Prerequisite: English 102. Writing of fiction: short story, poetry and short drama.

English 215 Studies in Literature

3 Cr. 3 Lec.

Prerequisite: English 102. The student will read, analyze and discuss selections in literature unified by period, genre or theme. Course titles and descriptions will be available each semester prior to registration.

English 216 Studies in Literature

3 Cr. 3 Lec.

Prerequisite: English 102. The student will read, analyze and discuss selections in literature unified by period, genre or theme. Course titles and descriptions will be available each semester prior to registration. English 216 courses differ from those offered in English 215.

French 101 Beginning French

4 Cr. 3 Lec., 2 Lab.

Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension and oral expression, laboratory fee required.

French 102 Beginning French

Prerequisite: French 101 or equivalent. Continuation of French 101 with emphasis on idiomatic language and complicat-

ed syntax. Laboratory fee required.

French 201 Intermediate French

3 Cr. 3 Lec.

4 Cr.

3 Lec., 2 Lab.

Prerequisite: French 102 or consent of the instructor. Reading, composition, grammar review and intense oral practice.

French 202

Intermediate French

3 Cr. 3 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 Cr. 3 Lec.

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 Cr. 3 Lec.

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 Cr. 3 Lec.

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 Physical Geology

4 Cr. 3 Lec., 3 Lab.

Study of earth materials and processes for science and non-science majors. Includes introduction to geochemistry, geophysics, examination of the earth's interior, magnetism, setting in space, minerals, rocks, structure and geologic processes. Laboratory fee required.

Geology 102

General Geology (Historical) 4 Cr. 3 Lec., 3 Lab.

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

4 Cr. 3 Lec., 2 Lab.

Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension, and oral expression. Laboratory fee required.

German 102 Beginning German

4 Cr.

3 Lec., 2 Lab. 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 Cr. 3 Lec.

Prerequisite: German 102 or equivalent or consent of the instructor. Reading, composition, grammar review and intense oral practice.

German 202 Intermediate German

3 Cr. 3 Lec.

Prerequisite: German 201 or equivalent. Continuation of German 201 with reading selections drawn more directly from contemporary literary sources. Composition.

Government 201 American Government

3 Cr. 3 Lec.

Prerequisite: Sophomore standing recommended. An introduction to the study of political science; origin and development of constitutional democracy (United States and Texas); federalism and intergovernmental relations; local government; parties, politics and political behavior. Satisfies requirements for Texas State Teacher's Certification. (This course is offered on campus and via television.)

Government 202

American Government

3 Cr. 3 Lec.

Prerequisite: Government 201 and sophomore standing recommended. A study of the United States and Texas legislative process, the executive and the bureau structure, the judicial process, civil rights and liberties, domestic policies. Other topics include foreign relations and national defense. Satisfies requirements for Texas State Teacher's Certification.

History 101

History of the United States

3 Cr. 3 Lec.

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

History of the United States

3 Cr. 3 Lec.

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

Western Civilization

3 Cr. 3 Lec.

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 Western Civilization

3 Cr. 3 Lec.

The unfolding of the pattern of modern western civilization from the Enlightenment to current times. A study of the Age of Revolution and the beginning of industrialism; the nineteenth century and the social, economic, and political factors of recent world history.

History 120

Afro-American History 3 Cr. 3 Lec.

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.

History 204
American Minorities

3 Cr. 3 Lec.

5 Cr.

Prerequisites: Sociology 101 and/or six hours of U.S. history 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. The student may register for either History 204 or Sociology 204.

Horology 131 Introduction to Horology: Clock

Theory and Repair

Lec. 1 Hr./week Lab. 14 Hrs./week Total 225 Contact Hrs.

Includes history, design, and repair techniques of French, German, English and early American clock movements, both weight-driven and spring-driven. The emphasis in laboratory practice is on

cleaning procedures, rebushing plates, repivoting wheels, aligning strike and chime sequences for French strike and rack-and-snail. The wide variety of movement design studies covers grandfather, wall, shelf, chiming, and tower clocks. The student will develop skill in the use and care of specialized hand tools and equipment. Completion of this course may allow the student to enter Horology 133 and Horology 134 without an advanced placement examination. Laboratory fee required.

Horology 132

Introduction to Horology: Modern
Clock Theory and Repair 5 Cr.
Lec. 1 Hr./week
Lab. 14 Hrs./week

An essential course for the retail horologist/clockmaker. Covers design factors and repair techniques of American, German, and Swiss clock movements with weight, spring, motor, and battery power in the 30-hour, 8-day, 31-day, and 400-day variations. Laboratory practice will develop the student's skill in the repair and adjustment of anniversary, cuckoo, travel, alarm, desk, mantel, and electric clocks.

Completion of this course may allow the

student to enter Horology 133 and Horol-

ogy 134 without an advanced placement

examination. Laboratory fee required.

Toatl 225 Contact Hrs.

Horology 133 Watch Cleaning and Assembly

6 Cr. Lec. 1 Hr./week Lab. 15 Hrs./week Total 256 Contact Hrs.

Prerequisites: Horology 131 and Horology 132 or a practical and written qualification test. The student will develop skills in hand cleaning and ultrasonic machine cleaning of watch parts, in removing rust and scale, in inspection and in proper lubrication of subassemblies. Learning will progress from the pocket watch through wrist and baquette sizes. Special emphasis is placed on the use and care of precision hand tools, personal work habits and attitudes, and on polishing care, crystal,

and band. An introduction to timing record analysis is part of this course. Laboratory fee required.

Horology 134
Watch Part Replacement 6 Cr.
Lec. 1 Hr./week
Lab. 15 Hrs./week
Total 256 Contact Hrs.

Prerequisites: Horology 131 and Horology 132 or advanced placement examination. The objective of this course is to develop the student's skill to the highest degree in the precise selection and replacement of damaged watch parts. Detailed procedures for changing balance staffs, stems, crowns, crystals, gaskets, hands, roller jewels, balance and plate jewels, pallet jewels, and mainsprings are covered. Emphasis is placed on proper nomenclature, movement identification, and metric measurement. The use and care of many special tools will be introduced, and the staking tool in particular will be mastered as the most versatile repair tool for the horologist. Laboratory fee required.

Horology 135
Advanced Watchmaking I 5 Cr.
Lec. 3 Hrs./week
Lab. 32 Hrs./week
Total 210 Contact Hrs.

Prerequisites: Horology 133 and Horology 134 or advanced placement examination. This is an introductory course to escapement work, position adjusting, and complicated watch movement. Laboratory practices will emphasize hairspring straightening, balance wheel truing and poising, roller and pallet jewel tightening, overhauling of various calendar and self-winding devices, several types of electric watch movement, and the stopwatch. Laboratory fee required.

Horology 136
Advanced Watchmaking II 5 Cr.
Lec. 3 Hrs./week
Lab. 32 Hrs./week
Total 210 Contact Hrs.

Prerequisites: Horology 133 and Horology 134. The fine points of the horologist training are presented in this course. Student will match a level escapement by adjusting lock, drop, draw, and impulse on

the large classroom escapement model. Timing machine records will be analyzed to determine causes of error and to prove corrective action. Additional laboratory practices will include overhaul and adjustment of wrist chronographs and electronic movements. Advanced-design digital watch will be discussed. Laboratory fee required.

Horology 137 Customer and Business Relations

2 Cr. Lec. 2 Hrs./week Total 32 Contact Hrs.

This course will develop in the student a confident attitude toward his contacts with business people and the general public as a customer. Emphasis is placed on estimating repair work, record keeping, ordering of materials and parts, trade organizations and periodicals for the horologist personal and work habits, simple bookkeeping, insurance, career advancement and other avenues of endeavor for the competent horologist.

Human Development 105 Basic Processes of Interpersonal Relationships

3 Cr. 3 Lec.

3 Cr.

3 Lec.

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 is 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 Personal and Social Growth

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 Developing Leadership Behavior

Prerequisite: Consent of instructor. 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

Humanities 101 Introduction to the Humanities

emphasized.

3 Cr. 3 Lec.

3 Cr.

3 Lec.

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.

Journalism 101 Introduction to Mass Communications

3 Cr. 3 Lec.

A survey course designed to provide students with a panoramic view of the field of mass communications and an understanding of the role of mass media in modern society. Not restricted to journalism majors.

Journalism 102 News Gathering and Writing 3 Cr. 2 Lec., 3 Lab.

Prerequisite: Typing ability. Beginning reporting, study of types of news, leads, body treatment of story, feature in lead, facts, background, and practice of writing straight news story. Required for all journalism majors.

Journalism 103

News Gathering and Writing 3 Cr. 2 Lec., 3 Lab.

Prerequisite: Journalism 102. Required for all journalism majors. A continuation of Journalism 102. The writing of more complex types of news stories. Specialized writing in the fields of sports, police news, markets, finance, society, amusements, government, and news interest to women. Additional laboratory work on the student newspaper.

Journalism 104 Student Publications

1 Cr. 3 Lab.

Individual staff assignments on the student newspaper in one of the following journalistic fields: writing, advertising, photography, cartooning, editing. Students 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 unit per semester. May be repeated for a total of three units credit.

Journalism 105 Student Publications

1 Cr. 3 Lab.

Individual staff assignments on the student newspaper in one of the following journalistic fields: writing, advertising, photography, cartooning, editing. Students 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 unit per semester.

Journalism 201 Editorial and Feature Writing

3 Cr. 3 Lec.

Prerequisites: 6 hours of journalism or consent of instructor. Emphasis is on handling of difficult news stories, editorial matter, and feature material. Research and interviewing techniques are emphasized with careful attention to development of feature stories for use in newspapers and magazines.

Journalism 202 Student Publications

1 Cr. 3 Lab.

Prerequisite: Permission of instructor. Individual staff assignments on the student newspaper in one of the following journalistic fields: writing, advertising, photography, cartooning, editing. Students 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 unit per semester.

Journalism 203 Student Publications

1 Cr. 3 Lab.

Individual staff assignments on the student newspaper in one of the following journalistic fields: writing, advertising, photography, cartooning, editing. Students 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 unit per semester.

Journalism 204 News Editing and Copy Reading

3 Cr. 3 Lec.

Prerequisite: Journalism 102. A detailed course in editing news for presentation in the newspaper and on radio and television. Special emphasis on writing headlines and laying out pages.

Machine Shop 133 Basic Lathe

5 Cr.

Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

A basic course designed to provide practical experience in the areas of hand tools, layout, and hand threading. Introduction to various types of drill press work. Introduction to the engine lathe. The student also becomes familiar with the various types of cutting tools and operations performed on the engine lathes. Special emphasis is placed on safety measures. Instruction in the types and application of

machine oils and greases, coolants and cutting oils is included. Laboratory fee required.

Machine Shop 134 Basic Milling Machine

nine 5 Cr. Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

A basic course designed to provide practical experience in the area of hand threading. Introduction to various types of drill press work. Instruction is provided in some of the fundamental operations common to milling machine practice. The student becomes familiar with the various parts of the machine and with various cutters and arbors. Special emphasis is placed on safety measures. Instruction in the types and applications of machine oils and greases, coolants and cutting oils is included. Laboratory fee required.

Machine Shop 135 Intermediate Lathe

e 5 Cr. Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

Prerequisite: Machine Shop 133. Additional experience and skill are gained on the engine lathe. Workpieces become more complicated and tolerances more exacting. Operations are performed on machines of various sizes. Use is made of various work-holding methods in performing the operations of drilling, boring, and reaming on the lathe. Introduction to the various precision layout and measuring tools and practices is included. The student also develops further skill in determining cutting speeds and feeds. Laboratory fee required.,

Machine Shop 136 Intermediate Milling Machine

5 Cr. Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

Prerequisite: Machine Shop 134. Additional experience and skill are gained on the milling machine. Workpieces become more complicated and tolerances more exacting. Operations are performed on machines of various sizes and types. Use

is made of various workholding methods. Introduction to the various precision layout and measuring tools and practices is included. The student also develops further skill in determining cutting speeds and feeds. Laboratory fee required.

Machine Shop 151 Basic Machine Operation for Weld Tooling

3 Cr. Lec. 1 Hr./week Lab. 4 Hrs./week Total 80 Contact Hrs.

This is a basic course designed to provide the welding student with the fundamental knowledge required to build simple weld tooling. Shop safety will be stressed throughout. Actual weld fixture components and/or weld fixtures will be fabricated using engine lathes, milling machine, and drill presses. Classroom activity will cover all supportive information required to accomplish the work program. Laboratory fee required.

Machine Shop 233 Advanced Lathe

5 Cr. Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

Further experience is gained on the engine lathe. Skill is developed in making open setups. Location of holes by means of layout and triangulation is made. Further use of various attachments and accessories used on the engine lathe is made. Introduction to surface grinding and grinding wheel safety is made during this semester. Laboratory fee required.

Machine Shop 234
Advanced Milling Machine 5 Cr.
Lec. 1 Hr./week
Lab. 8 Hrs./week
Total 144 Contact Hrs.

Further experience is gained on the milling machine. Skill is developed in making open setups. Location of holes by means of layout and triangulation is made. Further use of various attachment and accessories used on the milling machine is made. Introduction to surface grinding and grinding wheel safety is made during this semester. Laboratory fee required.

Machine Shop 235 Applied Lathe

5 Cr. Lec. 1 Hr./week Lab. 8 Hrs./week Total 144 Contact Hrs.

During this semester emphasis is placed on independent planning in selecting the means and methods of performing laboratory assignments on the lathe. Emphasis will be placed on interchangeability of workpieces, fits, and finishes. An attempt will be made to encourage initiative and ingenuity. During this semester an introduction will be made to tool and cutter grinding. Laboratory fee required.

Machine Shop 236
Applied Milling Machine 5 Cr.
Lec. 1 Hr./week
Lab. 8 Hrs./week
Total 144 Contact Hrs.

During this semester emphasis is placed on independent planning in selecting the means and methods of performing laboratory assignments on the milling machine. Emphasis will be placed on interchangeability of workpieces, fits, and finishes. An attempt will be made to encourage initiative and ingenuity. During this semester an introduction will be made to tool and cutter grinding. Laboratory fee required.

Mathematics 101 College Algebra

3 Cr. 3 Lec.

Prerequisite: Two years of high school algebra or Developmental Mathematics 093. Study of sets, real and complex numbers, absolute value, special products and factoring, exponents and radicals, functions and relations, variation, linear and quadratic equations, logarithms, functions of two variables, systems of equations and inequalities, elementary aspects of the theory of equations, progressions, the binomial theorem and algebraic proof.

Mathematics 102 Plane Trigonometry

3 Cr. 3 Lec.

Prerequisites: Mathematics 101 or equivalent. A study of angular measure, functions of angles, identities, solution of triangles, equations, inverse trigonometric functions, logarithms and complex numbers.

Mathematics 104 Elementary Functions and Coordinate Geometry I

5 Cr. 5 Lec.

Prerequisites: Two years of high school algebra or Developmental Mathematics 093. A study of the concept of function, polynomials of one variable, arithmetic and geometric sequences, combinations and the binomial theorem, rational functions, polynomials of more than one variable, exponential functions, logarithmic functions, trigonometric functions, complex numbers, vectors, functions of two variables, and analytical geometry which includes conics, transformation of coordinates, polar coordinates, parametric equations, and three dimensional space.

Mathematics 105 Elementary Functions and Coordinate Geometry II

5 Cr. 5 Lec.

Prerequisite: Mathematics 104. A continuing study of the topics of Mathematics 104.

Mathematics 106 Elementary Functions and Coordinate Geometry

5 Cr. 5 Lec.

Prerequisites: Two years of high school algebra and one semester of trigonometry. A study of the algebra of functions to include the following: polynomial, rational, exponential, logarithmic and trigonometric functions, functions of two variables, complex numbers, vectors, and analytic geometry to include conics, transformation of coordinates, polar coordinates, parametric equations, and three dimensional space.

Mathematics 107

Fundamentals of Computing 3 Cr. 3 Lec.

Prerequisite: Two years high school algebra or Developmental Mathematics 093. An introductory course designed primarily for students desiring credit toward a minor or major in Computer Science. The content of this course includes a

study of algorithms and an introduction to a procedure oriented language with general applications.

Mathematics 111 Mathematics for Business and Economics I

3 Cr. 3 Lec.

Prerequisite: Two years of high school algebra or Developmental Mathematics 093. A study of equations, inequalities, matrices, linear programming, and linear, quadratic, polynomial, rational, exponential, and logarithmic functions. Applications to business and economics are emphasized.

Mathematics 112 Mathematics for Business and Economics II

3 Cr. 3 Lec.

Prerequisite: Mathematics 111. Study of sequences and limits, differential calculus, integral calculus, optimization and appropriate applications.

Mathematics 115 College Mathematics I

3 Cr. 3 Lec.

Prerequisites: One year of high school algebra and one year of high school geometry or two years of high school algebra or Developmental Mathematics 093. 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 Cr. 3 Lec.

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 117 Fundamental Concepts of Mathematics for Elementary Teachers

3 Cr. 3 Lec.

A study of the structure of the real number system, geometry and mathematical analysis with emphasis on the development of basic concepts in mathematical thinking needed for elementary teachers.

Mathematics 121 Analytic Geometry

3 Cr. 3 Lec.

Prerequisite: Mathematics 102 or equivalent. A study of the real numbers, distance, the straight line, conics, transformation of coordinates, polar coordinates, parametric equations, and three-dimensional space.

Mathematics 126 Introductory Calculus

5 Cr. 5 Lec.

Prerequisites: Mathematics 105, 106, 121 or equivalent. A study of limits, continuity, derivatives, slopes, tangents, chain rule, implicit differentiation, higher derivatives, differentials, integration, applications of differential and integral calculus, and trigonometric and inverse trigonometric functions.

Mathematics 130 Business Mathematics

3 Cr. 3 Lec.

Prerequisite: One year of high school algebra or Developmental Mathematics 091 or the equivalent. A study of 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 139 Applied Mathematics

3 Cr. 3 Lec.

Prerequisite: One year of high school algebra or Developmental Mathematics 091 or equivalent. A study of commercial, technical, and other applied uses of math-

ematics. An effort will be made to tailor the course to fit the needs of the students enrolled in each section.

Mathematics 195 Technical Mathematics

3 Cr. 3 Lec.

Prerequisite: Developmental Mathematics 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, systems of simultaneous equations, stated problems, determinants, progressions, and the binomial theorem.

Mathematics 196 Technical Mathematics

3 Cr. 3 Lec.

Prerequisite: Mathematics 195. A course for technical students which includes a study of the following: the trigonometric functions of angles, trigonometric identities, inverse trigonometric functions, trigonometric equations, complex numbers, logarithms, vectors, and the solution of triangles.

Mathematics 202 Introductory Statistics

3 Cr. 3 Lec.

Prerequisite: Two years of high school algebra or consent of instructor. A study of collection and tabulation of data, bar charts, graphs, sampling, measures of central tendency and variability, correlation, index numbers, statistical distributions, probability and applications to various fields.

Mathematics 221 Linear Algebra

3 Cr. 3 Lec.

Prerequisite: Mathematics 126 or equivalent. A study of matrices, linear equations, dot products, cross products, geometrical vectors, determinants, n-dimensional space, and linear transformation.

Mathematics 227 Mathematical Analysis I

4 Cr. 4 Lec.

Prerequisite: Mathematics 126 or equivalent. A continued study of techniques of differentiation and integration. This will include logarithmic and exponential functions, parametric equations, polar coordinates, hyperbolic functions and vectors.

Mathematics 228 Mathematical Analysis II

3 Cr. 3 Lec.

Prerequisite: Mathematics 227 or equivalent. A continued study of vectors, functions of several variables, partial derivatives, multiple integrals, indeterminate forms and infinite series.

Mathematics 230 Differential Equations

3 Cr. 3 Lec.

Prerequisite: Mathematics 224 or Mathematics 228, or consent of instructor. A course in ordinary differential equations concerned with first order equations, singular solutions, and selected methods of solving and analyzing differential equations of first and higher order.

Music 101 Freshman Theory

4 Cr. 3 Lec., 3 Lab.

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 Freshman Theory

4 Cr. 3 Lec., 3 Lab.

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 Music Appreciation

3 Cr. 3 Lec.

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 Italian Diction

1 Cr. 2 Lab.

A study of the phonetic sounds of the Italian language, with selected vocabulary and little or no conversation. Primarily for voice majors.

Music 106 French Diction

1 Cr. 2 Lab.

A study of the phonetic sounds of the French language, with selected vocabulary and little or no conversation. Primarily for voice majors.

Music 107 German Diction

1 Cr.

2 Lab.

A study of the phonetic sounds of the language, with selected vocabulary and little or no conversation. Primarily for voice majors.

Music 110 Music Literature

3 Cr.

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 Music Literature

3 Cr. 3 Lec.

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 Cr. Foundations in Music I 3 Lec.

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 maior.

Music 114

3 Cr. Foundations in Music II 3 Lec.

Prerequisite: Music 113. A continuation of Music 113.

Music 117 Piano Class I

1 Cr. 2 1ah.

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 Piano Class II

1 Cr. 2 Lab.

Includes techniques, skills, harmonization, transposition, improvisation, accompanying, sightreading and performing various styles of repertoire. Open to all students.

Music 119 Guitar Class I

1 Cr. 2 Lab.

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 120 Guitar Class II

1 Cr. 2 Lab.

Prerequisite: Music 119 or the equivalent. A continuation of the skills introduced in Music 119 with emphasis on perfecting classical guitar techniques and music reading skills.

Music 121-141

Applied Music — Minor

1 Cr. 1 Lec.

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. Fee required.

Music 143

Applied Music — Drum Set

1 Cr. 1 Lab.

Private lessons in jazz-rock drums. One one-half hour lesson per week.

Music 150

Chorus

1 Cr. 3 Lab.

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

1 Cr. 2 Lab.

A course teaching the principles of breathing, voice production, tone control, enunciation and phrasing. Two group lessons a week. Open to all nonvoice majors.

Music 152 Voice Class II

1 Cr. 2 Lab.

A continuation of Music 151 with emphasis on solo singing, appearance in studio recital, stage deportment, and personality development. Open to all non-voice maiors. Two group lessons a week.

Music 155

Vocal Ensemble

1 Cr. 3 Lab.

A select group for mixed voices concentrating upon excellence of performance. Membership is open to any student by audition, who, in the opinion of the director, possesses special interest and skills in performance of advanced choral literature.

Music 156 Madrigal Singers

1 Cr. 3 Lab.

Select group of vocalists offering experience in the reading and performance of literature for small ensembles. Membership through audition with the appropriate director.

Music 171 Woodwind Ensemble

1 Cr. 3 Lab.

Select group of instrumentalists offering experience in the reading and performance of literature for small ensembles. Membership through audition with the appropriate director.

Music 172 Brass Ensemble -

1 Cr. 3 Lab.

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

1 Cr. 3 Lab.

Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 174 Keyboard Ensemble

1 Cr. 3 Lab.

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

1 Cr. 3 Lab.

Select group of instrumentalists offering experience in the reading and performing of literature for small ensembles. Membership through audition with the appropriate director.

Music 176 Symphonic Wind Ensemble

1 Cr. 3 Lab.

The symphonic wind ensemble functions as a group in which students study and perform stylistic literature of all periods. Required of all instrumental music majors.

Music 181 Lab Band

1 Cr. 3 Lah.

Prerequisite: Permission of the instructor. The lab band functions as a group in which students study and perform all forms of commercial music; i.e. jazz, pop, ballad, rock. Student arranging, composing, and conducting is encouraged.

Music 199 Recital

1 Cr. 2 Lab.

One period per week designed to allow students of private lessons an opportunity to perform before an audience. Required for all music majors and open to all other students. Credit for this course does not apply to the associate degree.

Music 201 Sophomore Theory

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Music 101-102 or 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 Sophomore Theory

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Music 201 or equivalent or by consent of instructor. A continuation of Music 201, including a study of sonataallegro 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.

Music 203 Composition

3 Cr. 3 Lec.

Prerequisite: Music 101, Music 102. Composing in small forms for single media in both traditional styles and styles of the student's choice. May be repeated for credit.

Music 221-241 Applied Music — Concentration

2 Cr. 1 Lec.

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. Fee required.

Music 251-270 Applied Music — Major

3 Cr. 1 Lec.

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. Fee required.

Office Machines (See Business 161)

Philosophy 102 Introduction to Philosophy

3 Cr. 3 Lec.

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 principal views, both ancient and modern, are examined as possible solutions.

Philosophy 105 Logic

3 Cr. 3 Lec.

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 202 Introduction to Social and Political Philosophy

3 Cr. 3 Lec.

Prerequisite: Three hours of philosophy or consent of instructor. An examination of the relationships of philosophical ideas to the community with emphasis on concepts of natural rights, justice, education, freedom and responsibility.

Philosophy 203

Ethics

3 Cr. 3 Lec.

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 210 Studies in Philosophy

3 Cr. 3 Lec.

Prerequisite: Three hours of Philosophy or sophomore standing. Students will study a philosophical problem, movement, or special topic. Course titles and descriptions will be available each semester prior to registration.

Photography 110

Introduction to Photography and Photo-Journalism 3 Cr. 2 Lec., 4 Lab.

Introduction to photography and photojournalism. The general mechanics of camera lenses and shutters, general characteristics of the photographic films, papers, and chemicals. Proper photographic darkroom procedures including enlarging, processing, contact printing, and exposing of photographic films and papers. Study of artificial lighting. Laboratory fee required.

Photography 111 Advanced Photography and Photo-lournalism

3 Cr. 3 Lec., 4 Lab.

Advanced photography and photojournalism. Utilization of everything taught in 101, with emphasis on refining techniques. Special emphasis on photographic communication.

Physical Education 100 Lifetime Sports Activities

1 Cr. 3 Lab.

Students are provided an opportunity for participation and instruction in various lifetime sports. Selection may be made from archery, badminton, bowling, golf, handball, racquetball, softball, swimming, tennis, and other sports. Activities may be offered singularly or in combinations. Instruction shall be presented at the beginner and advanced-beginner levels. The course is designed for male and female students and may be repeated for credit providing students select different activities. Laboratory fee required.

Physical Education 101 Fundamentals of Health

3 Cr.

A study of personal and community health. Emphasis placed on causative factors of mental and physical health and the means of disease transmission and prevention. For majors, minors, and students with specific interest.

Physical Education 104 Touch Football/Soccer

1 Cr. 2 Lab.

A course designed for those students desiring instruction and skill development in touch football and soccer. Male students only. Uniform required. Laboratory fee required.

Physical Education 110 Community Recreation

3 Cr. 3 Lec.

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 112 Softball and Soccer

1 Cr. 2 Lab.

Designed to provide the student an opportunity for instruction and participation in softball and soccer. Uniform required. Laboratory fee required.

Physical Education 113 Handball and Raquetball

1 Cr. 2 Lab.

Designed to provide the student an opportunity for basic skills development in handball and raquetball. Uniform required. Laboratory fee required.

Physical Education 115 Physical Performance Lab

1 Cr. 3 Lab.

This 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. Coeducational. Uniform required. Laboratory fee required.

Physical Education 116 Intramural Athletics

1 Cr. 2 Lab.

A coeducational activity class designed to offer intramural competition in a variety of co-educational activities. Uniform and activity fee required.

Physical Education 118 Beginning Golf

1 Cr. 2 Lab.

A co-educational class in beginning golf. No uniform required. Laboratory fee required.

Physical Education 120 Beginning Bowling

1 Cr.: 2 Lab.

A co-educational class in beginning bowling. Equipment furnished. No uniform required. Laboratory fee required.

Physical Education 122 Gymnastics and Tumbling

1 Cr. 2 Lab.

A co-educational class in tumbling, horizontal bar, parallel bars, rings and trampoline, Uniform required, Laboratory fee required.

Physical Education 123 Beginning Swimming

1 Cr. 2 Lab.

A co-educational course designed to teach a non-swimmer to survive in the water. Uniform required, Laboratory fee required.

Physical Education 124 Social Dance

1 Cr. 2 Lab.

Students who have limited experience in dance will find this course beneficial. Ballroom and social dance includes fundamental steps and rhythms of the foxtrot, waltz, tango, and recent dance steps. 'Country' dancing includes reel, square dance, and other related dances. Laboratory fee required.

Physical Education 125 Figure Training and Conditioning Exercise

1 Cr. 3 Lab.

A course designed to develop an understanding of controlling body weight and muscular development through vigorous rhythmical activities. Uniform required. Laboratory fee required.

Physical Education 127 Basketball and Volleyball

1 Cr. 2 Lab.

Techniques, rules and strategy of the game will be taught and the emphasis will be on playing the game. Uniform required. Laboratory fee required.

Physical Education 129 Modern Dance

1 Cr. 2 Lab.

A co-educational, beginning class in modern dance. Uniform required. Laboratory fee required.

Physical Education 131 Weight Training and Conditioning for Men

1 Cr. 3 Lab.

A course designed for those students who desire instruction and participation in weight training and conditioning techniques. Uniform required. Laboratory fee required.

Physical Education 134 Outdoor Education

1 Cr. 3 Lab.

A co-educational course designed to provide students with the opportunity to gain knowledge and skills in outdoor education and camping activities through planned and incidental experiences. Including a week-end camp-out. uniform required. Laboratory fee required.

Physical Education 144 Introduction to Physical Education

3 Cr. 3 Lec.

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 Sports Officiating I 3 Cr.

2 Lec., 2 Officiating

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 Sports Officiating II

3 Cr. 2 Lec., 2 Officiating

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 200 Lifetime Sports Activities II

1 Cr. 3 Lab.

A continuation of Physical Education 100. Students are provided an opportunity for participation and instruction in selected activities. Activities shall be presented at the intermediate and intermediate/advanced levels. This course may be repeated two times for credit. For male and female students. Laboratory fee required.

Physical Education 210 Sports Appreciation for the Spectator

3 Cr. 3 Lec.

A course specifically designed as an elective course for all students who desire a broader knowledge of major and minor sports. Rules, terminology, and philosophies of many sports are studied. Special emphasis shall be directed toward football and basketball.

Physical Education 218 Intermediate Golf

1 Cr. 2 Lab.

Prerequisite: Permission of instructor. A course designed to develop skills and techniques beyond the 'beginner' stage. Laboratory fee required.

Physical Education 219 Intermediate Tennis

1 Cr. 2 Lab.

Prerequisite: Permission of instructor. A course designed to develop skills and techniques beyond the 'beginner' stage. Uniform required. Laboratory fee required.

Physical Education 222 Intermediate Gymnastics

1 Cr. 2 Lab.

Prerequisite: Physical Education 122. A course designed to develop skills and techniques beyond the 'beginner' stage. Uniform required. Laboratory fee required.

Physical Education 223 Intermediate Swimming

1 Cr. 2 Lab.

Prerequisite: Deep water swimming. A co-educational course designed to qualify students for Red Cross Life Saving card. Stroke analysis and diving will be included. Uniform required. Laboratory fee required.

Physical Education 224 Skin and Scuba Diving

1 Cr. 2 Lab.

Prerequisite: Deep water swimmer. Instruction and practice in use of equipment, techniques, and fundamentals of skin and scuba diving. Co-educational. Arrangements will be made regarding equipment. Laboratory fee required.

Physical Education 233 Water Safety Instructor

1 Cr. 2 Lab.

Prerequisite: Current Senior Life Saving card. Principles and techniques for instructors in water safety and life saving classes. Satisfactory completion of course qualifies the student to test for certification by the Red Cross as water safety instructor. Uniform required. Laboratory fee required.

Physical Education 236 The Coaching of Football and Basketball

3 Cr. 2 Lec., 2 Lab.

An elective course designed for all students who desire a broader knowledge of the skills and techniques involved in football and basketball coaching; history, theories, philosophies, rules, terminology, and the finer points of the sports are studied. Emphasis directed toward coaching techniques.

Physical Education 257 Standard and Advanced First Aid

3 Cr. 3 Lec.

Theory and practice in the standard and advanced courses of the American National Red Cross in First Aid Safety.

Physical Science 119 **Physical Science**

4 Cr. 3 Lec., 2 Lab.

The course encompasses the interaction of the earth sciences and man's physical world, geology, astronomy, meteorology space science are emphasized through the application of selected principles and concepts of the applied sciences. The course is directed toward the non-science major. Laboratory fee required.

Physics 111

Introductory General Physics 4 Cr. 3 Lec., 3 Lab.

Prerequisite: Two years high school algebra, including trigonometry or equivalent. The first semester of a two-semester course designed for pre-dental, biology, pre-med, pre-pharmacy, and pre-architecture majors and other students who require a two-semester technical course in physics. The laboratory includes a onehour problem session. Laboratory fee reauired.

Physics 112 **Introductory General Physics**

3 Lec., 3 Lab.

4 Cr.

Prerequisite: Physics 111. A continuation of Physics 111 which includes the study of electricity, magnetism, light, and sound. Laboratory includes a one hour problem session. Laboratory fee required.

Physics 115

4 Cr. Physics for the Liberal Arts 3 Lec., 3 Lab.

An introduction to the various areas of physics as they relate to the world in which we live, accomplished through the study of selected topics including mechanics, thermodynamics, acoustics, electrodynamics, optics, and atomic physics. This course is intended primarily for the non-science major. Laboratory includes a one hour problem session. Laboratory fee required.

Physics 116

Physics for Liberal Arts 3 Lec., 3 Lab.

Prerequisite: Physics 115. A continuation of Physics 115. Laboratory includes a one hour problem session. Laboratory fee required.

Physics 131 Applied Physics

4 Cr. 3 Lec., 3 Lab.

4 Cr.

Prerequisite: Mathematics 195 or concurrent enrollment in Mathematics 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 includes a one hour problem session. Laboratory fee required.

Physics 132 **Applied Physics**

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Physics 131. A continuation of Physics 131, Laboratory includes a one hour problem session. Laboratory fee required.

Physics 201 **General Physics**

4 Cr. 3 Lec., 3 Lab.

Prerequisite: Credit or concurrent registration in Mathematics 126. Principles and applications of mechanics, wave motion, and sound emphasizing fundamental concepts, problem solving, notation, and units. Designed primarily for physics, chemistry, mathematics, and engineering majors. Laboratory includes a one hour problem session. Laboratory fee required.

Physics 202 **General Physics**

4 Cr. 3 Lec., 3 Lab.

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 includes a one hour problem session. Laboratory fee required.

Physics 203 Introduction to Modern Physics

4 Cr. Flight P

Prerequisite: Physics 202. Principles of relativity, atomic and nuclear physics with emphasis on fundamental concepts, problem solving, notation, and units. Laboratory includes a one hour problem session. Laboratory fee required.

Pilot Technology 120 Ground School Private

3 Cr.

Lec. 3 Hrs./week Total 48 Contact Hrs.

3 Lec., 3 Lab.

Basic study of Federal Aviation Regulations, flight dynamics, meterology, navigation, use of radio and general service of aircraft. Course is designed to fulfill the ground school requirements of the FAA Private Pilot Certificate.

Pilot Technology 125 Flight Basic

2 Cr. Lab. 9 Hrs./Total Flt. 25 Hrs./Total Total 34 Contact Hrs.

This course provides 25 hours of flight instruction (15 hours dual, 10 hours solo flight), preflight trainer. Medical requirements: Current second-class medical certificate. Flight and laboratory fee required.

Pilot Technology 127 Aero Engines and Systems

Lec. 3 Hrs./week Total 48 Contact Hrs.

3 Cr.

Prerequisite: Credit or concurrent enrollment in Aviation Administration 131, Electronics Technology 235, or equivalent. Basic power plant types and principles of operation such as piston reciprocating, rotary, jet and rocket; configurations such as in-line, radial, vee and horizontally opposed, turbo-prop, turbojet, fan-jet, and ram-jet. Systems include fuel, ignition, electrical, environmental, lubrication, hydraulics, pneumatics, fire detection and extinguishing, cooling, tachometer, monitoring, manual control, and power boosted systems.

Pilot Technology 132 Flight Private Pilot

1 Cr. Lab. 4 Hrs./Total Flt. 20 Hrs./Total Total 24 Contact Hrs.

This course provides a total of 20 hours of flight instruction (10 hours dual and 10 hours solo flight). Pre-flight instruction and briefing, and instruction in a synthetic flight trainer. Students will receive credit for the course upon completion of the flight prerequisite for the private pilot flight examination. Flight and laboratory fee required.

Pilot Technology 231 Flight Commercial I

2 Cr. Lab. 8 Hrs./Total Flt. 30 Hrs./Total

Total 38 Contact Hrs.

Prerequisite: Private Pilot Certificate. This course provides 30 hours of flight instruction (10 hours dual and 20 hours solo flight) and pre-flight instruction and briefing to apply toward the Commercial Pilot Certificate. Medical requirements: Current second-class medical certificate. Flight and laboratory fee required.

Pilot Technology 232 Ground School Commercial

ound School Commercial 3 Cr. Lec. 3 Hrs./week Total 48 Contact Hrs.

Prerequisite: Private Pilot Certificate. Indepth analysis of all topics covered in the Commercial Pilot written examination. Emphasis is placed on problem development and solution practices to enhance appropriate responses in practical situations. Advanced exercises in the areas of aircraft operation, meteorology, navigation, communications, theory and hazards of attitude instrument flight, flight physiology, emergency procedures. FAR's and AlM, Flight Planning. Satisfactory completion of this course should qualify the student to pass the Commercial Pilot written examination.

Pilot Technology 233 Flight Commercial II

II 3 Cr. Lab. 8 Hrs./Total Flt. 46 Hrs./Total Total 54 Contact Hrs.

Prerequisite: Completion of Pilot Technology 231 - Flight Commercial I and concurrent enrollment in Pilot Technology 232 — Ground School Commercial. This course provides 46 hours of flight instruction (10 hours dual instrument instruction, 6 hours dual instruction, and 30 hours of solo flight), and pre-flight instruction and briefing to apply toward the Commercial Pilot Certificate. Flight instruction leading to a commercial license conforms to current FAA regulations by including a total of five (5) hours of night flight and ten (10) hours of instrument dual flight, flight and laboratory fee required.

Pilot Technology 234 Flight Commercial III

III 3 Cr. Lab. 4 Hrs./Total Fit. 46 Hrs./Total Total 50 Contact Hrs.

Prerequisite: Completion of Pilot Technology 232 — Ground School Commercial and Pilot Technology 233 — Flight Commercial II. This course provides 46 hours flight instruction (6 hours dual flight, 30 hours solo flight, and 10 hours dual and practice flight in a more sophisticated aircraft) and pre-flight instruction and briefing all of which apply to fulfill flight-law requirements for the Commercial Pilot Certificate. Students will receive course credit upon satisfactory completion of the flight prerequisite to the Commercial Pilot flight examination. Flight and laboratory fee required.

Pilot Technology 236 Aero Physics

3 Cr. Lec. 3 Hrs./week Total 48 Contact Hrs.

Prerequisite: Credit or concurrent enrollment in Mathematics 196. The aeronautical applications of physical laws. Areas considered in the course include gravitational laws, forces and stresses, Bernoulli's principle, gyroscopic principles, velocitysonic relationships, dynamics of airfoils, high efficiency lift devices, energy conversion to reactive forces related to aerobatics, and precision flight.

Pilot Technology 237 Meteorology

3 Cr. Lec. 3 Hrs./week Total 48 Contact Hrs.

A study of the basic concepts of meteorological phenomena, analysis and use of weather data, and the use and observation of measuring devices. Topics covered in weather maps and symbols, U.S. weather bureau documents, structure and general circulation of the atmosphere, theories of air mass, fronts, pressure areas, temperature gradients and inversions, violent atmospheric activities, and ecological considerations.

Pilot Technology 239

Ground School Instrument 3 Cr. Lec. 3 Hrs./week Total 48 Contact Hrs.

Prerequisite: Private or Commercial Pilot Certificate. Includes 36 hours covering theory and principles of aircraft attitude control, flight procedures and maneuvering by reference solely to cockpit instruments. Prepares the student for the FAA written examination for the Instrument Rating. Satisfactory completion of this course should qualify the student to pass the Instrument Rating written examination.

Pilot Technology 242 Flight Instructor — Ground School

Lec. 2 Hrs./week Total 32 Contact Hrs.

2 Cr.

Prerequisite: Commercial Pilot Certificate or Private Pilot Certificate with 200 hours logged flight time. Includes 40 hours covering principles of flight and ground instruction and instructional techniques on aircraft performance, analysis of maneuvers, and Federal Aviation Regulations. Satisfactory completion of this course should qualify the student to pass the Flight Instructor written examination.

Pilot Technology 243 Flight Instructor Airplane

plane 2 Cr. Lab. 10 Hrs./Total Flt. 30 Hrs./Total Total 40 Contact Hrs.

Prerequisite: Commercial Pilot Certificate or Private Pilot Certificate with 200 hours logged flight time. 30 hours of flight training in the science of flight instruction including evaluation of student performance and maneuver analysis. Covers the required instructional flight disciplines to qualify students for the FAA Flight Instructor Rating, Flight and laboratory fee required.

Pilot Technology 244 1 Cr. Flight Advanced I Lab. 6 Hrs./Total Fit. 10 Hrs./Total Total 16 Contact Hrs.

Prerequisite: A Private Pilot Certificate or a Commercial Pilot Certificate. This course of flight training leads to the Federal Aviation Agency Multi-Engine Pilot Rating. All flying is given in modern twinengine aircraft and is designed to give the advanced pilot a greater depth of aircraft experience. Includes 10 hours of flight instruction and pre-flight instruction and briefing. Flight fee required.

Pilot Technology 245 Flight Commercial IV — 3 Cr. Instrument Lab. 26 Hrs./Total Flt. 20 Hrs./Total Total 46 Contact Hrs.

Prerequisite: Private or Commercial Pilot Certificate. This course provides 45 hours of flight instruction (25 hours of instrument flight and 20 hours instruction in an instrument, synthetic trainer) and preflight instruction and briefing. Laboratory fee required.

Psychology 105 Introduction to Psychology

3 Cr. 3 Lec.

A study of basic problems and principles of human experience and behavior; heredity and environment, the nervous system, motivation, learning, emotions, thinking and intelligence. (This course is offered on campus and via television.)

Psychology 131 Human Relations

3 Cr. 3 Lec.

A study involving the direct application of psychological principles to human relations problems 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 Developmental Psychology

3 Cr. 3 Lec.

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 Applied Psychology

3 Cr. 3 Lec.

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 Psychology of Personality

3 Cr. 3 Lec.

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 209 General Psychology

3 Cr. 3 Lec.

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.

Reading 101 Effective College Reading

3 Cr. 3 Lec.

Reading 101 emphasizes comprehension techniques in reading fiction and non-fiction. Improved critical reading skills including analysis, critique and evaluation of written material are explored. Reading comprehension and flexibility of reading rate are stressed. In addition, advanced learning techniques in listening, note-taking, underlining, concentration, and reading in specialized academic areas are developed.

Religion 101 Religion in American Culture

3 Cr. 3 Lec.

A systematic examination of religion in American culture. Emphasis upon the characteristics of American religion, an objective study of various religious groups, and an examination of the relation of religion to the arts and other cultural phenomena.

Religion 103 Introduction to Philosophy of Religion (Formerly Religion 102)

3 Cr. 3 Lec.

Investigation of basic problems in philosophy of religion: faith and reason, the existence of God, the nature of religious language and literature, evil and human destiny. Analysis of the effect of religious belief and practice upon social and moral life in both Eastern and Western traditions.

Religion 201 Major World Religions

3 Cr. 3 Lec.

Prerequisite: Sophomore standing or consent of instructor recommended. A survey of major world faiths, the course will concentrate on the basic texts of Eastern and Western religions and on the creative personalities of their founders. There will be some consideration of the problems of 'objective' study of religions, of primitive religions, and of alternatives to major world religions such as astrology and atheism.

Salesmanship (See Business 230)

Science 100 History of Science

3 Cr. 3 Lec.

A study of the development of scientific knowledge, including biology, chemistry, mathematics, astronomy, architecture, industrial technology, and ethical considerations relating to the use of scientific knowledge. (This course is offered via television.)

Secretarial Training (See Business 162)

Shorthand (See Business 159, 164, 263, 264)

Social Science 131 American Civilization

3 Cr. 3 Lec.

A course designed to provide the student with some historical perspective for understanding the economic, political, and social institutions of modern society. In this context, emphasis will be placed upon U.S. and Texas History and constitutional development. It is advised that these courses be taken in order: 131, 132.

Social Science 132 American Civilization

3 Cr. 3 Lec.

A continuation of Social Science 131.

Sociology 101 Introduction to Sociology

3 Cr. 3 Lec.

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 Social Problems

3 Cr. 3 Lec.

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 Marriage and Family

3 Cr. 3 Lec.

Prerequisite: Sociology 101 recommended. An analysis of courtship patterns. marriage and family forms. relationships and functions, and sociocultural differences in family behavior.

Sociology 204 American Minorities

3 Cr. 3 Lec.

Prerequisites: Sociology 101 and/or six hours of U.S. history 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. The student may register for either History 204 or Sociology 204.

Spanish 101 **Beginning Spanish**

4 Cr. 3 Lec., 2 Lab.

Essentials of grammar, easy idiomatic prose, stress on pronunciation, comprehension, and oral expression. Laboratory fee required.

Spanish 102 Beginning Spanish

4 Cr. 3 Lec., 2 Lab.

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 Cr. 3 Lec.

Prerequisite: Spanish 102 or equivalent or consent of the instructor, Reading, composition, grammar review and intense oral practice.

Spanish 202

Intermediate Spanish

3 Cr. 3 Lec.

Prerequisite: Spanish 201 or equivalent, Continuation of Spanish 201 with reading selections drawn more directly from contemporary literary sources, Composition.

Spanish 203 Introduction to Spanish

Literature

3 Cr. 3 Lec.

Prerequisite: Spanish 202 or equivalent or consent of the instructor. Readings in Spanish literature, history, culture, art and civilization.

Spanish 204 Introduction to Spanish

Literature

3 Cr. 3 Lec.

Prerequisite: Spanish 202 or equivalent or consent of the instructor. Readings in Spanish literature, history, culture, art and civilization.

Speech 105 **Fundamentals of Public** Speaking

3 Cr. 3 Lec.

An introductory course in public speaking. Principles of reasoning. Emphasis upon the delivery of carefully prepared speeches. Special attention to audience analysis, collection of materials, and outlining.

Speech 109

Voice and Articulation

3 Cr. 3 Lec.

A study of the mechanics of speech applied to the improvement of the individual's voice and pronunciation.

Speech 110

Reader's Theater Workshop

1 Cr. 2 Lab.

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 201
Forensic Workshop

1 Cr. 2 Lab.

A laboratory course for the preparation of speeches, readings, and debate propositions which will be presented in competition and before select audiences. May be repeated for one additional unit of credit.

Speech 205

Discussion and Debate

3 Cr. 3 Lec.

A study of theories and application of techniques of public discussion and argumentation. Special emphasis on development of ability to evaluate, analyze, and think logically, through application to current problems.

Speech 206 Oral Interpretation

3 Cr. 3 Lec.

A study of fundamental techniques of analyzing various types of literature, and practice in preparing and presenting selections orally. Emphasis on individual improvement.

Teacher Aide 129 Communication Skills for Teacher Aides

3 Cr. 3 Lec.

This course is designed to test and enhance the teacher aide's basic communication skills in reading, writing, speaking and listening. It will include also a survey of techniques and methods for encouraging the development of these language skills in students with whom the aide

works. Creative writing, story telling, appreciation of literature, tutoring techniques for reading and writing, cursive and manuscript handwriting will be included in the language skills emphasized.

Teacher Aide 131

Teacher Aide Techniques I

3 Cr. 3 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 132 Introduction to Media

3 Cr. 2 Lec., 4 Lab.

An introduction to basic skills associated with the preparation of graphic and projected materials and the operation of selected audiovisual equipment.

Teacher Aide 133
Teacher Aide Techniques II

3 Cr. 3 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 Arts and Crafts for Teacher Aides

3 Cr. 3 Lec.

The course acquaints the student with the variety of creative art materials and methods appropriate for use in programs for children as well as opportunities for par-

ticipation in the use of these materials. Creating an attractive classroom environment with the use of classroom displays, charts, poster art, and bulletin boards will be incorporated in the course.

Teacher Aide 231 Teacher Aide Seminar I

2 Cr. 2 Lec.

The first seminar section is designed to provide an opportunity for the teacher aide trainees to discuss their experiences as trained observers and participants in the classroom strategies and procedures, supervision techniques and instructional skills.

Teacher Aide 232 Teacher Aide Practicum I

4 Cr. 20 Lab.

The practicum section will include supervised laboratory experiences in inner-city classrooms under the direct supervision of a teacher. Basic principles of learning and motivation will be applied to the teaching.

Teacher Aide 235 Teacher Aide Seminar II

2 Cr. 2 Lec.

This section of the seminar will provide the teacher aide trainee an opportunity to continue his experiences in the classroom while obtaining professional consultation and group experiences with his classmates. Small group interaction will enable the trainee to share experiences, demonstrate specific skills and techniques, participate in simulated classroom situations and clarify hypotheses developed in the supporting educational activities. The overall objective will be to provide a means for integrating and relating the total individual and collective experiences of the curriculum into a meaningful pattern

Teacher Aide 236 Teacher Aide Practicum II

4 Cr. 20 Lab.

This section of the practicum will continue to provide the teacher aide trainee supervised laboratory experiences in classrooms under the supervision of a

teacher. Basic principles of learning and motivation will be applied to the teaching-learning situation.

Theatre 100 Rehearsal and Performance

1 Cr. 4 Lah.

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. Credit limited to one hour per semester.

Theatre 101

Introduction to the Theatre

3 Cr. 3 Lec.

A general survey designed to acquaint the student with the various aspects of theatre, plays and playwrights, directing and acting, theatres, artists, and technicians.

Theatre 102 Contemporary Theatre

3 Cr. 3 Lec.

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

3 Cr. 2 Lec., 3 Lab.

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

3 Cr. 2 Lec., 3 Lab.

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 Lec., 3 Lab.

3 Cr.

Individual and group activity with theory and exercises in bodily control, voice, pantomine, interpretation, characterization, and stage movement. Analysis and study of specific roles for stage presentation.

Theatre 107 Acting II

3 Cr. 2 Lec., 3 Lab.

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 3 Cr. 2 Lec., 3 Lab.

A study of movement as both 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 Cr. 3 Lec.

Same as Speech 109. The student may not receive credit for both Theatre 109 and Speech 109.

Theatre 110 History of Theatre I

3 Cr. 3 Lec.

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 Cr. 3 Lec.

Development of the theatre from the seventeenth century through the twentieth century.

Theatre 112 Beginning Dance Technique in Theatre

2 Lec., 3 Lab.

3 Cr.

Course designed to promote body balance, improve manipulation of trunk and limbs, and facilitate the rhythmic flow of physical energy. Exploration of basic movements of the dance with emphasis on swing movements, circular motion, fall and recovery, contraction and release, and contrast of literal and abstract movements.

Theatre 115

Mime

2 Cr. 1 Lec., 2 Lab.

Prerequisite: Stage movement, Theatre 106. Exploration of the expressive significance and techniques of mime.

Theatre 205 Scene Study (Theatre)

3 Cr. 2 Lec., 3 Lab.

Prerequisite: Theatre 106, 107. Continuation of Acting II with emphasis on developing character through detailed study of the playscript. Students will deal with the stylistic problems presented by the staging of period plays, concentrating primarily on Ibsen, Chekov, and the development of early realism.

Theatre 206 Intermediate Dance Technique in Theatre

3 Cr. 2 Lec., 3 Lab.

Prerequisite: Theatre 105 or permission of instructor. A general survey to acquaint the student with the various aspects of dance and its role in total theatre, including the evolution of dance styles. Exploration of jazz style emphasizing flow of movement, body placement, dynamic intensity, level, focus, and direction.

Typing

(See Business 173, 174, 273)

Welding 130 Pattern Layout

3 Cr. Lec. 2 Hrs./week Lab. 3 Hrs./week Total 80 Contact Hrs.

This course is devoted to the preparation of patterns, pattern development, and the shop economics involved. Job applications, general layout work with structural material. Laboratory fee required.

Welding 140
Oxyacetylene Welding I 1 Cr.
Lec. 1 Hr./week
Lab. 7 Hrs./week
Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to develop the student's ability to set up and use the equipment for flat position welding and cutting. On completion, the student should be able to meet general industrial requirements while using oxyacetylene equipment in the flat position. Laboratory fee required.

Welding 141
Oxyacetylene Welding II 1 Cr.
Lec. 1 Hr./week
Lab. 7 Hrs./week
Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to enable a student to meet general industrial requirements while using oxyacetylene equipment for welding sheet, thin plate and small diameter pipe in all positions. Laboratory fee required.

Welding 142 Oxyacetylene Braze

t Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to enable a student to meet general industrial requirements while using oxyacetylene equipment for braze welding carbon steels and coatirons. Laboratory fee required.

Welding 143

Shielded Metal-Arc Welding I 1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to develop general maintenance and production welding abilities for using manual alternating current shielded metal-arc (stick) welding equipment on ferrous metal in the flat position. Laboratory fee required.

Welding 144

Shielded Metal-Arc Welding II 1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to develop general maintenance and production welding abilities for using manual direct current shielded metal-arc (stick) welding equipment on ferrous metal in the flat position. Laboratory fee required.

Welding 145 Plate Welding I

Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

2 Cr.

Prerequisite: Welding 143 and Welding 144, or equivalent. This is a basic manipulative skills training course designed to develop general maintenance and production welding abilities while using the manual shielded metal-arc (stick) process for performing groove and fillet welds with ferrous metals in all positions. Laboratory fee required.

Welding 146
Plasma — Arc Weldin

Plasma — Arc Welding I 1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

Prerequisite: Welding 140, 141, and 145; or equivalent. This is a basic manipulative skills training course designed to enable the student to set up the equipment for flat position plasma-arc welding on stainless steel and aluminum. Laboratory fee required.

Welding 147
Micro-wire Welding I

g I 2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

This is a basic manipulative skills training course designed to enable the student to meet general industrial requirements while using the micro-wire-arc (MIG) welding process in the flat position for sheet metal and thin gage plate. This course is open to both the beginning student and experienced welder. Laboratory fee required.

Welding 148 Semiautomatic Arc Welding I

1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

This is a basic manipulative skills training course designed to enable the student to meet general industrial requirements while using the semiautomatic arc welding process (large wire Co2 and flux core) for joining heavier plates in the flat position. This course is open to both the beginning student and experienced welders. Laboratory fee required.

Welding 149
Gas Tungsten Arc Welding
(TIG) I

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 141 and 142; or equivalent. This is a basic manipulative skills training course designed to enable a student to meet general industrial requirements while using the gas tungstenarc welding process for joining thin gage material. Laboratory fee required.

Welding 150
Basic Welding Metallurgy 3 Cr.
Lec. 3 Hrs./week
Total 48 Contact Hrs.

This is a theory type course designed to assist those students in welding or who are employed in welding and related industries to refresh and extend their knowledge of the behavior of the various fabricating metals during welding. The ef-

fects of the joining processes and procedures on the fabrication and service performance of weldments are also considered. Laboratory fee required.

Welding 240
Pipe Welding I — (Shielded Metal-Arc)

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 145 or equivalent. This is a manipulative skills training course designed to introduce the student to the basic manual shielded metal-arc pipe welding techniques. Material preparation and set up procedures in accordance with section IX of the ASME boiler and pressure vessel codes. Laboratory fee required.

Welding 241 Plate Welding II

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 145 or equivalent. This is an advanced manipulative skills level course designed to enable the student to qualify for weld quality testing in accordance with standards established by the American Welding Society for electric arc welding. Laboratory fee required.

Welding 242 Gas Tungsten — Arc Welding (II)

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 149 or equivalent. This is an advanced manipulative skills level training course designed to enable the student to qualify on the various qualification tests in accordance with industrial requirements. Laboratory fee required.

Welding 243 Semiautomatic Arc Welding II

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 149 or equivalent. This is an advanced manipulative skills level training course designed to enable the student to qualify on the various qualification tests, as required by industry, in all positions with the semiautomatic micro-wire and flux cored arc welding process. Laboratory fee required.

Welding 244
Micro-Wire Welding II

g II 2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 147, 148, and 243; or equivalent. This is an advanced skills level training course designed to enable the student to weld pipe in the horizontal and vertical fixed positions with sufficient skill to pass the API and ASME qualification test using the micro-wire arc welding process. Laboratory fee required.

Welding 245 Plasma-Arc Welding II

g II 1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

Prerequisite: Welding 146 or equivalent. This is an advanced skills level training course designed to enable the student to pass applicable qualification codes with the plasma arc welding process while joining carbon steel, stainless steel, and aluminum in all positions. Laboratory fee required.

Welding 246 Pipe Welding II

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 143, 144, 145, and 240 or equivalent. This is an advanced skills level training course designed to enable the student to pass code qualification tests for carbon steel pipe welding in accordance with Section IX of the ASME Boiler and Pressure Vessel Codes, or on

request, standard &1104 from the American Petroleum Institute. Laboratory fee required.

Welding 247 Manual Submerged Arc Welding

1 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 32 Contact Hrs.

Prerequisite: Welding 147 and 149; or equivalent. This is a manipulative skills level training course designed to familiarize the student with the variables concerning industrial applications of the submerged-arc welding process. On completion of this course the student will have a practical level of technical knowledge and ability for meeting general production welding requirements. Laboratory fee required.

Welding 248 Specialized Welding Application I

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

This is an advanced skills development course designed to allow the student to program his own specialization area course objectives under instructional supervision. This will allow a student to upgrade his present skills development level in order to meet employment reclassification requirements, or allow him to meet job classification requirements of a selected potential employer. This course is open only to those students in advanced standing or who are presently employed and in need of additional skill development. Laboratory fee required.

Welding 249 Specific Code Competency Preparation

> Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

2 Cr.

This is an advanced skills level training course designed for welding operators wishing to qualify under specific welding codes or specifications. The training during this course will be conducted under instructional supervision in order to en

able the operator to correct any faulty techniques he may have developed. Any specific code/codes involved must be specified when applying for admission to such training. This course is open only to experienced welding operators or students in advanced standing. Laboratory fee required.

Welding 250 Specialized Welding Application II

2 Cr. Lec. 1 Hr./week Lab. 7 Hrs./week Total 64 Contact Hrs.

Prerequisite: Welding 248. A continuation of Welding 248 — Specialized Welding Application I. Laboratory fee required.



Career Programs

Career Programs offered in the Dallas County Community College District 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** Mental Health Assistant Social Worker Assistant Mid-Management Supermarket Management Recreation Leadership Secretarial Careers **Executive Secretary** Office Skills and Systems Training Paraprofessionals 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 Fire Protection Technology Food Service-Dietetic Technician Food Service-Operations Interior Design Legal Assistant Technology Medical Assisting Technology Medical Laboratory Technician Medical Transcriptionist Mid-Management Office Skills and Systems Pattern Design Police Science Radiologic Technology Respiratory Therapy Technology Secretarial Careers Teacher Aide

Television and Radio Electronics Vocational Nursing

Richland College

Accounting Associate Accounting Technician Construction Management and Technology Engineering Technology Electro-Mechanical Option Electric Power Option Fluid Power Option Quality Control Option **Human Services** Mental Health Assistant Social Worker Assistant Mid-Management Ornamental Horticulture Real Estate Secretarial Careers Administrative Educational Executive General Office Skills and Systems Teacher Aide

Mountain View College

Accounting Technician Animal Medical Technology Aviation Administration Avionics Technology Drafting and Design Technology Electronics Technology Horology (Watch Repair) Machine Shop Mid-Management Office Skills and Systems Pilot Technology Secretarial Careers Teacher Aide Welding Technology

Career Programs of Tarrant County Available to Dallas County Residents

Programs

Dallas County residents may enroll in the below-listed programs on the appropriate Tarrant County Junior College Campus 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.

Campus

Agribusiness	
Appliance Service and Repair	South Campus
Aviation Maintenance Technician	South Campus
Banking and Finance	Northeast Campus
Civil Technology	Northeast Campus
Dental Hygiene	Northeast Campus
Fashion Merchandising	Northeast Campus

The reciprocal arrangement with Tarrant County also applies to Tarrant County residents enrolled for programs offered on the Mountain View College Campus. Tarrant County residents may enroll in the below-listed programs at Mountain View at the Dallas County resident's tuition rate:

Animal Medical Technology Aviation Administration Avionics Technology Horology Machine Shop Pilot Technology Welding Technology

Cooperative Work Experience Education

Students may enrich their education in certain Career Programs by enrolling in Cooperative Work Experience Education courses. These courses are designed to assist students in coordinating classroom study with related on-the-job experience.

Requirements:

- Students must have completed at least two (2) courses in their occupational major to be eligible for Cooperative Work Experience.
- 2. A full-time student must be enrolled in twelve (12) credit hours or more; two (2) courses must relate to the student's work experience, and up to four (4) credit hours may be in Cooperative Work Experience.
- A part-time student may take up to four (4) credit hours of work experience.
- Part-time students must be concurrently enrolled in a course related to his work experience.
- To enroll in a Cooperative Work Experience course, a student must have the approval of his instructor/coordinator.

Course credit will be awarded at the rate of one credit hour for each 80 hours of approved work experience accomplished during the semester. This is approximately five (5) hours a week during a sixteen (16) week semester. The work experience credit hours available in selected Career Programs will be listed in the curriculum pattern for that program.

Accounting Technician (One-Year Certificate 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.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester			
Bus 105 — Introduction to Business	3	0	3
Bus 131 — Bookkeeping	3	0	3
Bus 161 — Office Machines	1	2	2
Com 131 — Applied Composition and Speech	3	0	3
Mth 130 — Business Mathematics	<u>_3</u>	_0	<u>3</u>
	13	2	14
Spring Semester			
Bus 132 — Bookkeeping	3	0	3
Bus 173 — Beginning Typing or			
Bus 174 — Intermediate Typing	1	2	2
CS 175 — Introduction to Computing Science	3	0	3
Com 132 — Applied Composition and Speech	3	0	3
*Elective	_3	_0	_3
	13	2	14

^{*}Suggested electives: Bus 162, Bus 231, Bus 234, Psy 131

The Animal Medical Technology program is designed to meet the need for graduate animal technicians as indicated by the Texas Veterinary Medical Association. Growing demands on the livestock industry, research areas using laboratory animals demanding proficient management and care, expanding zoological gardens, and new and other increasing uses of animals have combined to place a tremendous premium on the Doctor of Veterinary Medicine's time. This program is designed to train an individual to assist the Doctor of Veterinary Medicine in surgery and the management of various types of animals.

Admission in the Animal Medical Technology program is limited and applicants will be screened for approval.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester			
Amt 131 — Introduction to Animal Medical	2	0	2
Technology Amt 133 — Breeds of Animals	3 3 3 <u>3</u> 12	0	3 3 5 <u>4</u> 15
Amt 135 — Animal Biology	3	5	5
Chm 132 — Applied Chemistry I	3	0 5 <u>3</u> 8	4
Clim 152 — Applied Chemistry 1	12	<u></u>	15
		V	1,5
Spring Semester			
Amt 136 — Pharmacology	3	0	3
Amt 137 — Comparative Mammalian Anatomy			
and Physiology I	3	3	4
Chm 134 — Applied Chemistry II	3	3	4
*Psy 131 — Human Relations	3 3 <u>3</u> 12	<u>0</u>	4 <u>3</u> 14
	12	6	14
Summer Semester			
Amt 231 — Comparative Mammalian Anatomy			
and Physiology II	8	8	4
Amt 232 — General Parasitology	8	8	4 <u>4</u> 8
Time 232 General Valuation of	8 16	<u>8</u> 16	<u></u>
Fall Semester			
Amt 233 — Animal Microbiology	3	3	4
Amt 235 — Animal Nutrition	3	0	3
Amt 234 — Animal Care	3 3 2 3 <u>3</u>	2 3	3 3 4 <u>3</u>
Amt 237 — Clinical Analysis I	3	3	4
Bus 131 — Bookkeeping	_3	<u>_0</u>	
	14	8	17

Spring Semester			
Amt 236 — Radiology	3	0	3
Amt 238 — Animal Health	2	0	2
Amt 239 — Clinical Analysis II	3	3	4
Amt 240 — Animal Restraint	3	3	4
Bus 173 — Beginning Typing	_1	2	2
· · · · · ·	12	8	15
Summer Semester			
Amt 245 — Clinical Seminar	51/3	0	2
Amt 246 — Clinical Training	0	263/3	2
Amt 247 — Clinical Seminar	51/3	0	2
Amt 248 — Clinical Training	_0	263/	2
-	10 3/3	531/3	8

^{*}A student may elect to take Human Development 106 or Sociology 102

Aviation Administration

options - Air Cargo Transport

- Airline Marketing
- Fixed-Base Operations/Airport Management

(Associate Degree of Applied Arts and Sciences)

Aviation Administration concerns the various aspects of business administration as relates to the multifaceted aviation industry. General business, accounting, legal, socioeconomic, advertising, marketing, and public relations subjects are interspersed with the appropriate areas of aviation specialization.

Curriculum Pattern

First Year Core Curriculum (Common to all Aviation Administration Degree Programs)

	Lec.	Lab.	Credit
	Hrs.	Hrs.	Hrs.
Fall Semester AA 131 — Introduction to Aviation Com 131 — Applied Composition and Speech Bus 105 — Introduction to Business Bus 201 — Principles of Accounting Bus 234 — Business Law	3	0	3
	3	0	3
	3	0	3
	3	0	3
	<u>3</u>	0	3
	15	0	15
Spring Semester AA 133 — Air Transportation AA 134 — Aviation Law Com 132 — Applied Composition and Speech Psy 131 — Human Relations Bus 202 — Principles of Accounting	3 3 3 3 <u>3</u> 15	0 0 0 0 0	3 3 3 3 3

Aviation Administration (continued) Air Cargo Transport (Second Year Option)

This program prepares the student for entry into the career field of air cargo management. Typical positions span the range from management trainee, support staff member, assistant to administrative supervisor, or station manager. The curriculum provides studies in the logistics of air cargo, special regulations and laws (local, national, and international) relating to air cargo operations, and prepares the graduate to perform the responsible operations essential to air shipment and transshipment of products and material.

Fall Semester	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
AA 232 — Transportation, Traffic and Air Cargo Eco 201 — Principles of Economics I SS 131 — American Civilization AA 235 — Airline Management *Elective or AA 703 — Cooperative Work Experience	3 3 3 3 0	0 0 0 0 0 (240/sem.)	3 3 3 3 (3)
	15	0	15
Spring Semester Bus 136 — Principles of Management AA 237 — Transportation Regulations and	3	0	3
Revenue SS 132 — American Civilization	3	0	3 3
CS 175 — Introduction to Computing Science Eco 202 — Principles of Economics II	3 <u>3</u>	0 <u>0</u>	3 <u>3</u> 15
	75	U	15

^{*}Students may elect to enroll in AA 703, Cooperative Work Experience, on approval by the instructor.

Aviation Administration (continued) Airline Marketing (Second Year Option)

Airline Marketing prepares the student for a position as an airline or cargo management trainee in the areas of customer service, sales, or promotional efforts; to perform in advertising, public relations, economics, or marketing; and evaluation of marketing effectiveness as it relates to passenger and air cargo movement.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester			
AA 232 — Transportation, Traffic			
and Air Cargo	3	0	3
Eco 201 — Principles of Economics I	3	0	3
SS 131 — American Civilization	3	0	3
Bus 233 — Advertising and Sales Promotion	3	0	3
AA 235 — Airline Management	_3	_0	<u>_3</u>
	15	0	, 15
Spring Semester			
AA 236 — Aviation Marketing	3	0	3
Bus 230 — Salesmanship	3	0	3
SS 132 — American Civilization	3	0	3
Eco 202 — Principles of Economics II	3	0	3
*Elective <u>or</u>	3	0	3
AA 703 — Cooperative Work Experience	_0	(240 sem)	<u>(3)</u>
	15	0	15

^{*}Students may elect to enroll in AA 703, Cooperative Work Experience on approval by the instructor.

Aviation Administration (continued) Fixed-Base Operation/Airport Management (Second Year Option)

This program prepares the student for entry into the career field of airport management. Typical positions include fixed-base operator, manager of a small airport, or staff member to operation superintendents, airport directors, or aviation authority boards. Studies provide a basic business exposure that is aviation-oriented and covers planning, organizing and administering the various functions of airport operations, local and federal regulations, facility and financial requirements.

Fall Semester	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
AA 232 — Transportation Traffic and Air Cargo Bus 136 — Principles of Management Eco 201 — Principles of Economics I SS 131 — American Civilization AA 235 — Airline Management	3 3 3 3 <u>3</u>	0 0 0 0	3 3 3 3 <u>3</u>
Spring Semester			
AA 239 — Airport Management	3	0	3
Eco 202 — Principles of Economics II	3	0	3
SS 132 — American Civilization	3	0	3
CS 175 — Introduction to Computing Science	3	0	3
*Elective or	3	0	3
AA 703 — Cooperative Work Experience	_0	(240/sem.)	<u>(3)</u>
	15	0	15

^{*}Students may elect to enroll in AA 703, Cooperative Work Experience on approval by the instructor.

This 2-year program will provide the student with a general electronics background and knowledge and practical skills related to avionics systems which will prepare him for entry-level employment in the avionics industry.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester			
AV 129 Introduction to Aircraft			
Electronic Systems	2	2	3
ET 135 — D.CA.C. Theory and Circuit			
Analysis	5	3	6
Mth 195 — Technical Mathematics for		_	
Electronics	3	0	3
Phy 131 — Applied Physics	<u>3</u> 13	<u>_3</u> _8	<u>4</u> 16
	13	В	16
Spring Semester			
AV 131 — Aircraft Communications Systems	3	3	4
AV 233 — Aircraft Systems Installation,	3	,	•
Wiring and Modification	1	5	3
Dft 182 — Technical Drafting	1	3	3 2
ET 193 — Active Devices	3	3	4
Mth 196 — Technical Mathematics for			
Electronics	<u>3</u> 11	<u>0</u> 14	<u>3</u> 16
	11	14	16
Fall Semester			
AV 230 — Aircraft Navigation Systems	3	3	4
AV 230 — Aircraft Navigation Systems AV 231 — Aircraft Electrical and	3)	4
Instrumentation Systems	3	3	4
Com 131 — Applied Composition and Speech	3	ő	3
ET 232 — Logic/Switch Circuits	3	<u>3</u>	
and and an arrangements	<u>3</u> 12	<u>-5</u>	<u>4</u> 15
		-	
Spring Semester			
AV 232 — Aircraft Radar Systems	3	3	4
AV 234 — Aircraft Electronics Systems			
Checkout and Troubleshooting			
Procedures	2	5	4
Bus 136 — Principles of Management	3	0	3
Com 132 — Applied Composition and Speech	3 _3	0	3 3 <u>3</u>
Psy 131 — Human Relations	<u>_3</u> 14	0	<u></u>
	14	8	17

Drafting and Design Technology (Associate Degree of Applied Arts and Sciences)

This program prepares the student for employment in a wide range of industries as a draftsman or engineering aide. Information in related fields is provided to enable the student to work effectively with the engineer and professional staff. Successful completion of this program leads to the Associate in Applied Arts and Science Degree.

	Lec.	Lab.	Credit
Fall Semester	Hrs.	Hrs.	Hrs.
Oft 183 — Basic Drafting	2	6	4
Egr 186 — Manufacturing Processes		2	
Com 131 — Applied Composition and Speech	3	0	3
Mth 195 — Technical Mathematics	3	0	3.
SS 131 — American Civilization	3	_0	3
	1 3 3 <u>3</u> 12	<u>-0</u> 8	2 3 3 - <u>3</u> 15
Spring Semester		J	13
Dft 184 — Intermediate Drafting	2	4	3
Com 132 — Applied Composition and Speech	3	Ó	3
Mth 196 — Technical Mathematics	3	Ö	3
SS 132 — American Civilization	2 3 3 3 3 14	0	3 3 3 3
Phy 131 — Applied Physics	_3	<u>_3</u>	<u>4</u> 16
	14	7	16
Fall Semester			
Dft 135 — Reproduction Processes	1	3	2
Dft 231 — Electronic Drafting		4	2 3 3
Dft 232 — Technical Illustration	2 2 3	4	3
*Technical Elective <u>or</u>	3	ò	3
Dft 803 — Cooperative Work Experience or	ō	(240/sem.)	(3)
Dft 804 — Co-op Work Experience	Ō	(320/sem.)	(4)
Egr 106 — Descriptive Geometry	_2	4	3
	10	15	14 (15)
Spring Semester			, -,
*Technical Elective or	4	0	4
Dft 814 — Cooperative Work Experience	ó	(320/sem.)	(4)
Psy 131 — Human Relations		0	3
Dft 230 — Structural Drafting	3 2 3	4	3
*Technical Elective or	3	0	3
Dft 813 — Cooperative Work Experience	0	(240/sem.)	(3)
Dft or Art Elective	_2	<u>_6</u>	4
	14	10	17

^{*}The following technical electives may be offered if there is sufficient demand for them: Dft 136 — Geological and Land Drafting; Dft 185 — Architectural Drafting; Dft 235 — Building Equipment; Dft 234 — Advanced Technical Illustration; Dft 236 — Piping and Pressure Vessel Design. Students may elect to enroll in Cooperative Work Experience courses on approval by the instructor.

This 2-year program will prepare the student for work as an electronics technician by familiarizing him with most electronic testing equipment, training him in technical communications, and providing him with electronic theory and skills.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester Com 131 — Applied Composition and Speech	3	0	3
Mth 195 — Technical Mathematics for Electronics Phy 131 — Applied Physics Dft 182 — Technical Drafting	3 3 1	0 3 3	3 4 2
ET 190 — D.C. Circuits and Electrical Measurements	3 13	<u>3</u> 9	<u>4</u> 16
Spring Semester Com 132 — Applied Composition and Speech Mth 196 — Technical Mathematics for	3	0	3
Mth 196 — Technical Mathematics for Electronics ET 191 — A.C. Circuits ET 193 — Active Devices ET 194 — Instrumentation	3	0 3 3	3 4
	3 3 <u>2</u> 14	3 <u>3</u> 9	4 4 <u>3</u> 17
Fall Semester SS 131 — American Civilization Egr 186 — Manufacturing Processes ET 231 — Special Circuits ET 232 — Logic-Switch Circuits	3 1 3 3	0 2 3 3	3 2 4 4
ET 236 — Electronics Theory and Application of Digital Computers	<u>3</u> 13	<u>0</u> 8	<u>3</u> 16
Spring Semester SS 132 — American Civilization Psy 131 — Human Relations	3	0 0	3 3
ET 233 — Industrial and Microwave Electronics Technology ET 234 — Electronic Circuits and Systems Elective	3 0 <u>3</u> 12	3 6 <u>0</u> 9	4 3 3 16

This intensive program has the objective of developing the student's manual dexterity, judgment, and skill in the repair and adjustment techniques required to service all types of modern timekeeping mechanisms: watches, clocks, timers, chronographs, self-winding, calendar, electric, and electronic movements. Employment opportunities for the skilled horologist may be found in retail jewelry stores, trade shops, or in one's own business.

	Per Week			
	Lec.	Lab.	Contact	Credit
		Hrs.	Hours	Hours
*Hor 131 — Introduction to Horology: Antiqu	ıe			
Clock Theory and Repair	1	14	225	5
*Hor 132 — Introduction to Horology:				
Modern Clock Theory and Repair	1	14	225	5
Dft 182 — Technical Drafting	1	3	64	2
Com 131 — Applied Composition and			_	_
Speech	3	0	48	3
*Hor 133 — Watch Cleaning and Assembly	1	15	256	6
*Hor 134 — Watch Part Replacement	1	15	256	6
*Hor 137 — Customer and Business Relations	2	0	32	2
*Hor 135 — Advanced Watchmaking I	3	32	210	5
*Hor 136 — Advanced Watchmaking II	3	32	210	<u>_5</u>
Total			1496	39

^{*}Indicates courses which are open for enrollment on the first Monday of each month. In each case, such enrollment is subject to completion of specified prerequisites.

The Machine Shop program will prepare the student for employment as an entry-level machinist in industry. It will also prepare him for entry into an apprentice or trainee program for machinist, tool and die-maker, etc. Successful students will find access to supportive type jobs in the metal working field such as planner, programmer, etc.

Enrollment in Machine Shop courses is open on the first Monday of each month. In each case, such enrollment is subject to completion of specified prerequisite competencies. The program is designed to be self-paced by the student but students can generally plan to spend 18 months of study to complete the entire program.

	Per Week		Total Semeste	
	Lec.	Lab.	Contact	Credit
	Hrs.	Hrs.	Hours	Hours
First Year				
MS 133 — Basic Lathe	1	8	144	5
MS 134 — Basic Milling Machine	1	8	144	5
DM 091 — Basic Math	3	0	48	3
Bpr 177 — Blueprint Reading	1	3	64	2
Egr 131 — Manufacturing Processes	1	2	48	5 3 2 2 5
MS 135 — Intermediate Lathe	1	8	144	5
MS 136 — Intermediate Milling Machine	1	8	144	5
Mth 139 — Applied Mathematics	3	0	. 48	3
Com 131 — Applied Composition				
and Speech	3	0	48	3
Bpr 178 — Blueprint Reading	1	3	<u>64</u>	2
<u>-</u>			896	$\frac{3}{2}$ 35
Second Year				
M\$ 233 — Advanced Lathe	1	8	144	5
MS 234 — Advanced Milling Machine	1	8	144	5
Phy 131 — Applied Physics	3	3	9 6	4
SS 131 — American Civilization	3	0	48	3
MS 235 — Applied Lathe	1	8	144	5
MS 236 — Applied Milling Machine	1	8	144	5
Phy 132 — Applied Physics	3	3	96	4
Psy 131 — Human Relations	3	0	<u>48</u>	3 5 5 4 <u>3</u>
			864	34

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.

Fall Semester	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Bus 136 — Principles of Management	3	0	2
*Bus 150 — Management Training	0	20	3 4
*Bus 150 — Management Training *Bus 154 — Management Seminar — Role of	U	20	4
Supervision	2	0	2
Com 131 — Applied Comp. & Speech or	2	U	4
Eng 101 — Composition and Expository Reading	3	0	3
Hum 101 — Introduction to Humanities (or		Ů	,
Art 104, Mus 104, THE 101)	3	_0	3
, , ,	<u>3</u> 11	20	<u>3</u> 15
Spring Semester			.5
Bus 105 — Introduction to Business Bus 151 — Management Training	3	0	3
Bus 151 — Management Training	Ö	20	4
Bus 155 — Management Seminar — Personnel			
Management	2	0	2
Comp 132 — Applied Comp. & Speech or			_
Eng 102 — Composition & Literature	3	0	3
**Elective	3	_0	3
	<u>3</u> 11	20	15
C-II C		-+	
Fall Semester			
Bus 201 — Principles of Accounting or	_	_	
Bus 131 — Bookkeeping	3	0	3
Bus 250 — Management Training	0	20	· 4
Bus 254 — Management Seminar — Organizational	_	_	_
Development Civiliani	2	Ó	2
SS 131 — American Civilization or	_		
Hst 101 — History of the United States **Elective	3	0	3
Trective	<u>3</u>	_0	_3
Casina Casastan	11	20	15
Spring Semester	_	_	
Bus 160 — Machine Transcription	3	0	3 3
Bus 231 — Business Correspondence	3	0	3
Bus 273 — Advanced Typing	1	2	2
Com 131 — Applied Composition & Speech or			
Eng 102 — Composition and Expository	_		
Reading Elective	3 _3	0	3 _ <u>3</u>
riccuse	<u>_3</u>	ō	<u>_3</u>
	13	2	14

Office Skills and Systems (One-Year Certificate Program)

This program is designed to meet the needs of those students who desire to enter the business world in a minimum of time. Intensive training in the basic office skills and systems is provided — including office machines, communications systems, records management, and other related business subjects. A general orientation to the business world is given. Personal development, human relations, business etiquette, and ethics are also stressed.

	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Fall Semester			
Bus 105 — Intro to Business	3	0	3
Bus 131 — Bookkeeping <u>or</u>			
Bus 201 — Principles of Accounting	3	0	3
Bus 161 — Office Machines	1	2	3 2 3 2
Bus 162 — Secretarial Training	3	0	3
Bus 174 — Intermediate Typing	1	2	2
Com 131 — Applied Composition & Speech or			_
Eng 101 — Composition and Expository			
Reading	_3	0	_3
-	14	<u>0</u> 4	16
Spring Semester			
Bus 160 — Machine Transcription	3	0	3
Bus 231 — Business Correspondence	3	0 0 2	3 3 2
Bus 273 — Advanced Typing	1	2	2
Com 131 — Applied Composition & Speech or			_
Eng 102 — Composition and Expository			
Reading	3	0	3
Elective	_3	_0	<u>_3</u>
	13	2	14

This program is designed to provide the student with flight training and ground school through the commercial license. Both general academic and associated technical courses are included in the comprehensive program to prepare the student for a career in aviation as a flight crew member. In addition to the commercial license, options are available for the Instructor Rating and Multi-Engine Rating.

All flight training and ground school instruction conforms to Vol. 10, part 61 and 141 of the Federal Aviation Regulations and, thus, are subject to change to conform to such regulations.

A regularly enrolled student holding FAA Pilot Certificate and rating may establish degree credit by special examination.

Registration for flight training and certain related courses is open on the first Monday of each month. Admission to the program is by application to the Chief Flight Instructor and should be approved prior to registration and payment of tuition and fees. The student should recognize that simulator fees, flight fees, and fees for pre- and post-flight briefing are in addition to the regular tuition charges.

	Per Wk. Lec. Hrs.	Lab.		Contact	Semester Credit Hours
First Year					
Plt 120 — Ground School Private	3			48	3
Plt 125 — Flight Basic	0	9	25	34	2
AA 131 — Introduction to					
Aviation	3	0		48	3
Com 131 — Applied Composition					
and Speech	3	0		48	3
Mth 195 — Technical Mathematics	3	0		48	3
ET 235 — Fundamentals of					
Electricity	3	3		96	4
PE 115 — Physical Performance					
Activities	0	3		48	1
Pit 132 — Flight Private Pilot	0	4	20	24	1
Plt 127 — Aero Engines and					
Systems	3	0		48	ر,
AA 134 — Aviation Law	3	0		48	3
Mth 196 — Technical Mathematics	3	0		48	3
Electives					3 3 <u>6</u> 35
				538	35

	Per Wk.	Total	Total	Total	Semester
	Lec.	Lab.	Flight	Contract	Credit
	Hrs.	Hrs.	Hrs.	Hours	Hours
Second Year					
Plt 231 — Flight Commercial I	0	8	30	38	2
Plt 232 — Ground School					
Commercial	3	0		48	3
Plt 233 — Flight Commercial II	0	8	46	54	3
AV 130 — Introduction to					
Avionics Systems	3	0		48	3 3
SS 131 — American Civilization	3	0		48	3
PE 115 — Physical Performance					
Activities	0	3		48	1
Plt 234 — Flight Commercial III	0	4	46	50	1 3 3 3 3
Plt 237—Meteorology	3 3	0		48	3
Plt 236 — Aero Physics	3	0		48	3
AA 239 — Airport Management	3	0		48	3
Plt 239 — Ground School Instrumer	nt 3	0		48	3
Plt 245 — Flight Commercial IV —					
Instrument	0	26	20	46	3
				<u>46</u> 572	$\frac{3}{33}$
Options					
Multi-Engine Rating					
Plt 244 — Flight Advanced I	0	6	10	16	1
Flight Instructor Rating					
Plt 242 — Flight Instructor —	2	0		32	2
Ground School					
Plt 243 — Flight Instructor Airplane	0	10	30	40	2

Secretarial Careers (One-Year Certificate Program)

The basic purpose of this program is to acquaint students with the opportunities and responsibilities of a secretarial career.

Fall Semester	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Bus 105 — Introduction to Business	3	0	3
Bus 131 — Bookkeeping	3	n	3
Bus 161 — Office Machines	1	2	2
*Bus 159 — Beginning Shorthand	3	2	4
*Bus 173 — Beginning Typing	1	2	2
Com 131 — Applied Composition and Speech or	•	_	2
Eng 101 — Composition and Expository Reading	<u>_3</u>	0	3
	14	6	17
Spring Semester			
Bus 160 — Machine Transcription	3	0	3
Bus 162 — Secretarial Training	3	Ö	3
Bus 164 — Intermediate Shorthand	2	3	3
Bus 174 — Intermediate Typing	1	2	2
Bus 231 — Business Correspondence	_3	_0	3
	12	<u></u>	14

^{*}Students with previous training will be placed according to ability. Suggested Electives: Bus 263, Bus 273, CS 175, Mth 130. A student is required to have his last semester of typewriting and shorthand at Mountain View College to complete this program.

Secretarial Careers (Associate Degree of Applied Arts and Sciences)

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 a student may take courses which will provide general knowledge in areas such as law, selling, advertising, and accounting.

Semester Bus 105 — Introduction to Business 3	Curriculum Pattern	Lec. Hrs.	Lab. Hrs.	Credit Hrs.
Bus 131 — Bookkeeping 3 0 3 Bus 161 — Office Machines 1 2 2 Bus 159 — Beginning Shorthand 3 2 4 Bus 174 — Intermediate Typing 1 2 2 Com 131 — Applied Composition and Speech or 1 2 2 Eng 101 — Composition and Expository Reading 3 0 3 Foring Semester 14 6 17 Spring Semester Bus 160 — Machine Transcription 3 0 3 Bus 162 — Secretarial Training 3 0 3 Bus 164 — Intermediate Shorthand 2 3 3 Bus 231 — Business Correspondence 3 0 3 Bus 273 — Advanced Typing 1 2 2 Fall Semester Bus 263 — Advanced Shorthand 2 3 3 Com 132 — Applied Composition and Speech or 2 3 3 Eng 102 — Composition and Literature 3 0 3 SS 131 — American Civilization or 3 0 3 **Elec	Fall Semester			
Bus 131 — Bookkeeping 3 0 3 Bus 161 — Office Machines 1 2 2 Bus 159 — Beginning Shorthand 3 2 4 Bus 174 — Intermediate Typing 1 2 2 Com 131 — Applied Composition and Speech or 1 2 2 Eng 101 — Composition and Expository Reading 3 0 3 Foring Semester 14 6 17 Spring Semester Bus 160 — Machine Transcription 3 0 3 Bus 162 — Secretarial Training 3 0 3 Bus 164 — Intermediate Shorthand 2 3 3 Bus 231 — Business Correspondence 3 0 3 Bus 273 — Advanced Typing 1 2 2 Fall Semester Bus 263 — Advanced Shorthand 2 3 3 Com 132 — Applied Composition and Speech or 2 3 3 Eng 102 — Composition and Literature 3 0 3 SS 131 — American Civilization or 3 0 3 **Elec	Bus 105 — Introduction to Business	3	0	3
Com 131 — Applied Composition and Speech or Eng 101 — Composition and Expository Reading 3 0 3 14 6 17 Spring Semester Bus 160 — Machine Transcription 3 0 3 Bus 162 — Secretarial Training 3 0 3 Bus 164 — Intermediate Shorthand 2 3 3 3 Bus 231 — Business Correspondence 3 0 3 Bus 273 — Advanced Typing 1 2 2 2 12 5 14 Fall Semester Bus 263 — Advanced Shorthand 2 3 3 3 CS 175 — Introduction to Computing Science 3 0 3 Com 132 — Applied Composition and Speech or Eng 102 — Composition and Literature 3 0 3 SS 131 — American Civilization or Hst 101 — History of the United States 3 0 3 **Elective 3 0 3 Spring Semester Bus 264 — Shorthand Transcription 2 3 3 Hum 101 — Introduction to Humanities 3 0 3 Psy 131 — Human Relations 3 0 3 SS 132 — American Civilization or	Bus 131 — Bookkeeping	3	0	3
Com 131 — Applied Composition and Speech or Eng 101 — Composition and Expository Reading 3 0 3 14 6 17 Spring Semester Bus 160 — Machine Transcription 3 0 3 Bus 162 — Secretarial Training 3 0 3 Bus 164 — Intermediate Shorthand 2 3 3 3 Bus 231 — Business Correspondence 3 0 3 Bus 273 — Advanced Typing 1 2 2 2 12 5 14 Fall Semester Bus 263 — Advanced Shorthand 2 3 3 3 CS 175 — Introduction to Computing Science 3 0 3 Com 132 — Applied Composition and Speech or Eng 102 — Composition and Literature 3 0 3 SS 131 — American Civilization or Hst 101 — History of the United States 3 0 3 **Elective 3 0 3 Spring Semester Bus 264 — Shorthand Transcription 2 3 3 Hum 101 — Introduction to Humanities 3 0 3 Psy 131 — Human Relations 3 0 3 SS 132 — American Civilization or		1	2	2
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^{*}Students with previous training will be placed according to ability.

^{**}Suggested Electives: Bus 233, Bus 234, Mth 130.

A student is required to have his last semester of typewriting and shorthand at Mountain View to complete this program.

This program is designed to prepare aides to teachers in a wide range of supportive duties common to educational processes with emphasis on special education. Special courses will prepare students in the use of instructional media and enhance their understanding of learning processes and stages of development.

Curriculum Pattern

. Fall Company.	Lec. Hrs.	Lab Hrs.	Credit Hrs.
Fall Semester			
RD 101 — Advanced Reading or	_		
Spe 105 — Fundamentals of Public Speaking	3	0	3
DW 090 — Developmental Writing or			
Com 131 — Applied Composition and Speech or	2		-
Eng 101 — Composition and Expository Reading	3	0	3
TA 131 — Teacher Aide Techniques I	3	0	3
Bus 173 — Beginning Typing or	_	_	_
Bus 174 — Intermediate Typing	1	2	2
HD 105 — Basic Processes of			
Interpersonal Relationships	3	0	3
DM 090 — Pre-Algebra Mathematics	3 <u>3</u> 16	<u>0</u> 2	3 <u>3</u> 17
	16	2	17
Spring Semester			
TA 129 — Communication Skills for Teacher Aides	2	0	2
Bus 174 — Intermediate Typing or elective	3	0	3 2 3 3
TA 133 — Teacher Aide Techniques II	1	2	2
TA 132 — Introduction to Media	3	0	3
TA 135 — Arts and Crafts for Teacher Aides	2	4	3
1A 133 — Arts and Crafts for Teacher Aides	3 2 <u>3</u> 12	<u>0</u> 6	
	12	6	14
Fall Semester			
Communications or English	3	0	2
Bus 161 — Office Machines	3 1	0	3 2 2
TA 231 — Teacher Aide Seminar I		2	2
TA 232 — Teacher Aide Practicum I	2	0	
	0	20	4
Psy 105 — Introduction to Psychology	3 <u>3</u> 12	0	4 3 <u>3</u>
Soc 101 — Introduction to Sociology	<u>_3</u>	<u>U</u>	_3
	12	22	17

Spring Semester

*Com 132 — Applied Composition and Speech or			
Eng 102 — Composition and Literature	3	0	3
TA 235 — Teacher Aide Seminar II	2	0	2
TA 236 — Teacher Aide Practicum II	0	20	4
Psy 201 — Developmental Psychology	3	0	3
Soc 231 — Urban Social Problems	3	0	3
Peh 101 — Fundamentals of Health	_3	_0	_3
	14	20	18

Recommended Electives:

Peh 257 Hum 101 Spe 105 Phi 101 HE 107

^{*}If Com 132 or Eng 102 was taken previously, an elective may be chosen.

The Welding Technology program is designed to prepare the student in the basic processes of oxyacetylene and arc welding plus many specialized welding applications as options to fit the specific needs of the student. In addition, instruction is offered in related support areas such as metallurgy, tooling, drafting, pattern layout and characteristics of materials. Thus, the program offers preparation for both entry level jobs as well as specialized training leading to higher level positions such as welding technicians or welding inspectors.

Enrollment in welding courses is open on the first Monday of each month. In each case, such enrollment is subject to completion of specified prerequisite competencies. The program is designed to be self-paced by the student but in general the student should plan to spend 18 months in study to complete the program.

Curriculum Pattern

	Per 1	Week	Total	Semester
	Lec.	Lab.	Contact	Credit
	Hrs.	Hrs.	Hours	Hours
First Year				
WE 140 — Oxyacetylene Welding I	1	7	32	1
WE 141 — Oxyacetylene Welding II	1	7	32	1
WE 142 — Oxyacetylene Braze Welding	1	7	32	1
WE 143 — Shielded Metal — Arc Welding I	1	7	32	1
WE 144 — Shielded Metal — Arc Welding II	1	7	32	1
Com 131 — Applied Composition and Speech	3	0	48	3
Mth 195 — Technical Mathematics	3	0	48	3
SS 131 — American Civilization	3	0	48	3
Dft 182 — Technical Drafting	1	3	64	2
WE 145 — Plate Welding	1	7	64	2
WE 147 — Micro-Wire Welding I	1	7	64	2
WE 148 — Semiautomatic Arc Welding I	1	7	32	1
WE 149 — Gas Tungsten Arc Welding (TIG) I	1	7	64	2
WE 150 — Basic Welding Metallurgy	3	0	48	3
ET 235 — Fundamentals of Electricity	3	3	96	4
*Elective_or	_	_	20	•
WE 703 — Cooperative Work Experience		(240/		(3)
·		sem.)	736	33

Second Year			•	
WE 240 — Pipe Welding I	1	7	64	2
WE 241 — Plate Welding II	1	7	64	2
WE 242 — Gas Tungsten Arc Welding (TIG) II	1	7	64	2
WE 243 — Semiautomatic Arc Welding II				
(Flux Core)	1	7	64	2
WE 244 - Micro-Wire Welding II (Pipe)	1	7	64	2
WE 130 Pattern Layout	2	3	80	3
Mth 196 — Technical Mathematics	3	0	48	3
MS 151 — Basic Machine Operation for Weld				
Tooling	1	4	80	3
Psy 131 — Human Relations	3	0	48	3
*Electives				_9
			576	31

^{*}Electives: Any general education course: Egr 189; WE 146; WE 245; WE 246; WE 247; WE 248; WE 249; WE 250; or a student may elect to take Cooperative Work Experience courses on approval by the instructor.



Board of Trustees — DCCC District

Left to right, Standing: Durwood A. Sutton, Robert H. Power, Mrs. Pattie Powell, Carie E. Welch, Jim Scoggins; Seated: Mrs. Eugene McDermott, Vice Chairman; Dr. Bill J. Priest, Chancellor and Secretary to the Board; R. L. Thornton, Jr., Chairman.



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Associate Dean, Career Programs	Bill R Sorrells
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Assistant Dean, Human Development Programs	Louise Helton Miller
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Director of Financial Aid & Placement	Wilms Pobinson
Director of Counseling and Student	VVIIII RODITISON
Development Programs	Stayton A. Wood
Director of Community Services	loo Altick
Assistant Director of Community Services	Vother Today
A' Di community Jervices	Katniyn raylor
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Associate Director, Learning Resources Center	Avon Chapman
Public Information Assistant	Avon Chapman Linda Timmerman
Public Information Assistant	Avon Chapman Linda Timmerman
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Dallas County Community College District Chancellor	Linda Timmerman
Dallas County Community College District Chancellor	Linda Timmerman
Dallas County Community College District Chancellor Vice-Chancellor of Academic Affairs	Bill J. Priest
Dallas County Community College District Chancellor	Bill J. PriestR. Jan LeCroy Walter I. Pike
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Public Information Assistant	
Public Information Assistant	
Public Information Assistant	
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Faculty

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BENZAMIN, RUSSELL
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BOUNDS, GLEN I
BROWN, DAVID L
BROWN, JEAN W
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CHAPMAN, AVON
CHRISMAN, JO R
COAD, BRUCE
 COGAN, W. DANIEL
CORTEZ, LIONEL M., JR
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WILLIAMS, MOLLIE ANN
WILSON, RODNEY M
WOLFE, DAVID J
WOOD, STAYTON A
YARBOROUGH, N. PATRICIA

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