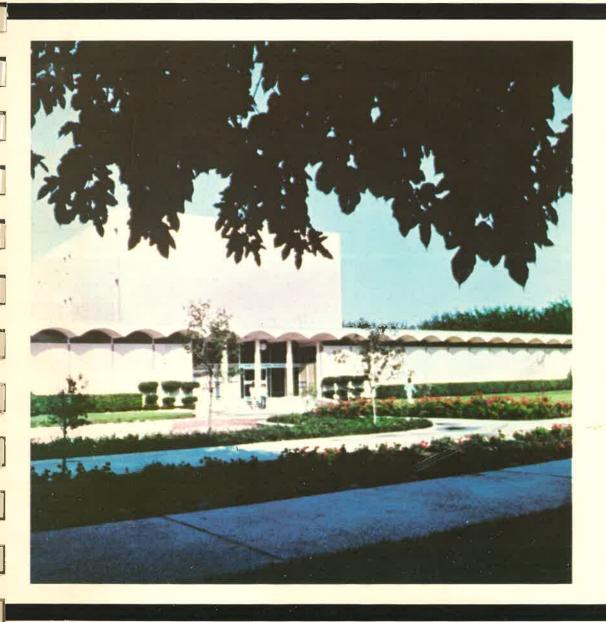
Odessa College Catalog 1977-78





Odessa College . . . where somebody cares

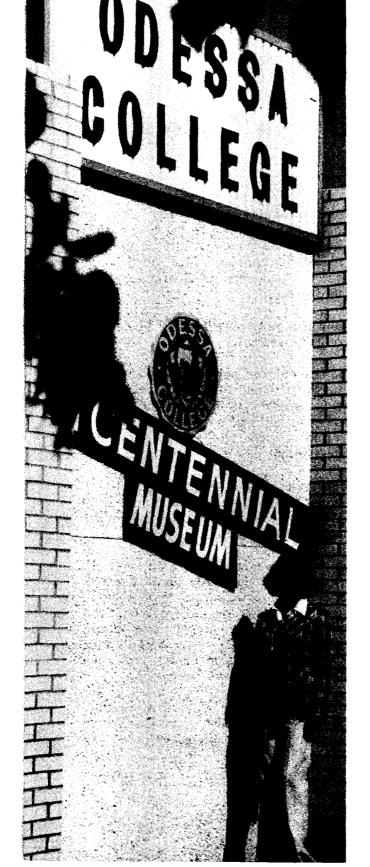


Odessa College is ...

- a comprehensive community college dedicated to meeting the educational needs of the community. It is responsive to community needs and provides a wide variety of educational services to satisfy those needs...
- a proven college dedicated to excellence in all of its programs...
- a student-centered college that keeps the personal touch. Students receive individual attention from highly qualified faculty and staff who are interested in helping them to succeed in their educational development...
- a progressive college constantly alert to innovative educational techniques and technologies — a college committed to constructive change...
- a multi-faceted college with a wide variety of programs in university parallel areas, technical-vocational studies, developmental courses, personal development studies, and adult and continuing education. This variety assures students that Odessa College can tailor a program specifically to fit their needs...
- a concerned college where students are important as individuals. It's the place for a student to begin a promising future.

Volume Thirty-One

Spring 1977



Contents

The College 3
Calendar 8
Admissions 12
Financial Information 15
Student Services & Activities
Academic Information 25
Programs and Curricula 38
College Organization 176
Index 188
Map 190

Information and regulations printed in this catalog are subject to change. The Board of Trustees and the administrative staff may expend, delete or revise programs, courses, or any other information stated in this catalog.

Odessa College

Odessa College has but one reason for existence — to provide the finest educational opportunities possible for all the people of the Ector County area. The comprehensive community college is dedicated to provide the full spectrum of educational services, limited only by the physical and financial resources that are available.

The open admission policy assures each person who has the desire and capacity to profit from post-secondary education an opportunity to learn. Curricula and educational services are designed to assist people to realize more fully their individual potential and thereby enable them to live richer lives and be-

come more responsible and productive members of our society.

Odessa College specifically intends: to provide the first two years of college and pre-professional programs, preparing students within a field of study for further education;

to offer programs in occupational-technical training and provide students with the comprehensive skills and knowledge required in specialized fields;

to provide a general educational program for all people, preparing them for more effective involvement in society, as well as providing opportunities for increased personal and cultural enrichment:

to provide opportunities for all adults, including non-high school graduates,



who wish to begin or to continue a college education;

to offer adults in the community an opportunity to continue their education which will result in upgrading their occupational skills, cultural enlightenment and personal satisfaction;

to have an educational environment which enables every student an opportunity to maximize his potential through complete student services; and

to encourage the use of facilities and programs for educational and cultural purposes by the citizens of the community.

History

The history of Odessa College is interwoven with growth and progress. A review of the past reveals a success story of a public institution that has maintained the community college spirit and has grown by serving the people of Ector County and the Permian Basin.

Beginning with 184 students in 1946, Odessa College's enrollment, programs and services have grown steadily through the last 30 years. Through the various programs and services offered by Odessa College, there are now almost 15,000 enrollments during a single school year. Enrollment in the academic credit courses in the fall of 1976 surpassed 3,600 students. During the same semester another 2,700 students were enrolled in adult and continuing education courses. By the time the 1976-77 school year will close and the midwinter session, spring semester, compact semester, and summer sessions end, the total number of enrollments at Odessa College will approximate the 15,000 mark.

Initially housed in temporary quarters in Odessa High School, now the home of Crockett Junior High, Odessa College's first classes were conducted after public school hours in the late afternoons and evenings. The college purchased a five-acre plot on the 2500 block of the Andrews Highway and in 1949 erected Baskin Hall as its first permanent structure.

The size of the campus grew to 15 buildings on a 35-acre plot by 1960. Today the \$21 million campus is spread over 80 acres and includes some 21 buildings that house more than 115 classrooms and laboratories.

Passage of a \$5,315,000 bond issue in May, 1976, permits the college to enlarge its student facilities significantly, to build a spacious 80,000-square-foot instructional building, and to purchase additional equipment. The buildings are scheduled for completion in the spring of 1978.

Odessa College began as a college of the people and for the people who created it. The college has maintained that philosophy and has developed into a comprehensive community college, dedicated to serving the total educational needs of the citizens of the Permian Basin, as a professional partner with the Ector County Independent School District and the University of Texas of the Permian Basin.

Quality education and academic excellence have been hallmarks of Odessa College. As the college has grown, it has sought to attain the highest quality possible in all of its educational programs. More than 20 occupational-technical programs are currently being offered at Odessa College, and additional ones are being planned to meet the needs of citizens who want to learn new career skills or improve existing job performance. Al-

most one-half of the college's students are enrolled in occupational-technical programs. A wide variety of university-parallel courses also is offered for students planning to finish four-year degrees at senior colleges or universities.

Odessa College has the excitement and exuberance of a young college and the quality and experience of a college that has been in existence for three decades. The college is dedicated to the challenge of innovation and dares to try new proven methods that will enhance learning and expand the frontiers of knowledge for its students. It also possesses the stable maturity of an established college that has developed through the wisdom born of experience. It is that experience that has taught Odessa College to constantly probe for constructive change, satisfied with nothing but the best.

Odessa College is a mature college with a youthful spirit. The college is proud of its heritage, but sees its successful past as a challenge for an even greater future.

Location

Odessa College is located in Odessa, Texas, a progressive West Texas city of over 100,000 people located about midway between Fort Worth and El Paso. Odessa is a cultural, recreational, educational, medical, retail and wholesale trading center for a wide region as large as several Eastern seaboard states combined. It lies in the Permian Basin, one of the world's greatest oilfields, and is the home of the nation's largest inland petrochemical complex. Its two hospitals provide a wide variety of medical services for the region. Odessa boasts a daily newspaper, three television stations, six radio stations, and over 150 churches. It is the site of an upper-level university, the University of Texas of the Permian Basin (UTPB), providing upper level and graduate studies. On the campus of Odessa College is located the Globe Theatre, the most nearly perfect replica of William Shakespeare's Globe Theatre of Elizabethan England. There are hosts of cultural, intellectual and recreational activities available for the citizens of Odessa.

The diversified industrial and economic establishments offer part-time employment opportunities for students who need to earn part or all of their college expenses. There also are a number of part-time jobs on campus for students who qualify. The healthy economy in the area also affords good jobs to students who complete their specified career programs at Odessa College and wish to live in Odessa.

Odessa is a growing, progressive city where people are friendly and heartily support the college and its efforts. Newcomers find Odessa a good place to live and rear a family, as well as an enjoyable place to study and work.

Equal Opportunity

Odessa College is committed to the basic right of all people to have an equal opportunity for education or employment at this institution. Every effort will be made by the Board of Trustees, administration, and the faculty to defend this right and vigorously seek to promote its implementation in all areas of the college.

Odessa College will admit as students any persons who can benefit from the instructional program offered. In addition, it will strive to meet the post-secondary educational needs of its students by the restructuring of new programs, where such programs will be of benefit to students.

Learning Resources Center

The newly expanded Learning Resources Center is a focal point for the entire college as it assists students and faculty attain their educational goals. Resources and materials in various formats are selected, produced, organized, circulated, and maintained to satisfy curricular requirements, stimulate cultural awareness, and promote study and research.

Some 60,000 books in open stacks, reference books, and reserve materials are available in the LRC. Four hundred current periodicals, newspapers, and pamphlets, numerous college catalogs, clippings, and government documents are maintained to satisfy both educational and recreational needs. Additionally, the LRC houses a variety of mediated programs designed to enhance the instructional curriculum. Fully equipped study carrels encourage student use of recordings, tapes, slides, filmstrips, filmloops, and other types of audio-visual materials.

Research tours and subject seminars, stressing the use of the card catalog, the indexes, and the available reference materials, are conducted by members of the LRC staff. Also, the individual student may always seek personalized assistance from the professional resource personnel who staff the LRC.

Located within the LRC, the Department of Instructional Development works with the faculty and students to design and develop comprehensive instructional strategies and programs. These programs ensure that all Odessa College students are assisted and challenged through relevant learning experiences.

Accreditation

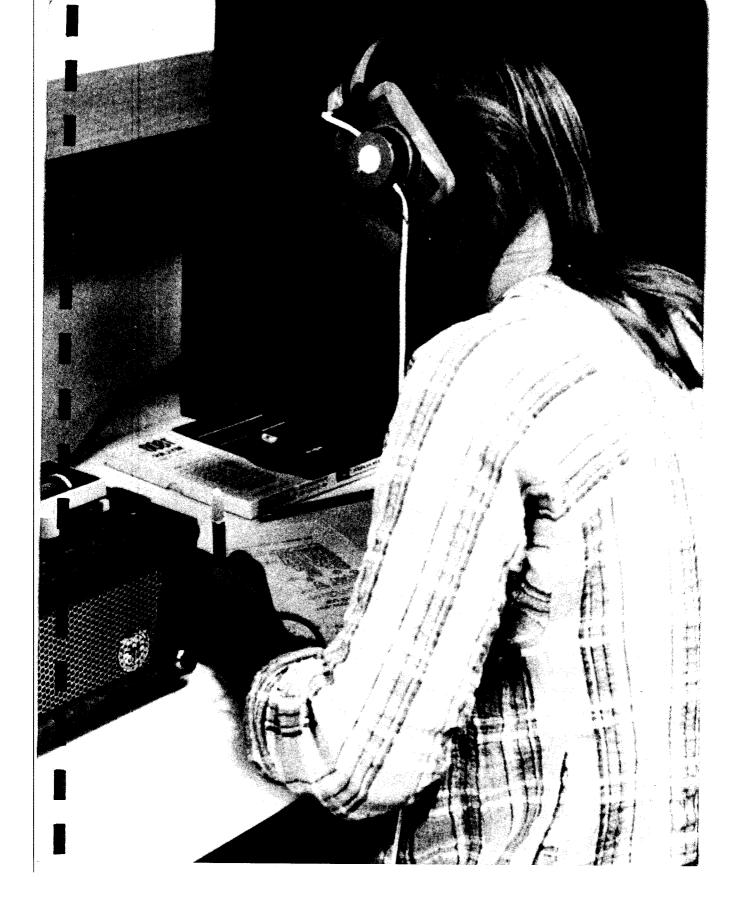
The quality of education at Odessa College is demonstrated by the number of agencies and associations that have given accreditation and membership privileges to the college. The college is approved or accredited by the Texas Education Agency, Southern Association of Colleges and Schools. Coordinating Board of the Texas College and University System, Association of Texas Colleges and Universities. Texas Educational Theatre Association, Southwest Theatre Conference, American Theatre Associaion. National Association of Schools of Music, National League for Nursing, and Radiologic Technology Association of America.

Odessa College is a member of the American Association of Community and Junior Colleges, Texas Association of Public Junior Colleges, Texas Association of Junior Colleges, Southern Association of Junior Colleges, National Junior College Athletic Association, Western Junior College Athletic Conference, American Library Association, Texas Association of Music Schools, Texas Junior College Press Association, Texas Intercollgiate Press Association, and the Texas Association of Schools of Art.

More Information

For information about Odessa College, admission procedures, instructional programs, and counseling services contact the Counseling Center in Baskin Hall in Room 101. The telephone number is 915-337-5381.

For admission to Odessa College, send application and transcripts to the Dean of Admissions and Registrar, Odessa College, P.O. Box 3752, Odessa, Texas 79760.



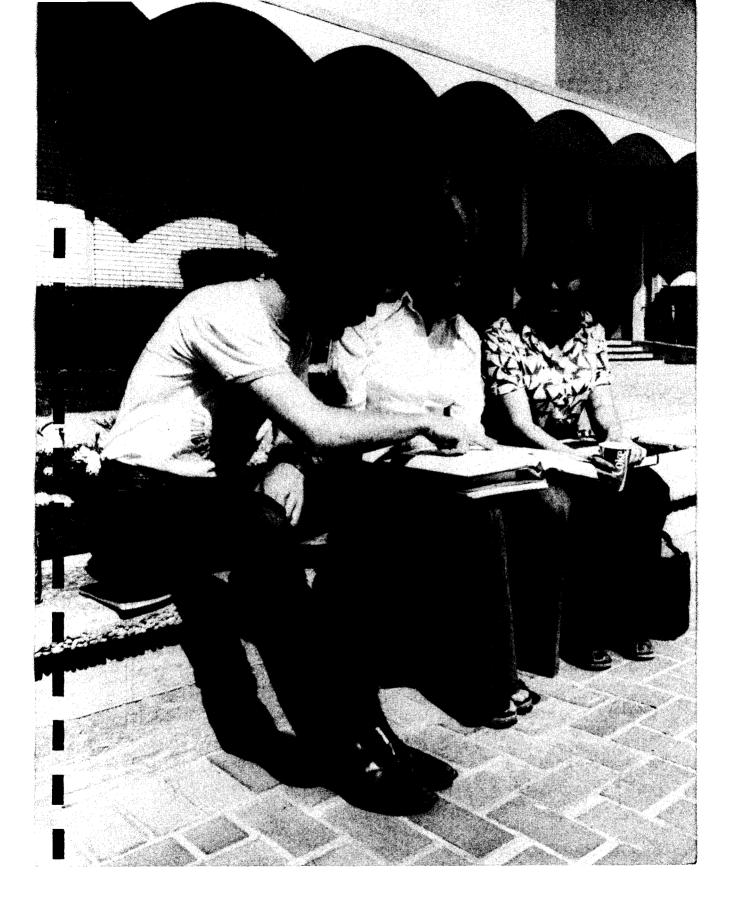
College Calendar 1977-1978

SUMMER, 1977

JOHNHEN, 1377	
First Term	S M T W T F S 4
Memorial Day holiday May 30 (Mon)	JUNE 1 2 3 4 Q
Registration May 31 (Tues)	5 6 7 8 9 10 11
Classes begin June 1 (Wed)	12 13 14 15 16 17 18 7
Late registration closes June 6 (Mon)	19 20 21 22 23 24 25 7 26 27 28 29 30 7
Last day to withdraw with "W" or "WF"June 22 (Wed)	JULY 1 2
Independence Day holiday July 4 (Mon)	3 4 5 6 7 8 9 10 11 12 13 14 15 16
Final examinations.	17 18 19 20 21 22 23
end of termJuly 7 (Thurs)	24 25 26 27 28 29 30 31
Second Term	AUGUST
RegistrationJuly 8 (Fri)	1 2 3 4 5 6 7 8 9 10 11 12 13
Classes beginJuly 11 (Mon)	14 15 16 17 18 19 20
Late registration closesJuly 14 (Thurs)	21 22 23 24 25 26 27 28 29 30 31
Last day to withdraw with	SEPTEMBER
"W" or "WF" August 1 (Mon)	1 2 3
Final examinations,	4 5 6 7 8 9 10 11 12 13 14 15 16 17
end of term August 12 (Fri)	18 19 20 21 22 23 24
FALL, 1977	25 26 27 28 29 30
Registration August 22 (Mon)	OCTOBER 1 2 3 4 5 6 7 8
Classes begin August 24 (Wed)	9 10 11 12 13 14 15
Last day to register for full	16 17 18 19 20 21 22 23 24 25 26 27 28 29
class load (5 classes or fewer) September 1 (Thurs)	30 31
Labor Day holiday September 5 (Mon)	NOVEMBER
Last day to register (3 classes or fewer) September 9 (Fri)	1 2 3 4 5 6 7 8 9 10 11 12
Last day to withdraw with	13 14 15 16 17 18 19
"W" regardless of grade October 5 (Wed)	20 21 22 23 24 25 26 27 28 29 30
Last day to withdraw with	DECEMBER
"W" or "WF" November 16 (Wed)	1 2 3 4 5 6 7 8 9 10
Thanksgiving holidays November 23 (Wed, 5 pm)	11 12 13 14 15 16 17
-28 (Mon, 7 am)	18 19 20 21 22 23 24 25 26 27 28 29 30 31
Final examinations December 12-17 (Mon-Sat)	
Christmas holidays,	
•	•
MIDWINTER SESSION, 1977-78	
Registration, classes begin December 27 (Tues)	
Final examinations,	
end of term January 6 (Fri)	
8 Calendar	

SPRING, 1978	S M T W T F S 1 JANUARY 1 2 3 4 5 6 7 Q
Offices reopen after Christmas holidays January 3 (Tues) Registration January 10 (Tues) Classes begin January 12 (Thurs) Last day to register for full class load (5 classes or fewer) January 19 (Thurs) Last day to register (3 classes or fewer) January 27 (Fri) Last day to withdraw with "W" regardless of grade February 23 (Thurs) Easter March 26 (Sun) Spring vacation March 25-31 (Sat-Fri) Last day to withdraw with "W" or "WF" April 13 (Thurs) Final examinations May 8-13 (Mon-Sat)	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 FEBRUARY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 MARCH 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 APRIL 2 3 4 5 6 7 8 9 10 11 12 13 14 15
UMMER, 1978	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
First Term Memorial Day holiday	MAY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 JUNE
"W" or "WF"	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Second Term	2 3 4 5 6 7 8 9 10 11 12 13 14 15
Registration	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 AUGUST 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

FALL, 1978	SEPTEMBER 1
Registration	3 4 5 6 7 8 9 7 8 9 7 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 8 OCTOBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 NOVEMBER 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 NOVEMBER 1 2 3 4 5 6 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11
Thanksgiving holiday November 22 (Wed, 5 pm) -27 (Mon, 7 am) Final examinations December 11-16 (Mon-Sat) Christmas holidays, offices closed December 18-30 (Mon-Sat)	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 DECEMBER



Admissions

Odessa College has an open-door admissions policy, welcoming all adults who want to learn. Any adult, whether a high school graduate or not, who is interested in learning can be admitted to Odessa College.

A Counseling Center is available to all students. Counselors discuss career and educational goals with students so a study plan can be drawn for each individual. The Counseling and Testing Center also makes available various types of tests to help each student determine his aptitudes, interests, scholastic strengths and weaknesses, and other information that is helpful to a student making a career decision.

First-time students at the college are provided the opportunity to attend an orientation lab where counselors help acquaint students with college services and opportunities.

As a community college, Odessa College has students of all ages, from recent high school graduates to senior citizens. Many students are employed as they pursue their education. The college welcomes all students and intends to provide educational services to students of all ages and educational needs. Each student is important and each student finds his place at Odessa College.

Procedure

Students applying for admission should have their academic records sent to the Dean of Admissions and Registrar at Odessa College as early as possible. They should complete an application for admission and a health form. Each student must arrange to take the appropriate

entrance examinations. Students whose records are incomplete at the time of registration may be admitted to Odessa College but necessary records must be furnished before a transcript from OC can be obtained. Those students who have not taken the college entrance examination prior to admission to Odessa College will be required to do so on the next available testing date. Every student seeking admission must furnish the college with proof that he has complied with the Texas Immunization Laws concerning immunization against certain diseases. This includes a tetanus/diphtheria shot taken within the last ten years for every student and polio (oral vaccine) immunization for all under the age of 19 with the last of the four doses taken after age four.

Students may be admitted to Odessa College by any of the following methods:

- By High School Graduation Graduates of accredited high schools satisfy
 the minimum requirements for admission. This student must submit an official high school transcript showing the
 date of graduation and furnish the college with scores from one of the admission tests: SAT, ACT, or SCAT.
- Through Early Admission Program A high school senior may enroll in a maximum of two courses per semester during the senior year if he is within four units or twelve quarter credits of graduation from high school and has submitted the prescribed documentation signed by his parent or guardian, his high school counselor, and his high school principal.
- By Individual Approval Any person who is at least 21 years of age may be admitted if, in the opinion of the college, he can benefit from a course of study.

- By Written Examination A person who has not graduated from high school may be admitted if he has passed the General Educational Development Test (GED) and is 18 years of age and has terminated attendance in high school for one or more semesters and does not plan to return to high school. Proof the GED has been passed must be submitted.
- Re-Entry Former students in good standing who have not attended another college since enrollment in Odessa College are eligible for readmission.
- By Transfer From Another College An applicant transferring from another institution is ordinarily eligible for admission if he is eligible for readmission to the institution which he was attending. An official transcript of his college or university record should be submitted prior to registration. Scholastic deficiencies of transfer students will be reviewed by the Dean of Admissions and Registrar and a decision made as to the eligibility of the student for admission on the basis of his academic record at the last college in which he was enrolled. Admission of a student who has attended another college or university will be based on the same procedure as that of any transfer student.

Additional Criteria are required for alien or foreign students. Alien students should have achieved the 50th percentile on the Test of English as a Foreign Language (TOEFL). Alien students should also have on deposit in the U.S. the minimum sum of \$1,500 to cover the cost of tuition, books, and fees for each semester. Each must also present a current visa, passport, and transcripts of



academic records from other schools, colleges, or universities which he has attended. These documents must be official and translated into English. Copies will not be accepted.

Entrance Examinations

Although the college will accept the ACT, SAT, or SCAT for admission, the ACT is strongly recommended. All of these tests are administered on the college campus, and the dates for these tests are announced periodically. Since the results of these examinations are used to help students select correct course levels and for general guidance purposes, all students are advised to take an exam at least six weeks prior to their enrollment.

Preregistration

Preregistration for a semester means that the student, with the help of college counselors and faculty members, will select the proper courses and complete all registration except for payment of fees. Preregistration begins approximately one to two months prior to the time of regular registration. Exact information may be secured from the Counseling Center. Early preregistration will help the student secure the courses he wants.

Auditing

Permission to audit a course may be granted by the Dean of Admissions and Registrar to students who are eligible for admission to the college and who already have received credit for the course. Auditing students are not required to meet course prerequisites listed in the catalog.

Students auditing a course may not under any circumstances claim credit for the course. A student who is registered

for a course may not change from audit to credit or credit to audit status in the course after the scheduled add-drop period. Charges for auditing a course are the same as for regular registration.

Class Membership

The only way to become an official member of a class at Odessa College is by following the established procedure for registering and paying tuition and fees. No person is an official student until all registration requirements have been satisfied and all charges have been paid in full. Installment payment of tuition and fees is not permitted.

Administrative Withdrawal

The college reserves the right to withdraw a student from class, if, in the judgment of college officials, such withdrawal is in the best interest of the student or the student body at large.

Veterans' Affairs

Complete approval of Odessa College courses by the Veterans Administration makes possible the training of veterans under the public laws which give them educational benefits. A veterans' counselor at the college assists in any matter pertaining to the relationship of students with the United States Veterans Administration and Odessa College. Each veteran, upon enrollment, should contact the Dean of Admissions and Registrar at Odessa College to obtain certification of enrollment.

Change of Address

If a student changes his residence after registration, he must notify the Counseling Office and the Registrar's Office immediately. The student is held responsible for any communication mailed to him from the college to the last address which he has supplied the college. Having

moved from a previous address does not relieve the student of the responsibility of requests made to him through correspondence.

Financial Information

Tuition and Fees

DIST	RICT RE	SIDENT	OUT	-OF-DIST	RICT	OUT-OF	-STATE		Foreign
Sem.		General			General		General	Nursing	Student
Hours	Tuition	Use Fee	Tuition	Fee	Use Fee	Tuition	Use Fee	Tuition*	Tuition*
1	\$25.00	\$1.75	\$25.00	\$ 6.00	\$ 3.50	\$ 17.00	\$ 3.50	\$20.00	\$200.00
2	25.00	3.50	25.00	6.00	7.00	34.00	7.00	20.00	200.00
3	25.00	5.25	25.00	6.00	10.50	51.00	10.50	20.00	200.00
4	25.00	7.00	25.00	6.00	14.00	68.00	14.00	20.00	200.00
5	25.00	8.75	25.00	6.00	17.50	85.00	17.50	21.00	200.00
6	25.00	10.50	25.00	6.00	21.00	102.00	21.00	25.00	200.00
7	28.00	12.25	28.00	7.00	24.50	119.00	24.50	29.50	200.00
8	32.00	14.00	32.00	8.00	28,00	136.00	28.00	33.50	200.00
9	36.00	15.75	36.00	9.00	31.50	157.00	31.50	37.50	200.00
10	40.00	17.50	40.00	10.00	35.00	170.00	35.00	42.00	200.00
11	44.00	19.25	44.00	10.00	38.50	187.00	38.50	46.00	200.00
12	48.00	21.00	48.00	10.00	42.00	200.00	42.00	50.00	200.00
13	52.00	22.75	52.00	10.00	45.50	200.00	45.50	50.00	200.00
14	56.00	24.50	56.00	10.00	49.00	200.00	49.00	50.00	200.00
15	60.00	26.25	60.00	10.00	52.50	200.00	52.50	50.00	210.00
16	64.00	28.00	64.00	10.00	56.00	200.00	56.00	50.00	224.00
17	68.00	29.75	68.00	10.00	59.50	200.00	59.50	50.00	238.00
18	72.00	31.50	72.00	10.00	63.00	200.00	63.00	50.00	252.00
19	76.00	33.25	76.00	10.00	66.50	200.00	66.50	50.00	266.00
20	80.00	35.00	80.00	10.00	70.00	200.00	70.00	50.00	280.00
21	84.00	36.75	84.00	10.00	73.50	200.00	73.50	50.00	294.00

All tuition and fees are due in full at the time of registration. No student may be enrolled in classes until his obligations are paid in full. All tuition and fees are subject to change without notice. It is the student's responsibility to register under the correct classification. If there is any question concerning his status and classification as a resident of Texas or the college district, it must be clarified prior to the time of his enrollment in Odessa College.

DEPOSITS AND SPECIAL FEES

Course Fees and Deposits

Applied Music (1/2 hr. full-time student) 5.00	Child Development (Laboratory) 5.00
Applied Music (1 hr. full-time student) 10.00	Clerical Certificate (Monthly) 40.00
Applied Music (1/2 hr. part-time student) 30.00	Diesel Mechanics 8.00
Applied Music (1 hr. part-time student) 60.00	Earth Science 5.00
Auto Mechanics 8.00	Electricity/Electronics
Biology	Electronic Data Processing &
Building Trades 8.00	Equipment Rental
Business Machines 8.00	Emergency Medical Technology 8.00
Ceramics	Foreign Language (141-142) 5.00
Chemistry 8.00	General Deposit (Refundable) 10.00

^{*}Nursing students are subject to Out-of-District Fee and General Use Fee; foreign students are subject to General Use Fee.

Geology 5.00 Home Economics Laboratory 5.00 Industrial Instrumentation 8.00 Machine Shop & Equipment Rental 15.00 Machine Shorthand 8.00 Nursing (172) 5.00 Photography 5.00 Physical Education (Per Activity Course) 5.00 Physical Education (Camping) 50.00
Miscellaneous Fees

**Activity Fee, Student 1.00 per sem. hr.,
max. 12.00
Examination, Advanced Standing 20.00
Examination, Make-up 5.00
Late Registration (first five class days) 2.00
Late Registration (after fifth class day) 5.00
Library Fee 2.00
Schedule Change Fee (per course added) 5.00
Testing Fee 2.00
Transcript (first copy free) 1.00
Vehicle Registration 3.00
-

Refund of Tuition

Refund of tuition and fees is made under the following regulations:

Physics	5.00
Radio Broadcasting Laboratory	8.00
Reading	5.00
Refrigeration and Air Conditioning	15.00
Sculpture	5.00
*Student Liability Insurance	8.50
Television Laboratory	8.00
Typewriting	8.00
Welding and Equipment Rental	65.00

- 1. During the first week of class in a long semester, a refund of 50 per cent of the tuition charged;
- 2. During the second week in a long semester, 20 per cent of the tuition charged;
- 3. After the second week of classes in a long semester, no refunds of tuition charged;
- 4. Refunds are applicable to Fall and Spring Semesters only:
- 5. A fee of \$10.00 will be charged students who have paid but completely withdrawn prior to first class
- 6. Refunds of 100 per cent when classes are cancelled.

Upon request to the Counseling Center, a check covering all eligible refunds will be mailed to the address left by the student.

- *Student Liability Insurance or proof of comparable coverage is required for students enrolled in Child Development, Radiologic Technology, Respiratory Therapy, Medical Technology, Nursing, and Emergency Medical Technology.
- **The Activity Fee is to provide the cost of the college newspaper, magazine, fine arts productions, athletic events and other student activities.

Extension Courses — Students enrolled in extension classes will be charged an additional fee, depending upon the course and the center in which the class is held. Students should check with the business office for this information.

Financial Aid

At Odessa College, the student development office stresses that no student should be discouraged from enrolling because of financial problems. The college has a strong financial aid program that includes loans, grants, scholarships, and a work-study program. During the 1976-77 school year the college administered more than one-half million dollars in financial aid to its students. Every student with financial need is encouraged to apply for financial aid at Odessa College.

Students who excel with special abilities and skills also often are eligible for scholarships. The financial aid program at Odessa College is an integral part of student development and is emphasized as a service to students.

Scholarships and grants, part-time work on campus, and loans provide financial coverage to many students attending Odessa College. The ACT Family Financial Statement is required to establish eligibility for need-based programs. These forms are available in high school

counselors' offices and in the Odessa College Financial Aid Office, Baskin Hall 106.

Frequently students receive awards from more than one of the aid programs described below in order to meet the college budget.

The Basic Educational Opportunity Grant (BEOG) is a large grant made directly to students by the federal government. Awards at Odessa College range from \$200 to approximately \$1,000. All undergraduate students are eligible to apply, and should do so before seeking other aid. Application forms become available in February and can be obtained at high school counselors' offices and at the Odessa College Financial Aid Office.

Eligibility can be maintained for a total of eight semesters by applying annually.

The Supplementary Educational Opportunity Grant (SEOG) is awarded to students whose need is exceptionally large. The SEOG supplements other aid received by the student and is granted after application and personal consultation. Supplementary Educational Grants vary from \$200 to \$1,500 depending on the student's need.

The College Work-Study Program provides on-campus employment for students who can establish eligibility. Wages meet and sometimes exceed the minimum wage requirements. Students may work for a maximum of twenty hours per week. Applications are accepted



throughout the year for work-study positions.

The Nursing Student Scholarship and Loan Programs are administered at Odessa College for nursing students who must have financial support to attend college. Scholarships are granted for school-related needs; loans cannot exceed \$2,500 annually and can be partially canceled by full-time employment after graduation.

The Law Enforcement Education Program (LEEP) is awarded to men and women who are employed full-time in law enforcement or criminal justice careers. The grant provides direct costs of attendance — tuition and fees, and usually books. Applications for the program can be obtained in the Financial Aid Office or from Dr. Oliver Nordmarken, Director of LEEP at Odessa College.

Federally Insured Loans are sometimes available to students from their local banks or credit unions. If a student can provide a lender, Odessa College will assist the student in completing his application and will disburse the warrant when requested by the lender.

The Texas Public Education Grant (TPEG) is awarded for tuition and other school-related costs. Students whose ACT reveals a need may apply for this grant.

The Texas Public Education-State Student Incentive Grant (TPE-SSIG) is for exceptionally needy students who, without this grant, would very likely be unable to attend college. The award is made annually or by semesters to students upon determination of need.

The Hinson-Hazlewood College Student Loan Program (HHCSLP) is a long-term

loan program which allows students to borrow a maximum of \$1,500 per year and is repayable after completion of school attendance.

Valedictorians are awarded tuition scholarships if application is made the first semester after high school graduation.

Academic Scholarships are awarded for past academic performance. They cover the cost of tuition.

Tuition Grants are awarded primarily for excellence in the field in which they are given. Students should apply directly to the instructor in charge of the activity for grants in the following areas: Basketball, Golf, Gymnastics, Tennis, Track, Senoritas De Las Rosas, Journalism, Art, Drama, Music, and Speech.

Many organizations and individuals provide scholarships for students wishing to attend Odessa College. These vary in size, frequently covering tuition, fees, and books.

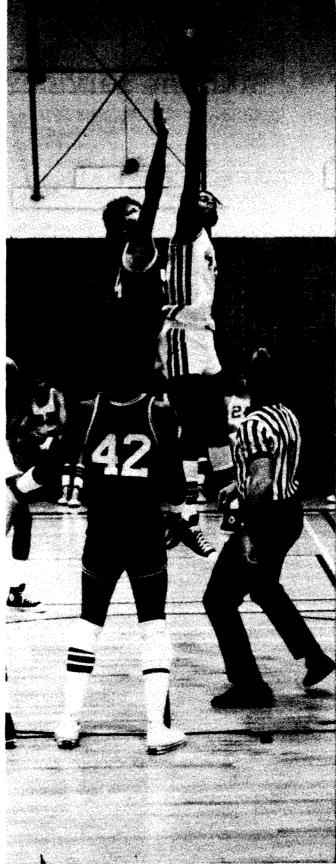
Deadlines for applying for scholarships are July 15 for the Fall Semester and November 15 for the Spring Semester.

A limited number of scholarships are available for summer and short-term sessions. Early application is necessary. Applications for financial aid at Odessa College may be obtained by visiting or writing: Director of Financial Aid, Room 106, Baskin Hall, Odessa College, P. O. Box 3752, Odessa, Texas 79760.

Vocational Rehabilitation — The Texas Rehabilitation Commission offers assistance for tuition and non-refundable fees to students who have certain disabling conditions. Application should be made at the Texas Rehabilitation Commission,

Odessa District Office, First National Bank Building, Suite 414, Odessa, Texas 79760.





Student Services and Activities

Odessa College encourages the growth and awareness of self and others through a comprehensive student development program. The college tries to create a climate that will allow every student an opportunity to enhance his perception of himself and his worth, while increasing his ability to cope within a changing society. The college hopes to provide every student an opportunity to examine thoroughly his potential and to offer opportunities for realizing that potential through the learning experiences of the college.

Counseling

The purpose of counseling at Odessa College is to help students gain self-direction and to become more capable of creative and effective living. Counselors assist students toward achieving greater self-awareness by offering them the following:

- Aptitude, interest, and personality testing for self-assessment;
- Intensive self-examination and career exploration;
- Personal development classes which help students to set goals, to gain selfunderstanding, and to clarify personal and career values;
- Counseling to resolve personal and social problems that interfere with success at Odessa College;
- Counseling regarding the student's course of study at Odessa College;
- Information about transferring to other colleges and universities; and

Recommendations regarding educational plans which will insure development of basic life skills.

The Counseling Center is located in Room 101 of Baskin Hall. During the regular semester, it is open from 8 A.M. to 5 P.M. daily; it is also open on selected evenings. Students may either call for an appointment or come by during any of the scheduled hours.

Housing and Food

Limited dormitory facilities are available on or near the Odessa College campus. Students desiring housing on campus should apply well in advance of the registration date. The Dean of Student Development keeps a file on available housing.

The college cafeteria and a snack bar are located in the Student Union Building and are open five days per week. A number of restaurants are located near the campus for the convenience of Odessa College students.

Student Life

An active student life program is encouraged at Odessa College and the impact reaches almost every student.

The college believes that classroom learning is only part of a student's education. Almost every student feels some need to learn more about himself. The opportunity for a student to grow as an individual is made possible through social and personal experiences, as well as classroom situations. Student activities are considered integral parts of the total

educational concept at Odessa College. Student activities range from fine arts events to dances and athletic contests.

The interactions of students with each other and with faculty on an informal basis can provide insights and understanding for a student about society and can enrich the quality of his life. An organized program of related activities is provided under the guidance of a director of student activities, who works closely with the Student Congress. These activities vary from intellectually oriented, cultural events to social activities.

A Student Handbook is prepared annually to help explain the many opportunities available to students at the college. Detailed descriptions and explanations of individual organizations and various activities are outlined in the Student Handbook.

Student Activities

Opportunities for students to participate in student activities include:

Clubs and Organizations — More than 20 clubs and organizations and interest groups are active on campus. Some are award-winning clubs that bring home state and national honors. A variety of clubs is available so each student may select an organization to meet his individual interest.

Student Congress

The Student Congress at Odessa College is the voice of the students concerning issues and projects for their welfare on campus. Each student who enrolls at Odessa College should feel responsible for the election of the ten representatives and three officers of the Student Congress. Each student should also use the Student Congress to voice his opinions

about the operation of the college based on his individual needs. Meetings of the Student Congress are open to all students who wish to observe. Student Congress plays an important role in influencing the directions of the college on many issues and sponsors many projects for the welfare of the student body each year.

Student Activities — A full-time director of student activities works with students in coordinating and planning social, cultural, and intellectual events for students. The office operates as part of the student development team and plans activities that will promote the personal development of each student.

Student clubs and organizations are advised by the Student Activities Office.

The Student Activities Office is concerned with the interactions of students with each other and with faculty on an informal basis. An organized program of related activities is provided to help each student gain insights and understanding about himself, his society, and the quality of his life.

Inter-Club Council

All recognized student clubs are members of the Inter-Club Council. Each club must have at least one representative at each ICC meeting. Regular meetings will be scheduled bi-monthly and other meetings may be called as needed. The Office of Student Activities serves as the advisor of the Inter-Club Council.

Student Activities Program Council

Any student enrolled in Odessa College may elect to join the program council. This student group advises and assists the Student Activities Staff in planning and implementing a wide range of student programs and activities. Contact the

Student Activities Office for more information.

Student Publications — The college has a student newspaper, "The Roundup," and a student magazine, "The Scene Today." The publications are written and edited by students in the journalism and photography classes. A faculty sponsor aids the students in production of the publications. The student publications not only provide learning opportunities for mass communications students, but also serve as media through which students can express their creativity, ideas, opinions, and philosophies.

Student Theatre — An active drama program at Odessa College allows students to stage several productions each school year in the college theatre. The theatrical productions are open to the public and afford learning situations for students, while providing community entertainment.

Forensics — Odessa College forensics teams are nationally recognized. During the past six years, the forensics teams have placed among the top ten in national tournaments, which have included not only teams from community colleges, but from senior colleges and universities as well.

Senoritas de las Rosas — This outstanding drill team has brought recognition not only to Odessa College, but to the City of Odessa and the Permian Basin. The drill team is composed of coeds who perform various routines and drills in parades and special performances. The trademark of the group is an eight-foot bullwhip, which Senoritas learn to pop while marching in high style. The group also performs with flags, hats, and other specialty items. The Senoritas have per-

formed across the Southwest, entertaining dignitaries and large audiences, and have been on nationwide television.

Choir and Band — Odessa College's A Cappella Choir and Madrigal Singers are well-known throughout the state for their musical abilities. The college also has an active band, "The Jazz-Rock Ensemble," that performs regularly at many events.

Campus Radio Station — The collegeowned and operated FM radio station, KOCV, is an educational non-commercial station. The radio station is operated by students, under the direction of a faculty member.

Intramurals — The college has an active intramural program, coordinated by an intramurals director. A wide variety of intramurals is planned and hundreds of students participate every school year. Activities include ping-pong, foosball, flag football, bowling, tennis, weightlifting, basketball, track, and others.

Art Shows — In conjunction with the art department, students have the opportunity to display their art work each year through student art shows.

Athletics

Odessa College has earned a national reputation for its outstanding athletic program. More than 100 of the college's athletes have won National Junior College All-American honors in gymnastics, golf, tennis, track, and baseball.

Currently the athletic program includes teams in gymnastics, men's and women's tennis, golf, track, and men's and women's basketball.

The Wranglers are members of the National Junior College Athletic Association

and the Western Junior College Athletic Conference. Each sport has a full schedule, and some of the athletic teams at the college compete in national tournaments every school year.

Some of the honors and titles won by Odessa College athletic teams include:

Golf — The first National Junior College Golf Championship ever conducted was hosted by Odessa College in 1961. Odessa College won the national title in 1959, 1960, 1961, 1962, 1963 and 1965. The Wranglers have captured the Western Junior College Athletic Conference title 11 of the last 14 years. OC has had 18 All Americans in golf.

Gymnastics — Since being organized in 1965, the Odessa College gymnastics team has won the National Junior College title six consecutive times. Some 65 Odessa College gymnasts have been named National Junior College All Americans since 1969, and the Wranglers have won 187 of the 199 meets in which they've participated. Two former Odessa College gymnasts have been selected to be members of international teams. In 1975 the Odessa College gymnastics coach was chosen to coach the United States gymnastics squad for the European Championship tour in Russia.

Track — Ten team championships have been won by the tracksters the past six years. In 1971, the Odessa College track team placed second at the National Junior College Championships and won third in 1975. Twenty-five members of the Odessa College track team have been named to the NJCAA All-American track team since 1965. The coach is a former

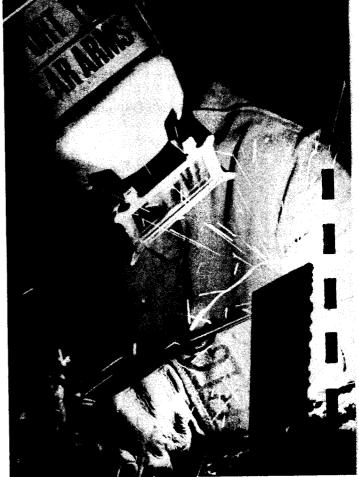
world record holder in the 440 and 880 relay and was representative of the United States team in Moscow in 1958.

Tennis — Odessa College tennis teams have consistently won titles in both junior and senior college competition. Some 17 members of the Odessa College tennis teams have been named as All Americans. Titles won by Wranglers include the Women's National Singles Championship and Team Championship in 1967, the National Women's Team Runner-up in 1968, the National Women's Doubles and Team Championship in 1970, the Women's National Team Runner-up in 1972, the Men's National Doubles and Team Championship in 1968, the Men's National Doubles Championship and Team Runner-up in 1969, Men's National Doubles and Team Runner-up in 1974, the Women's National Junior College Team Runner-up in 1975, and Men's National Team, Singles, and Doubles Championships in 1975 and 1976. The Odessa College tennis coach was named the NJCAA "Coach of the Year" in both 1975 and 1976.

Basketball — The Wranglers have had an active basketball program since 1952. The cagers were runners-up in the Region V Tournament in 1958, and cochampions in the Western Junior College Athletic Conference in 1970. The Odessa College basketball team has played in the National Regional Tournament 21 of the last 26 years.

Odessa College instituted a women's basketball program in the fall of 1976. The team plays in regular conference competition, and is a member of NJCAA.







Academic Information

The primary goal at Odessa College is for every student to receive the best education possible. Whether the student intends to transfer to another institution after the completion of his studies at Odessa College or whether he intends to put his learning to immediate use in the world of work, the student is assured that he will obtain quality education at Odessa College. He will receive an education that will be meaningful in all areas of his life.

Academic excellence is the focal point of the college's educational programs. Odessa College has gained national recognition for its quality instruction and outstanding faculty. Students transferring from Odessa College to other institutions build a solid foundation for their educational pursuits and frequently do as well or better than those who went to senior colleges or universities from the freshman year.

Odessa College students who have completed occupational-technical programs also have exhibited outstanding proficiency with on-the-job skills. The college works closely with advisory committees from business and industry to assure that students in occupational-technical programs learn the exact skills they will need on the job. As a result, students who complete these programs obtain a practical ecuation combined with professional training in their respective skill.

The academic programs are reinforced by strong support services. A new Learning Resources Center, which houses the library, learning center and instructional media center, provides rich, supplemental opportunities to classroom instruction. Some faculty also use the learning center and instructional media program to enrich the students learning. A variety of proven teaching methods is utilized.

Each student's academic needs are considered important at Odessa College. Programs are planned for students who need basic instruction to raise their proficiency in a subject area, as well as for students who excel. The college has such unique facilities as the Writing and Reading Laboratories, an Open Chemistry Laboratory, and an Audio-Tutorial Biology Laboratory. Personal development courses also are available. Another important factor is a concerned faculty who want to help students succeed.

Odessa College believes there should be no compromise with quality instruction and academic excellence.

Course Load

The normal course load that a fulltime student may carry during a regular semester will vary with the courses in which he is enrolled. A student is classified as a full-time student when enrolled in twelve or more semester hours, but students will normally enroll in fifteen to

eighteen hours each semester as outlined in their course of study. Students are not permitted to take more than five courses of three or more semester hours during a semester without written approval from the Dean of Admissions and Registrar.

A normal load during each term of the summer session will vary from three to seven semester hours. Generally, the maximum credit that a student may earn during the entire summer session is fourteen semester hours. In the Midwinter Session one course may be taken for the normal amount of credit derived during a regular semester.

The maximum course load for a student enrolled in evening classes depends on the individual circumstances and ability of the student. The normal load for an evening student who has full-time employment is six semester hours or two courses. The maximum load is nine semester hours or three courses.

Students who are employed while attending classes or who have experienced previous difficulty in academic work should plan course loads in such a way that ample time will be given to all of these demands. Usually, two hours of student preparation are necessary for each class-hour of time. Therefore, an average student should plan on investing nine hours of his time for each three-semester-hour course in which he enrolls. Students are encouraged to consult a college counselor to determine the best program possible.

Student Classification

A student who has completed 24 semester hours or fewer will be classified as a freshman student. A student with more than 24 hours will be classified as a sophomore student.

Students are classified as full-time if enrolled in 12 or more semester hours, and part-time if enrolled in fewer than 12 semester hours.

Grades

26

Grading is a measure of the student's ability to master specific objectives within

a given course. A grade is based upon his level of performance in examinations, term papers, reports, class discussion, and the final course examination or project.

		Grade Points Per
Grad	e Equated	Semester Hour
Α	Excellent	4
В	Above average	3
С	Average	2
D	Passing, but poor	r1
1	Incomplete	0
F		0
	Audit (Not Taken	for Credit) 0
W	Official Withdraw	al before the
	end of the first	twelve weeks 0
WF	Withdrawal while	failing during
	seventh throug	h twelfth week . 0
CR	Advanced Standi	ng (credit
	by examination) 0

It is the obligation of the student to know his standing and rating in college classes during the semester and to secure these ratings before registering for the next semester. He is expected at all times to be familiar with his scholastic status. The advisors and counselors will confer with students concerning unsatisfactory work during and at the end of the semester. The object of such conferences will be to determine the cause of unsatisfactory work, to advise the student for improvement, and to offer any assistance which the college and faculty and staff of the college can give the student.

Grade Point Average and Semester Hours

Grade Point Averages are computed on two bases: the Semester Grade Point Average and the Cumulative Grade Point Average. The Grade Point Average (G.P.A.) for any semester is determined by multiplying the number of semester hours for each course by the number of grade points corresponding to the final grade for the course. The total of all such products for the semester is then divided by the number of semester hours for that period. Incomplete grades are included in calculations of grade averages when the final grades have been recorded; the grades of "W" and "WF" are not included.

The Cumulative Grade Point Average is calculated by dividing the total number of grade points by the total number of semester hours attempted by the student in all terms.

Scholastic Standards

To remain in good academic standing, a student must maintain a minimum 1.5 grade point average. If it is evident from a student's record that he is failing to maintain satisfactory progress he will be placed on scholastic probation. The student will then be allowed to continue his college program on a conditional basis until his academic progress warrants removal from this status.

- 1. A student enrolled in nine or more hours per semester must pass a minimum of nine hours with at least a 1.5 grade point average.
- 2. A student enrolled in fewer than nine semester hours must accumulate a grade point average of at least 1.5 during that semester.
- 3. Students on scholastic probation who are enrolled in nine or more semester hours, and who pass nine semester hours with a grade point average of at least 1.5, will be removed from scholastic probation.
- 4. Students on probation who enroll in fewer than nine hours will remain on pro-

bation until they satisfy the conditions of rule 3 above.

- 5. In order to be removed from scholastic probation, students who were originally enrolled in fewer than nine hours must pass the same number of hours for which they were enrolled during the semester they were placed on probation and must earn a grade point average of 1.5.
- 6. Students on suspension who enroll in summer school and who earn an average grade of "B" in two courses (either 3-hour or 4-hour courses), or who earn three grades of "C" in 3-hour or 4-hour courses, will be permitted to enroll in the next semester on "continued scholastic probation."
- 7. Students placed on scholastic suspension are suspended for one long term, at the end of which time they must apply to the Dean of Admissions and Registrar for readmission to the college.
- 8. The grade of "W" will be given for any course if the student withdraws from the course before the end of the sixth week. A "W" also will be given if a student withdraws before the end of the twelfth week and is passing.
- 9. After the twelfth week, the grade of "F" will be given for any withdrawals.
- 10. All grades except the grades of "W" are utilized in calculating the student's grade point average.

Meeting the required standards during the second semester will remove the student from probationary status. However, if a student fails to meet the scholastic standards during the semester in which he is placed on probation, he is automatically dropped from the college for a period of one semester. If he is placed on probationary status a second semester for failure to meet scholastic standards after being readmitted to the college, he

will be automatically dropped for a period of two semesters and must confer with the Dean of Admissions and Registrar in order to be readmitted.

Readmission to and/or continued probation in college does not guarantee admission to or continuance in a specific program.

Incompletes

The conditional grade "I" may not be given unless the student has made a passing grade in all work which has already been completed. It is not a substitute for a failing grade. The deferring of the work required must be approved by the instructor. If the instructor does not approve granting an extension of time, a complete grade will be given the student at the end of the semester. The incomplete work must be made up in the semester immediately following that in which the "I" was given. Unless the grade has been reported by the instructor by the close of the semester immediately following that in which the symbol "I" was given, the registrar will change the grade of "I" to the grade of "F". Students receiving an incomplete grade during the summer session will have until the end of the fall semester to remove the grade.

Withdrawal

An official withdrawal from the college takes place when the student withdraws through the Counseling Center. In such cases the grade received in the course will be a "W" if the withdrawal takes place before the seventh week, a "W" or "WF", as indicated by the instructor, between the seventh and the twelfth week. After the twelfth week, the grade given for withdrawal will be "F".

If such withdrawal is after the close of the registration period, the signature of the instructor also should be obtained.

Class Attendance

Students are expected to regularly attend 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 he is absent from a class.

Instructors will keep records of absences and when, in the opinion of the instructor, a student is excessively absent, notification will be made to the Counseling Center of the dates and number of absences. The Counseling Center will inform the student by a warning letter that his lack of attendance is endangering his academic progress. If the absences continue, the instructor may recommend to the Director of Counseling that the student be withdrawn from the class in question with a grade of "W" being given. If the number of absences is excessive and if the student is also failing, the instructor may recommend in writing to the Director of Counseling that the student be withdrawn from the class with a failing grade. The Director of Counseling notifies the student in writing whenever the student is withdrawn from a class under the above circumstances.

Schedule Changes

After the official registration date, students may change their schedule only by completing proper forms in the Office of Dean of Admissions and Registrar.

Advanced Standing and Credit By Examination

Odessa College will accept up to fifteen hours of advanced standing credit awarded by either the College-Level Program (CLEP) Subject Examinations or by approved Odessa College departmental examinations.

Odessa College is an Open Testing Center for CLEP and will administer these examinations to anyone making application, subject only to those restrictions established by the Educational Testing Service and the College Entrance Examination Board. Departmental examinations are administered in those areas in which CLEP examinations are unavailable.

Specific information on advanced standing applications for testing may be obtained in the Counseling Center in Baskin Hall.

The examinee should check with the senior institution of his choice concerning the acceptance of credit earned by advanced standing examinations. Transcripts will record credit that is given by examination but will not list a specific grade. Hours earned by examination will not be included in computing grade point average, scholastic hours, residence requirements for graduation, or credit load requirements for Texas Opportunity Plan, Social Security, or veterans' benefits.

Early Admissions Program

The Early Admissions Program enables high school seniors to enroll concurrently in Odessa College while completing their high school requirements. Students in the program can profitably accelerate their progress in college and achieve their educational goals in less

time and with less expense than in the traditional program.

To be eligible for the program the high school senior must be within four units or twelve quarter credits of graduation and have the recommendation of his high school counselor, his high school principal, and the approval of his parents. He then may enroll in the regular manner at Odessa College.

A student in the Early Admissions Program may enroll in as many as two courses each semester. He will be expected to adhere to all policies of the college, as well as those of his respective high school, while in the program.

College credit earned under the program is held in escrow until the student completes his high school requirements and furnishes the college with a high school transcript affirming that he has graduated. At that time all credit earned will be placed on his college permanent record.

Letters from most Texas colleges and universities accepting transfer credit of courses completed under the Early Admissions Program have been received by the Director of Counseling. Participating students also have been given approval by the University Interscholastic League to retain their eligibility in League activities.

Information on the Early Admissions Program can be obtained from the Odessa College Counseling Center or through participating high school counselors.

Honors

A student who is enrolled in twelve hours or more during the semester and



makes a grade of "A" in all courses is listed on the college's Summa Cum Laude Honor Roll. A full-time student who makes no grade lower than "B" is listed on the college's Cum Laude Honor Roll.

Part-time and Summer Session students enrolled in two courses for a total of six semester hours or more and make a grade of "A" in all courses are listed on the Part-time Student or Summer Session Summa Cum Laude Honor Roll. Part-time and Summer Session students enrolled in two or more courses totaling six semester hours or more with no grade lower than "B" will be listed on the Part-time Student or the Summer Session Cum Laude Honor Roll.

Transcript of Record

The transcript of record is an official copy of the student's permanent record. Copies are available upon request. A transcript of a student's work will be supplied to the registrar of the college or uni-

versity which the student expects to attend after graduation from the college. The first record is provided at no cost. A charge of one dollar will be made for all subsequent records.

Transfer of Credit

The counselors and advisors at Odessa College should be contacted before registration in order to provide maximum assistance to the student in planning a program.

All courses taken at Odessa College transfer to all other institutions at face value. No grades made at the college can be lowered by any other college. However, courses taken that are not required for graduation at the senior college will not apply and therefore should not be taken at this college.

Senior colleges vary in recognition of a grade of "D" in a course. Some senior institutions accept grades of "D's" if the student's overall average is "C" or better.

Certain senior colleges may require that the student repeat any course in which a "D" has been made.

When entering Odessa College, or before if possible, the student should select the senior institution to which he desires to transfer after leaving OC. He should become familiar with the transfer requirements and then design a suitable course of study at Odessa College. Odessa College counselors will assist students.

In consultation with the advisors from the senior college, applicability of grades and courses should be predetermined.

Generally speaking, senior colleges will not accept more than 66 semester credit hours in transfer. The student should avoid exceeding this number of hours. Senior colleges vary greatly in their practice regarding the allowance of credit for courses pursued at junior or community colleges.

No transcripts will be released by the college unless the student has cleared all of his records at the college.

Technical and Vocational Occupational Program

Odessa College offers a wide variety of technical-occupational programs designed to enable a student to enter his chosen career field as a skilled employee after one or two years of college work.

These programs are established only after studies verify that employment opportunities will exist at the time the student completes his training. The community's manpower requirements are matched with the ambitions and goals of the student.

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

Continuous liaison is maintained with prospective employers to assist in placement of graduates and to keep the training programs up-to-date with the current job requirements. Skills needed on the job are taught in these classes, by occupational-technical faculty who have many years working experience, as well as academic training.

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

Technical and vocational occupational courses carry college credit leading to an Associate in Applied Sciences Degree, and Certificate of Completion, or a Certificate of Technology.

Evening Classes

Evening classes represent an integral part of the total educational program, offering courses comparable to those in the regular day program. Evening courses are offered primarily for individuals of the community who want to carry less than a full college course load, and a wide variety of courses is offered for both college credit and non-credit for those who want to broaden their educational backgrounds.

Students may complete requirements for an associate degree or certificate plan in most programs during evening hours, although the length of time to complete the programs may be longer than suggested for full-time day students.

Summer Session

The summer session consists of two terms of five to six weeks each; classes are held both during the day and evening hours. Students may enroll in as many as seven semester hours in each six-week session. Credit earned in a course is equivalent to that offered in the same course during a regular semester. Information regarding the Summer Session can be obtained from the Counseling Center of Odessa College.

Adult and Continuing Education

OC offers a wide variety of community interest and short-term, non-credit courses for those who want to broaden their educational experience, but are not interested in obtaining college credit. These courses may range from a one-day workshop to a full nine-month program, but typically are of shorter duration than the regular semester.

Almost any course that is of public interest can be organized if twelve students ask to be enrolled, provided that a competent instructor and suitable facilities are available. There are no entrance requirements for continuing education courses, and any individual who can profit from the course may enroll.

A list of community service courses may be obtained from the Associate Dean of Adult and Continuing Education.

Midwinter Session

Odessa College offers a special shortterm session to accommodate students who want to complete a course during the interim period between the regularly scheduled semesters. A nine or ten-day Midwinter Interim Session is held following the close of the Fall Semester and prior to the beginning of the Spring Semester. Students may complete a two or three-semester-hour course during this special session.

Compact Semester

Odessa College has designed a special session for high school students who are attending schools that are on the quarter system. A student who completes his high school studies during the second quarter may enroll in the Compact Semester in March and may complete as many as ten semester hours by the end of he regular Spring Semester. Classes are held daily to permit the abbreviated time schedule.

The Compact Semester is also available to regular college students who want to augment their schedule, to high school students who become eligible for early admission, and to adults who want to enroll in college courses. Veterans enrolled in the Compact Semester are eligible to apply for V.A. educational benefits and should check with the Veterans Office for information. A limited number of scholarships and loans is also available through the Odessa College Financial Aid Office.

Adult Basic Education

Classes are offered to adults who have not completed their high school education. The classes range from level one instruction, during which adults learn to read and write, to classes that prepare adults to successfully complete the state-administered GED test. The classes are free and books are furnished. During



the 1975-76 school year, enrollment in the adult basic education classes sponsored by Odessa College was more than 2,200 students. During the same school year, the Odessa College adult basic education

program was recognized as the fastestgrowing program of its type in the state.

The five major subjects are math, English, social studies, natural science and literature. Morning, afternoon and evening classes are offered in numerous locations in Odessa, as well as on the Odessa College campus.

Odessa College also sponsors adult basic education classes in other counties including Andrews, Brewster, Crane, Culberson, Ector, Jeff Davis, Loving, Pecos, Presidio, Reeves, Terrell, Upton, Ward and Winkler.

Literacy classes, English as a second language and junior high level studies are available. Classes have open registration, self-paced and individualized instruction.

High school graduates who have a deficiency in any of the five major areas may apply at the adult basic education office for admission to one of the classes. Standardized tests will be administered and if the student functions at less than a twelfth grade level, free admission to the class is allowed for remedial work.

For more information on class locations and times call the Director of Adult Basic Education, at Odessa College, 915-337-5381, Ext. 300.

Extension Centers

Odessa College offers many of its regular classes at extension centers located in Pecos, Monahans, Andrews, Kermit and McCamey. Registration is conducted in each city during the week prior to registration on campus. The exact time and date for each registration is carried through local news media. Information about Extension Centers can be obtained in the office of the Dean of Student Development.

Degree Requirements

Associate in Arts Degree

To qualify for the Associate in Arts Degree (A.A.), the student must complete the following:

English

2 years

Foreign Language or

Mathematics, or Science 1 year

Freshman Orientation

Orientation 111

Government

Govt 231 and 232

History

Hist 231 and 232 (Hist 233 may be substituted for

either course)

Physical Education*

Four one-hour activity classes (except for approved

substitutions)

Sophomore hours

18 or more, 12 of which must be taken at Odessa

A minimum of 63 semester hours.

A minimum average of "C" in all work.

Twelve of the last 18 hours, prior to the degree being granted, must be done in residency.

Discharge of all financial obligations to Odessa College.

Associate In Science Degree

To qualify for the Associate in Science Degree (A.S.), the student must complete the following:

English

2 years

Freshman Orientation

Orientation 111

Government

Hist 231 and 232 (Hist 233 may be substituted for

either course)

Mathematics

1 year

Physical Education*

Four one-hour activity classes (except for approved

substitutions)

Science

A minimum of 12 semester hours

Sophomore hours

18 or more, 12 of which must be taken at Odessa

College

A minimum of 63 semester hours.

A minimum average of "C" in all work.

Twelve of the last 18 hours, prior to the degree being granted, must be done in residency.

Associate In Fine Arts Degree

To qualify for the Associate in Fine Arts Degree (A.F.A.), the student must complete the following:

English 2 years

Freshman Orientation Orientation 111
Government Govt 231 and 232

History 231 and 232 (Hist 233 may

be substituted for either course)

Physical Education* Two one-hour activity classes (except

for approved substitutions)

Completion of an interdisciplinary core including 3 semester hours in Humanities 131, Introduction to the Fine Arts, and 9 semester hours selected from the following courses:

Dr 131 Introduction to the Theatre

Phot 133 Basic Photography
Art 130 Art Appreciation
Music 131 Music Appreciation

PE 111j and/or 112j

and/or 211j Modern Dance

R/TV 131 Survey of Radio and Television

Completion of 18 semester hours in one of the following fine arts fields; Dance;

Music; Photography; Radio/TV; Theatre; Art.

Completion of 6 semester hours from the following: Anth 232; Relg 131 or Relg 133;

Soc 231; Phil 231; Psy 231.

A minimum of 63 semester hours.

A minimum average of "C" in all work.

Twelve of the last 18 hours, prior to the degree being granted, must be done in residency.

Discharge of all financial obligations to Odessa College.

Associate In Applied Science Degree

To qualify for the Associate in Applied Science Degree (A.A.S.), the student must complete the following:

English and Speech 6 semester hours as specified in each program

Freshman Orientation Orientation 111

Government As specified in each program

Mathematics As specified in each program

Physical Education* 2 one-hour activity classes (except for approved

substitutions)

Science As specified in each program

Sophomore hours 18 semester hours or more, 12 of which must be taken

at Odessa College

A minimum of 63 semester hours.

The course of study as prescribed in the specified program.

A minimum average of "C" in all work.

Twelve of the last 18 hours, prior to the degree being granted, must be done in residency.

Discharge all financial obligations to Odessa College.

*Veterans who have two years active service credit may satisfy the PE requirement by submitting a copy of DD-Form 214 to the Registrar's Office.

Certificate of Completion

To qualify for the Certificate of Completion, the student must complete the following: One year of English.

Orientation 111.

Two one-hour activity classes of physical education except for approved substitutions. Eighteen or more sophomore hours.

A minimum of 63 semester hours.

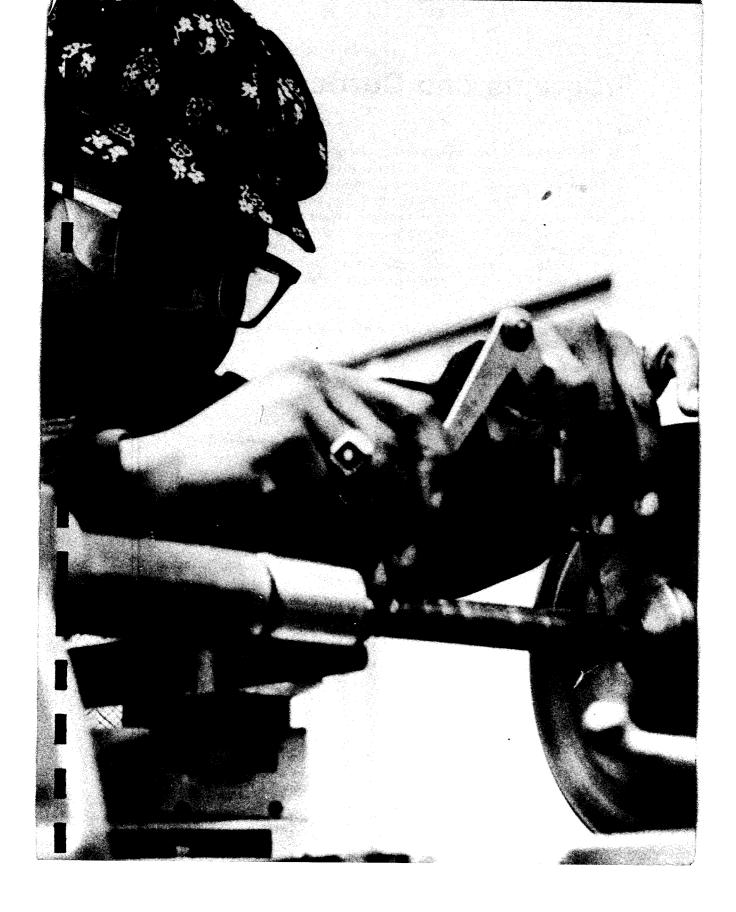
Twelve of the last eighteen hours, prior to the degree being granted, must be done in residency.

A minimum average of "C" in all work.

Discharge of all financial obligations to Odessa College.

Certificates of Technology

Certificates of Technology are awarded for completion of requirements with a minimum average of "C" in all work in certain occupational and technical curricula as prescribed in the Odessa College catalog or as approved by the Associate Dean for Occupational Programs.



Programs and Curricula

Art

The Department of Art provides an opportunity for all members of the community to explore and develop their creative potential. Art courses are designed to provide quality instruction for those students seeking professional and semi-professional art degrees and careers. The Department of Art utilizes the core curriculum of art instruction as recommended and approved by the Texas Association of Schools of Art and the Texas College and University Coordinating Board. These core courses are freely transferable to all accredited Texas Colleges and universities as they apply to the student's particular art major. In addition to a professionally active art faculty, the art program includes well equipped labs for all areas of studio art such as drawing, painting, ceramics, sculpture, and jewelry.

Course of Study for Associate in Art Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Art 130 or 137a	3	Art 131b	
Art 131a	3	Art 132a or 133	3
Art 133 or 132a	3	Art 130 or 137b	3
Engl 131	3	Engl 132	3
Orientation 111	1	PE	1
PE	1	Science	4
Science	4		

Second Year

Third Semester	Fourth Semester
Course Sem. Hrs.	Course Sem. Hrs.
Art 132b 3	Art 232a or 232b3
Art 232a 3	Art 236 3
Art 234a, 238a or 239a 3	Art 238a or 239a or 234a 3
Engl (Sophomore Level)	Engl (Sophomore Level)3
Govt 231 3	Govt 232 3
Hist 231	Hist 232
PE	PE 1



- Art 137a Art History Survey I (3-0) 3 hours
 Western Man's art heritage from the prehistoric
 era through the Middle Ages is surveyed in this
 course. The relationship of great works of art to
 their respective culture and civilization is
 stressed. A variety of audio-visual media is
 used to illustrate the various periods, styles and
 personalities. Prerequisite: None.
- Art 137b Art History Survey II (3-0) 3 hours
 Art History 137b is a continuation of Art History

- 137a. Western Man's art heritage from the Renaissance to the present is included. Emphasis is on gaining an understanding of the varied forms of modern art through their relationship to contemporary society. Prerequisite: None.
- Art 231a Watercolor Painting I (2-4) 3 hours
 An exploration of the various watercolor techniques and their application to a wide range of subject matter is made in this introduction to watercolor. Stress is on the development of basic skills in watercolor expression. Prerequisite: Art 131a or its equivalent.
- Art 231b Watercolor Painting II (2-4) 3 hours
 This course is a continuation of Art 231a. It
 emphasizes esthetic factors, style, and creative
 approaches. Prerequisite: Art 231a.

- Art 234a Art Metals and Jewelry (2-4) ... 3 hours
 Art Metals and Jewelry 234a is designed to give
 the student the ability to create original, functional jewelry by using a variety of techniques,
 media, and shop practices. Prerequisite: None.
- Art 234b Art Metals and Jewelry (2-4) ...3 hours
 Art Metals and Jewelry 234b is designed to
 further the student's ability to produce original
 jewelry by emphasizing the exploration of
 jewelry techniques, emphasizing casting and
 more complex construction. Prerequisite:
 None.



HUMANITIES

Fine Arts students have the opportunity to pursue an interdisciplinary fine arts program with an emphasis in one major area which culminates in an Associate in Fine Arts degree (A.F.A.).

This program is designed to prepare individuals for paraprofessional fine arts occupations, leadership and involvement in the development of community fine arts activities. It allows the student to explore all of the Fine Arts areas: music, visual art, photography, theatre, and dance. The interdisciplinary nature of the program reinforces basic fine arts skills and concepts and gives breadth to the student's fine arts involvements.

Course of Study for Associate in Fine Arts Degree* (Art Emphasis)

First Year

First Semester		Second Se	cond Semester Sem. Hrs.	
Course	Sem. Hrs.	Course	Sem. Hrs.	
Art 131a	3	Art 131b or 130	3	
Art 132a	3	Engl 132	3	
Engl 131	3	Dr 131	3	
Hum 131	3	R/TV 131	3	
PE 111j	1	Photo 133	3	
Relg 131	3	PE 112j		
Orientation 111	1			

Second Year

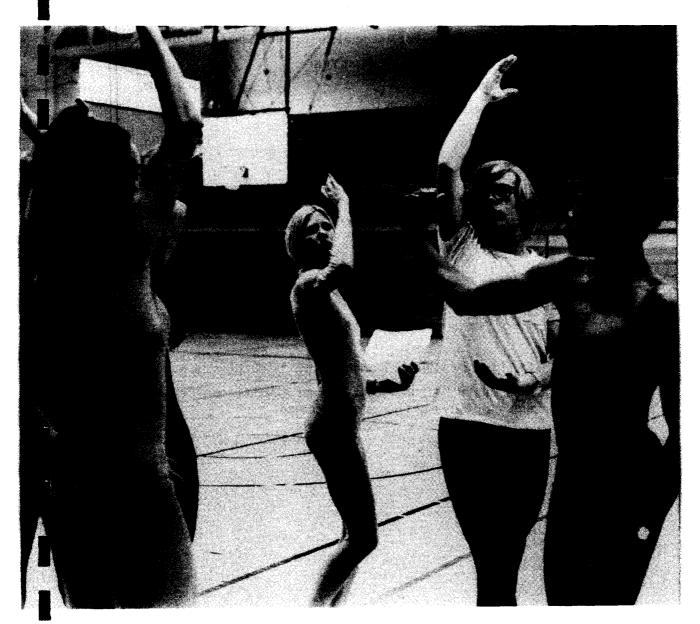
First Semester		Second Semest	Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.	
Art 137a	3	Art 137b	3	
Art 232a, 234a or 238a	3	Engl (Sophomore Level)	3	
Engl (Sophomore Level)	3	Govt 232		
Govt 231	3	Hist 232	3	
Hist 231	3	Phil 231	3	

^{*}The suggested course of study is designed for the A.F.A. degree with a concentration in Art. Similar plans can be designed for music, photography, theatre, etc.

HUMANITIES

Hum 131 Introduction to the Fine Arts

signed to interrelate the esthetic concepts common to each art form while involving the student in the excitement and action of fine arts activities and personalities. Prerequisite: None.



Humanities

Automotive Mechanics

Maintaining and servicing automobiles is an immense business and a very important activity in the American economy. The automotive service field is so widespread and fast growing that many excellent career opportunities are open to the person with the proper qualifications.

The Associate in Applied Science Degree provides the necessary educational background for advancing to positions of even greater responsibility in the industry.

Course of Study for Associate in Applied Science Degree

First Year

First Sem	nester	Second	Semester
Course	Sem. Hrs.	Course	Sem. Hrs.
AT 161	6	AT 163	6
AT 162	6	AT 164	6
Math	3	DT 141 or Engr 13	1 4-3
Orientation III	1	PE*	
PE*	1		

Second Year

inira Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
AT 261	6	AT 263	6
AT 262	6	AT 264	6
Engl 131	3	Engl 132 or Spch 2	234 3
Govt	3	Mgt 131	

*H.Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

Students not desiring the AAS degree may recieve a Certificate of Technology by completing a minimum of forty-eight hours in AT courses.



AUTOMOTIVE MECHANICS

AT 161 Internal Combustion Engines

AT 162 Automotive Machine and Metals

AT 163 Transmission and Power Trains

AT 164 Automobile Cooling and Lubrication

AT 261 Automotive Electrical Systems

AT 262 Automobile Air-Conditioning

AT 263 Emission and Fuel Systems

AT 264 Automobile Servicing and Shop

Biology

Courses offered in the Biology Department are directed toward two objectives. First, they are designed to provide the student majoring in a biological science with a sound foundation for advanced study at an upper-level or professional institution. The second objective is to provide the non-science major with information and concepts about himself and the living world around him to help him become a well-rounded citizen.

Courses of Study for Associate in Science Degree

First Year

First Se	emester	Second	Semester
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141	4	Biol 142	4
Chem 131 and 111	4	Chem 132 and 112	4
Engl 131	3	Engl 132	
Lang 141	4	Lang 142	4
Math 134 or More A	dvanced3	Math 132 or More	Advanced3
Orientation 111		PE	
PE	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biology Elective*	3-4	Biology Elective*	3-4
Engl (Sophomore Level)	3	Engl (Sophomore Leve	el) 3
Govt 231	3	Govt 232	3
Hist 231	3	Hist 232	3
Lang 231	3	Lang 232	3
PE	1	PE	1

^{*}The second year requirements for Biology Electives may be fulfilled by taking any combination of the following courses. Biol 233, Biol 236, Biol 241, Biol 242, Biol 244, or Biol 245. Choice of an elective may depend upon the student's plans for future study. The student is invited to consult with the Biology faculty for information on these courses.

DENTISTRY**

Entrance to a college of dentistry requires a minimum of sixty semester hours of acceptable college or university credit in addition to meeting the special entrance requirements of the chosen college. A student may satisfy the sixty semester hours of college credit and qualify for the Associate Degree in Science by following the suggested degree plan for Pre-Dentistry.

MEDICINE**

It is recommended by most colleges of medicine that a student complete a baccalaureate degree before entering the college of medicine. Since there is no baccalaureate degree in "Pre-Med," no particular major is specified so long as the courses which are required for entrance to the college of medicine are included. Provisions exist for a student to be admitted to a college of medicine upon completion of ninety semester hours of college credit provided he satisfies all other requirements for entrance to the college of medicine.

A student may complete specified courses in the first two years of college and qualify for the Associate Degree in Science following the suggested degree plan for Pre-Medicine.

VETERINARY MEDICINE**

The minimum scholastic requirement for enrollment in the professional curriculum of veterinary medicine is the satisfactory completion of not less than sixty semester hours of acceptable college or university credit. In addition to this the student must meet any special entrance requirements that may exist for the college of veterinary medicine.

A student may complete the required course for the first two years and qualify for an Associate Degree in Science by following the suggested degree plan for Pre-Veterinary Medicine.

**The student who expects to enter a profession in dentistry, law, medicine, optometry, pharmacy, veterinary medicine, or some related profession which requires graduation from a specialized college should check carefully the entrance requirements for the college to which he expects to transfer after two years at the College.

The College offers courses which are required in the first two years by most specialized colleges.

Course of Study for Associate in Science Degree Pre-Dentistry, Pre-Medicine, Pre-Veterinary

First Year

First Seme	ester	Second Semes	ter
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141	4	Biol 142	4
Chem 131 and 111	4	Chem 132 and 112	4
Engl 131	3	Engl 132	3
Hist 231*	3	Hist 232	3
Math 134 or More Adva	anced 3	Math 132 or More Advance	ed3
Orientation 111		PE	1
PE	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 244*	4	Biol 241*	4
Chem 241	4	Chem 242	4
Engl (Sophomore Level)	3	Chem 242	4
Govt 231	3	Engl (Sophomore Level)	3
PE	1	Govt 232	3
Phys 141	4	PE	1
		Phys 142	4

^{*}These courses are optional for Pre-Veterinary students.

OPTOMETRY**

A student may enter a college of optometry after completing two years of required college courses and satisfying any special entrance requirements of the college of optometry.

A student may complete two years of required courses and qualify for the Associate Degree in Science by following the suggested degree plan shown below.

Course of Study for Associate in Science Degree

First Year

First Sem	ester	Second Se	emester
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141	4	Biol 142	4
Chem 131 and 11	4	Chem 132 and 112	4
Engl 131	3	Engl 132	3
Hist 231	3	Hist 232	
Hist 231	3	Math 132 or More Adv	anced 3
Math 134 or More Adv	anced3	PE	1
Orientation 111	1		
PE	1		

Second Year

Third Seme	ester	Fourth Se	mester
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 244	4	Biol 241	4
Engl (Sophomore Level)) 3	Engl (Sophomore Lev	el)3
Govt 231	3	Govt 232	3
PE	1	PE	
Phys 141	4	Phys 142	4
Elective	3	Elective	3

^{**}The student who expects to enter a profession in dentistry, law, medicine, optometry, pharmacy, veterinary medicine, or some related profession which requires graduation from a specialized college should check carefully the entrance requirements for the college to which he expects to transfer after two years at the College.

The College offers courses which are required in the first years by most specialized colleges.

PHARMACY**

Entrance to a college of pharmacy may be gained after the completion of two years of college providing that the student has successfully completed certain required courses and can satisfy the special entrance requirements of the college of pharmacy.

A student may complete the two years of college required and qualify for the Associate Degree in Science by following the suggested degree plan shown below.

Course of Study for Associate in Science Degree

First Year

First Semester		Second Semester	
Course Chem 131 and 111 Eco 231 Engl 131 Hist 231 Math 132 or More Advanced	3 3 3 3	Course Chem 132 and 112 Engl 132 Hist 232 Math 133 or More Advanced Math 231 PE	Sem. Hrs4333

Second Year

Third Semester		Fourth Semester
Course Sem.	Hrs.	
Biol 141	4	Biol 142 4
Chem 241	4	Chem 242
Engl (Sophomore Level)	3	Engl (Sophomore Level)3
Govt 231	3	Govt 232 3
PE	1	PE1
Phys 141	4	Phys 142

^{**}The student who expects to enter a profession in dentistry, law, medicine, optometry, pharmacy, veterinary medicine, or some related profession which requires graduation from a specialized college should check carefully the entrance requirements for the college to which he expects to transfer after two years at the College.

The College offers courses which are required in the first two years by most specialized colleges.

BIOLOGY

- Biol 111 Medical Terminology (1-0) 1 hour An introduction to medical terminology to students who are planning any sort of health science career. The course will consist of Latin and Greek roots, prefixes and suffixes as well as proper pronunciation and spelling. No prerequisite.
- Biol 141 General Biology (3-3)........... 4 hours
 Biol 141 is a study of the cellular and organ
 activities of representative plants and animals

with the objective of providing the student with an overall picture of the living world and the organizational and functional aspects of living matter. Prerequisite: None.

Biol 142 General Biology (3-3)............. 4 hours
This course is a continuation of Biol 141 and
assumes the foundation laid therein. The instructional approach is oriented toward
analysis rather than description in dealing with
the operational character of living matter. Prerequisite: Biol 141 or consent of the instructor.

Biol 143 Anatomy and Physiology

Biol 225 Marine Ecology

- Biol 236 Introductory Entomology (2-3) ... 3 hours
 This course is an introduction to the study of
 the classification, structure, physiology, ecology and evolution of insects. Special attention
 is given to insects of economic significance,
 their identification, life cycles, and relationships to man, including fundamental biological
 interactions and controls. Collections and field
 trips are required. Prerequisite: Eight semester
 hours in biology and sophomore standing.

- Biol 241 Comparative Anatomy (3-4) 4 hours
 A study of the anatomy of type chordates is
 undertaken from a comparative viewpoint. Lectures deal with the progressive development of
 the organs and organ systems. A representative animal from each class of the Vertebrata is
 dissected in the laboratory. Prerequisite: Biol
 141 and 142.
- Biol 242 Introductory Genetics (3-3) 4 hours
 This course deals with the physical and chemical bases of hereditary variation in the living world. The application of genetic principles is stressed. A laboratory problem involving the identification of the inheritance of several mutations in an experimental organism is required. Prerequisite: Biol 141 and 142. College algebra is useful but not required.

Building Trades

The Building Trades Program at Odessa College is designed to train students for entry level jobs in the building and construction industry. Specific areas of training include on-site experience in the areas of (1) carpentry; (2) concrete; (3) masonry; (4) plumbing; (5) electrical; (6) mechanical, and (7) architectural drawing and specifications.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
BT 161	6	BT 163	6
BT 1626		BT 164	6
Engl 131	3	Engl 132 or Speech	n 2343
Orientation 111	1	PE*	
PE*	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
BT 261	6	BT 263	6
BT 262	6	BT 264	6
Math 131, 131t, or More Advanced3		Govt	

^{*}H ED 131 or PE 132a may be substituted for the two one-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of forty-eight hours in BT courses.

BUILDING TRADES

codes, specifications and requirements in the plumbing trades as required from city easement to completed installation. Masonry trades will include concrete, bricks, stone and expanded shale blocks. Prerequisite: BT 163.

BT 262 Principles of Residential

- BT 263 Cabinetry and Finish Work (2-8) . 6 hours Finishing procedures such as fixtures, cabinet work, sheetrocking, acoustical and ceramic tile installation, painting, finishing and all other necessary steps to complete the building will be emphasized. Prerequisite: BT 164.

Business Administration

Business Administration is a very broad field of study and contains many possible majors. The courses offered include those required by senior colleges at the freshman and sophomore level to obtain the degree of Bachelor of Business Administration. A business major should be aware of the opportunities, requirements and obligations in the various majors of specialization so that a proper choice for study can be made. A student should reserve the decision of choosing an area of emphasis depending on his own capabilities and interests. Suggested fields of study include accounting, advertising, banking, finance, business teaching, various phases of management, insurance, retailing, marketing, statistical analysis, pre-law and policy, and environment.

The department also offers courses which may be directly applicable to those who are already employed but wish to upgrade their job skills or to meet certification requirements for their particular vocation.

Course of Study for Certificate of Completion in Business Administration

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
BA 131b	3	Engl 132	
Engl 131	3		
Hist 231	3	Math 136b	
Math 135b	3	PE	
Orientation 111	1	Science	
PE		Spch 234	
Science		•	

Second Year

Third Semester		Fourth Semester	
Course Sem. Hrs.		Course	Sem. Hrs.
BA 241a	4	BA 242a	
Eco 231			
Engl (Sophomore Level)			evel) or EDP 245 3
Govt 231 3			
Math 237b	3		
PE			

BUSINESS ADMINISTRATION

Course of Study for Certificate of Completion in Accounting

First Year

First Semester Second Semester	
Course Sem. Hrs.	Course Sem. Hrs.
BA 131b3	BA 242a4
BA 241a 4	Engl 132 3
Engl 131 3	
Hist 231	Math 136b 3
Math 135b 3	PE 1
Orientation	*Approved Elective3
DF 1	

Second Year

Third Ser	mester	Fourth Semester
Course	Sem. Hrs.	
Eco 231	3	Eco 232
Engl (Sophomore Lev	/el)3	EDP 245 or Approved Elective 3-4
Govt 231	3	Govt 232 3
Math 237b	3	PE1
PE		Psy 231 or Spch 234 3
Science	4	Science

^{*}Approved Electives: BA 231L, OE 238, EDP 243, EDP 246, Psy 231, Soc 231.

Note: To qualify for an Associate in Science degree, the student will need to complete 6 hours of sophomore English and 4 additional hours of a laboratory science. To qualify for an Associate in Arts degree, the student will need to complete 6 hours of sophomore English.

BUSINESS ADMINISTRATION

General Business

BA 131b Introduction to Business (3-0)...3 hours
A general survey of the various fields of opportunity in business and industry is made with special emphasis on the aptitudes and the skills required to be successful in these areas. The course includes methods and practices of businessmen and the contribution of business to our society. Prerequisite: None.

Accounting

- BA 231a Intermediate Accounting (3-0) ...3 hours
 The recording and reporting process is studied
 with emphasis on the accounting principles
 underlying the balance sheet, income statement, and statement of retained earnings.
 Other topics studied include matching costs
 and revenue; intangible assets, deferred assets; insurance; cash, receivables, and investments. Prerequisite: BA 242a.
- BA 232a Intermediate Accounting (3-0) ...3 hours
 Continues the studies begun in BA 231a by
 exploring topics involving financial statement
 reporting and disclosure. Subjects include intangible assets; current, contingent and longterm liabilities; paid-in capital and retained
 earnings; the statement of changes in financial
 position; the uses of comparative data and
 special measurements and analysis; statements from incomplete records; and errors and
 their correction. Prerequisite: BA 242a.
- BA 241a Principles of Accounting (3-3) ...4 hours
 This course presents the introduction to principles of accounting for proprietorships, the accounting cycle and systems, inventories, deferrals and accruals, and payroll systems. Two practice sets are required during the semester. Prerequisite: None.
- BA 242a Principles of Accounting (3-3) ...4 hours
 This course presents the principles of accounting for partnerships and corporations; accounting for manufacturing and job orders; financial statements and their analysis. Two practice sets are course requirements. Prerequisite: BA 241a.

Business Law

Insurance

- BA 235i Survey of Insurance (3-0)3 hours
 This course is designed as a first course in
 insurance covering risk management, fire and
 allied lines, legal liability, automobile insurance, the family automobile policy, garage liability, homeowner, and farmowners insurance.
 Prerequisite: None.
- BA 236i Survey of Insurance (3-0) 3 hours
 This course is a comprehensive study in insurance covering general liability, workmen's compensation, crime and fidelity insurance as well as inland marine, commercial multiple peril, miscellaneous lines of glass, aviation, boiler and machinery, fundamentals of rating, insurance laws and the agent. Prerequisite:

Mathematics for Business Administration

Math 132b Elementary Mathematics of

Math 135b College Algebra —

BUSINESS ADMINISTRATION

Math 136b Mathematical Analysis for

Math 237b Business Statistics (3-2)3 hours
The course provides an introduction to the techniques of collection, presentation, analysis, and interpretation of numerical data. Application of correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models, and programming are stressed. Prerequisite: Math 136b.



Chemistry

The objectives of the Chemistry Department are to prepare pre-professional chemists, chemical engineers, and chemical education majors; also, to give an effective background in chemistry for work in biology, physics, home economics, agriculture, pre-medicine, and elementary education. A co-objective is to prepare students for careers in chemical technology, where emphasis is placed on applied chemistry for modern laboratory instrumentation.

The chemistry curriculum is intended to be general enough to fulfill these objectives for the major or the non-major's requirements for the first two years of college chemistry. Students are responsible for checking the catalog of the senior college to which they plan to transfer to determine which of these courses are compatible with the senior college degree program.

Course of Study for Certificate of Completion in Chemistry

First Year

First Semes	ter	Second Sen	nester
Course	Sem. Hrs.	Course	Sem. Hrs.
Chem 131 and 111	4	Chem 121	2
Engl 131	3	Chem 132 and 112	4
Hist 231	3	Engl 132	3
Math 133	3	Hist 232	
Orientation 111	1	Math 231	3
PE 1	PE	1	
		Phys 143	4

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Chem 231 and 211	4	Chem 232 and 212	4
Govt 231	3	Chem 233 and 213	4
Lang 141	4	Govt 232	3
Math 232	3	Lang 142	4
		PE	
Phys 241	4	Phys 242	4

To receive the Associate in Science Degree, the student must complete 12 hours of English.

CHEMISTRY

Chem. 110 General Chemistry Laboratory

Chem. 111 Fundamentals of Chemistry

Chem. 112 Fundamentals of Chemistry

Chem. 121 Chemical Calculations

Chem. 130 General Chemistry (3-0)......3 hours
Lecture course which satisfies a need for an integrated chemistry and general science course which unites the basic facts for inorganic and organic chemistry. The intent of the course is to stimulate an interest in and concern for the relationship of chemistry to life and living. This course will be self-paced and can be used to prepare for Chem. 131. Prerequisite: None.

Chem. 131 General Inorganic Chemistry I

Chem. 132 General Inorganic Chemistry II

Chem. 211 Organic Chemistry Laboratory I

Chem. 212 Organic Chemistry Laboratory II

Chem. 213 Analytical Chemistry Laboratory I

Chem. 214 Analytical Chemistry Laboratory II

Chem. 221 Organic Nomenclature

Chem. 230 Physiological and Food Chemistry

CHEMISTRY

physiological functions. Some topics covered will be diets, food additives, drugs, pesticides, and heavy metals. Prerequisite: None.

Chem. 231 Organic Chemistry I (3-0) 3 hours Lecture course which is a mechanistic approach to an integrated study of aliphatic and alicyclic hydrocarbon compounds and their derivatives. Prerequisite: Chem. 132. Corequisite: Chem. 221 or permission of instructor. Credit probably not transferable until Chem. 221 is successfully completed.

Chem. 232 Organic Chemistry II (3-0) 3 hours Lecture course which is a continuation of Chem. 231; a mechanistic approach to an integrated study of aromatic hydrocarbons and their derivatives. Also included are introductions to biochemistry and instrumental methods applicable to organic chemistry. Prerequisite: Chem. 231. Credit probably not transferable until Chem. 212 is successfully completed.

Chem. 233 Analytical Chemistry I (3-0) ... 3 hours Lecture course which is a study of the fundamental principles of elementary quantitative analysis, both theory and practical. Some topics covered are review of stoichiometric relationships, gravimetric analysis, and volumetric analysis. Corequisite or Prerequisite: Chem. 132. Credit probably not transferable until Chem. 213 is successfully completed.

Chem. 234 Analytical Chemistry II (3-0)... 3 hours Lecture course which studies the principles of instrumental methods of analysis. Spectroscopy methods in the ultraviolet, visible, infrared, emission, and x-ray regions will be discussed; also instruments such as NMR, EPR, mass spec, GC, and thermal methods will be covered. Prerequisite: Chem. 233. Credit probably not transferable until Chem. 214 is successfully completed.



Child Development

The field of child development is a rapidly growing area with a wide range of employment possibilities. There is an increasing number of job opportunities available in the community for those who work with children. Public and private schools, federal agencies, day care centers, industry, and community agencies need professionally trained people who understand children and can give love, guidance, and leadership to children.

The Associate Degree program in Child Development will provide an opportunity for an in-depth study of the whole child. In the certificate program, the student will concentrate on the special area of Child Development.



CHILD DEVELOPMENT

Course of Study for Associate in Applied Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
CD 130	3	CD 133	
CD 131	3	CD 142	
CD 135	3	CD 136	
CD 141	4	CD 134	
Spch 131	3	Engl 130	
Orientation 111	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
CD 236	3	CD 233	
CD 235	3	CD 238	
CD 237	3	CD 269	6
Math 132b	3	Govt	
PE*	1	PE*	
Approved Elective**	3		

^{*}H. Ed. or PE 132a may be substituted for the two 1-hour physical education courses.

Certificate Plan in Child Development

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
CD 130	3	CD 133	
CD 131	3	CD 142	4
CD 135	3	CD 136	
CD 141	4	CD 134	
CD 237	3	CD 238	

^{**}Approved Electives: CD 234, CD 240, or DR 235.

CHILD DEVELOPMENT

CD 131 Guiding and Teaching

CD 134 The Abused and Neglected

- CD 135 Creative Art, Music and Movement in Preschool Education (2-3)........ 3 hours Study of creative arts, music, and movement for the young child is presented. Individual projects are planned and presented in the nursery school laboratory. Prerequisite: None.

Infant through Four (3-3) 4 hours Emphasis is placed upon the development processes and environmental factors which shape the personality and affect the achieve-

CD 141 Child Growth and Development I,

processes and environmental factors which shape the personality and affect the achievement of the child from birth through four years of age. Laboratory requirements consist of observation and study of preschool and elementary age children. Prerequisite: None.

and the influence of his environment in the early years as the child grows and develops within himself, his family, and his community. Prerequisite: None.

- CD 233 Family Development (3-0) 3 hours
 Development and relationships of individual family members are studied. The changing role of the female in society and the family will be discussed in addition to the stages of the family life cycle. Prerequisite: None.

children. Prerequisite: None.

CHILD DEVELOPMENT

order to bring out the maximum home-center coordination will be emphasized. Prerequisite: None.

CD 237 Literature and Language

CD 238 Preschool Science

quaint the child with nature, ecology and the world around him. Math concepts such as forms, shapes, etc. will be included. Prerequisite: None.

CD 240 Infant and Toddler

CD 269 Application of Learning

Communication and Theatre

The Department of Communication and Theatre acknowledges those arts and skills fundamental to the human potential. Its purpose is to illuminate the impact of communication and theatre arts on contemporary behavior and to promote the successful functioning of individuals within a complex cultural milieu. The fields in this department are inherent to virtually all of man's occupational, political, and social endeavors. Therefore, the department seeks primarily to further the nature of man as an educated and cultured being, capable of adjusting and contributing to the world in which he lives.

DRAMA

The Drama Department of the College offers fundamental courses in theatre arts to three types of students: (1) those preparing to teach drama, (2) those preparing for careers in professional theatre, and (3) those wishing to expand their avocational interests in the arts and literature of the theatre.

While the course work done in the department is basically that done in the first two years of senior colleges and universities, it is the responsibility of the student to become aware of the particular requirements of the school to which he will transfer.

The department is a member of the American Educational Theatre Association, the Texas Educational Theatre Association, and the Southwest Theatre Conference.

Each year the College theatre presents a season of major and studio productions in which all drama students participate.

Course of Study for Major in Drama*

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Dr 111	1	Dr 112	
Dr 236	3	Dr 132	
Dr 131	3	Dr 133	
Dr 231	3	Dr 232	
Dr 111j	1	Dr 112j	
Engl 131	3	Engl 132	
Orientation 111	1	Elective	



Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Dr 233	3	Dr 234	
Dr 211	1	Dr 237	
Dr 211j	1	Dr 134	
Govt 231	3	Dr 212	
Hist 231	3	Dr 212j	
Elective	3	•	
		Hist 232	

*Those students wishing to fulfill requirements for the Associate in Arts or the Associate in Fine Arts Degree should consult Degree Requirements listed in the catalog.

DRAMA

- Dr 111j, 112j, 211j, 212j Modern Dance:
 Theatre Dance Form (0-3) 1 hour each
 This course is designed to teach the student
 dance for the theatre. Prerequisite: None.
- Dr 131 Introduction to the Theatre (3-0)...3 hours
 This course is a general survey of the major
 field of theatre art and an introduction to various types and styles of plays. Practical experience in play production is required. Prerequisite: None.

- Dr 136 Theatre Workshop II (1-5) 3 hours

 This course, taught in a Globe replica, introduces the students to the stage, scenery, and machinery used at Shakespeare's original Globe Playhouse, as well as to scenic effects. It acquaints the student with acting techniques the Elizabethan actors used to convey the meaning of Shakespeare's famous plays. Prerequisite: None.

- Dr 233 History of the Theatre (3-0) 3 hours
 This survey of the theatre, from its beginning to
 the present, is a study of the theatre in each
 period as a part of the total culture of the time.
 Plays of important authors are read. Prerequisite: None.

- Dr 234 History of the Theatre (3-0) 3 hours
 This course is a study of the modern theatre including American, English, and Continental plays. Prerequisite: None.

- Dr 237 Training the Actor's Voice (3-0) ... 3 hours

 This course includes both theory and techniques of oral interpretation of literature. The course includes preparation and presentation of selections, including prose, poetry, and dramatic literature. Prerequisite: None.

MASS COMMUNICATION — JOURNALISM

Journalism courses at the College seek to give a practical foundation in basic communication skills necessary for admittance to a senior college major program in journalism. A variety of courses is offered, including reporting, editing, photography, and active production of school publications. As elective courses for non-majors, these courses serve as outlets for creative talent and school service. Also, these classes aid students in various other fields of endeavor.

Course of Study for Associate in Arts Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	OE 131t or more ac	dvanced 3
Hist 231	3	Engl 132	
Jour 111			
Jour 131	3		
Lang 141	4		4
Orientation 111			
PE			
Spch 131			

Second Year

Third Semeste	er	Fourth	Semester
Course	Sem. Hrs.	Course	Sem. Hrs
Engl (Sophomore Level) .	3	Engl (Sophomore l	_evel)3
Govt 231	3	Govt 232	
Jour 211 or 213	1	Jour 212 or 214	
Jour 231	3	Jour 232	
Lang 231	3	Lang 232	
PE	1	PE	
Phot 133	3	Phot 134 or Approv	ved Elective3

MASS COMMUNICATION — JOURNALISM

Jour 131 News Editing and Reporting

 newswriting. The emphasis is on the development of news judgment and a clear, concise writing style. Lectures, discussions and inlaboratory work provide training under deadline pressure in organizing and writing a variety of basic news stories. There are three hours of lecture and three hours of laboratory work each week, as well as participation on the staff of the campus newspaper. Prerequisite: Jour 131 or consent of the instructor, and basic typing skills.

MASS COMMUNICATION — COMMERCIAL PHOTOGRAPHY

Photography courses at the College seek to train the student in the basics of photography as a subject, photography as a profession and in photographic technology. A variety of courses is offered, including professional portraiture, lab technology, commercial technique, and various aspects of color. Opportunities are provided for use of the student's creative talents.

Following completion of the Commercial Photography curriculum, the student will be prepared for entry positions in the photographic industry.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Ba 131b	3	Math 132b	
Engl 131	3	Engl 132	
Orientation 111	1	MCom 130	
Phot 133	3	Phot 134	
Phot 136	3	Phot 137	
PE*	1	PE*	
Spch 131	3		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 233 or Phot 135	3	Phot 135 or Phot 239	3
Phot 231	3	Phot 232	3
Phot 233	3	Phot 234	3
Phot 235	3	Phot 236	3
Phot 237	3	Phot 238	3
PE*	1	PE*	1

^{*}H Ed 131 or PE 132 may be substituted for the two 1-hour physical education courses.

PHOTOGRAPHY

- Phot 133 Basic Photography (2-4) 3 hours
 This is a beginning course which will introduce
 the student to the basic applied and aesthetic
 aspects of photography. The course content
 includes a study of basic theories of film, exposure, development, filters and printing. Prerequisite: None.
- Phot 134 Basic Photography II (2-4) 3 hours
 This course is a continuation of Photography
 133 and is designed for additional experience
 in the photographic medium. Prerequisite:
 Phot 133.
- Phot 135 News Photography (2-4) 3 hours In this specialized course the student learns the basic aspects of newspaper photography with some emphasis on photojournalism. Actual practice is gained through working on the campus newspaper and the college magazine. Prerequisite: Phot 134 or consent of instructor.
- Phot 136 Photo Lab Technique (2-4) 3 hours
 This course has been designed to give the student experience in darkroom printing and developing procedures. The successful completion of this course will qualify the student to work as a lab technician in the photographic industry. Included in the semester's work will be projection printing, contact printing, black and white print finishing, toning and the mixing of photographic chemistry. Prerequisite: None.
- Phot 137 Photo Lab Technique II (2-6) ... 3 hours
 This course is a continuation of Photography
 136 and is designed to give the student additional experience in photo lab work. Prerequisite: Phot 136 or consent of instructor.

work. Prerequisite: None.

photography, fashion, architectural, studies

and window displays. Prerequisite: Phot 134.

- Phot 233 Portrait Photography (2-4)3 hours
 This will be two semesters of learning the basics of professional protraiture. This first semester will deal basically with studio type protraits. The students will practice by making photographs through actually working with adult and children models. Prerequisite: Phot
- Phot 234 Portrait Photography II (2-4) ...3 hours
 This course will be a continuation of Photography 233. Additional experience will be gained in the area of studio protraiture and emphasis will be given to outdoor portraiture. Prerequisite: Phot 233.
- Phot 236 Cinematography II (2-3).......3 hours
 This course will be a continuation of Photography 235 and will deal with advanced areas of film making. Prerequisite: Phot 235.
- Phot 237 Color Photography (2-4) 3 hours
 The first semester of this course will consist of
 taking photographs with color film, both negative and transparency; and the basics of color
 printing. Prerequisite: Phot 134.
- Phot 238 Color Photography II (2-4) 3 hours
 This will be a continuation of the first semester
 of color photography, Photography 237, with
 additional work being given in the area of sensitometry and advanced lab technique.
 Prerequisite: Phot 237.

RADIO — TELEVISION

The ultimate aim of the radio-television program is to prepare the student for entry into the industry by providing him with two years of practical experience as well as academic training. The student can earn a third class radio engineer's license, endorsed for broadcast, during this two years of training.

An outstanding "plus" for the radio-television student at the College is the opportunity to work in the College-owned and operated FM radio station. KOCV—FM is an educational non-commercial radio station designed to entertain and enlighten area and campus listeners.

In the area of television, a considerable amount of TV programming is being done in conjunction with Cablevision of Odessa.

Radio-Television

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Dr 131	
Govt	3	Engl 132	
Orientation 111		Hist 232	
PE*		PE*	
Radio 111		Radio 112	
R/TV 131		R/TV 132	
Spch 131	3	Spch 232	
TV 113		TV 114	

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl (Sophomore Level)	3	Engi (Sophomore Level)	3
Mgt 131	3	M Com 130	3
MU 131	3	Radio 212	1
Radio 211	1	R/TV 232	3
R/TV 231	3	R/TV 233	3
R/TV 236	3	Elective	3
TV 213	1	TV 214	1

^{*}H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

RADIO — TELEVISION

Course of Study for Associate in Applied Science Degree Announcer-Operator Option**

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	ET 142	
ET 141	4	ET 146	
Math 131 or More Advan	ced3	Math 134 or More	Advanced3
Orientation 111	1	PE*	
PE*	1	Radio 112	
Radio 111	1	R/TV 132	
R/TV 131	3	TV 114	
TV 113	1		

Radio-Television

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
ET 147	4	Engl 132 or Speech 234	3
ET 221	2	ET 240b	4
ET 240a	4	Govt	3
Radio 211		Radio 212	1
R/TV 231	3	R/TV 232	3
TV 213		TV 214	1
R/TV 233			

^{*}H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

^{**}This option is operated in conjunction with the Department of Electrical and Electronics Technology.

RADIO — TELEVISION

R/TV 131 Survey of Radio and

R/TV 132 Fundamentals of Radio

R/TV 231 Announcing for Radio

R/TV 232 Writing for Radio and

R/TV 233 Radio and Television

 tary, panel, special event, music programs, and announcements. The course includes a study of television production techniques with emphasis on the creative aspects of the producer's problems. Prerequisite: R/TV 131 or 132.

R/TV 236 Voice and Diction for Radio and

Radio 111, 112, 211, 212 Radio

TV 113, 114, 213, 214 Television

COMMUNICATION AND THEATRE

SPEECH

Because of their relevance to all professional and social endeavors, speech courses are designed primarily to strengthen the oral communication abilities of students from all disciplines and fields of interest. A range of courses is offered to provide the theory, principles, and practice necessary to meet a wide variety of communication needs. In addition, courses fulfill the fundamental academic requirements for speech majors and minors as well as requirements and elective options for students from other departments.

Speech courses need not be taken in any particular sequence. More than one speech course may be taken during a given semester.

SPEECH

Course of Study for Associate in Arts Degree

First Vaar

First Year				
First Semester		Second Semester		
Course	Sem. Hrs.	Course	Sem. Hrs.	
Engl 131	3	DR 131	3	
Hist 231		Engl 132	3	
Orientation 111	1	Hist 232	3	
PE	1	PE	1	
Science	3	Science	3	
Spch 113*	1	Spch 114*	1	
Spch 131	3	Spch 236		
	Second	l Year		
Third Semester Fourth Semester				
Course	Sem. Hrs.	Course	Sem. Hrs.	
Engl (Sophomore Level)	3	Engl (Sophomore Level)	3	
Govt 231	3	Govt 232	3	
Lang 141	4	Lang 142	4	
PE	1	PE	1	
R/TV 131	3	Spch 214*	1	
			_	
Spch 213*	1	Spch 232	3	
Spch 213*		Spch 232	3	

SPEECH

Spch 131 Introduction to Speech	
Communication (3-0) 3 hou	rs
Theory and practice of speech communication	on
in interpersonal, small group, and public cor munication situations are included in th course. Prerequisite: None.	

Spch 113, 114, 213, 214 Forensics Laboratory (0-2) 1 hour each This laboratory is in preparation for intercollegiate speech competition. Prerequisite: None.

Spch 232 Introduction to Oral Interpretation (3-0) 3 hours This course includes both theory and technique of oral interpretation of literature. The course includes preparation and presentation of selections including prose, poetry, and dramatic literature. Prerequisite: None.

Spch 233 Argumentation and Debate (3-0) 3 hours Analysis and application of the fundamental principles and techniques of argumentation and debate are included in the course. Also included are research methods, use of evidence, argument construction, strategies, refutation, and logical thought processes. Prerequisite: None.

Spch 234 Business and Professional Speech Communication (3-0) 3 hours Theories and skills of speech communication as applied to business and professional situations are included in this course. Prerequisite:

Spch 236 Voice and Diction (3-0) 3 hours This course deals with basic principles of diction, voice development, and interpretation. Intensive application through classroom exercises and special projects is designed to meet individual vocal needs and professional objectives. It is necessary to master the International Phonetic Alphabet. Prerequisite: None.

Diesel Mechanics

The Diesel Mechanics program is designed to train the student to service diesel powered trucks, farm tractors, buses, construction equipment, and oil field equipment. Specific areas of training include: (1) major engine overhaul; (2) transmission overhaul; (3) rear axle assembly and drive line overhaul; (4) steering gear and linkage overhaul; (5) fuel injection system overhaul; (6) hydraulic system overhaul; (7) overhaul or replacement of auxiliary equipment such as generators, starters, alternators, switches, regulators, and other miscellaneous items; (8) troubleshooting procedures; and (9) shop management procedures.

Course of Study for Associate in Applied Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
DM 161	6	DM 162	6
DM 163	6	DM 164	6
Engl 131	3	Engl 132 or Speech	n 234 3
Orientation 111	1	PE*	
PE*	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
DM 261	6	DM 262	6
DM 263	6	DM 264	6
Math 131, 131t or More Advanced 3			

*H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of forty-eight hours in DM courses.

DIESEL MECHANICS

Drafting

Draftsmen make working plans and detailed drawings for engineering construction or manufacturing purposes. They usually work from sketches, specifications, or field notes furnished by an engineer, architect, or designer. There is a large demand for draftsmen throughout the nation. Students completing the program will receive an Associate in Applied Science degree.

Course of Study for Associate in Applied Science Degree

First Year

Second Semester	
Course Hrs.	
DT 241a4	
Engl 132 or Speech 2343	
Engr 133 3	
Math 134, 134t, or More advanced 3	
PE* 1	
Approved Elective**1	

Second Year

Third Semester	Fourth Semester	
Course Hrs.	Course Hrs.	
DT 242a 4	DT 244	
DT 243a 4	DT 245	
Math 132 or More Advanced 3	DT 246	
Approved Elective**3	Approved Elective**3	
Govt	•	

^{*}H ED 131 or PE 132a can be substituted for the two 1-hour physical education courses.

^{**}Approved Electives: DT 241b, 242b, 243b, Phys 141, Reading 131, Mgt 131 and 233, Mt 161, and WT 161.

DRAFTING TECHNOLOGY

- DT 140 Industrial Drawing (2-4) 4 hours
 A study of fundamental drafting techniques
 used in machine and welding shops. Emphasis
 is placed on threaded fasteners, fabrication
 prints, dimensioning, sectional views, and visualization of objects in a pictorial form. Prerequisite: None.
- DT 141 Technical Drafting I (2-4) 4 hours
 A basic course in the fundamentals of drawing and sketching for the technical student. Included in the course will be lettering, geometric construction, sketching and shape description, multiview projection sections, dimensioning techniques, auxiliary views, and interpretation of industrial sketches and prints. Emphasis is placed on development of skills as well as theory. Prerequisite: None.
- DT 241a Architectural Drafting (2-4) 4 hours
 This course is an introductory course in the
 field of architectural drafting. Prerequisite: DT
 141 or Engr 131.

DT 241b Advanced Architectural

DT 242a Machine Drafting (2-4) 4 hours
This course deals with engineering sketches,
conventional practices, detail and assembly
drawings, machine fastenings, and pipe drawings. Prerequisite: DT 141 or Engr 131.

DT 242b Advanced Machine

 mensioning and tolerancing will be made. Prerequisite: DT 242a.

DT 243a Technical Illustration (2-4) 4 hours
A study of pictorial drawings used in industrial
catalogs, training aids, engineering designs,
assembly sheets and promotional literature.
Orthographics, axonometrics and perspectives are used extensively. Prerequisite: DT 141
or Engr 131.

DT 243b Advanced Technical

- DT 245 Electronic Drafting (2-4)4 hours

 This is a basic course concerning drafting techniques as they are applied to the field of electronics. Electronic symbols and their application in printed and conventional circuits will be studied. Prerequisites: DT 141 or Engr 131.
- DT 246 Structural Drafting (2-4)4 hours

 This course is a study of the design and development of details and specifications for industrial structures. Emphasis will be placed upon structural steel, pipe, and reinforced concrete. Prerequisite: DT 141 or Engr 131.

Electrical and Electronics

The Electrical and Electronics Technology curriculum is designed to prepare individuals for technical careers in electronics communications, industrial electrical and electronics, consumer electronics servicing, and computer servicing. Emphasis is placed on transistors, integrated circuits, special purpose tubes, and circuits in power supplies, amplifiers, oscillators, transmitters, receivers, television, microwave, and digital logic devices. Power distribution, measuring instruments, electrical machinery, and controls are also studied.

Course of Study For Associate in Applied Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132 or Spch 234	3
ET 141	4	ET 142	4
ET 144a	4	ET 146a	4
Math 131, 131t, or More	Advanced3	Govt	3
Orientation 111	1	Math 134, 134t, or Mor	re Advanced3
PE*	1	PE*	1

Second Year

- 1. Engr 131 or DT 141
- 2. ET 146b
- 3. Minimum of fifteen additional semester hours in ET courses.
- 4. Minimum of seven semester hours of approved electives.**

Students preparing for a career in communications areas should consider the following ET courses in their second year: ET 221, 240a, 240b, 241, 242, 245.

Students preparing for a career in industrial applications should consider the following ET courses in their second year: ET 144b, 230, 246, 248, 249.

Students preparing for a career in consumer electronics servicing should consider the following ET courses in their second year: ET 243, 241, 245.

Students preparing for a career in computer maintenance should include the following in their second year: ET 144a, 144b, 247, EDP-143, 248.

^{*}H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

^{**}Approved electives may be any ET course not already required; DT 245; Engr 133; Phys 141; AT 261; MT 161; R/AC 131, 131a, 132, 132a; Mgt 234; R/TV 131, 132; BA 131b, 231L; WT 161; any EDP; Math 132 or higher; Read 131; Eco 230; any II, DM-163.

ELECTRICAL AND ELECTRONICS

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of thirty-five semester hours in ET courses.

Those who have had some prior training in electrical/electronics in the military, private schools, high schools, etc., may wish to apply for an advanced standing examination. Contact the department chairman.

Associate in Applied Science Degree With Announcer-Operator Option

This option is designed to prepare people for employment in the smaller radio stations as a combination technician, announcer, disc jockey, etc.

The student will work toward the Federal Communications Commission's First Class Radiotelephone license for the technical portion of this option. In addition, the student will study announcing, writing, diction, and production and will be expected to work in the college radio station KOCV-FM.

The Announcer-Operator option is conducted in conjunction with the Department of Communication and Theatre, and the suggested course of study is located in that portion of the catalog. Students selecting this option will be considered R/TV majors.

ELECTRICAL AND ELECTRONICS

- ET 141 Electrical Circuits D.C. (3-3) 4 hours In this course a study is made of the principles of direct current electricity and their application to electrical testing and circuitry. Specific topics include Ohm's law, series-parallel circuits, batteries, meters, magnetism, conductors, insulators, and color code. Prerequisite: None.
- ET 142 Electrical Circuits A.C. (3-3) 4 hours
 This is a study of the principles of alternating
 current and voltage, the application of basic
 laws and formulas to electrical circuits and
 testing, induction, capacitance, reactance, impedance, complex numbers, and filters. Student will need an electronic calculator. Prerequisite: ET 141.
- ET 144a Digital Circuits I (3-3) 4 hours
 Logic circuitry basic to computers, telemetry,
 and automation is studied. Specific topics include: gates; counters; adders, I/O; D/A & A/D
 converters; storage devices, binary, octal,
 BCD, hexidecimal systems; and an introduction to Boolean algebra. Prerequisite: high
 school algebra.
- ET 144b Digital Circuits II (3-3)4 hours
 A state-of-the-art control and logic handling course wherein the microprocessor and associated integrated circuits accomplish by the use of software that which formerly required extensive hard-wired circuitry. It involves programming, machine and assembly languages, octal and hexidecimal systems, and interfacing methods. Included are such devices as RAM, ROM, EROM, UART, PROM, and others, as well as the microprocessor chip. Prerequisite: ET-141, 144a, and recommended elective EDP-248.
- ET 146a Basic Electronics I (3-3) 4 hours
 This is an introductory course on the fundamentals of vacuum tubes and solid state devices such as power supplies, amplifiers, FET, Bipolar transistors, diodes, regulators, and linear integrated circuits. Prerequisite: ET 141.
 Corequisite: ET-142.
- ET 146b Basic Electronics II (3-3) 4 hours
 A continuation of ET 146, this course includes
 topics of operational amplifiers and oscillators,
 UJT, SCR, Diacs, flip-flops, varactors, and servicing. Prerequisite: ET 141, 142, 146a.

ELECTRICAL AND ELECTRONICS

ET 221 Rules & Regulations (2-0) 2 hours
Preparation for the Federal Communication
Commission's second class license examination. Prerequisite or corequisite: ET 240a. Prerequisite waived for non-technical R/TV majors.

ET 230 Electric Power Distribution

ET 240a Electronic Communications I

ET 240b Electronic Communications II

ET 241 Electronics Research Report

ET 242 Ultrahigh Frequencies (3-3) 4 hours
This is a study of microwave systems and involves such specific topics as klystrons, magnetrons, traveling wave tubes, propagation characteristics, impedance matching, Smith chart, solid state devices, precision measurements, and an introduction to avionics and lasers. Prerequisite: ET 141, 142.

ET 245 Television Circuits (3-3)4 hours
The theory and application of principles used in TV transmission and reception are stressed.
Emphasis is placed on circuits that are used for pulse shaping, picture scanning, synchronization, video, amplifiers, color and industrial applications. Prerequisite: ET 141, 142, 144a, 146a, 146b.

ET 246 Industrial Electronics (3-3) 4 hours

This course investigates electronic circuitry used in scientific research, industry, medical technology, etc. Included are such varied areas as sensors, electro-optics, programmable power supplies, induction and dielectric heating, ultrasonics, lasers, analog data transmission. Also covered are electronic ignitions systems and electronic control of temperature, pressure, position, speed, and other variables (servo systems). Prerequisite: ET 141, 142, 144a, 146a.

ET 247 Electronic Computers (3-3)4 hours
Theory and laboratory practice in computer
servicing and repair. Prerequisite: ET 141,
144a, 144b.

ET 248 Electrical Machinery (3-3)...... 4 hours

An investigation into the theory, principles, performance and construction of electric motors, generators, transformers, voltage regulators and other electrical apparatus used in industry is included in this course. Effects of leading and lagging power factors are explored, and corrective methods applied. A very well equipped laboratory permits thorough independent study of all characteristics. Prerequisite: ET 142 or equivalent experience, and high school or college algebra. Small electronic calculator desirable.

ET 249 Electrical Control Circuits

Electronic Data Processing

First Semester

The development and use of electronic digital computers in business and industry have created a need for many data processing technicians in the Permian Basin. The Electronic Data Processing Technology curriculum places special emphasis upon the processing of business and industry data and the use of machine and electronic equipment in finding solutions to business and industrial problems. Experiences on electronic data processing equipment will be supplemented with technical information and study designed to give the student an understanding of his civic responsibilities and the occupational skill necessary for today's society. The central purpose of the program, however, is to develop occupational competency. Students completing the two-year data processing program should be able to: (1) apply current programming techniques with a minimum of supervision; (2) understand and operate practically any data processing equipment after a brief orientation period; (3) properly document programming decisions and communicate in a satisfactory manner with other personnel concerned; and (4) direct their educational background and ability toward mastering new and special techniques as the need occurs.

Course of Study for Associate in Applied Science Degree Business Programming Option

First Year

Course	Sem. Hrs.	Course	Sem. Hrs.
OE 132	3	EDP 142	4
EDP 143	4	EDP 245	4
Engl 131 or OE 130	3	Engl 132 or Spch 234.	
Math 134 or 135b	3	Math 136b	3
Orien 111	1	PE*	1
PE*	1		
	Secon	d Year	
Third Semes	ter	Fourth Ser	nester
Course	Sem. Hrs.	Course	Sem. Hrs.
EDP 246	4	EDP 244	4
EDP 248	4	EDP 249	
BA 241a or OE 131	4 or 3	Approved Electives**	8
Govt	3		
BA 131b	3		

^{*}H.Ed. 131, or PE 132a may be substituted for the two 1-hour physical education courses.

Second Semester

^{**}Approved Electives: Any math not required, BA, Physics, Engr., Chem., or EDP except EDP 230. ET 144a, Eco. 230, Read 131, Mgt 131, Mgt. 233, Mgt 234, Mgt 238.

ELECTRONIC DATA PROCESSING

Course of Study for Associate in Applied Science Degree Scientific Programming Option

First Year

	1 1101		
First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
EDP 143	4	EDP 142	4
Engl 131	3	Engl 132 or Spch 234	3
Math 134	3	Math 132	3
Chem 131	3	Math 133	3
Chem 111	1	OE 132	3
Orient 111	1	PE*	1
PE*	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
EDP 246a	4	EDP 245	4
EDP 248	4	Govt	
Math 231	3	Math 135 or 237b	
Phys 141	4	Math 232	
•		Approved Elective**	4

^{*}H.Ed. 131 or PE 132a may be substituted for the two 1-hour physical education courses.

ELECTRONIC DATA PROCESSING

EDP 131 Keypunch, Verifier and Sorter

EDP 142 Computer Operations (3-3) 4 hours
This course covers the actual operation of a
computer that has a supervisor or operating
system. Necessary knowledge of job control
cards and interpretation of console registers
and messages to the console operator is
taught. Students learn to utilize standard sys-

tem routines and utility programs. During the course of the semester, the student spends a portion of his laboratory time operating a UNI-VAC 9480 computer system. Prerequisite: EDP 143.

EDP 143 Introduction to Computer

^{**}Approved Electives: Any math not required, BA, Physics, Engr., Chem., or EDP except EDP 230. ET 144a, Eco. 230, Read 131, Mgt 131, Mgt. 233, Mgt 234, Mgt 238.

ELECTRONIC DATA PROCESSING

EDP 230 Survey of Data Processing

EDP 232 PL/I Programming (3-2) 3 hours
The application of PI/I programming to both business and scientific problems is emphasized. The student is required to solve business and scientific problems utilizing the PL/I programming language. Prerequisite: EDP

EDP 244 RPG Programming (3-3) 4 hours
This course is designed to further the student's study of computers and computer applications. Practical business data processing problems are solved using the RPG programming language. The utilization of RPG in the small data processing shop as well as in the larger shops is studied. The role of RPG in the single-language shop as well as in multi-language shops is shown. Prerequisite: EDP 143, or approval of instructor.

EDP 245 COBOL Programming (3-3) 4 hours In addition to the rules for utilizing the COBOL language, emphasis is placed on the application of data processing to current business problems in accounting procedures. File organization and record formats are studied. The laboratory consists of utilizing the computer to solve business problems. Lab problems will be coded in COBOL. Prerequisite: EDP 143 or approval of instructor.

EDP 246 FORTRAN IV Programming

EDP 246a Scientific Programming

EDP 248 Assembler Language Programming

This is an advanced course designed to give the student a background in assembler language programming which will facilitate the mastering of any specific programming system with a minimum of further study. The course familiarizes the student with assembly language programming of the more popular digital computers currently in use. The language used in the laboratory for the course is the assembler language for the UNIVAC 9480 computer series. Prerequisite: EDP 143 or approval of instructor.

EDP 249 Business Systems Design and

Emergency Medical Technology

Odessa College offers a cooperative program with the local hospital and ambulance service designed to provide understanding, proficiency, and skill in emergency care and transportation of the sick and injured.

The curriculum is primarily designed for ambulance personnel, safety engineers, rescue squad workers, policemen, firemen, lifeguards, employees of public or private health agencies, and civil defense workers. Completion of the courses will qualify the individual to write the examination for Registry with the Texas Department of Health Resources, Texas Emergency Medical Services.

Objectives are to include all techniques of emergency medical care presently considered within the responsibilities of the Emergency Medical Technician, as well as the operational aspects of the job in which he is expected to perform. Specific contents of the courses are based on guidelines from the Texas State Department of Health, Division of Emergency Medical Services, and the National Highway Safety Bureau, U.S. Department of Transportation. The training includes both theoretical and practical applications of emergency care.

Enrollment in EMT 281 and EMT 282 is limited, and students are urged to apply early to insure acceptance to the program. Applicants or those seeking additional information should contact the Emergency Medical Technology director.

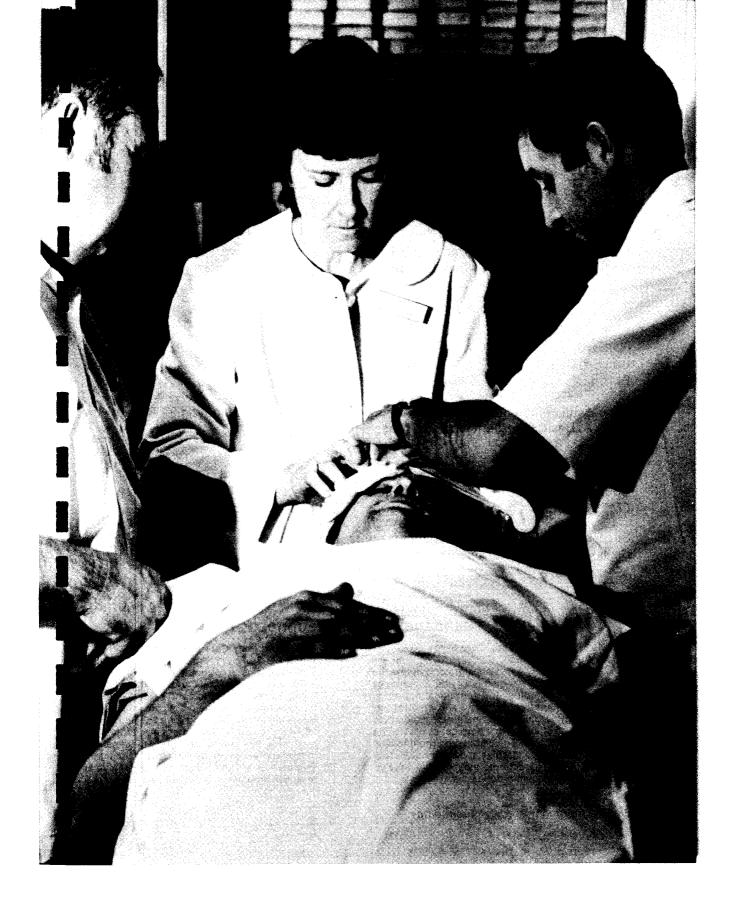
EMERGENCY MEDICAL TECHNOLOGY

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 111		EMT 131	
Biol 143	4	EMT 141	
Engl 131		Engl 132	
Govt	3	Fire 131e	
Math 131	3	PE	
Orientation 111			
PE			

Successful completion of 1st year will prepare the student to write the examination for Registry for Class A Basic Emergency Medical Technician.



EMERGENCY MEDICAL TECHNOLOGY

Second Year

	5555	.	
Third Semester		Fourth	Semester
Course AH 121t		Fire 237	Sem. Hrs
Successful completion of 2n Registry for Class A, Advance		are the student to wri	te the examination for
	Certificate	Program	
	Summer	Session	·
First Term		Secor	nd Term
Course EMT 131	Sem. Hrs. 3	Course EMT 141	Sem. Hrs 4
Successful completion will p Class A, Basic Emergency M			ination for Registry for
	First	Year	
First Semester		Second	I Semester
Course EMT 281	Sem. Hrs. 8		Sem. Hrs. 8
Successful completion will p Class A, Advanced Paramed		ent to write the exami	nation for Registry for
EME	RGENCY MEDI	CAL TECHNOLOGY	
emt 131 Basic Emergency Care of Injured (3-0)	ed to define the the Emergency tional approach and medical teres the student to ency care of the red include vital	This course is a comphasizes med emphasizes med emergencies, extribulance operation hours of in-hospita 20 hours spent in remaining 28 hour	care of the Sick or

in the recovery room, delivery room, and intensive care unit. The student must also make at

least five ambulance runs. Successful comple-

Emergency Medical Technology

juries. Prerequisite: none.

sign recognition, cardiac and pulmonary problems, wounds, fractures, and miscellaneous in-

EMERGENCY MEDICAL TECHNOLOGY

tion of this course will allow the student to write the examination for Registry for Class A, Basic Emergency Medical Technician (EMT). Prerequisite: EMT 131 and consent of instructor.

EMT 221 Emergency Medical Review

EMT 281 Advanced Emergency Care of

 techniques, pharmacology, and shock and fluid therapy. The practicum will include clinical experience in the emergency room, operating room, recovery room, intensive care unit, coronary care unit, and blood bank. In addition, the student must complete ambulance runs as required for certification. Prerequisite: Registered Class A-EMT and consent of instructor.

EMT 282 Advanced Emergency Care of

Engineering

The curriculum in Engineering has been designed for those students wishing to prepare for professional engineering degrees — mechanical, chemical, civil, and electrical. The student should be aware of specific requirements of the college or university to which he may ultimately plan to transfer. The program below is a suggested one and may be modified to conform to requirements of the student's chosen transfer institution.

Course of Study for Certificate of Completion in Engineering

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Chem 131 and 111	4	Chem 132 and 112	4
Engl 131	3	Engl 132	3
Engr 131	3	Engr 133 or EDP 246A	4 3 or 4
Math 133	3	Math 232	3
Math 231	3	PE	1
Orientation 111	1	Phys 143	4
PE	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl (Sophomore Level) or		Engl (Sophomore Level) or	
Govt 231*	3	Govt 232*	3
Engr 233	3	Engr 234	3
Hist 231	3	Hist 232	3
Math 234	3	Math 235	3
PE	1	PE	1
Phys 241	4	Phys 242	4

Note: Chemical Engineering majors will take Chemistry 231, 211 and 232, 212 in lieu of sophomore English during their second year.

^{*}Six hours of Government and 12 hours of English are required for the Associate in Science Degree.

ENGINEERING TECHNOLOGY

The Engineering Technology program is designed to prepare a person to work as an assistant to an engineer. Emphasis is placed on courses basic to a professional degree; primarily mathematics, engineering, physics, and electronic data processing. The courses incorporated in the program afford the graduate flexibility in the selection of engineering fields.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	
Engr 131	3	Engr 133	
Math 132*	3	Math 133*	
Math 134*	3	Math 231	
Orient 111	1	PE**	
PE*	1	Phys 141	

Second Year

Inira Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engr 233	3	DT 246	4
DT 242a	4	EDP 246a	4
Govt	3	Engr 234	
Math 232	3	Math 235	
Phys 143	4	Phys 241	

^{*}Math 136 and Math 137 may be taken in place of Math 132, 134, and 133.

^{**}HE 131 or PE 132a may be substituted for the two 1-hour physical education courses.

ENGINEERING

Engr 131 Engineering Drawing (2-4) 3 hours
The care and use of drawing instruments, free-hand lettering, geometric construction, general drafting principles, multiview projection, revolutions, auxiliary view, and sections are studied. Included also are isometric and cabinet projection, threads, bolts, rivets, helices, dimensioning, principles of working drawings, pattern development, and oblique drawing. Prerequisite: None.

Engr 133 Descriptive Geometry (2-4) 3 hours
A study is made of the principles of descriptive
geometry, auxiliary views, developments, intersections, double-curved, and warped surfaces, and point, line, and plane problems, and
their applications to problems of engineering
and architecture. Prerequisite: Engr 131.



Fire Protection

Fire Technology is designed to assist in the development of meaningful educational experiences for pre-service and in-service firemen. Emphasis is placed on practical application in understanding building designs, classification of fires, exposure protection, toxic fumes, arson investigation, hazards, fire fighting techniques and standards. Fire Administration is surveyed with special interest in recruiting, organization, budget, legal aspects, employee effectiveness, evaluation, and related problems. The program is planned to develop specific abilities and knowledge for entry employment and to provide the necessary educational background for advancing into a highly responsible position in the profession.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Chem 131 and 111	4	Chem 132 and 112	4
Engl 131	3	Fire 133	3
Fire 131		Fire 134	3
Fire 132	3	Fire 135	3
Math 131, 131T or More	Advanced3	PE	1
Orientation 111	1	Spch 234	3
PE	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 233	3	Fire 234	
Fire 231	3	Fire 245	
Fire 232	3	Fire 236	
Fire 233	3	Elective (Fire Prote	ection or EMT) 3
Govt 231	3	Elective	
Elective (Fire Protection	or EMT) 3	Elective	

FIRE PROTECTION TECHNOLOGY

Fire 131 Fundamentals of Fire Protection

of expanding future fire protection problems. Prerequisite: None.

Fire 131e* Fire Safety Education

A survey of physical, chemical, and electrical hazards and their relationship to loss of property and/or life. Study of codes, laws, problems, and cases. Detailed examination and study of the physical and psychological variables re-

FIRE PROTECTION TECHNOLOGY

lated to the occurrence of casualties. Safe storage, transportation and handling techniques are stressed to eliminate or control potential risks. Prerequisite: None.

Fire 132 Industrial Fire Protection I

(3-0) 3 hours Specific concerns and safeguards related to business and industrial organizations. A study of industrial fire brigade organization and development, plant lay-out, fire prevention programs, extinguishing factors and techniques, hazardous situations and prevention methods. Gaining cooperation between the public and private fire department organization. Study of elementary industrial fire hazards in manufacturing plants. Prerequisite: None.

Fire 132e* Fire Service Communications

The development of fire alarm systems, the various types of systems, installation, operation and testing of the most common systems; receiving, dispatching, and radio communication procedures; F.C.C. regulations, the fire alarm operations office, mutual aid systems, fire station communications and facilities, response and fire ground procedures, emergency operations, code and numbering systems, required records and reports; technological advances. Prerequisite: None.

Fire 133 Industrial Fire Protection II

Development of fire and safety organizations in industry; relation between private and public fire protection organizations; current trends, deficiencies and possible solutions for industrial fire problems; role of insurance and other special organizations; and in-depth study of specific industrial processes, equipment, facilities and work practices to understand the potential hazards and techniques to detect and control such hazards. Field trips to selected plants and demonstrations of new techniques equipment and innovations. Prerequisite: None.

Fire 133e* Urban Fire Problem Analysis

Intensive study of the urban fire problem. Problems covered by lack of zoning and other land use laws. Operation research techniques, and systems engineering are utilized as analytic procedures for the technological assessment of public fire protection, including water supply, fire alarm, and fire department traditional assessment methods and urban analysis.

Socio-economic and management factors as related to city planning. Environment problems incurred should be studied in-depth. Prerequisite: None.

Fire 134 Fire Protection Systems (3-0) ... 3 hours Study of the required standard for water supply; special hazards protection systems; automatic sprinklers and special extinguishing systems; automatic signaling and detection systems; rating organizations and underwriting agencies. Prerequisite: None.

Fire 135 Fire Prevention (3-0) 3 hours The objectives and views of inspections, fundamental principles, methods, techniques, and procedures of fire prevention administration. Fire Prevention organization; public cooperation and image; recognition of fire hazards; insurance problems and legal aspects; development and implementation of a systematic and deliberate inspection program; survey of local, state, and national codes pertaining to fire prevention and related technology; relationship between building inspection agencies and fire prevention organizations. Engineering as a solution to fire hazards. Prerequisite: None.

Fire 136e* Fire Hydraulics and Equipment

(3-0) 3 hours Application of the laws of mathematics and physics to properties of fluid states, force, pressure and flow velocities. Emphasis in applying principles of hydraulics to fire fighting problems. Evaluation of water supply, flow requirements of standpipes, sprinklers and appliances, and methods of determining available quantities of water for fire protection purposes. Prerequisite: None.

Fire 231 Fire and Arson Investigation

(3-0) 3 hours A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence; preparing for a court case; selected discussion of laws, decisions and opinions; kinds of arsonists, interrogation procedures, cooperation and coordination between fire fighters and arson investigators and other related topics. Prerequisite: None.

Fire 231e* Advanced Fire Loss Statistical

Systems (3-0) 3 hours An in-depth study of computerized systems that may be utilized for storing and retrieval of fire loss statistics, also techniques and proce-

*Courses with an "E" suffix are approved electives.

FIRE PROTECTION TECHNOLOGY

dures for programming various types of records and reports valuable to the fire service. Exploration of the new systems of microfilming including the modern technology of COM (Computer Output Microfilm) and the systems utilizing microfiche, including reduction ratios and various type readers. A review of standards for the uniform coding for fire protection as developed by the NFPA in pamphlet 901 and 901AM. Prerequisite: None.

Fire 232 Building Codes and Construction

Fire 232e* Fire Insurance Fundamentals

- Fire 233 Fire Administration I (3-0) 3 hours
 An in-depth study of the organization and management as related to a fire department including budgeting, maintenance of records and reports, and management of fire department officers. Personnel administration and distribution of equipment and personnel and other related topics, including relation of various government agencies to fire protection areas. Fire Service Leadership as viewed from the Company officer's position. Prerequisite: None.
- Fire 234 Fire Administration II (3-0) 3 hours
 Study to include insurance rates and ratings, preparation of budgets, administration and organization of training in the fire department; city water requirement, fire alarm and communications systems; importance of public relations, report writing and record keeping; measurements of results, use of records to improve procedures, and other related topics; legal aspects relating to fire prevention and fire

protection with stress on municipal and state agencies; design and construction of fire department buildings. Prerequisite: None.

Fire 236 Hazardous Materials I (3-0) 3 hours
Study of chemical characteristics and behavior
of various materials that burn or react violently
related to storage, transportation, handling
hazardous materials, i.e., flammable liquids,
combustible solids, and gases. Emphasis on
emergency situations and most favorable
methods of handling fire fighting and control.
Prerequisite: None.

Fire 236e* Legal Aspects of Fire Protection

Fire 237e* Hazardous Materials II

Fire 245 Fire Fighting Tactics and

*Courses with an "e" suffix are approved electives.

Geology, Anthropology, Astronomy, Geography, and Earth Science

GEOLOGY

Geology is a study of the earth, its history, its materials, its changing life, and the processes that have brought it to its present form. For the student who does not wish more than a year of geology, the principal value will be primarily in an increased interest in and understanding of his environment. However, those majoring in geology, mining, petroleum or civil engineering, ecological studies or some closely related subject will profit from the further study of geology. An important function of this department is to train students for work in the petroleum industry. Geology 141, 142 will serve as a required physical science at most senior colleges.

Course of Study for Associate in Science Degree in Geology

First Year

First Semester

Course	Sem. Hrs.	Second Semester	•
Chem 131 and 111	4	Course	Sem. Hrs.
Engl 131	3	Chem 132 and 112	4
Geol 141	4	Engl 132	3
Hist 231	3	Geol 142	4
Math 134 or Math 136	3	Hist 232	3
Orientation 111	1	Math 132 or Math 137	3
PE	1	PE	1

Second Year

inira Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Anth 231	3	Engl (Sophomore Level)	3
Engl (Sophomore Level)	3	Geol 230	3
Govt 231	3	Govt 232	3
Lang 141	4	Lang 142	4
		Math 231 or Anth 232	
PE	1	PE	1

GEOLOGY, ANTHROPOLOGY, ASTRONOMY, GEOGRAPHY, AND EARTH SCIENCE

Geol 141 Physical Geology (3-3)4 hours
This course involves study of geologic features
and processes of the earth. It is a foundation
course for all additional work in geology and a
general course for cultural development. Prerequisite: None.

Geol 142 Historical Geology (3-3)......4 hours
The geologic history of the earth is given em-

phasis in this course. It provides basic knowledge required for additional study in geology or for cultural development. Prerequisite: Geol 141 or permission of instructor.

Geology 230 Geomorphology (3-0) 3 hours
Geologic interpretation of the origin, development, and classification of land forms. Prerequisite: Geol 141 or permission of instructor.

ANTHROPOLOGY

Anthropology is a comprehensive study of man and his works. Within it are included human origin and development, variation in physical types, and aspects of human culture such as family patterns and customs, economics, religions, languages, and handicrafts and technology. Anthropology 231 and 232 will fulfill social science requirements at many colleges.

Anth 231 Physical Anthropology (3-0)....3 hours
This course is an introduction to the study of
the physical characteristics of man. Comparisons are made between modern man, fossil
man, and the higher primates. Physical characteristics of modern races are also studied. Prerequisite: None.

Anth 232 Cultural Anthropology (3-0) 3 hours
The study of human culture is presented in
historical perspective by examining the development of culture as well as by comparing
present cultures. Prerequisite: None.

ASTRONOMY

Astronomy is primarily intended for the non-science major, either to satisfy a science requirement (along with Physical Science 142), or as an elective for the interested student. As men begin to live and work in space, a knowledge of basic astronomy is necessary for an aware individual. Astronomy, however, is a profitable field for the science major as well, since some of the most fascinating experiments in physics, chemistry, geology, and even biology, can take place only between the stars.

Astr 141 Descriptive Astronomy

Astr 132 Descriptive Astronomy II

GEOLOGY, ANTHROPOLOGY, ASTRONOMY, GEOGRAPHY, AND EARTH SCIENCE

GEOGRAPHY

Courses in geography are designed to acquaint the student with the world and its peoples. Major aspects of both physical and cultural geography are studied in an integrated manner in order to provide a greater understanding of world conditions. Geography 231 and 232 will fulfill social science requirements at many colleges.

Geog 231 Principles of Geography

Geog 232 Principles of Geography

EARTH SCIENCE

Earth Science is an integrated science courses intended for the non-technical major. The material covered includes earth processes such as mountain building, erosion, and sedimentation; the nature and composition of the earth with its atmosphere and the relationship of the earth to the solar system and galaxy. Principles of physics and chemistry are included where appropriate.

Ea Sc 141 Nature of the Earth and

Ea Sc 142 Nature of the Earth and



Home Economics

A multi-career opportunity in education, industry, recreation, and related fields is available to a person with training in home economics. Both men and women are finding challenging positions in this field. There will always be a demand for home economists in teaching, business, extension service, dietetics, social welfare, public health, journalism, TV, radio, fashion fields, and research.

Courses are designed so that students can achieve understanding of concepts and attain skills essential for present day life as an individual and as a member of the family and community.

Course of Study for Associate in Applied Science Degree

First Year

First Sen	nester	Second	Semester
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141	4	Biol 142	4
Engl 131	3	Engl 132	
H Ec 130	3	H Ec 132	
H Ec 131	3	H Ec 133	
Hist 231	3	Hist 232	
Orientation 111		PE	
PE	1		

Second Year

Third Semester	Fourth Semester	
Course Sem. Hrs.	Course Sem. Hrs.	
CD 141 4	Engl (Sophomore Level)	
Engl (Sophomore Level) 3	Govt 232 3	
Govt 231 3	H Ec 235 3	
H Ec 233 3	H Ec 231 or CD 2333	
Science, Math or Lang 3-4	Science, Math, or Lang 3-4	
PE 1	PE	

Most Child Development courses transfer as approved electives at most Universities offering degrees in Home Economics.

HOME ECONOMICS

H Ec 130 Consumer Problems in Clothing

H Ec 131 Nutrition in Diet and

H Ec 132 Food Selection and

H Ec 133 Clothing Construction (2-3)3 hours
A basic class in clothing construction where
the student can learn basic sewing skills or
improve present construction skills by learning
new techniques and methods. Lab will include
projects so that the student can individualize
commercial patterns, and make suitable fabric
selections. Prerequisite: None.

H Ec 231 Design Applied to Clothing

H Ec 233 Personal and Family Management

This course includes a study of the basic principles of managing resources. Activities include problems in management of time and money, providing for protection through investments, banking, Social Security, insurance, etc. Also included is a study of elementary problems such as wills, estate planning, contracts, and consumer credit which families or individuals may encounter. Prerequisite: None.

Industrial Instrumentation

Automatic control systems and industrial instrumentation are becoming increasingly important to industrial growth in the Permian Basin area. The operation and maintenance of this equipment in modern industrial installations requires persons that have highly developed skills in installing, operating, and maintaining complicated control systems and instruments.

The program in Industrial Instrumentation is designed to provide the student with the skills and the knowledge required for employment as a maintenance and operation technician, instrument shop supervisor, or technical representative for a manufacturing concern.

Course Of Study For Associate In Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Spch 234	
ET 141	4	ET 142	4
II 131	3	II 132	
II 133	3	II 134	
Math 131 or More Advance	ed3	Math 134 or More A	dvanced3
Orientation 111	1	PE*	
PE*	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
ET 144a	4	ET 146a	
II 231	3	II 232	
II 233	3	II 234	
Govt	3	DT 141	4
Phys 141	4		

*H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing 24 semester hours in Industrial Instrumentation courses and ET-144a. For advanced standing credit contact the department chairman.

INDUSTRIAL INSTRUMENTATION

II 131 Basic Pneumatic Instrumentation

II 132 Advanced Pneumatic

II 133 Elementary Principles &

II 134 Basic Instrument Engineering

 tion is really about. Prior knowledge of pneumatic and electronic control equipment is desirable. Prerequisite: None, although prior knowledge of pneumatic control equipment is desirable.

Il 231 Basic Electronic

II 232 Advanced Electronic

II 233 Process Analytical

Law Enforcement

Law enforcement is EVERYBODY'S BUSINESS. It is a rewarding and honorable profession, essential to the well-being and security of our nation. Those choosing law enforcement for a career have the knowlege that they are contributing a major service to the millions of Americans who look to the law enforcement officer for protection of their lives and property.

The course of study is designed for those who are seeking entry into law enforcement profession, those already in some aspect of the criminal justice system who are broadening their understanding of this vast field, and the interested citizen who realizes that law enforcement is part of the real world in which he must live every day.

Courses in law enforcement are recommended for everyone, regardless of his career choice, as a means of viewing crime and the criminal through the eyes of the law enforcement officer. The student mixture of novices, experienced professionals, and concerned citizens provide a fascinating learning situation.

The four semester curriculum leads to an Associate in Applied Science degree or to an Associate in Arts degree. Those wishing to continue to a higher degree should consult with the senior institution of their choice and the Director of Law Enforcement at Odessa College.

Courses of Study for Associate in Applied Science Degree

First Year

First Semest	ter	
Course	Sem. Hrs.	Second Semester
Engl 131	3	Engl 132 3
LE 131	3	LE 132* 3
LE 134	3	LE 133
Orientation 111	1	PE 132a 3
Psy 231	3	Soc 231
Spch 234	3	Approved Elective3

Second Year

Third Semester	Fourth Semester	
Govt 231 3		
	Govt 232 3	
LE 234	Hist 232	
LE 235	LE 231	
LE 239* 3	LE 232	
	Le 233*3	
	PF 111n or 111p1	

^{*}Alternate Elective Law Enforcement Subjects may be substituted.
Approved Electives: OE 121, Chem 130 and 110; Mgt 131; Read 131; Span 131.
Other electives or substitutions with prior approval of the Director of Law Enforcement.

LAW ENFORCEMENT

Course of Study for Associate in Arts Degree in Law Enforcement

Course	Sem. Hrs.	Course	Sem. Hrs.
English	12	Government	6
Law Enforcement	21	History	6
(Seven core curriculu	m in LE including	Science and/or Foreig	ın
all listed in LE subjects	without asterisk).	Language	8-12
•		Humanities or other e	lectives 8-15

All of the seven LE core curriculum subjects are transferable and applicable toward any LE degree offered in Texas by agreement of Texas accreditation agencies. All students who plan to go to other institutions for further degrees should contact that institution to assure transferability of all course and credit toward degree plan.

Any variance from prerequisites or suggested course of study must have the prior approval of the Departmental Chairman.

*Texas Accreditation Agencies have approved the following alternate elective Law Enforcement subjects, in addition to the required 21 semester hours Core Curriculum, for students seeking an Associate Degree which requires 30 semester hours in the professional field:

Course Sem. Hrs.
LE 132, Patrol Administration 3
LE 233, Juvenile Procedures 3
LE 233a, Probation and Parole 3
LE 233b, Penology 3
LE 239, Traffic Management
and Supervision 3
LE 239a, Traffic Law
LE 233a, LE 233b, and LE 239a may be
substituted for LE 132, LE 233 or LE 239
only on prior approval of the Departmen-
tal Chairman when there is a demon-
strated need and justification for such
substitution.

LAW ENFORCEMENT

LE 131 Introduction to Law

LE 132* Patrol Administration (3-0)3 hours
An overview of the administration, scope and
inner workings of the "Cutting Edge" of the
Criminal Justice System, the Police Patrol, delineating the interrelationship of the first line
supervisor and the man in the car, the breadth
of responsibilities and the significance of the
operation. Prerequisite: None.

LE 133 Legal Aspects of Law

LE 134 Police Role in Crime and

- LE 231 Criminal Investigation (3-0) 3 hours
 The fundamentals of investigative techniques;
 recording and identifying investigative notes
 and evidentiary matter; informants, interview
 and interrogation; follow up procedures and
 preparation and participation in trial. Prerequisite: LE 235.
- LE 232 Police Administration (3-0) 3 hours

 Principles of organization and management as applied to the peculiar problems of the law enforcement agency; delineation of the problems and functions of the administrator and the vital importance of understanding and cooperation by all participants to reach established goals; each phase explored from the administrative viewpoint: Prerequisite: LE 235.
- LE 233* Juvenile Procedures (3-0) 3 hours
 This course provides an in-depth study of the history, background, and philosophy of court

procedures for the handling of juveniles as separate and distinct from adult procedures. The Juvenile Court Act is discussed as generally applied throughout the United States and as it is applied under the laws of the State of Texas. General problems in the handling of juveniles are considered to provide the officer with a working knowledge of the proper methods to be used in the arrest, detention, interview and processing, to assure compliance with current court decisions. Prerequisite: None.

LE 233a* Probation and Parole (3-0) 3 hours
This course introduces the student to the many faceted subject of criminal corrections. He will study the history and background of the entire field including the evolution through the years to the present philosophy and practice in this area. He will learn the extreme importance of these functions in the attempt to successfully rehabilitate the criminal and the problems and progress under current conditions. Prerequisite: None.

LE 233b* Penology (Jail Operation and

LE 234 Police — Community Relations

LE 235 Criminal Procedure and

LAW ENFORCEMENT

practices in assuring admissibility with special reference to the Texas State Code of Criminal Procedure and current court interpretations governing searches and seizures and the exclusinary rule. Prerequisite: LE 133.

LE 239*Traffic Management and

 lems, motor vehicle laws, and accident investigation techniques. Prerequisite: None.

LE 239a* Traffic Law (3-0) 3 hours

This course involves a detailed study of the basic principles of traffic control, traffic law enforcement and traffic court procedures in the context of the Texas traffic laws. An indepth study of the history and background of the traffic law, problems in interpretation and application and accepted procedures in enforcement. Prerequisite: None.



Literature and Languages

ENGLISH

The power to communicate meaning through language in order to build a store of knowledge which is passed on to succeeding generations is one of the most distinctive of human accomplishments. Science, literature, technical knowledge and social organization would not exist without language, for language is used for making explanations, analyzing situations, or discussing the relative merits of one procedure or another. To be successful, language activities demand precision and forcefulness. Consequently, the student must learn to express himself clearly and effectively. While learning to communicate, he should be exposed to the world's rich heritage of creative literature in order to develop a better understanding of a unified human spirit which transcends geography. This study of the great thoughts of the past should engender a generosity of mind and a magnanimity of spirit which are the foundations of democracy itself and the hope of human progress.

Course of Study for Associate in Arts Degree in English

First Year

First Sen	nester	Second	Semester
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	
Hist 231	3	Hist 232	
Lang 141	4	Lang 142	
Orientation 111	1	PE	
PE	1	Science	
Science	4	Elective	
Elective	3		

Second Year

Third Semes	ster	Fourth Sei	mester
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 235	3	Engl 236	
Govt 231	3	Govt 232	3
Lang 231	3	Lang 232	3
Math 134 or 237*	3	Math 132 or 238*	3
PE	1	PE	1
Elective	3	Elective	3

^{*}Desirable to have Math 134 and Math 132 or Math 237 and Math 238.

LITERATURE AND LANGUAGES

Engl	130 Basic English (3-0) 3	hours
_	This compensatory course is designed	to im-
	prove the student's basic English skill	ls. Em-
	phasis is placed on usage, spelling, pu	ınctua-
	tion, vocabulary, sentence structure	e, and
	paragraph development. This course pr	epares
	the student for English 131. Prerequisite	: None.

Engl 131 Composition and Rhetoric

Engl 132 Composition and Literature

Engl 231 Masterpieces of the Western World

Engl 232 Masterpieces of the Western World

Significant works from the beginning of the Neo-classical period to the present time are studied. A research paper or several short critiques are required. Prerequisite: Engl. 132.

Engl 233 Technical Writing (3-0) 3 hours This course, to prepare the student for technical report writing, offers practical experience in the organization of the report and in the proper use of technical terms. Prerequisite: Engl 132.

Engl 235 English Literature: From the Beginning through Neoclassic Period (3-0) 3 hours This course consists of a chronological study of authors, works, and trends in English Literature and is required of all English majors. Prerequisite: Engl 132.

requisite: Engl 132.

This course treats briefly of colonial writers and writings in order to center attention on major literary figures of the first half of the nineteenth century. Both narrative and expository prose are studied, along with poetry and drama. Prerequisite: English 132.

This course surveys great literary movements from the Civil War to the present. Collateral readings supplement selections in the anthology. Prerequisite: English 132.

LITERATURE AND LANGUAGES

FOREIGN LANGUAGES

The foreign language program at Odessa College can satisfy the needs of most students whose prospective major includes a foreign language. Students should consult carefully the catalog of the senior college they plan to attend.

In the classroom, concentration is on the immediate and practical. The courses consist of the vocabulary and drills most needed for communication, with ample opportunity for students to practice speaking the language. With the aid of well-equipped labs and teachers well qualified to teach the spoken language, students are expected to be able to speak, read, and write the language by the time they have completed their second

LITERATURE AND LANGUAGES

year of study. From the first day, class is carried on primarily in the language being studied.

Many students major in the language and teach it. Others use it in law, business, sales, foreign service, travel for professional reasons or for pleasure, politics, social work, elementary education, and sociability. For still other students, their language skill becomes a springboard to more alert citizenship through increased understanding of and interest in the world at large.

Course of Study for Associate in Arts Degree

First Year

First Sem	ester	Second Se	mester
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	
Hist 231	3	Hist 232	
Lang 141	4	Lang 142	4
Lang 141 (2nd)	4	Lang 142 (2nd)	4
Orientation 111	1	PE	
PE	1	Science	4
Science	4		
	Canana	I V	

Second Year

Third Semeste	r	Fourth Seme	ester
Course	Sem. Hrs.	Course	Sem. Hrs.
Engi (Sophomore Level)	3	Engl (Sophomore Level)	3
Govt 231	3	Govt 232	3
Lang*	3-5	Lang*	3-5
Math 134 or 237*	3	Math 132 or 238*	3
PE	1	PE	1
Elective	3	Elective	3

^{*}Span 221, 222, in addition to Span 231 and 232, is suggested for Spanish majors.

Students who have some knowledge of a language are advised to consider the advanced standing examination program for credit by examination.

LITERATURE AND LANGUAGES FOREIGN LANGUAGES

- Fr 141 First Year French I (3-2) 4 hours
 This is the basic course, conducted in French,
 for those with no previous experience in
 French. It emphasizes simple conversation:
 pronunciation, fluency, and vocabulary. Basic
 grammar is also presented, and tapes are used
 in the lab for individual practice. Individual help
 is available as needed. Prerequisite: None.
- Fr 142 First Year French II (3-2) 4 hours
 This course is a continuation of Fr 141. Purposes and techniques are the same. Prerequisite: Fr 141.
- Fr 231 Second Year French I (3-0) 3 hours Conducted in French, this sequence is a continuation of French 141 and 142. It emphasizes

LITERATURE AND LANGUAGES

conversation based on reading assignments and includes grammar and composition. Individual help is available as needed. Prerequisite: Fr 142 or equivalent.

- Fr 232 Second Year French II (3-0) 3 hours
 This course is a continuation of Fr 231. Purposes and techniques are the same. Prerequisite: Fr 231 or equivalent.
- Germ 141 First Year German I (3-2) 4 hours

 This is a basic course, conducted in German, for those students who have no previous experience in the German language. It emphasizes simple conversation: pronunciation, fluency, vocabulary. Basic grammar is also presented, and tapes are used in the lab for individual practice. Individual help is available as needed. Prerequisite: None.
- Germ 142 First Year German II (3-2) 4 hours
 This course is a continuation of Germ 141. Purposes and techniques are the same. Prerequisite: Germ 141 or equivalent.

142 or equivalent.

- Span 131 Conversational Spanish I (3-0) 3 hours It is the primary purpose of this course to give the student an opportunity to develop an accurate oral use of the language, based on a sound understanding of structure. Idiomatic expressions, such as are used in daily speech, and conversation in the language will be stressed. Reading will be incidental to the oral objective. Prerequisite: None.
- Span 132 Conversational Spanish II (3-0) 3 hours
 This course is a continuation of Span 131. Prerequisite: Span 131 or equivalent.
- Span 141 First Year Spanish I (3-2) 4 hours Conducted in Spanish, this is a basic course for those who have no previous experience in

Spanish. It emphasizes simple conversation: pronunciation, fluency, vocabulary. Basic grammar is also presented, and tapes are used in the laboratory for individual practice individual help is available as needed. Many elements of the course are self-paced. Prerequisite: None.

- Span 142 First Year Spanish II (3-2) 4 hours
 This course is a continuation of Span 141. Prerequisite: Span 141 or equivalent.

- Span 231 Second Year Spanish I (3-0)...3 hours
 Conducted in Spanish, this sequence is a continuation of Spanish 141 and 142. It emphasizes conversation based on reading assignments, and it includes grammar and composition.
 Many elements of the course are self-paced. Prerequisite: Spanish 142 or equivalent.
- Span 234 Spanish Literature I (3-0) 3 hours
 This course is a study of modern Latin American society as seen through contemporary anthropological studies and through fiction.
 Conducted in Spanish, it consists of conversation based on the reading and includes a grammar review of the first two years. Prerequisite: Span 232 or equivalent, or permission of the instructor.
- Span 235 Spanish Literature II (3-0) 3 hours
 This course is a continuation of Spanish 234.
 Prerequisite: Span 234 or equivalent, or permission of the instructor.

Machine Shop

The Machine Technology program is designed to give the student a broad background of basic knowledge in the field of mechanical design and production. Skills are developed in the operation of machine tools, in layout, and in blueprint reading so as to provide the student with sufficient knowledge for entry employment in the trade. Students completing the associate degree program will have a sufficient background in mathematics, communications, management, and drafting necessary for advancement into managerial positions.

Course of Study for Associate in Applied Science Degree First Year

First Semester Second Semester Course Sem. Hrs. Course Sem. Hrs. DT 140 or DT 141 4 Math 131 or 131t 3 MT 161 6 MT 163 6 MT 162 6 Mt 164 6 Orientation 111 1 PE* 1

Second Year

Third Sem	ester	Fourth Semester					
Course	Sem. Hrs.	Course	Sem. Hrs.				
Engl 131	3	Engl 132 or Spch 234	3				
Mgt 131	3	Govt	3				
MT 261	6	MT 263	6				
MT 262	6	MT 264	6				

*H Ed 131 or PE 132a may be substitued for the two 1-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of forty-eight hours in MT courses.

MACHINE SHOP

Machine Shop

MACHINE SHOP

shop safety continues to be stressed. Students learn to grind and sharpen single points and multitooth cutting tools. Corequisite or prerequisite: MT 161.

MT 163 Machines and Their Operations —

MT 164 Machines and Their Operations —

MT 261 Advanced Machine Tool Operations —

 planning and estimating procedures. Emphasis is placed on the quality of the finished product. Prerequisite: MT 164.

MT 262 Advanced Machine Tool Operations -

MT 263 Metallurgy for

MT 264 Industrial Machine Shop Practice



Mathematics

The Department of Mathematics is guided by the following objectives: (1) preprofessional training for mathematicians and teachers of mathematics, (2) preparation of students for further study of science, engineering, industry and business, (3) adequate mathematical training for students in occupational-technical programs, (4) mathematical offerings suitable for the student seeking a well-balanced liberal education, and (5) provision for students seeking to remove deficiencies or desiring to refresh their knowledge from previous training. Students are responsible for checking the catalog of the senior college to which they plan to transfer to determine which of these courses are compatible with the senior college degree plan.

Course of Study for Associate in Science Degree

First Year

First Semester		Second S	emester
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	
Hist 231	3	Hist 232	
Lang 141	4	Lang 142	4
Math 133	3	Math 232	
Math 231	3	PE	1
Orientation 111		Phys 143	4
PE	1	•	

Second Year

Third Semeste	er	Fourth Semest	er
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl (Sophomore Level)	3	Engl (Sophomore Level) .	3
Govt 231	3	Govt 232	3
Lang 231	3	Lang 232	3
Math 234	3	Math 235	3
PE	1	PE	1
Phys 241	4	Phys 242	4

^{*}Students not prepared for Calculus I will need to start with Math 136 or earlier math course.

MATHEMATICS

- Math 130 Basic Mathematics (3-0).......3 hours
 This course is a study of the four fundamental operations of addition, subtraction, multiplication, and division of whole numbers, decimal fractions, regular fractions, and signed numbers. Additional topics to include percentages and geometric measurements. This course prepares the student for Math 131. Prerequisite: None.
- Math 131 General Mathematics (3-0) 3 hours
 This course provides a brief review of arithmetic and a study of elementary algebra with applications. Prerequisite: Math 130 or equivalent.
- Math 131t Technical Mathematics I (3-0). 3 hours

 This course is a study of fundamentals from arithmetic, measurement, approximate numbers, plane geometry, elementary algebra, linear equations, graphs, and right angle trigonometry. Emphasis will be placed upon technical problems. Prerequisite: None.
- Math 132 Plane Trigonometry (3-0) 3 hours
 This course is a study of trigonometric functions, formulas, applications of variations of functions with changes in angles, trigonometric equations, identities, solutions of right and oblique triangles, inverse functions and complex numbers. Prerequisite or corequisite: Math 134 or equivalent competency.
- Math 133 Analytic Geometry (3-0) 3 hours

 This course is a study of fundamental concepts, straight line, circle, conics, simplification of equations, algebraic curves, transcendental curves, polar coordinates, parametric equations, curve fitting, space coordinates, surfaces, vectors, planes and lines. Prerequisite: Math 134 and prerequisite or corequisite, Math 132, or equivalent competency.

Math 134t Technical Mathematics II

Math 135 Mathematical Statistics

MATHEMATICS

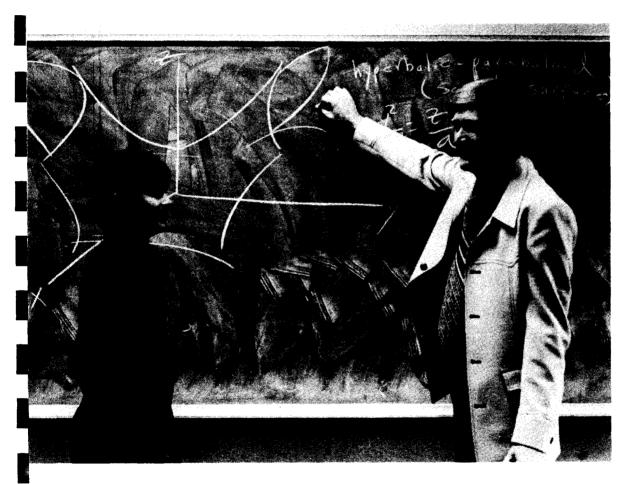
solution of a wider range of problems including moments of inertia. Prerequisite: Math 231.

Math 235 Differential Equations (3-0) 3 hours

This course is a study of orthogonal trajectories, hyperbolic functions, linear differential equations, non-homogeneous equations, differential operators, the Laplace Transform, inverse transforms, applications, systems of equations, equations of order one and higher degree, and special equations of order two. Prerequisite: Math 232.

Math 237 Fundamentals of Mathematics I

Math 238 Fundamentals of Mathematics II



Medical Laboratory Technology

Medical Laboratory Technology is a special program of combined academic and clinical training which, during a 22-month period, prepares the student for entry skills in medical laboratory techniques; completes the prerequisites for writing the national registry examination in the category, Medical Laboratory Technician; and leads to an Associate of Applied Science Degree. The laboratory practicum is under the full-time supervision of a qualified educational coordinator at an affiliated clinical laboratory, and the entire program is directed by a pathologist certified by the American Society of Clinical Pathologists and the College of American Pathologists.

Because practicum space is limited, students will be admitted on a selected basis. To be admitted to the program, the student must be a high school graduate or equivalent; achieve a satisfactory score on selected college entrance examinations; show evidence of good physical and mental health; and have the approval of the Medical Laboratory Admissions Council. All applications for admission in the Fall semester must be dated not later than June 15.

The student must maintain a "C" average or better for all courses taken and must attain no grade lower than "C" in any Allied Health Course. Students failing to meet these scholastic requirements will be dropped from the course.

Students wishing to apply for admission or seeking additional information should contact the Chairman, Medical Laboratory Technology Department, Odessa College, P.O. Box 3752, Odessa, Texas 79760.

Course of Study for Associate in Applied Science Degree

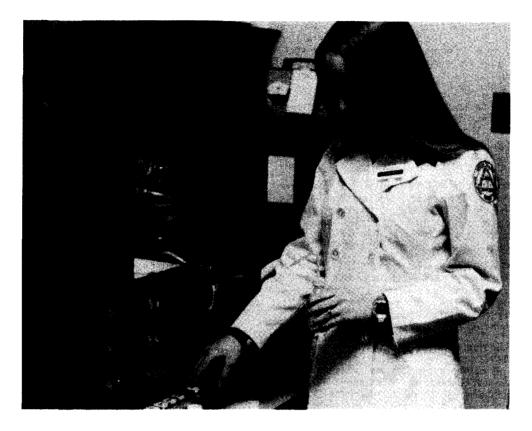
First Year

First Semeste	r	Second Sem	nester
Course	Sem. Hrs.	Course	Sem. Hrs.
AH 144M	4	AH 146M	4
AH 163M	6	AH 165M	6
Chem 131 and 111	4	Chem 132 and 112	4
Engl 131	3	Engl 132	3
Orientation 111	1	PE*	1

Summer Session (First Term)

AH 131M												3	
Govt/Hist													

MEDICAL LABORATORY TECHNOLOGY



Second Year

Third Se	emester	Fourth Semester						
Course	Sem. Hrs.	Course	Sem. Hrs.					
AH 244 M	4	AH 246M						
AH 263M	6	AH 265M	6					
Biol 141	4	Biol 142	4					
PF*	1							

Summer Session (First Term)

AH 132M		. 3
Math 131	or More Advanced	3

*H Ed 131 or PE 132a may be substituted for the two 1-hour PE courses.

MEDICAL LABORATORY TECHNOLOGY

AH	131M Clinical Practicum (0-20) 3 hours
	The twenty hours of clinical practicum will be
	spent at an affiliated clinical laboratory work- ing in an assigned department under the supervision of a Medical Technologist and a Pathologist.

- AH 132M Clinical Practicum (0-20) 3 hours
 The twenty hours of clinical practicum will be
 spent at an affiliated clinical laboratory working in an assigned department under the
 supervision of a Medical Technologist and a
 Pathologist.
- AH 144M Clinical Practicum (0-20) 4 hours
 The twenty hours of clinical practicum will be
 spent at an affiliated clinical laboratory working in an assigned department under the
 supervision of a Medical Technologist and a
 Pathologist. Corequisite: AH 163M.
- AH 146M Clinical Practicum (0-20) 4 hours
 The twenty hours of clinical practicum will be
 spent at an affiliated clinical laboratory working in an assigned department under the
 supervision of a Medical Technologist and a
 Pathologist. Corequisite: AH 165M.

AH 163M Hematology and Urinalysis

- This course introduces the fundamentals of Medical Laboratory Technology. Particular emphasis will be placed upon the study of theory and practical application of hematology and urinalysis. The student will study professional ethics and nursing arts that are essential to the medical laboratory. Prerequisite: Admission to the Allied Health Program or by special permission. Corequisite: AH 144M.

munohematology. The major emphasis will be placed upon the study of the antigen-antibody reaction and its use in blood banking and serological testing. Prerequisite: Ah 163 or special permission from the instructor. Corequisite: AH 146 M.

- AH 244M Clinical Practicum (0-20) 4 hours
 The twenty hours of clinical practicum will be spent at an affiliated clinical laboratory working in an assigned department under the supervision of a Medical Technologist and a Pathologist. Corequisite: AH 263.
- AH 246M Clinical Practicum (0-20) 4 hours
 This twenty hours of clinical practicum will be spent at an affiliated clinical laboratory working in an assigned department under the supervision of a Medical Technologist and a Pathologist. Corequisite: AH 265M.

site: AH 244M.

Mid-Management

The primary objective of the Mid-Management Program is to prepare each student for full-time employment in supervision or management. The program in the classroom is combined with actual on-the-job experience in the student's chosen career field. The student will work as a regular, part-time paid employee in an approved business firm.

Mid-Management students may choose one of four "option" programs available. Students who are specifically interested in careers in retailing or marketing should enroll in the Marketing Management Option. Students who plan careers in the field of fashion merchandising or fashion retailing should enroll in the Fashion Merchandising Option. Students who plan careers in some phase of industrial production, oil or gas production, or machine fabrication should enroll in the Industrial Supervision Option. The General Management Option is available for students who plan careers in some other business or industrial field and for students who have not chosen a specific career field. Students in the petroleum marketing and supermarket management fields will find specific courses available to them in addition to the courses in the Marketing Management Option.

Many business, both large and small, are actively seeking graduates of Associate Degree programs. The shortage of promotable people in the supervisory and middle-management ranks virtually assures the graduate a challenging career with rewarding promotional possibilities. Firms which have their own management training programs hire graduates of Associate Degree programs as readily as they do graduates with the baccalaureate degree. Each of the Mid-Management options leads to the Associate of Applied Science degree.

Course of Study for Associate in Applied Science Degree General Management Option

First Year

First Sem	ıester	Second Semester									
Course	Sem. Hrs.	Course	Sem. Hrs.								
Engl 131	3	BA 131b									
Govt	3	Engl 132									
Mgt 116	1	Mgt 117									
Mgt 131	3	Mgt 236									
Mgt 231	3	Math									
Orientation 111	1	PE									
PE	1	Approved Elective									
Approved Elective	3										

Second Year

Third Sem	ester	Fourth Semester							
Course	Sem. Hrs.	Course	Sem. Hrs.						
EDP 230	3	BA 231L	3						
Mgt 238	3	Mgt 217							
Mgt 216	1	Mgt 232	3						
Mgt 233	3	Mgt 234							
Mgt 237	3	Spch 234	3						
Approved Elective	3	Approved Elective	3						

Approved Electives: Any other Mgt course; Any EDP course; OE 238; BA 232L; Eco 230; Eco 231; Eco 232; Psy 231; Psy 231; Psy 233; Soc 231; Soc 232; Soc 236.

Course of Study for Associate in Applied Science Degree Marketing Management Option

First Year

First Seme	ster	Second Semester								
Course	Sem. Hrs.	Course	Sem. Hrs.							
BA 131b	3	Engl 132								
Engl 131	3	Mgt 117	1							
Mgt 231	3	Mgt 235								
Mgt 116	1	Govt								
Mgt 131	3	PE								
Mgt 132	3	Mgt 236*								
Orientation 111	1	Approved Elective .								
PE	1									

Second Year

Third Semes	ter	Fourth Se	emester
Course	Sem. Hrs.	Course	Sem. Hrs.
EDP 230	3	BA 231L	
Mgt 216	1	Mgt 217	
Mgt 238	3	Mgt 232	
Mgt 233	3	Mgt 234	
Mgt 237		Spch 234	
Approved Elective	3		

^{*}Petroleum Marketing students will enroll in Mgt 237p instead of Mgt 236. Supermarket Management students will enroll in Mgt 237s instead of Mgt 236.

Approved Electives: Any other Mgt course; any other EDP course; OE 238; BA 232L; Eco 230; Eco 231; Eco 232; Psy 231; Psy 233; Soc 231; Soc 232; Soc 236.

120 Mid-Management

Course of Study for Associate in Applied Science Degree **Fashion Merchandising Option**

The curriculum and suggested course of study is tentative. Final adoption is subject to approval by the Texas Education Agency.

First Year

First Sem	ester	Second Semester								
Course	Sem. Hrs.	Course	Sem. Hrs.							
BA 131b	3	Engl 132	3							
Engl 131	3	Govt	3							
Mgt 116	1	Mgt 117	1							
Mgt 131	3	Mgt 134f								
Mgt 132	3	Mgt 235	3							
Mgt 133f	3	Approved Elective .								
Orientation 111	1	PE								
PE	1									

Second Year

Third Sem	ester	Fourth Semester									
Course	Sem. Hrs.	Course	Sem. Hrs.								
EDP 230	3	BA 231L									
Mgt 216		Mgt 232									
Mgt 233f	3	Mgt 234									
Mgt 237	_	Mgt 234f									
Mgt 238	3	Mgt 217									
Approved Elective	3	Spch 234									

Approved Electives: Any other Mgt course; OE 238; BA 232L; Eco 230; Eco 231; Eco 232; Psy 231; Psy 233; Soc 231; Soc 232; Soc 236.

Course of Study for Associate in Applied Science Degree **Industrial Supervision Option**

The curriculum and suggested course of study is tentative. Final adoption is subject to approval by the Texas Education Agency.

First Year

First Semes	ter	Second Semester								
Course	Sem. Hrs.	Course	Sem. Hrs.							
BA 131b	3	Engl*								
Engl*	3	Math**								
Govt	3	Mgt 117								
Mgt 116	1	Mgt 134								
Mgt 131	3	Mgt 136i								
Mgt 135i	3	Approved Elective .								
Orientation 111	1	PE								
PE	1									
	Second	l Year								

Third Semes	ter	Fourth Semester							
Course	Sem. Hrs.	Course	Sem. Hrs.						
Eco 230	3	EDP 230	3						
Mgt 216	1	Mgt 217	1						
Mgt 237	3	Mgt 238i	3						
Mgt 237i	3	Mgt 233	3						
Mgt 238	3	Approved Elective	3						
Approved Elective	3	Approved Elective	3						

Approved Electives: Any other Mgt course; Read 131; Any other Math course; Any Accounting course; Any other Eco course; Psy 231; Soc 231; Soc 236. Any Occupationally oriented course which has a direct bearing on the student's career plan.

- *Engl 130; Engl 131; Engl 132; Engl 233; OE 131. Any two of the foregoing will satisfy the English requirement.
- **Math 130; Math 131; Math 131t; Math 132b; Math 136b; Math 237b. The student may choose any one of these which will further his career and fit his existing skill level in mathematics.

MID-MANAGEMENT

Mgt 131 Introduction to Management

 application of management principles as they relate to the first line supervisor. The course is organized to include two hours of lecture-discussion and one hour of seminar discussion each week. Prerequisite: None.

Mgt 132 Principles of Retailing (3-0) 3 hours
This course studies the modern retailing industry. The major course divisions concern the structure and environment of retailing, the requirements of retailing management, retail merchandising, and sales promotion. Case studies are used to examine the application of

retailing principles to actual operating situations. The course is organized to include two hours of lecture-discussion and one hour of seminar discussion each week. Prerequisite: None

Mgt 133f Introduction to Fashion Merchandising

Mgt 134 Introduction to Transportation

Mgt 134f Fashion Sales Management

Mgt 135i Principles of Production Supervision

Mgt 231 Principles of Marketing (3-0) 3 hours The course introduces the field of marketing and describes and analyzes important marketing activities and institutions. A brief analysis of some of the economic, psychological, and sociological factors which influence marketing activities is included. Caseused to relate marketing principles to marketing management situations. The course is organized to include two hours of lecture-discussion and one hour of seminar discussion each week. Prerequisite:

Mgt 232 Management Skills Seminar

None.

Mgt 233 Principles of Personnel Management

Mgt 233f Fashion Buying (3-0) 3 hours

This course covers the fundamentals of effective buying as it relates to fashion retailing. Attention is given to the planning of correct purchases, the estimation of demand, the selection of sources of supply, and product merchandising. Prerequisite: Mgt 133f.

Mgt 234 Introduction to Public Relations

organized to include two hours of lecturediscussion and one hour of seminar discussion each week. Prerequisite: None.

Mgt 234f Fashion Promotion (3-0) 3 hours This course emphasizes the relationship which must exist between personal selling, visual merchandising, advertising, and fashion shows so that successful merchandising of fashion products may be accomplished by the fashion retailer. Prerequisite: None.

Mgt 235 Retail Business Management

(3-0) 3 hours This course is a continuation of Mgt 132, Principles of Retailing. Emphasis is placed on the management of personnel, merchandise, and other resources of the retail store. Case studies are used to apply the principles of retail management to actual conditions. The course is organized to include two hours of lecturediscussion and one hour of seminardiscussion each week. Prerequisite: Mgt 132.

Mgt 236 Marketing Management (3-0) ...3 hours This course is a continuation of Mgt 231, Principles of Marketing. Emphasis is placed on the management of the activities associated with marketing and distribution processes and institutions. Case studies are used to apply the principles of marketing management to actual situations. The course is organized to include two hours of lecture-discussion and one hour of seminar-discussion each week. Prerequisite: Mgt 231.

Mgt 237 Human Resources Management

This course examines the field of human relations as it applies to modern business management. Emphasis is placed on the productive management of the human resources available to a business or industrial firm. Innovative techniques of the behavioral science fields are introduced for discussion. Case studies are used to apply behavioral theories to actual situations. The course is organized to include two hours of lecture-discussion and one hour of seminar-discussion each week. Prerequisite: Mgt 131.

Mgt 237i Production Planning and

Control (3-0) 3 hours This course is a continuation of Mgt 135i, Principles of Production Supervision. It emphasizes planning analysis and the control of production operations. Attention is given to procurement and inventory control. Quality control, methods analysis, and work measurement are included as major sections of the course. Prerequisite: Mgt 135i.

Mgt 237p Petroleum Marketing Operations

(3-0) 3 hours This course introduces the field of petroleum marketing. Emphasis is placed on personnel management, financial management, and plant management as they pertain to the marketing of petroleum products. Sales promotion at the retailing level is discussed. Case studies are used to apply marketing principles to actual petroleum product marketing situations. The course is organized to include two hours of lecture-discussion and one hour of seminardiscussion each week. Prerequisite: Mgt 231 and permission of the instructor.

Mgt 237s Principles of Supermarket Operations

This course presents the principles and methods used in the operation of a supermarket with regard to organization, planning and control. Resource personnel from the supermarket industry will augment the scope of the classroom instructional program. The course is organized to include two hours of lecturediscussion and one hour of seminar discussion each week. Prerequisite: Mgt 231 and permission of the instructor.

Mgt 238 Communication Management

(3-0) 3 hours This is a creative communication course designed to provide the mid-management student with effective methods of creating understanding with his fellow employees and with his community within the management environment. Emphasis is placed on perfecting business communication techniques in the various channels of communication. Verbal, nonverbal, and written communication media will be covered as they pertain to the needs of the student. Prerequisite: None.

Mgt 238i Materials Management

(3-0) 3 hours This course presents the non-technical, management-oriented skills needed in materials management. Attention is given to purchasing, inventory control, and traffic. Cost control and cost reduction are major sections of the course. Prerequisite: Mgt 135i.

Music

The Music Department of the college provides pre-professional training for the music major, as well as general studies for personal enjoyment and enrichment. It also functions in a public relations capacity for the college by means of its performing organizations. It serves the community in cultural and entertaining programs; it assists the teachers in the area by means of special course offerings; it also offers the required music courses for majors in other fields. Odessa College is a Community/Junior College Member of the National Association of Schools of Music and a member of the Texas Association of Music Schools.

The several music organizations, including the band, orchestra, choir, and various ensemble groups, offer training and cultural enjoyment. Frequent performances by the artist faculty, in solo and with the symphony, add to the cultural opportunities afforded the community.

All music majors and minors are expected to attend concerts and recitals as a part of their music and cultural growth. These include student recitals, programs by Midland-Odessa Symphony and Chorale, Civic Concert Association, Odessa College Fine Arts Series, and other designated recitals.

Course of Study for Certificate of Completion in Music

First Year

First Semester		Second Semester							
Course	Sem. Hrs.	Course	Sem. Hrs.						
Mu 133	3	Mu 134							
Mu 141	4	Mu 142	4						
*Mu 113a	1	*Mu 113b							
*Mu 112b, 112p, 112s, or 11	2w1	*Mu 112b, 112p, 112	es, or 112w 1						
+ Mu 125a	2	+ Mu 125b	2						
+Mu 116c	1	+Mu 116d							
+Mu 110f, 110g, or 110i	1	+Mu 110f, 110g, or	110i 1						
#Mu 117a	1	#Mu 117b							
##Appl Mu 111a	1	##Appl Mu 111b							
Appl Mu 120a or 130a	2-3	Appl Mu 120b or 130							
Engl 131	3	Engl 132							
PE	1	PE							
Orientation	1								



MUSIC

Second Year								
First Semester		Second Semester						
Course	Sem. Hrs.	Course	Sem. Hrs.					
Mu 221	2	Mu 222						
Mu 231	3	Mu 232						
*Mu 213a	1	*Mu 213b						
*Mu 112b, 112p, 112s, or 112	2w1	*Mu 112b, 112p, 112s						
+Mu 225a	2	+Mu 225b						
+ Mu 216c	1	+Mu 216c						
+Mu 110f, 110g, or 110i	1	+Mu 110f, 110g, or 1						
#Mu 217a	1	#Mu 217b						
##Appl Mu 211a	1	##Appl Mu 211b						
Appl Mu 220a or 230a	2-3	Appl Mu 220b or 230t						
Engl (Sophomore Level)	3	Engl (Sophomore Lev						
Phys 131		Hist 232 or Govt 232						
Hist 231 or Govt 231								

- *Required for Instrumental majors
- +Required for Vocal majors
- #Required for Keyboard majors
- ##Piano required for non-keyboard majors

To receive the Associate in Arts Degree, the student must complete 1 year of math or science, and complete 12 hours of social sciences, including Hist 231 and 232 and Govt 231 and 232, in addition to the above courses.

MUSIC

music majors. Prerequisite: None.

 music of moderate difficulty upon some orchestral instruments. Prerequisite: None

pate in all major performances.

Music 127

MUSIC

music. Prerequisite: adequate facility on an in-

Mu 125a, 125b, 225a, 225b A Capella Choir

APPLIED MUSIC

Final grades in Applied Music are determined by jury audition each semester, the final performance in each course being rated in accordance with the progress achieved and based on the minimum daily required hours of practice as set forth in the catalog.

PRIVATE LESSONS

Mu 130a, 130b Freshman Piano

Mu 120a, 120b Freshman Piano

 Contemporary periods; sight reading; ensemble. Prerequisite for Mu 120b: Mu 120a.

Mu 130a, 130b Freshman Organ

(0-1) 3 hours each This course is designed for a performance major in organ, and the minimum representative requirements are these: Gleason, Method of Organ Playing; Dupre, Seventy-Nine Chorals: Bach, Eight Little Preludes and Fugues, and/or, Liturgical Year; repertoire representative of "The Cathedral" Prelude and Fugue (Bach) and "Station of the Cross XI" (Dupre); standard sonatas; standard literature from Romantic and Contemporary periods, everything from memory; additional technic as needed. Prerequisite for Mu 130a: must be able to perform Bach Two-part and Three-part inventions or equivalent on the piano. Prerequisite for Mu 130b: Mu 130a.

Mu 120a, 120b Freshman Organ

Mu 230a, 230b Sophomore Piano

Mu 220a, 220b Sophomore Piano

Preludes and Fugues, or the equivalent; SONATAS: by Mozart, Haydn, Beethoven, or concerto; TECHNIC: all scales and arpeggios, four octaves, four notes to the beat, minimum speed MM. 120; Czerny, Op. 299 or equivalent; standard *Etudes*; standard literature from the Romantic and Contemporary periods; sight reading; ensemble. Prerequisite: Mu 120b.

Mu 111a, 111b, 211a, 211b Secondary Piano

Mu 230a, 230b Sophomore Organ

Mu 220a, 220b Sophomore Organ

Mu 111a, 111b, 211a, 211b Secondary Organ

Mu 111a, 111b Secondary Voice

Mu 211a, 211b Secondary Voice

Mu 120a, 120b Freshman Voice

Mu 220a, 220b Sophomore Voice

(0-1) 2 hours each This course is designed as a continuation of Mu

MUSIC

120b. Scales, arpeggios, and studies of increased variety, length, speed, and numbers of vowels are studied. German and French songs are introduced. Oratorio and/or opera arias may be given at the discretion of the instructor. A minimum of 7 memorized songs and/or arias are to be prepared for presentation at faculty jury for grades. Prerequisite for Mu 220a: Mu 120b.

Mu 120a, 120b Freshman Violin

Mu 220a, 220b Sophomore Violin

Mu 120a, 120b Freshman Viola

Mu 220a, 220b Sophomore Viola

 Dont's 20 *Progressive Etudes*, and R. Kreutzer-Consolini's 42 *Etudes*; sonatas of Leclair, Marcello, Corelli, G. Faure; concertos and short solo pieces. Prerequisite: Mu 120b.

Mu 120a, 120b Freshman Violoncello

Mu 220a, 220b Sophomore Violoncello

Mu 120a, 120b Freshman Double Bass

Mu 220a, 220b Sophomore Double Bass

Mu 120a, 120b Classical Guitar

cal guitar or for elective credit. Representative instructional materials include standard classical guitar literature from all periods of music, including transcriptions. Representative materials include: Classical Guitar Method, Mateo Carcassi (Carl Fischer edition); Guitar School, Vol. 1, E. Pujol; Diatonic Major and Minor Scales (A. Segovia); the selection for any one semester is based on the student's need in relation to his previous study and current ability as determined by the teacher. Prerequisite: demonstrate knowledge of fingerboard; know diatonic major and minor scales. Terrega method is preferred. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Classical Guitar

Mu 120a, 120b Freshman Bassoon

Mu 220a, 220b Sophomore Bassoon

Etudes, Volume I, the Gambaro Studies, and such representative solos as the Vivaldi Concerto, the Weber Concerto, and the Hindemith Sonata. Prerequisite: Mu 120b.

Mu 120a, 120b Freshman Flute

Mu 220a, 220b Sophomore Flute

Mu 120a, 120b Freshman Clarinet

Mu 220a, 220b Sophomore Clarinet

eighth notes at M.M. 160, in various articulations; all major scales in broken thirds to be played from memory in eighth notes at M.M. 100, in various articulations. Additional etudes and technical studies should include completion of the Klose *Method* or Lazarus *Method*, the Rose 40 Studies, and such representative solos as the Brahms Sonatas, the Weber or Mozart concertos and some contemporary works. Prerequisite for Mu 220a: Mu 120b.

Mu 120a, 120b Freshman Oboe

(0-1) 2 hours each This course is designed for the music major or minor whose primary instrument is oboe or for elective credit. The minimum technical requirements are these: all scales and arpeggios to be played from memory in eighth notes at M.M. 120, in various articulations; all major scales in broken thirds played from memory in eighth notes at M.M. 80, in various articulations. Representative repertoire to be chosen from the Verroust Studies, the Rubank Selected Studies and the Barret Progressive Exercises, and solos such as the Handel Concertos and Sonatas, the Dittersdorf Concertos, and equivalent works. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore Oboe

Mu 120a, 120b Freshman Saxophone

technique will be taken from Selected Studies by Rubank, Pares Scale Studies and others. Solo literature will be selected from the Group I listing of the University Interscholastic League. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore Saxophone

Mu 120a, 120b Freshman French Horn

This course is designed for the music education major or minor whose primary instrument is French horn or for elective credit. The minimum technical requirements are these: all scales to be played from memory in eighth notes at M.M. 120, in various articulations: all major scales in broken thirds to be played from memory in eighth notes at M.M. 80, in various articulations. Additional technical studies will be taken from Alphonse, Book I, Pottag, Preparatory Melodies; and the Kopprasch, Book I. Representative solo literature will be selected from the Group I listing of the University Interscholastic League. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore French Horn

Mu 120a, 120b Freshman Trombone

or Baritone (0-1) 2 hours each This course is designed for the music education major or minor whose primary instrument is trombone or baritone or for elective credit. The minimum technical requirements are these: all scales and arpeggios to be played from memory in eighth notes at M.M. 120, in various articulations; all major scales in broken thirds to be played from memory in eighth notes at M.M. 80, in various articulations. Representative repertoire is to be chosen from the studies of Mueller, Kopprasch, Manita, Rochut, and Arban. The solo literature will be selected from the Group I listing of the University Interscholastic League. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore Trombone

or Baritone (0-1) 2 hours each This course is a continuation of Mu 120b, and the minimum representative requirements are these: all scales and arpeggios to be played from memory in eight notes at M.M. 160, in various articulations; all major scales in broken thirds to be played from memory in eighth notes at M.M. 100, in various articulations; continuation of the technical studies taken from Kopprasch, Etudes; Harvey, Advanced Studies; Rochut, Etudes, and Mueller, Technical Studies. Representative solos will be taken from the works of Guilmant, Zimmerman, Pryor, Simmons, and transcriptions for the trombone or baritone. Prerequisite for Mu 220a: Mu 120b.

Mu 120a, 120b Freshman Cornet or Trumpet

This course is a continuation of Mu 120b, and the minimum representative requirements are these: all scales to be played from memory in eighth notes at M.M. 160, in various articulations; all major scales in broken thirds to be played from memory in eighth notes at M.M. 100, in various articulations. Additional etudes and technical studies should include St. Jacome, Book II; Sachse, 100 Etudes; Voxman, Selected Studies; and Williams, Transpostion Studies; and representative solos such as those of Balay, Fitzgerald, Hindemith, and Busser. Prerequisite for Mu 220a: Mu 120b.

Mu 120a, 120b Freshman Tuba

(0-1) 2 hours each This course is designed for the music education major or minor whose primary instrument is tuba or for elective credit. The minimum technical requirements are these: all scales and arpeggios to be played from memory in eighth notes at M.M. 120, in various articulations; all major scales in broken thirds to be played from memory in eighth notes at M.M. 80, in various articulations. Additional technical studies will be taken from the Eby Method for Tuba and the Hering Thirty-two Etudes. Representative solo literature will be selected from the Group I listing of the University Interscholastic League. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore Tuba

Mu 120a, 120b Freshman Percussion

MUSIC

Studies and the Group I listing of the tympani using the Goodman Modern Method for Timpani for two tympani; and instruction in the correct method of playing the accessory instruments. Prerequisite for Mu 120b: Mu 120a.

Mu 220a, 220b Sophomore Percussion

This course is a continuation of Mu 120b, and the minimum representative requirements are these: continued instruction on the tympani to include three and four kettles; additional technical studies to be taken from the Seitz Modern School of Timpani Playing, and the orchestral literature; advanced rudimental solos for the snare drum and multiple percussion solos including the playing of the trap set; beginning instructions of the mallet instruments to be taken from the Xylophone with appropriate solos to be chosen from the literature. Prerequisite for Mu 220a: Mu 120b.

APPLIED MUSIC (Class Lessons)

Mu 111a, 111b, 211a, 211b Secondary

through the study of the basic techniques, a limited repertoire, and the methods of teaching them, culminating in the ability to play all the scales on these instruments. Prerequisite: None.

Mu 110c, 110d Applied Music

MUSIC

with an emphasis on diction and designed to promote the ability to sing in German. Vocabulary will be derived from words commonly used in song and opera. The student's own appropriate literature will be studied with other selections added to it at the discretion of the instructor. Prerequisite: None.

problem.

The second semester includes the divided beat, changing meters, cross rhythms, and melodies which encompass all of the diatonic triads. In partwriting, and in keyboard harmony, modulation to closely related keys, and harmonization of melodies are the problems. Ear training is correlated to each problem. Prerequisite for Mu 142: Mu 141.

 compass seventh chords, modes, and chromaticism. Partsinging is included. The ear training is correlated to the sightsinging material and to the related material in Music 231, 232. Prerequisite: Mu 142.

Music History and Literature

Nursing

This nursing program is built on a career ladder concept incorporating the courses that prepare students to become nursing assistants, or to take licensure examinations to become licensed vocational nurses and/or registered nurses.

The curriculum is designed to allow the student maximum flexibility in education. A student has the option of completing EIGHT WEEKS for NURSING ASSISTANT, ONE YEAR for VOCATIONAL NURSING or TWO YEARS for REGISTERED NURSING. Successful completion of two years also qualifies the student to receive the Associate in Applied Science Degree.

Requirements for admission to the nursing program are high school graduation or its equivalent, satisfactory achievement on college entrance examinations, evidence of good physical and emotional health, two satisfactory character references, and approval of the admissions committee of the Department of Nursing. The admissions committee is charged with the responsibility of determining final acceptance of an applicant after weighing all available criteria. Because of limited enrollment, students are urged to apply early.

For admission, applicants should apply to the college and to the director of the program. There is no discrimination due to sex, race, cultural background or ethnic origin. English language proficiency is essential.

The student must satisfy the objectives for the respective level with a minimum grade of "C" in each required course. Also, each nursing student must be covered by health and accident insurance and student liability insurance. Students are responsible for their own transportation to the clinical facilities.

The nursing program centers about the common health problems in the United States and must be taken in sequence listed. Clinical experience is a part of each course (excluding Nursing 135), and includes medicine, surgery, obstetrics, pediatrics, selected special services, and community agencies.

The same program is offered by Odessa College in Midland beginning in the spring semester.

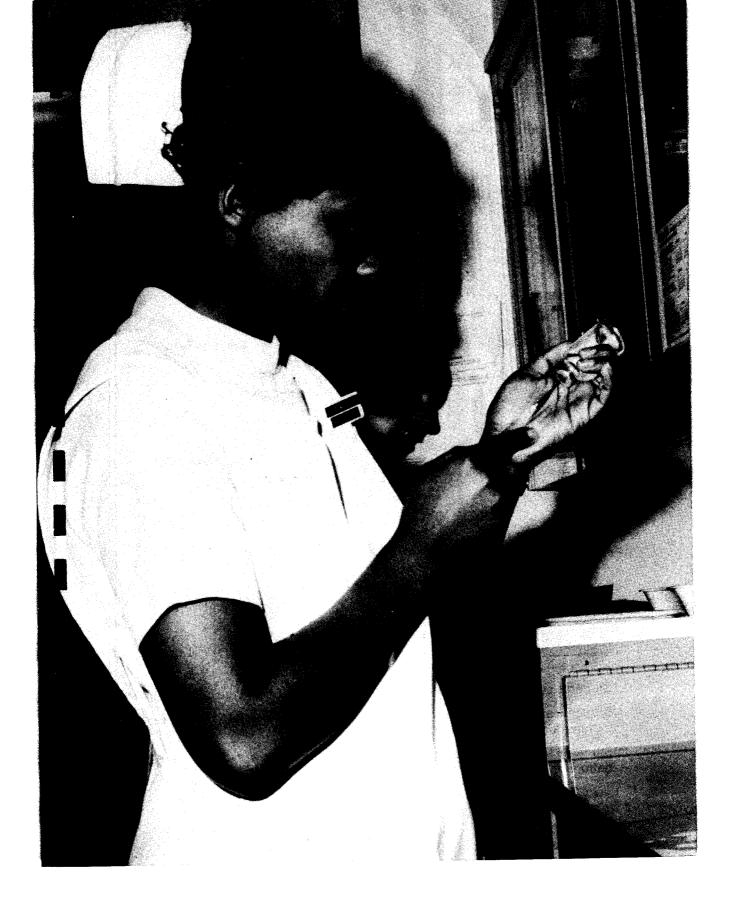
The following curriculum and suggested course of study is tentative. Final adoption is subject to approval by the Texas Education Agency.

Course of Study for Nursing (All Levels)

First Year LEVEL 1*

First Semester First Eight Weeks

Course									5	36	91	m	ı.	H	٩r	s	
Biol 111																1	ı
Nu +++																	
Nu 172	. 															7	7
171																	



NURSING

LEVEL 2**

First Semester	
Second Eight Weeks	Second Semester
Course Sem. Hrs. AH 121t	Course Sem. Hrs. Biol 143
Midwir	ter Session
Course Nu 1 35 . √ 3	Sem. Hrs. 3
Summ	er Session
First Term	Second Term
Course Sem. Hrs. Nu 148	Course Sem. Hrs. Nu 149
Sec	ond Year
LE	/EL 3***
Third Semester	Fourth Semester
Course Sem. Hrs. Biol 244	Course Sem. Hrs. Engl 132 3 Govt or U.S. Hist 3
Nu 261 6 Psy 111 1 Psy 231 3	Nu 262 6 PE 1 Psy 234 3
Psy 111	PE 1
Psy 111	PE

NURSING

Nu 110 Vocational Adjustments (3-0) 1 hour
This course aids the student in attaining the
necessary knowledge regarding legal aspects,
job responsibilities, and trends relating to the
vocational nurse. Prerequisites: Nu 176, Nu
156, and Nu 127, Concurrent with Nu 149.

Nu 111 Orientation to Nursing

Nu 113 Orientation to Nursing II

- Nu 127 The Adult Life Cycle (2-0) 2 hours
 This course explores Erickson's stages of man
 during the adult years. Developmental tasks of
 the young and middle-aged adult are considered, with special emphasis placed on the
 needs of the elderly. Prerequisite: Nu 135. Concurrent with Nu 176 and Nu 156.

- Nu 149 Maternity Nursing (6-24) 4 hours
 This course prepares students to perform nursing care, including specialty skills, for maternity patients during pregnancy, through delivery, and immediate post-partum care, and nursing care of the newborn. Prerequisites: Nu 176, Nu 156, and Nu 127.
- Nu 156 Clinical Pradticum (0-20) 5 hours
 This course provides laboratory experiences to
 develop intermediate and advanced nursing
 skills in caring for patients with unstable health
 conditions. Prerequisite: Nu 135. Concurrent
 with Nu 176.
- Nu 164 Basic Nursing II (8-16) 6 hours

 This course covering the last eight weeks of the fall semester will prepare the student to perform basic nursing skills for patients with stable health deviations. There will be an introduction to beginning skills in recognizing signs and symptoms exhibited by patients, the process of problem-solving thinking, the administration of drugs, and diet therapy. Prerequisites: Nu 111, Nu 172, and Biol 111. Concurrent with Nu 113 and AH 131t.

Nu 176 Care of Patients with Unstable

Nu 243 Nursing Trends and

NURSING

Nu 261 Care of Patients with Complex

Nu 262 Care of Patients with Complex



140 Nursing

Office Education

This body of subject matter, or combinations of courses and practical experience, is organized into programs of instruction to provide opportunities for pupils to prepare for and achieve career objectives in selected office occupations. Learning experiences are designed to lead to employment, further education, and/or advancement of individuals in occupations in public or private enterprises or organizations related to the facilitating functions of the office.

Course of Study for Associate in Applied Science Degree in Office Careers

The Associate in Applied Science degree will be awarded for successful completion of the Office Careers curriculum in Office Education and consists of the following components:

GENERAL OFFICE EDUCATION

General Course Requirements 15 Semester Hours Office Education Core 30 Semester Hours General Office Education Emphasis 18 Semester Hours

MEDICAL OFFICE EDUCATION

General Course Requirements 15 Semester Hours Office Education Core 30 Semester Hours Medical Office Education Emphasis 18 Semester Hours

Both programs have the same general course requirements and core courses. Options are available from the list of emphasis courses in each program. Students will be placed in typewriting based on the proficiency level attained in high school courses and/or demonstrated by placement tests.

General Course Requirements

Office Education Core

Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 130, OE 130 or		EDP 230	3
Engl 131, 132	6	OE 131	3
Govt 232	3	OE 132 or OE 133	3
Math 132b or OE 131	3	OE 133 or OE 231	3
Orientation 111 or Psy 111 .	1	OE 136	3
PE	2	OE 137	3
		OE 138	3
		OE 139	3
		OE 230	3
		OE 238	3

OFFICE EDUCATION

Medical Office Emphasis Courses

(18 semester hours) (18 semester hours) Sem. Hrs. Course Sem. Hrs. Course Biol 141 4 OE 234** 3 OE 235*......3 BA 241a 4 BA 242a 4 OE 237*.....3 EDP 131 3 Psy 233 3

General Office Emphasis Courses

Note: A Certificate of Technology will be awarded upon completion of 35 semester hours including a minimum of 30 semester hours of core courses.

Course of Study for Associate in Applied Science Degree in Secretarial Careers

The Associate in Applied Science degree will be awarded for successful completion of the secretarial Careers curriculum in Office Education, and consists of the following components:

General Secretarial Education

General Course Requirements	15 Semester Hours
Secretarial Careers Core	30 Semester Hours
General Secretarial Education Emphasis	18 Semester Hours

Legal Secretarial Education

General Course Requirements	15 Semester Hours
Secretarial Careers Core	30 Semester hours
Legal Secretarial Education Emphasis	18 Semester Hours

Both programs have the same general course requirements and core curriculum. Options are available from the list of emphasis courses in each program. Students will be placed in typewriting and shorthand based on the proficiency level attained in high school courses and/or demonstrated by placement tests.

^{*} Only two of the designated emphasis courses may be applied to a degree or certificate.

^{**} Required of all Medical Office Majors.

General Course Req	uirements	Secretarial Careers Core	
Course	Sem. Hrs.	Course Sem	. Hrs.
Engl 130, OE 130 or		EDP 230	3
Engl 131, 132	6	OE 131	3
Govt 232	3	OE 132	3
Math 132b or OE 131	3	OE 133	3
Orientation 111 or Psy 11	1 1	OE 134	3
PE	2	OE 135	3
		OE 136	3
		OE 137	3
		OE 138	3
		OE 139	3
		OE 230	3
		OE 238	3
		Psy 231	

General Secretarial Emphasis Courses Legal Secretarial Emphasis Courses (18 semester hours) (18 semester hours) Course Sem. Hrs. Sem. Hrs. Course BA 231L 3 BA 231L 3 BA 232L 3 BA 241a 4 LE 235 3 EDP 131 3 OE 232** 3 OE 235** 3 OE 237** 3 Psy 233 3 OE 237*.....3

Note: A Certificate of Technology will be awarded upon completion of 35 hours including a minimum of 30 semester hours of core courses.

^{*}Only two of the designated emphasis courses may be applied to a degree or certificate.

^{**}Required of all Legal Secretarial Majors.

OE 121 Typewriting Skills for

- OE 131 Office Bookkeeping (3-0) 3 hours
 This course is an introduction to the basic theory of double-entry bookkeeping as it applies to practical business situations relative to the single proprietorship. Emphasis is placed on the complete bookkeeping cycle including journalizing, posting, financial statements, special journals, and subsidiary ledgers. The course may be counted toward graduation or certification at Odessa College, but it may not be accepted for credit by all senior colleges.
- OE 132 Elementary Typewriting (3-2) 3 hours
 This course provides the development of skills
 in automation of the alphabetical keyboard,
 numbers, symbols, and service mechanisms by
 the touch method. An introduction to business
 letter forms, tabulations, manuscript displays,
 and reports is included. This course should not
 be taken for credit by students who have had
 typewriting in high school. Prerequisite: None.
- OE 133 Intermediate Typewriting (3-2)...3 hours
 This course is designed for those who have had typewriting in high school or who have had OE 132 or the equivalent. Practice includes composition of business letters, typing of business letters, tabulating materials, and typing of manuscripts. Prerequisite: OE 132.
- OE 134 Elementary Stenography (3-3) ... 3 hours
 This course is designed for those students who
 wish to learn Gregg shorthand. Special attention is given to correct formation of shorthand
 characters, brief forms, phrasing, and the reading, writing, and transcription, at 60 to 80 wpm,
 of well written shorthand. Prerequisite: OE 132.
- OE 135 Intermediate Stenography (3-3)... 3 hours
 This course is a continuation of OE 134 and

- applies principles of Gregg shorthand to develop the ability to take accurately transcribed shorthand notes at 80 to 100 wpm. Prerequisite: OE 134.
- OE 136 Business Correspondence (3-0) . 3 hours
 This course is designed to give the student majoring in Office education special training in business and professional terminology, spelling, punctuation, vocabulary, grammar, and sentence structure in order to write effective business letters and reports. Prerequisite: OE 130 or Engl 130.
- OE 137 Machine Transcription (3-0) 3 hours
 A general intensive course in transcribing from recording machines using techniques involved in word processing. Prerequisite: OE 132; Corequisite: OE 133.

OE 138 Records Management and

- OE 139 Secretarial Practice (3-0) 3 hours
 This course is designed to develop thorough knowledge and skills necessary in office procedures. A study is made of the duties and functions of the secretary. Modern office techniques, etiquette, telephone techniques, travel planning, mail routines, human relations, and office management are studied. Prerequisite: OE 132.
- OE 230 Secretarial Simulation (3-3)......3 hours
 Secretarial duties, responsibilities and personal qualifications are emphasized. Students will complete office projects designed to coordinate skills and apply knowledge acquired in preparatory courses. Prerequisite: OE 139.
- OE 231 Advanced Typewriting (3-2) 3 hours
 This course is designed for students who desire to join typewriting speed and knowledge of business forms. It includes practice work in the typing of legal documents, rough drafts, payrolls, invoices, business letters, telegrams, addressing of envelopes, manuscript work, and cutting of stencils. Prerequisite: OE 133.

OE 232 Dictation and Transcription

This course is a continuation of OE 233, with

emphasis on speed dictation, rapid transcription and vocabulary enlargement. A student should be able to write at a speed of approximately 100 to 120 wpm by the end of the course. Prerequisite: OE 233.

OE 233 Advanced Stenography (3-3) 3 hours
The purpose of this course is to increase speed
and accuracy to 100-120 wpm in shorthand,
typewriting, and transcription. Prerequisite:
OE 135.

OE 234 Medical Terminology for

OE 235 Elementary Machine Shorthand

 tuation accuracy drills, note reading, phrasing mastery, and care of stenograph machine. Prerequisite: None.

OE 236 Intermediate Machine Shorthand

OE 237 Production and Statistical

OE 238 Business Machines (3-2) 3 hours
This course provides mathematical problem application and practice in the operation of ten-key adding machines, printing calculators, and electronic desk calculators. Prerequisite:

CLERICAL CERTIFICATE PROGRAM

Odessa College Business Department also offers a Clerical Office Training Program on a clock-hour non-credit basis. This program is designed for the student who does not wish to take the regular semester hour credit courses, but does desire to be qualified for business entry positions requiring generally accepted office standards of skills.

Enrollment is on each Monday throughout the year. Classes meet daily from 8:00 a.m. to 12:30 p.m. and from 10:00 a.m. to 2:30 p.m. The cost is \$40 per month plus books.

Although the program usually is non-credit, in special instances, a student may receive official college credit by meeting the admission requirements of the college and enrolling in the Clerical Certificate Program for credit. For more information please contact the department Chairman of the Office Education Department.

Office Education Office Careers

(810 clock hour program)

	Clock	Clock	
Course	Hours	Course Hours	
Beginning or Intermediate		Intermediate or Advanced	
Typewriting	90	Typewriting90	
Business English	54	Machine Transcription 54	
Office Bookkeeping	54	Office Simulation	
Business Math	54	Filing	
Office Machines	90	Business Communications and/or	
Office Seminar	108	Correspondence54	

TOTAL 810

Office Education Secretarial Careers

(1026-clock hour program)

	Clock	Clock	(
Course	Hours	Course Hours	}
Beginning or Intermediate		Intermediate or Advanced	
Typewriting	90	Typewriting90)
ABC Shorthand	108	Intermediate Shorthand 108	3
Business English	54	Office Simulation	3
Office Bookkeeping	54	Filing	ļ
Business Math	54	Business Communication and/or	
Office Machines	90	Correspondence54	ŀ
Office Seminar	108	Machine Transcription 54	ŀ

TOTAL 1026

CLERICAL CERTIFICATE PROGRAM COURSES

Intermediate Typing (90 class hours)
This course is designed for those who have had typewriting in high school or who have had beginning typewriting. Practice includes com-

position of business letters, typing of business letters, tabulating materials, and typing of manuscripts.

- Beginning ABC
 Shorthand(108 class hours)
 A complete course in ABC speedwriting theory, dictation and transcription with dictation speed goals of from 50 to 60 words a minute.
- Business Communications (54 class hours)
 A study of the principles of effective business writing with related practice in business letter composition and other types of written business communications. Emphasis is upon correct and forceful English usage.
- Business Correspondence (54 class hours)
 This course is designed to give the students special training in business and professional terminology, spelling, punctuation, vocabulary building, grammar, and sentence structure as applied to the writing of effective business letters and reports.

Physical Education*

Physical education is the sum of all those changes that take place in individuals as a result of movement experience.

The principle objectives of this department are: (1) to develop the student's neuromuscular skill and organic system through movement experiences, (2) to increase the student's knowledge, insight, understanding and interest in movement experiences, and finally, (3) to improve the student's recreational and leisure time skills as well as his standards of behavior in these selected movement areas.

Since movement is the medium through which this department achieves its objectives, the student has several opportunities to select those movement experiences (from twenty different areas in the physical education curriculum) which will best contribute to his well-being, his leisure time skills, and to his total educational development.

Course of Study for Associate in Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141	4	Biol 142	4
Engl 131	3	Engl 132	
Hist 231	3	Hist 232	
Math 131 or More Adva	nced3	Math 131 or More	Advanced3
Orientation 111	1	PE (Activity)*	
PE (Activity)*	1	PE 132	
PE 132a	3		
	0	-1 V	

Second Year

Farrath Composition

inira Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 143	4	Engl (Sophomore Level)	3
Engl (Sophomore Level) .	3	Govt 232	3
Govt 231	3	H Ed 232	3
PE (Activity)*	1	PE (Activity)*	1
Elective	3	Elective**	
Elective**	3	Elective**	3

^{*}Students majoring in Physical Education in preparation for a teaching career are required to take four semesters of activity classes in the following areas:

1 class of gymnastics 1 class of individual activity 1 class of team activity 1 class of dance activity

Athletics or Senoritas De Las Rosas are not to be counted as part of the 4 activity classes for PE majors.

**Electives are to be selected from the following 3 hour classes based on senior institution requirements:

PE 133, PE 233, PE 234, PE 236, PE 237, Psy 231, Soc 231, Spch 131

Thind Composton

PHYSICAL EDUCATION

PHYSICAL EDUCATION

It is also recommended that physical education majors take more than the minimum of four one-hour activity classes in their preparation for a teaching career. Major students should also consider the requirements of the senior college to which they intend to transfer and plan their junior college scholastic schedule accordingly.

PE 1	11a Beginning Basketball (0-3)1	hour
	11a Advanced Basketball (0-3)1	
	11a Varsity Basketball (0-3)1	
PF 1	12a Varsity Basketball (0-3)1	hour
PF 2	11a Varsity Basketball (0-3)1	hour
PF 2	12a Varsity Basketball (0-3)	hour
DE 1	11b Beginning Badminton (0-3) 1	hour
DE 2	11b Advanced Badminton (0-3) 1	hour
DE 1	11c Beginning Bowling (0-3)1	hour
DE 9	11c Advanced Bowling (0-3)1	hour
DE 1	11d Posinning Cottbell (0.2)	hour
PE 1	11d Beginning Softball (0-3)	hour
PE 4	11a Advanced Solibali (0-3)	hour
	11e Beginning Gymnastics (0-3) 1	
	12e Intermediate Gymnastics (0-3) 1	
	11e Advanced Gymnastics (0-3)1	
PE 1	11e Varsity Gymnastics (0-3)1	nour
PE 1	12e Varsity Gymnastics (0-3)1	nour
PE 2	11e Varsity Gymnastics (0-3) 1 12e Varsity Gymnastics (0-3) 1	nour
PE 2	12e Varsity Gymnastics (0-3)1	hour
PE 1	11f Beginning Football (0-3) 1	hour
	11f Advanced Touch Football (0-3) 1	
PE 1	11g Beginning Golf (0-3) 1	hour
PE 2	11g Advanced Golf (0-3) 1	hour
PE 1	11g Varsity Golf (0-3)	hour
PE 1	12g Varsity Golf (0-3)	hour
PE 2	11g Varsity Golf (0-3)	hour
PE 2	12g Varsity Golf (0-3)	hour
PE 1	11h Beginning Social Dance (0-3) 1	hour
PE 1	12h Intermediate Social Dance	_
(0)-3)	hour
PE 2	11h Advanced Social Dance (0-3) 1	hour
PE 1	11i Folk Dance (0-3)1 11j Beginning Modern Dance (0-3)1	hour
PE 1	11j Beginning Modern Dance (0-3)1	hour
PE 1	12j Intermediate Modern Dance	
(()-3)1	hour
	11j Advanced Modern Dance (0-3)1	hour
PE 1	11j Modern Dance: Theatre Dance	
_ F	orm (0-3)	hour
	12j Modern Dance: Theatre Dance	
_ F	orm (0-3)	hour
PE 2	11j Modern Dance: Theatre Dance	
F	orm (0-3)	nour
PE 2	12j Modern Dance: Theatre Dance	
_ F	form (0-3)	nour
PE 1	11k Beginning Foreign Dance (0-3)1	nour
	11k Advanced Foreign Dance (0-3)1	nour
	11I Las Senoritas de las Rosas Drill	
9	ind Dance Team (0-3)	hour

- -
PE 112I Las Senoritas de las Rosas Drill
and Dance Team (0-3) 1 hou
PE 211I Las Senoritas de las Rosas Drill
and Dance Team (0-3) 1 hou
PE 212I Las Senoritas de las Rosas Drill
and Dance Team (0-3) 1 hou
PE 111m Beginning Tap Dancing
PE 111m Beginning Tap Dancing (0-3)
PE 211m Advanced Tap Dancing
(0-3)
PE 111n Beginning Recreational Sports
(0-3) 1 hou
PE 211n Advanced Recreational Sports
(0-3) 1 hou
PE 1110 Beginning Women's
Basketball (0-3) 1 hour
PE 211o Advanced Women's
Basketball (0-3)1 hour
PE 1110 Women's Varsity Basketball
(0-3)1 houi
PE 1120 Women's Varsity Basketball
(0-3)
PE 2110 Women's Varsity Basketball
(0-3)1 hour
PE 2120 Women's Varsity Basketball
(0-3)1 hou
PE 111p Physical Conditioning (0-3) 1 hour
PE 112p Physical Conditioning (0-3) 1 hour
PE 211p Physical Conditioning (0-3) 1 hour
PE 111g Beginning Fencing (0-3) 1 hour
PE 211q Advanced Fencing (0-3) 1 hour
PE 111r Varsity Track and Field (0-3) 1 hour
PE 112r Varsity Track and Field (0-3) 1 hour
PE 211r Varsity Track and Field (0-3) 1 hour
PE 212r Varsity Track and Field (0-3) 1 hour
PE 111s Beginning Swimming and Diving
(0-3)1 hour
PE 112s Intermediate Swimming and Diving
(0-3)
PE 221s Advanced Swimming and Diving
(0-3)
PE 212s Red Cross Life Saving (0-3) 1 hour
PE 111t Beginning Tennis (0-3) 1 hou
PE 112t Intermediate Tennis (0-3) 1 hou
PE 211t Advanced Tennis (0-3) 1 hour
PE 111t Varsity Tennis (0-3) 1 hou
PE 112t Varsity Tennis (0-3) 1 hou
DE 211t Vareity Tannie (0-2)

PHYSICAL EDUCATION

PE 212t Varsity Tennis (0-3)	PE 111y Beginning Judo and Karate (0-3)
PHYSICAL E	DUCATION
PE 110 Defensive Tactics (0-3)	mechanics, rules, postponements, tournaments, and officials associations. Gymnastics would include individual scoring, value parts, dual meets, team sizes, and equipment requirements. Prerequisite: consent of the instructor.
PE 132a First Aid (3-0)	PE 234 The Techniques of Officiating Sports, Part II (2-2)
PE 132 Orientation in Health, Physical Education and Recreation (3-0)	PE 236 The Techniques of Coaching Sports, Part I (2-2)
PE 133 Camping and Outdoor Education (2-2)	PE 237 The Techniques of Coaching Sports, Part II (2-2)
Prerequisite: None. PE 233 The Techniques of Officiating Sports, Part I (2-2	H Ed 232 Personal and Community Health (3-0)

Physics

The Department of Physics has as its principal objective the training of physicists at the junior college level. In addition, it seeks to provide for certain other majors the foundation in the fundamental physical principles which are necessary for effective work in engineering, medicine, dentistry, chemistry, and technology.

Course of Study for Associate in Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
EDP 246a	3	Engl 132	
Engl 131	3	Engr 111	
Hist 231	3	Hist 232	
Lang 141	4	Lang 142	
Math 231*	3	Math 232	
Orientation 111	1	PE	
PE	1	Phys 143	

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl (Sophomore Level)	3	Engl (Sophomore Level)	3
Govt 231	3	Govt 232	3
Lang 231	3	Lang 232	3
Math 234	3	Math 235	3
PE	1	PE	1
Phys 241	4	Phys 242	4

^{*}Prerequisite to Math 231 should be taken during the summer prior to freshman enrollment. Students with strong mathematics background should consider advanced standing examinations.

PHYSICS

Phys 131 Music Acoustics (3-0)3 hours

This course is a study of sound as related to speaking, singing, and to playing musical instruments. It includes physical principles of sound production, transmission, interference, hearing, resonance, pitch; quality, musical intervals, stringed instruments, wind instruments, acoustics of rooms, and associated electronic equipment. Prerequisite: None.

Phys 141 College Physics (3-3) 4 hours
This course is a study of classical mechanics,
molecular physics and heat with application. It
is for students of medicine, dentistry, veterinary medicine, optometry, biology, and architecture. A knowledge of elementary algebra
and trigonometry is needed. Prerequisite:
None.

Phys 142 College Physics (3-3) 4 hours

This course is a study of classical electricity,
magnetism, mechanical wave motion, optics,
and practical aspects of modern physics. Prerequisite: Phys 141.

Phys 143 Engineering Physics (3-3) 4 hours

This course is a study of classical mechanics
and thermo-dynamics for the student who aspires to professional academic degrees in the
fields of physical science, the various engineering specialties, and mathematics. Prerequisite
or corequisite: Math 231.

Phys 241 Engineering Physics (3-3) 4 hours
This course is a study of classical electricity
and magnetism from a theoretical and engineering application viewpoint. Prerequisite:
Physics 143 or Engineering 233. Corequisite:
Math 232.

Phys 242 Engineering Physics (3-3)4 hours
This course is a study of mechanical and electromagnetic wave motion from the classical viewpoint and a semi-quantitative study of modern physics. Engineering applications of these subjects are stressed. Prerequisite: Phys 241



Psychology, Sociology and Education

This department furnishes the foundation courses for those students preparing for elementary and secondary school teaching as well as those planning to major in psychology or sociology. The subjects offered are often taken by students because of their general social and cultural value.

Both Psychology and Sociology majors should plan their programs with the assistance of a counselor. Psychologists and sociologists are most frequently hired as college teachers and researchers. Applied fields for either include the following: counselors, personnel workers, ministers, social case workers, group workers, community organizers, labor-management mediators, medical social workers, etc.

The State of Texas sets the requirements for certification of public school teachers. Prospective teachers should keep in mind that they must complete a teacher training program as outlined by their selected senior college.

Therefore, students should plan their work at Odessa College so as to take those courses which the senior college requires at the freshman and sophomore levels.

The instructional aide program is designed to develop educational concepts and theories needed to assist teachers. Pre-service and in-service aides receive instruction and theory in order that they might better understand their role in the classroom.

Course of Study for Associate in Arts Degree in Psychology

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	
Hist 231	3	Hist 232	
Math 135	3	PE	
Orientation 111	1	Soc 231	
PE	1	Soc 237	
Psy 231	3	Elective	

PSYCHOLOGY, SOCIOLOGY AND EDUCATION

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141, Chem 131 & 111, or		Biol 142, Chem 132 & 112, or	•
Phys 141	4	Phys 142	4
Engl (Sophomore Level)	3	Engl (Sophomore Level)	3
Govt 231	3	Govt 232	3
Math 134	3	PE	1
PE	1	Phil 231	3
Psy 236	3	Psy 234	3
-			

Approved electives: Soc 232; Eco 231; Math 132; Psy 233.

Course of Study for Associate in Arts Degree in Sociology

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132	3
Hist 231	3	Hist 232	3
Math 135	3	PE	1
Orientation 111	1	Psy 231	3
PE	1	Soc 237	3
Soc 231	3	Approved Elective*	3
Approved Elective*	3		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Biol 141, Chem 131 & 111, or	•	Biol 142, Chem 132 & 112, or	
Phys 141	4	Phys 142	4
Engl (Sophomore Level)	3	Engl (Sophomore Level)	
Govt 231	3	Govt 232	
Math 134	3	PE	1
PE	1	Approved Elective*	3
Soc 236	3	• •	

^{*}Approved Electives: Phil 231; Soc 232; Soc 233; Soc 234; Eco 231; Psy 234.

PSYCHOLOGY, SOCIOLOGY AND EDUCATION

Course of Study for Associate in Arts Degree in Elementary Education

	First	Year
Fi	rst Semester	
Course	Sem. Hrs.	Second Semester
•		Biol 142 or H Ec 132 4
		Engl 132
		Hist 232
	37 3	Math 132 or 238 3
	l	PE 1
		Psy 231 3
Spch 131	3	
	Secon	d Year
TI	nird Semester	Fourth Semester
Course	Sem. Hrs.	Course Sem. Hrs.
	ore Level)3	Engl (Sophomore Level)
•		Geog 232 3
		Govt 232
· - · · · · · · · · · · ·	ce (Chem 131 & 111,	PE1
•	or Geol 141) 4	Psy 234
,	PSYCHOLOGY, SOCIOL	·
	Course of Study for As in Secondar	
		y Education
Fi	in Secondar	y Education
Course	in Secondar First rst Semester Sem. Hrs.	y Education Year Second Semester Course Sem. Hrs.
Course Biol 141	in Secondar First rst Semester Sem. Hrs4	y Education Year Second Semester Course Sem. Hrs. Biol 142
Course Biol 141 Engl 131	in Secondar First rst Semester Sem. Hrs	y Education Year Second Semester Course Biol 142 Engl 132 Sem. Hrs. 4 Sem. Hrs. 3
Course Biol 141 Engl 131 Hist 231	in Secondar First rst Semester Sem. Hrs	y Education Year Second Semester Course Sem. Hrs. Biol 142
Course Biol 141 Engl 131 Hist 231 Math 134 or 23	in Secondar First rst Semester Sem. Hrs	Year Second Semester Course Sem. Hrs. Biol 142 4 Engl 132 3 Hist 232 3 Math 132 or 238 3
Course Biol 141 Engl 131 Hist 231 Math 134 or 23 Orientation 11	in Secondar First rst Semester Sem. Hrs	y Education Year Second Semester

PSYCHOLOGY, SOCIOLOGY AND EDUCATION

Second Year

Second Year			
Third Semester	Fourth Semester		
Course Sem. Hrs. Art 130 3 Engl (Sophomore Level) 3 Govt 231 3 PE 1 Phil 232 3 Physical Science (Chem 131 & 111, Ea Sc 141, Geol 141, or Phys 141) 4	Course Sem. Hrs. Engl (Sophomore Level) 3 Govt 232 3 Mu 131 3 PE 1 Psy 234 3 Soc 231 3		
Orien 111 Orientation (1-0)	Psy 234 Child Psychology (3-3) 3 hours Emphasis is placed upon the development processes and environmental factors which shape the personality and affect the achievement of the child from pre-natal through adolescence. Laboratory requirements consist of observation and study of children. Prerequisite: None.		
Psy 111 Personal Development (1-0) 1 hour Using an informal class format, emphasis in this course is placed on helping the student identify his personal strengths and on develop- ing the interpersonal skills necessary for func- tioning in the world today. Prerequisite: None. Psy 121 Personal Development II (2-0)	Psy 236 Social Psychology (3-0) 3 hours A survey of the research and theories dealing with a study of human behavior in social situations. Topics include attitudes, prejudices, interpersonal attraction, group behavior, conformity, motivation, and conflict. The student may elect the subject area heading appropriate to his major. The student may not receive credit for both Psy 236 and Soc 236. Prerequisite: Psy 231, Soc 231, or consent of the instructor.		
rising for first semester students. Psy 231 Introduction to Psychology (3-0)	Soc 231 Introduction to the Study of Society (3-0)		
Psy 233 Personal Applications of Psychology (3-0)	ing family and community disorganization, crime and delinquency, racial and educational problems and conflicts, problems of mass communication, and personal pathologies. Prerequisite: Soc 231. Soc 233 Sociology of the Family (3-0) 3 hours Sociological analyses are made of human relationships pertaining to the varied aspects of courtship, mate selection, and marital adjust-		

SOCIOLOGY

ment with a study of the problems of adjustment in each stage of the life cycle. Prerequisite: None.

Soc 234 American Minorities (3-0) 3 hours
A study of the principal minority groups in
American Society and their sociological significance; problems of inter-group relations,
social movements, and related social changes
and the theories explaining such changes. Prerequisite: Soc 231, or consent of the instructor.

 formity, motivation, and conflict. The student may elect the subject area heading appropriate to his major. The student may not receive credit for both Psy 236 and Soc 236. Prerequisite: Psy 231, Soc 231, or consent of the instructor.

Soc 237 Fundamental Research Design



Radiologic (X-Ray) Technology

The college offers a cooperative program with the local hospitals designed to provide understanding, proficiency, and skill in Radiologic Technology.

The program is approved by the American Medical Association, Council on Medical Education and the Joint Review Committee on Education in Radiologic Technology. Upon completion of the program the student is granted an Associate in Applied Science Degree and is eligible to apply for certification examination given by the American Registry of Radiologic Technologists in diagnostic x-ray technology.

The program curriculum is a balance of general educational and technical courses as well as supervised practicum work at local hospitals. These provide the student an opportunity for educational development as well as occupational competence during the 24 month program.

Because practicum space is limited, students are admitted on a selective basis. To be considered for selection for the beginning Fall semester class, the student must be a high school graduate or equivalent; achieve a satisfactory score on selected college entrance examinations; show evidence of good physical and mental health; have character references and approval by admissions committee for the program. The student must maintain a "C" average in all Radiologic Technology courses and an average of "C" in all courses or be dropped from the program.

Applicants or those seeking additional information should contact the Radiologic Technology Program Director at the college. All applications admission to the Fall Semester class must be received by the program director not later than June 30.

Course of Study for Associate in Applied Science

First Year

First Semester		Second Ser	mester
Course Sen AH 144x AH 163x Biol 143 Orientation 111 PE*	4 6 4	AH 165x Engl 131 or 131t Math 131 or 131t	

First Summer Session

First Term	Second Term	
AH 131x	AH 132x3	

RADIOLOGIC (X-RAY) TECHNOLOGY

Second Year Third Semester Fourth Semester Course Sem. Hrs. Course Sem. Hrs. AH 246x4 AH 244x4 AH 263x 6 Engl 132 or 132t or Spch 234 3 Psy 231 3 **Second Summer Session** First Term Second Term AH 133x3 AH 134x 3 *H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses. RADIOLOGIC TECHNOLOGY AH 131x Radiologic Technology Practicum AH 144x Radiologic Technology Practicum (0-25) 4 hours Each student is required to average twenty-five practice of basic radiographic procedures in hours per week in closely supervised laborapositioning, on darkroom techniques, and on tory practice of basic radiation and positioning. becoming more professional in the use of Anatomy and physiology as they relate to anatomical terms. Prerequisite: AH 146x. radiography will be discussed as well as physics, professional ethics, and the critique of AH 132x Radiologic Technology Practicum x-ray films. Corequisite: AH 163x. (0-25) 3 hours AH 146x Radiologic Technology Practicum This practicum will further emphasize the prac-(0-25) 4 hours tice of specific positioning of the area to be Student technicians will spend a minimum of x-rayed, recognition of the structure and ortwenty-five hours per week in supervised pracgans visualized, and understanding of the tice of both common radiologic procedures normal functions of organs as a basis for cerand specific procedures described in classtain x-ray examinations. Prerequisite: AH 131x. room lecture. Radiographic positioning of patients and radiographic exposure using con-AH 133x Radiologic Technology Practicum trast media will be emphasized during the lab (0-25) 3 hours periods. Prerequisite: AH 144x. Corequisite: This practicum will further emphasize the prac-AH 165x. tice of specific positioning of the area to be x-rayed, recognition of the structure and or-AH 163x Principles of Radiographic gans visualized, and basic understanding of Exposure (6-0) 6 hours the normal functions of organs as a basis for The fundamental principles of radiologic techcertain x-ray examinations. Equipment maintenance will be stressed. Prerequisite: All nology, and the part radiologic technology plays in the medical field will be stressed. Stu-246x. dents will become acquainted with ethical principles, responsibilities of the paramedical AH 134x Radiologic Technology Practicum professions and their relationship to the radiologic technician. Principles and funda-This practicum will further emphasize the pracmentals of electrical and radiation physics are tice of radioisotopes, recognition of the structaught along with the basic principles underlytures and organs to be x-rayed, and achieve-

ment of basic understanding of the normal

functions of organs as a basis for certain x-ray examinations. Training in departmental man-

agement is a part of the course. Prerequisite:

AH 133x.

iliary devices. Corequisite: AH 144x.

AH 165x Basic Radiographic Positioning

ing the operation of x-ray equipment and aux-

(6-0) 6 hours This course is designed to acquaint the student

RADIOLOGIC (X-RAY) TECHNOLOGY

technologist with the common procedures in radiography. Topics of study include the use of equipment and media, including contrast media; the reactions and contra-indications of these media; nursing procedures pertinent to radiology; and the role of radiologic technologist in various nursing situations. Prerequisite: AH 163x. Corequisite: AH 146x.

AH 244x Radiologic Technology Practicum

AH 246x Radiologic Technology Practicum

 sessions for student familiarization. Prerequisite: AH 244x. Corequisite: AH 265x.

AH 263x Radiographic Procedures (6-0) . 6 hours Special radiographic procedures acquaint the student technician with the specialized and highly technical procedures in radiology, and in the topographic anatomy and the relationship of organs to each other. Radiation protection is stressed so that the student technician can provide maximum protection and safety to patients and to other personnel. Prerequisite: AH 165x. Corequisite: AH 244x.

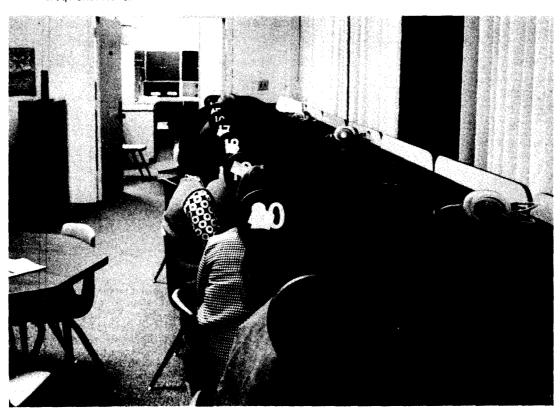
246x.

Reading

An effective citizen must read well, and reading courses develop efficient tools to use in today's world of words. These courses are an implementation of the philosophy that the ultimate in reading is never reached and that the so-called study skills are predominantly reading skills. Time spent in this department is an investment in self; anyone, no matter what kind of grades he makes, can improve his reading skills.

All professional fields need above-average abilities in reading. Developing awareness of the competencies underlying effective reading and insight into the psychology of reading will be excellent preparation for those interested in the fields of education and teaching. These courses will also serve as a sound introduction for those interested in reading as a major. Reading specialists, reading supervisors, and reading clinicians are all in great demand.

Read 132 Advanced College Reading



Real Estate

The primary objective of the Real Estate program is to prepare students for full-time employment in the Real Estate field. The completion of this program will lead to an Associate in Applied Science Degree in Real Estate. All courses in Real Estate are designed to provide basic employment skills for individuals seeking employment in real estate as well as to upgrade those presently employed in the industry.

Course of Study for Associate in Applied Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 130 or Engl 131	3	Engl 131 or Engl 132	3
Math 130	3	Govt 231	3
Mgt 131	3	Mgt 234	3
Orientation 111	1	PE	1
PE	1	RE 133	3
RE 131	3	RE 134	3
RE 132	3		
	_		

Second Year

Third Semester		Fourth Semester	
Course Eco 230	Sem. Hrs	Course BA 231	Sem. Hrs
		Approved Elective	3

Approved Electives: Any other Real Estate Course; any other Mid-Management Course; any other Business Administration course; any other Economics course.

REAL ESTATE

RE 131 Principles of Real	
Estate (3-0)	3 hours
This course is a genera	I introduction to real
estate as a profession. It i	ncludes a study of the
nature of real estate and	ownership, the princi-
ples and concepts of titl	e transfer, title insur-
ance, real estate marketir	ng, financing, leasing,
taxation, insurance, deve	elopment, appraising,
and the state license law i	n Texas. The course is
designed to acquaint the	student with the wide

range of subjects and terminology found in the practice of real estate. Prerequisite: None.

RE 132 Real Estate Appraisal (3-0) 3 hours
This course is designed to provide the student
with the basic knowledge and skills necessary
to demonstrate an application of cost, income,
and market data approaches to real property
value. It includes an examination of the nature
of real property value, the functions and pur-

REAL ESTATE

poses of appraisal, and the methods of estimating residential market value. Prerequisite:

- RE 133 Real Estate Finance (3-0).......3 hours
 This course is designed to provide the student
 with the basic knowledge involved in real estate financing and investment. It includes a
 study of the institutions involved in real estate
 financing, the risks involved in financing real
 estate transactions, the instruments of
 financing, the terminology of financing, and
 real property taxation. Prerequisite: None.

RE 231 Real Estate

RE 232 Real Estate

- RE 233 Property Management (3-0) 3 hours

 This course is designed to provide the student with the knowledge and skills needed in managing income producing property. It includes the utilization of sound accounting and reporting principles; the securing, qualifying, and contracting of tenants and lessees; the legal aspects of property management; and the maintenance, rehabilitation, renovation, and remodeling of income-producing properties. Prerequisites: RE 131 and RE 134.
- RE 234 Real Estate Brokerage (3-0) 3 hours

 This course is a study of the factors necessary in the establishment and operation of a real estate sales and brokerage office, including required terminology and the salesperson-broker relationships. The course will prepare the student to identify and utilize effective practices in coordinating and promoting a successful real estate brokerage. Prerequisite: RE 131 and RE 231.
- RE 235 Real Estate Problems (3-0) 3 hours
 This course is designed to provide the sutdents with an opportunity to solve practical problems encountered in the real estate profession. The students will work in small groups with each student filling a different real estate position in the group. Each group will participate in problems which are assigned by the instructor and which will cover various facets of real estate practice. Prerequisite: Individual approval of the instructor.
- RE 117 Real Estate Internship (0-20) 1 hour The student is required to work at least 20 hours per week in a paid, part-time job in an approved firm. Real estate broker's offices, title companies, real estate mortgage companies, and building construction companies are examples of firms which normally will be approved as internship training stations. Students must be employed in occupational situations in which they receive practical training and experience compatible with their real estate career objectives. Enrollment in this course is limited to those students who have not had prior real estate work experience. Prerequisite: No less than 15 semester hours of course work in Real Estate course.

Refrigeration and Air Conditioning

The heating and air conditioning industry is one of the fastest growing in the world today. Food preparation and storage, personal comfort, medical procedures and industrial processes have been radically changed and improved by refrigeration. At present the demand for trained personnel has far exceeded the supply, and every new phase of the industry creates greater demands.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Math 131, 131t, or More A	dvnaced3	DT 141 or Engr 131	4 or 3
Orientation 111	1	P.E.*	1
P.E.*	1	R/AC 133	3
R/AC 131	3	R/AC 133a	3
R/AC 131a	3	R/AC 134	3
R/AC 132	3	R/AC 134a	3
R/AC 132a	3		

Summer Session

First Term	Second Term	
Engl 131 3	Engl 132 or Spch 234 3	
R/AC 135 3	R/AC 235 3	

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Govt	3	Mgt 131	
R/AC 231	3		
R/AC 231a	3	R/AC 233a	
R/AC 232	3		
R/AC 232a	3	R/AC 234a	

^{*}H Ed 131 or PE 132a may be substitued for the two 1-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of forty-eight semester hours in R/AC courses.

REFRIGERATION AND AIR CONDITIONING

R/AC 131 R	efrigeration Th	neory (3-0)	3 hours
This is	a course in th	eory and is d	esigned to
give the	e students a so	und basic und	erstanding
of heat	transfer, behav	ior of gases, th	ne refriger-
ation c	ycle, compone	nt parts of the	compres-
sion re	frigeration mad	hine and its ac	cessories.
Prereg	uisite: None.		

R/AC 131a Refrigeration Theory

R/AC 132 Basic Control Theory

R/AC 132a Basic Control Theory

R/AC 133 Refrigeration and Air Conditioning

R/AC 133a Refrigeration and Air Conditioning Component Analysis Laboratory

R/AC 134 Air Conditioning Fundamentals

 tems. This is an indepth study in procedure of servicing and correcting difficulties with gas-fired equipment. Prerequisite: None.

R/AC 134a Air Conditioning Fundamentals

R/AC 135 Fundamentals of Sheet Metal Pattern Drafting and Layout

R/AC 235 National Electric Code

R/AC 231 Advanced Control Theory

R/AC 231a Advanced Control Theory

R/AC 232 Refrigeration and Air Conditioning

R/AC 232a Refrigeration and Air Conditioning

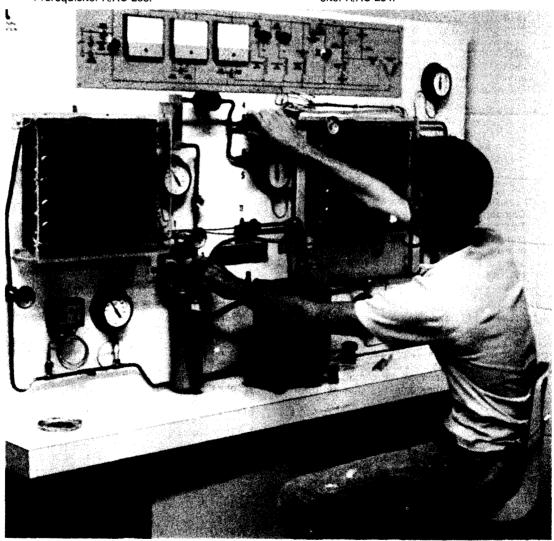
Refrigeration and Air Conditioning

R/AC 233 Electronic Control Theory

R/AC 233a Electronic Control Theory

R/AC 234 Refrigeration and Air Conditioning

R/AC 234a Refrigeration and Air Conditioning



Respiratory Therapy

Odessa College offers an intensive program in Respiratory Therapy Technology in affiliation with area hospitals. The program is designed to provide a thorough understanding and proficiency in all facets of pulmonary care. This relatively new profession in paramedical fields of medicine includes working with life-support systems, and respiratory rehabilitation of the pulmonary cripple.

The program curriculum is a balance of general educational and technical courses as well as a supervised clinical work in local hospitals under the direction of a registered therapist. Medical direction is provided by an M.D. with proficiency in the field of pulmonary medicine. This setting provides the student with an excellent opportunity for educational development as well as occupaitonal competence during the full two-year course of study.

Students are admitted prior to each fall semester on a selected basis because of limited space in the clinical area of study. Requirements for admission are high school graduation or its equivalent, satisfactory achievement on the college entrance examination, evidence of good health, personal interviews, character references and approval of the admissions committee for the program. The student must maintain a "C" average on all Respiratory Therapy courses and an average grade of "C" in all courses.

Students wishing to apply for admission or seeking additional information should contact the Department Chairman of the Respiratory Therapy Program. All applications for admission to the Fall Semester class must be received by the Departmental Chairman not later than June 15.

Course of Study for Associate in Applied Science Degree

First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
AH 133t	3	AH 121t	
Biol 111	1	AH 141t	4
Biol 143	4	AH 114t	
Chem 131 & Chem 111 .	4	Engl 131	
Math 131	3	PE	
Orientation 111	1	Elective	

Summer Session

First Term	Second Term
AH 115t	AH 132t
PE1	Engl 132 3

RESPIRATORY THERAPY TECHNOLOGY

Second Year			
Third Semester	Fourth Semester		
Course Sem. Hrs. AH 231t 3 AH 234t 3 AH 251t 5 Govt/Hist 3 Mgt 233 3	Course Sem. Hrs. AH 212t 4 AH 233t 3 AH 236t 3 Biol 244 4 Psy 231 3		
Summer	Session		
First Term	Second Term		
AH 218t	AH 219t 1		
*AH courses must be taken in order listed in course of study. RESPIRATORY THERAPY			
AH 114 T Clinical Practicum I (0-101 hour Under close supervision the student will gain experience in clinical application of respiratory therapy techniques. Prerequisites: None. Corequisites: AH 121T & AH 141T.	cesses have on the cardiopulmonary system; and a description of the general nature of treatment. Physicians and other recognized professionals will be invited as guest lecturers in this course. Prerequisites: Biol 133 and Biol 134.		
AH 115 T Clinical Practicum II (0-25) 1 hour Under close supervision will begin to develop proficiency in administering respiratory therapy procedures and individual skills and techniques. Prerequisites: AH 114T & AH 141T.	AH 133 T Medical Physics (2-2) 3 hours This course is a study of basic principles of physics as applied to Respiratory Therapy Technology. Included in this course is the study of gas laws, vapor pressures, heat, fluids,		
AH 121 T Introduction to Pharmacology (2-0)	forces and medical instruments. Corequisites: Math 131 & Chem 131 and 111.		
to pharmacological principles and their applications in medicine. The course includes general principles of sedatives and hypnotics, analgesics, central nervous system stimulants, drugs affecting the autonomic nervous system and the cardiovascular system and water and salt balance. Prerequisites: AH 133T, Math 131 & Biol 111. Corequisite: AH 141T.	AH 141 T Fundamentals of Respiratory Therapy I (4-3)		

- AH 132 T Cardiopulmonary Pathophysiology
 - dent the abnormal conditions of the cardiopulmonary system and the effects these conditions produce. It will include: pathophysiology; definition of the various disease processes affecting the cardiopulmonary system; a description of the effects these pro-
- the structure of the cardiopulmonary system and use respiratory equipment. Prerequisite: AH 133 and Math 131.
- AH 212 T Case Study Seminar (1-0) 1 Hour This course will consist of case study presentation by the student. The respiratory therapy faculty, the medical director and the students will have the opportunity to discuss and evaluate each case as presented. Prerequisite: AH 141T, AH 251T and AH 234T.

RESPIRATORY THERAPY TECHNOLOGY

AH 218 T Clinical Practicum V (0-25) 1 Hour Continuation of Clinical Practicum IV. Student will perform independently in the intensive care, coronary care areas. Prerequisite: AH

AH 219 T Clinical Practicum VI

Clinical practic involving direction of hospital technicians, organizing work schedules and challenging the departmental organization. A one hour seminar discussing; budgeting, ordering and justifing equipment needs. Prerequisite: Mgt. 233.

AH 231 T Pulmonary Function Technology

This course will consist of the theoretical basis for pulmonary laboratory physiological testing of lung functions and blood-gas analysis. The use of these procedures will be stressed and related to their clinical value in treatment of cardiopulmonary diseases. The students will be allowed to perform and calculate lung function studies and blood-gas analysis. Prerequisite: AH 251T. Corequisite: AH 234.

AH 233 T Cardiopulmonary Dynamics

(3-2) 3 Hours This course is a study of advanced concepts related to electrocardiography, cardiaccatheterization, respiratory rehabilitaiton and Hyperbaric oxygenation. Prerequisite: AH

AH 234 T Clinical Practicum III (0-25) 3 Hours This course will consist of applying the theory of respiratory therapy in internal medicine,

pediatrics and obstetrics emphasizing respiratory physiology; with associated clinical practice rotation in medical intensive care units, emergency rooms. Prerequisite: AH 115T.

AH 236 T Clinical Practicum IV (0-25) 3 Hours

This practicum gives the student an opportunity to develop his skills and abilities in applying the various techniques and procedures and to learn good clinical judgement. The student will rotate and practice the art in all areas of the hospital. At this time, the student is performing as a staff member in the department, developing his skills and minimal supervision is required. Prerequisite: AH 234T.

AH 251 T Fundamentals of Respiratory Therapy

II (3-5) 5 Hours An extensive survey of ventilators, including classification, application as intermittent therapy units, principles of operation, maintaining and repair will be studied. Also included is an introduction to ventilator usage in the clinical environment. The students will perform comparative studies using ventilators in conjuction with simulated lung device. Prerequisite: AH 141T.

Social Sciences

The Social Sciences deal with the three basic relationships which mankind has dealt with since the dawn of time. Those relationships involve man with his fellow man (History, Economics, and Government.); man with himself (Philosophy); and, man with God (Religion). No one could challenge the effect that philosophers, historical events, political theories, economic ideas, or religious concepts have had on the lives of men.

The four-semester curriculum outlined below leads to an Associate in Arts Degree. The Social Sciences provide the student with the analytical tools needed to become an effective participant in our democratic society, as well as opening the coor to various career opportunities. A background in the Social Sciences is particularly suitable to government employment such as the Social Security administration, social welfare employment, the Federal Reserve banks, and other types of government career jobs. The Social Sciences also provide a background that is useful for a career in business and the professions.

Course of Study for Associate in Arts Degree

First Year

Second Semester

First Semester		Gecond Geniester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Eco 231	3	Eco 232	
Engl 131	3	Engl 132	
Hist 131	3	Hist 132	
Lang 141	4	Lang 142	
Math 134 or More Adv	vanced3	Math 132 or More	Advanced3
Orientation 111	1	PE	
PE	1		

Second Year

Third Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl (Sophomore Level)	3	Engl (Sophomore Level)	
Hist 231*	3	Hist 232*	3
Govt 231	3	Govt 232	3
Lang 231	3	Lang 232	3
PE	1	PE	1
Approved Elective**	3	Approved Elective**	3

^{*}Hist 233 may be substitued for either Hist 231 or 232.

^{**}Approved electives are Hist 233, 234, and Soc 234.

SOCIAL SCIENCES

ECONOMICS

Eco 230 Introduction to Economics

- Eco 231 Principles of Economics (3-0) ... 3 hours
 This course is designed to provide the student
 with the fundamental analytic concepts of
 economic theory and practice. Emphasis is
 placed on microeconomic theory. Topics include basic theory, price and output determination under varying conditions, and income
 distribution and factor prices. Prerequisite:
 None.
- Eco 232 Economic Problems (3-0) 3 hours
 This course attempts to provide the student with the basic analytic concepts relevant to the aggregate economy. Emphasis is placed on macroeconomic theory and practice. Topics included in this course are money and banking, national income and employment, economic growth, public spending, and the international economy. Prerequisite: None.

GOVERNMENT

Govt 231 State and Federal Government

Govt 232 State and Federal Government

HISTORY

Hist 131 History of Modern Europe

Hist 132 History of Modern Europe Since

Hist 231 United States History to 1877

Hist 232 United States History from 1877

Hist 234 Afro-American History (3-0) 3 hours
A brief survey of the role and contributions of
Afro-Americans to the development and culture of the United States. Prerequisite: None.

SOCIAL SCIENCES

PHILOSOPHY

Phil 231 Introduction to Philosophy

(3-0) 3 hours The introductory course in Philosophy is an adventure in ideas. Ultimate questions about the significance of our lives will be asked anew and with the insights gleened form the world's greatest philosophers each student will seek to clarify their own ideas and beliefs concerning themselves, their world, and their ultimate destiny. Prerequisite: None.

Phil 232 Philosophies to Live By (Ethics)

(3-0) 3 hours An introduction to ethical theories based on answers given by the world's great philosophers to the questions, "What makes acts right?" and "what is the good life?" The nature of goodness, duty, and freedom will be discussed and selected ethical problems will be considered in the light of each of these basic ethical systems. Prerequisite: None.

RELIGION

- Bib 111 Acts of the Apostles (1-0) 1 hour This course is a study of the expansion of Christian beliefs, practices, and fellowships from Palestine to outlying parts of the Roman Empire. It includes a personality study of Peter, John, Paul, and other apostles. Prerequisite: None.
- Bib 131 Old Testament History (3-0) 3 hours This is an introductory survey of the Old Testament. Emphasis is placed on the historical setting, the types of religious literature, and the religious element underlying the whole. Prerequisite: None.

Bib 132 New Testament History (3-0) 3 hours This introductory survey of the New Testament places emphasis upon the life and teachings of Jesus as found in the Gospels, upon the expansion of early Christianity, with a brief study of Paul's epistles, the general epistles, and Revelation. Prerequisite: None.

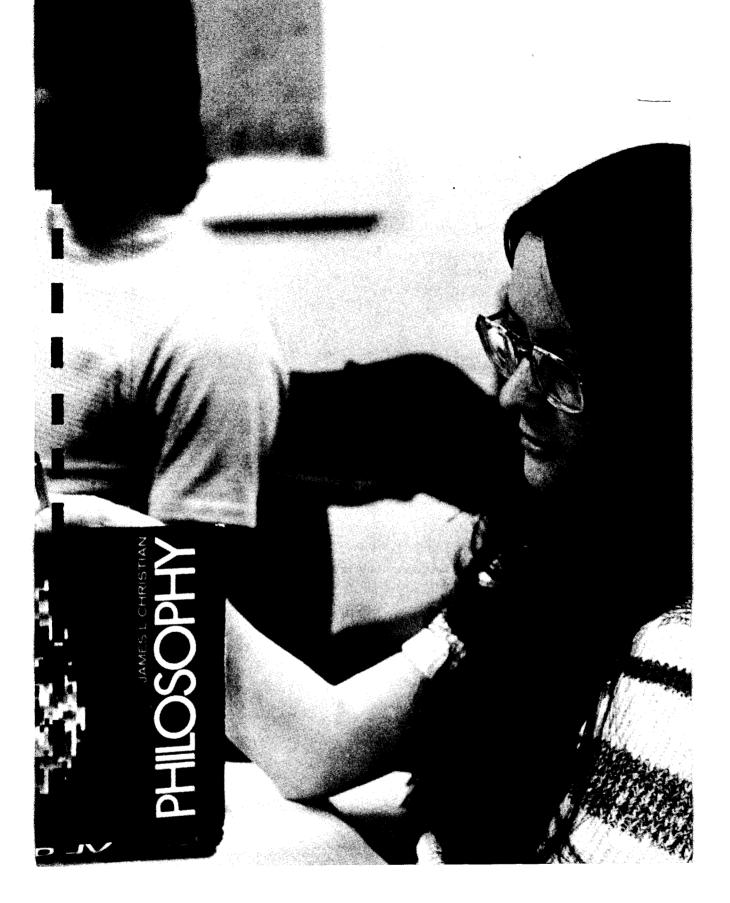
Bib 232 History of the Life of Chrsit

This course is a study of the life of Christ as portrayed by Matthew, Mark, Luke, and John. Prerequisite: None.

Bib 233 The Life and Letters of Paul

(3-0) 3 hours This course consists of a study of the life and ministry of the apostle Paul, and an examination of his writings and central ideas. Prerequisite: None.

- Relg 131 Philosophy of Religion (3-0) 3 hours An examination of the nature and meaning of religion and religious expression. Emphasis will be upon the development of religious thinking in western citilization. Typical topics will be faith and reason, religions authority, science and religion, the problems and implications of freedom, evil and conscience. Prerequisite: None
- Relg 132 History of Religion (3-0) 3 hours Historical investigation of the development of the world from prehistory to modern history. Emphasis will be placed upon role of religions in world history. Prerequisite: None.
- Relg 133 Comparative Religions (3-0) ... 3 hours A survey of the religions of the world. Included are status of Hinduism, Buddhism, Confucianism, Taoism, Shinto, Judaism, Christianity and Islam. Prerequisite: None.



Welding

Welding and cutting is one of the most important methods used in the fabrication and construction of products and structures made of metal. The welding program provides the student with sufficient skill in electric arc and gas welding procedures for entry employment in these occupations. Students completing the associate degree program will have sufficient background in mathematics, management, communications, blueprint reading, and layout to interpret engineers' plans and instructions, and to work as a supporting technician with a minimum of orientation.

Course of Study for Associate in Applied Science Degree First Year

First Semester		Second Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
DT 140 or DT 141	4	Math 131 or 131t	3
Orientation 111	1	PE*	1
PE*	1	WT 163	6
WT 161	6	WT 164	6
WT 162	6		

Second Year

inira Semester		Fourth Semester	
Course	Sem. Hrs.	Course	Sem. Hrs.
Engl 131	3	Engl 132 or Spch 234.	3
Mgt 131	3	Govt	3
WT 261	6	WT 263	6
WT 262	6	WT 264	6

^{*}H Ed 131 or PE 132a may be substituted for the two 1-hour physical education courses.

Students not desiring the AAS degree may receive a Certificate of Technology by completing a minimum of forty-eight hours in WT courses.

WELDING

WT 161 Basic Welding Fundamentals

Third Composion

WT 162 Basic Acetylene Welding (2-8)... 6 hours
This course deals with various types of welds in

all positions and the setting of oxy-acetylene equipment, cutting, metal preparation, plate and pipe welding. Prerequisite or Corequisite: WT 161.

WT 163 Electric Arc Welding (2-8) 6 hours
This course includes welding with major emphasis placed upon the proper execution of all-position V-groove carbon steel plate welding with "open stringer" and "back-up strap."
ASME testing standards will be used. Prerequisite or Corequisite: WT 162.

WELDING

WT 164 Welding Layout and Fabrication

WT 261 Advanced Arc Welding (2-8) 6 hours
Advanced arc welding includes the execution
of all types of welds on various types of metals
and the study of electrodes used. A continuation of fabrication and layout techniques with
major attention devoted to piping, forged fittings, structural principles, job planning, codes
and cost factors. Prerequisite or Corequisite:
WT 163.

WT 262 Advanced Acetylene Welding

Advanced acetylene welding deals with the application of hard surfacing, torch pressure on various alloys and the study of acetylene reg-

ulators and torches. Emphasis is placed upon related mathematics required for job planning and service requirements. Prerequisite or Corequisite: WT 261.

WT 263 Metallic Inert Gas Welding (MIG)

WT 264 Carbon arc and Tungsten Inert



College Organization

BOARD OF TRUSTEES

1976-77

Wm. Michael Furm	nan	President Vice-President
		Secretary Assistant Secretary
	O. R. Clements W. K. Green	James H. Gilliland Bill Masterson
	W. K. Green Phil Pa	
	ADMINIST	RATION
Lee R. Buice, B.A. Miles A. Eckert, B. Malcolm K. Hensle Sidney J. Holden,	, B.S., M.A., Ph.D	
B. Gayle Noll, B.A. Peter E. Petersen,	, M.A	Director of Informational Services Associate Dean of Adult and Continuing Education
		Dean of Instructional Administration Associate Dean of Occupational Programs
	DIVISION C	HAIRMEN
Kenneth H. Hurst, Robert P. Sturges,	B.S., M.S	
A	ADMINISTRATIVE AN	D SUPPORT STAFF
Norine Bledsoe, B. Clydia B. Bowser, David Carson, B.A. Kelly Cash, B.A., M	.A., M.A. B.S., M.A. ., M.S.	Purchasing Agent Director of Financial Aid Counselor Learning Resources Specialist Asst. to Dean of Admissions and Registrar Director of Adult Basic Education
176 College Orga	nization	

	Vicki Dublin, B.F.A., M.F.A.	
		Continuing Education
	Beulah Fleming	
	Debbie Floyd, B.S., M.S	Director of Student Activities
3	Fred E. Gaither, B.A., M.A.	Counselor
	Colleen Goodgame, A.S	Program Analyst Operator
	Roy H. Hart, C.C., B.S., M.Ed., Ed.D	
	Joe Hayes, B.B.A	
	Verlon Horn	-
	Martha E. Huff, B.A., M.S.L.S.	
	Horace W. McAdams	
	Reed W. McFarland, B.A	
	Patrick Murphy	
_	Bill M. Nelson, B.S., M.Ed., Ed.D.	
	Thomas E. Reynolds, A.S.	
	Derrie B. Roark, B.A., M.L.S.	
	Edwin A. Shipman, B.S., M.Ed., Ph.D.	
•	Joe Tave, B.S., M.S.	
ľ	Wm. M. Trussell, B.A.E., M.E., M.L.S., Ed.D Directo	
	W. Frank Wells, B.B.A	•
	Max White, B.S.	
	Melvin R. Whitehurst, B.S., M.Ed., Ed.D.	
	Clara L. Willis, B.S., M.Ed., Ph.D.	
	Oldra E. Willis, B.o., Wi.Ed., Fil.D.	Vocational Council
	FACULTY	
	Janis Adkins	ociate Professor of Vocal Music Tech University.
	Carolyn L. Anderson	
	David Lee Atherton Associate Profe B.A., University of Northern Iowa.	essor of Automotive Mechanics
	Lois E. Ball	
	Mary W. Barker Ass B.S., M.Ed., Sul Ross State University.	sistant Professor of Psychology
	Thomas D. Barnett Assistant Professo B.A., M.A., Texas Tech University.	or of Television and Journalism
	James K. Bates Assistant Professor of Refe A.A.S., Odessa College	rigeration and Air Conditioning

B.M., M.Ed., Sul Ross State University.
Norine J. Bledsoe
Clydia B. Bowser Counselor and Instructor of Personal Development B.S., Prairie View A&M University; M.A., University of Texas of the Permian Basin.
George G. Brazil Biology Paraprofessional A.A., Western Texas College, B.S., University of Texas of the Permian Basin
George W. Brewer
Rudolph A. Brewster
Virginia A. Brown
Joe C. Buice
David R. Carson Learning Resources Specialist B.A., Arkansas Polytechnical, M.S., East Texas State University.
Jack D. Chapman
M. Dulan Clegg
Vincent J. Coffey
Elaine Conlee
Jimmie Lou Conner
Luther L. Corder Associate Professor of Business Administration B.A., Eastern New Mexico University; M.B.A., West Texas State University.
Judith L. Cornes

Å.	Roger B. Corzine
	Gregory W. Craig* Lecturer of Medical Technology M.T. (A.M.T.), A.S., San Antonio College.
	David F. Dawson* Lecturer of Medical Technology B.S., Arkansas College; M.D., University of Arkansas
	Dorothy Dodd
- 1	Billie B. Duncan Department Head and Associate Professor of Office Education A.A.S., Odessa College; B.S., M.Ed., Sul Ross State University.
	Susan Elliott Learning Resources Paraprofessional B.S., Kansas Wesleyan University.
	Bonnie Genelle Felio Instructor of Child Development B.S., New Mexico State University.
	Peggy J. Fernandez Learning Resources Paraprofessional B.S., Adams State College
	James M. Fields Assistant Professor of Mathematics B.S., West Texas State University; M.S., Michigan State University.
	Peter A. Figert Associate Professor of Instrumental Music B.S., M.A., Ball State University.
	Debbie Floyd Director of Student Activities and Instructor of Personal Development
	B.S., M.A., East Texas State University.
	Clinton W. Forbes Assistant Professor of Mid-Management B.S., Wayland Baptist College, University of Texas of the Permian Basin.
	Imogene Freer
	Betty J. Friesinger
	Fred E. Gaither
	Nathan C. Galloway* Medical Director of Respiratory Therapy Program B.S., M.D., Tulane University.

Mary Jane Gentry			
Elizabeth K. Gillette Department Head and Professor of English B.S., M.S., Texas A. & I. University; Ph.D., East Texas State University.			
Gordon E. Gillette Department Head and Associate Professor of Psychology and Sociology			
B.A., Lycoming College; M.S., George Williams College.			
Mary L. Gilmour Associate Professor of Business Administration B.B.A., University of Texas at Austin; M.B.A., Texas Tech University.			
Lonnie E. Goodman			
Dana Graham Assistant Professor of Electricity, Electronics, and Drafting B.S., M.Ed., Southwest Texas State University.			
Jeffrey S. Guilmette			
Paul T. Haenelt			
Mary Joyce Harding Department Head and Assistant Professor of Home Economics			
B.S., Texas Woman's University; M.S., Texas Tech University.			
Celia C. Harris			
Roy H. Hart Director of Special Services and Professor of Personal Development B.S., Sul Ross State University; M.Ed., Abilene Christian College; Ed.D., East Texas State University.			
Thomas J. Heiting			
Jack W. Hendrix Department Head and Associate Professor of Music B.Mus., M.Mus., North Texas State University.			
Frederic B. Hertenstein Department Head and Assistant Professor of Respiratory Therapy			
(A.R.R.T.).			
Delmos L. Hickmott			
Truett L. Hilliard Associate Professor of History and Philosophy B.A., M.A., Eastern New Mexico University.			

Patricia L. Hodges Instructor of Physical Education and I the Senoritas de	
B.F.A., M.F.A., Southern Methodist University.	
Kathryn Hoppe	r of Music
Betty Jo Hudson	
B.S., Texas A. & I. University; M.A., Sul Ross State University.	
Martha E. Huff Learning Resource B.A., M.S.L.S., East Texas State University.	Specialist
Don L. Huff	
B.S., M.S., East Texas State University.	
Kenneth H. Hurst	
•	Faloration
Rita M. Hurst Associate Professor of Office B.S., M.S., East Texas State University.	
Peter D. Hyde Associate Professor of Compute B.A., Harvard University, M.S.E., University of Pennsylvania.	er Science
Betty Ruth Jackson Assistant Professor of R.N., Harris College of Nursing; B.S.N., West Texas State University.	of Nursing
Dorothy F. Jackson	of Nursing
Wallace R. Jackson	and Radio
John F. Johnson Department Head and Assistant Pr Machine Te	
Keith H. Johnson Director of the Planet Associate Professor of A	
B.A., Luther College.	_
Sammie Lou Johnson	nagement
Arthur Jones	y Therapy
George E. Jones	of English

Dick K. Kennedy Department Head and Associate Professor of Economics and Government
B.S., M.A., West Texas State University.
Ashok Khosla
Jack E. Kitzmiller
Daryl F. Lane, Jr
Billy Jack Lawrence
Carolyn Sue Leach* Lecturer of Radiologic Technology A.A.S., Odessa College; R.T. (A.R.R.T.).
Justin P. LeVasseur* Medical Director of Radiologic Technology Program B.S., M.D., Louisiana State University.
Willie M. Longoria* Lecturer of Respiratory Therapy A.A.S., Odessa College; C.R.T.T.
G. Brent McAfee Assistant Professor of Geology A.A., Odessa College; B.S., M.A., Sul Ross State University.
Jean M. McColloch
L. E. McColloch
Darlyne McFall Instructor of Speech B.A., M.A., Texas Tech University.
Annette A. McMinn* Lecturer of Medical Technology M.T. (A.S.C.P.), B.S., Texas Tech University.
James R. Mason
B.S., Seton Hall University; M.A., New Jersey State College at Montclair.
Eva. M. Mauldin
Ronald D. Mayberry Instructor of Physical Education and Men's Basketball Coach
B.S., Texas Christian University, M.Ed., West Texas State University.

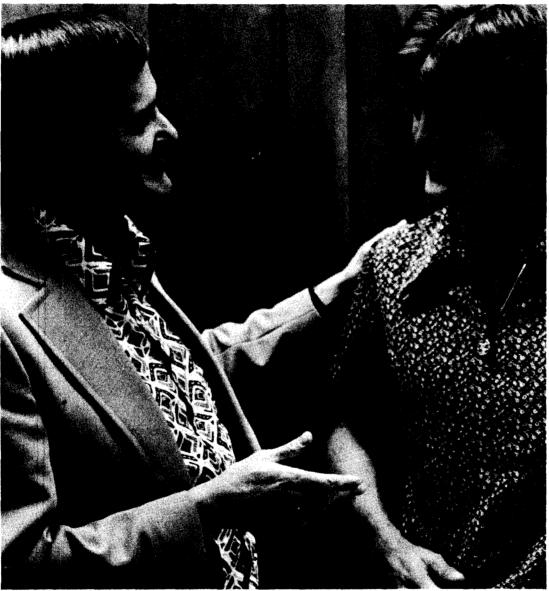
William J. Michalka, Jr. Professor of Business Administration B.A., University of Texas at Austin; M.A., Sam Houston State College. Ph.D., North Texas State University. Owen B. Monette Department Head and Assistant Professor of **Automotive Mechanics** William Murchison Assistant Professor of Journalism and Photography B.S., Stephen F. Austin State University; M.S., Illinois Institute of Technology. Bill M. Nelson Veterans Recruiter-Coordinator B.S., Baylor University; M.Ed., North Texas State University, Ed.D., North Texas State University. Donald C. Nichols Professor of Speech and Director of Forensics B.A., Westmar College; M.A., Temple University; Ed.D., Nova University. Charles C. Nicolette*..... Lecturer of Radiologic Technology B.S., M.D., Ohio State University. Marc A. Nigliazzo Professor of English B.A., University of Texas at Austin; M.A., Texas A. & M. University; Ph.D. University of New Mexico. Oliver G. Nordmarken Department Head and Professor of Law Enforcement LL.B., J.D., University of North Dakota. Edward W. Orton Department Head and Associate Professor of Geology B.S., University of Oklahoma; M.S., Louisiana State University. Maxine Parks Assistant Professor of Nursing R.N., St. John's Hospital School of Nursing; B.S.N., University of Texas at Austin. Charles R. Payne Department Head and Assistant Professor of Diesel Mechanics. Betty S. Peak Associate Professor of Psychology B.S., McMurry College, M.Ed., Ed.D., Texas Tech University. Edwin Barry Phillips, Jr. Department Head and Assistant Professor of Art B.S., M.Ed., Texas Tech University. R.N., B.S., Texas Woman's University. Ned Pilcher Assistant Professor of English B.A., Texas Tech University; M.A., West Texas State University. Robert Bruce Porter Assistant Professor of History and Sociology B.S., M.A., Eastern New Mexico University. Billy Powell Assistant Professor of Diesel Mechanics A.A.S., Galveston College.

John T. Price Assistant Professor of Building T	rades
Karen K. Redwine	rsing
Thomas Matthew Rees	anish
Helen K. Reinhart	ment
L. Glen Richardson Associate Professor of Cher B.A., Hardin Simmons University; M.A., University of Texas at Austin.	nistry
Mary E. Richardson	nistry
Mary L. Roach Assistant Professor of Er B.A., Mary Hardin Baylor College; M.A., University of Texas at El Paso.	nglish
Derrie B. Roark Learning Resources Special B.A., M.L.S., Louisiana State University.	cialist
Norman R. Robinson Instructor of Machine Technology	ology
R. Barry Rodenhaver Assistant Professor of Physical Educa Athletic Director, and Golf C B.S., Penn State University; M.A., University of Maryland.	
Robert Rountree III*	
B.S., McMurry College, M.D., University of Texas	
Kay Rutherford	
Carol Ann Sassin Associate Professor of Office Educ B.B.A., M.B.A., Sam Houston State University.	ation
Phyllis Schaefer	irsing
Betty L. Seeker	rsing
James L. Segrest	Soach
William Leon Sherman Assistant Professor of Business Administr B.B.A., Sam Houston State College; M.A., Sul Ross State College.	ation
Edwin A. Shipman Counselor and Professor of Personal Develop B.S., M.Ed., Texas Tech University; Ph.D., Northern Colorado University.	ment

George E. Sivertson Program Director and Instructor of Radiologic Technology R.T. (A.R.R.T.). Clyde Frank Smith Department Head and Professor of Biology B.S., M.S., University of Illinois; Ph.D., Cornell University. Joel D. Smith Program Director and Associate Professor of Medical Technology B.A., The University of Texas at Austin; M.T. (A.S.C.P.). Roxie Stell Department Head and Associate Professor of Nursing R.N., B.A., Michigan State University; M.Ed., Sul Ross State University. Nancy Stewart Office Education Paraprofessional B.B.A., Baylor University. Wray D. Storey* Medical Director of Medical Technology Program B.S., Geneva College; M.D., Duke University. Sidney Streicher Department Head and Associate Professor of Mid-Management B.S., University of Houston; M.Ed., University of Texas at El Paso. Nancy Sturges Assistant Professor of Office Education B.A., Wheaton College; M.S., California State College at Fullerton. Robert P. Sturges Chairman, Human Development Division and Associate Professor of History B.A., University of Redlands; M.A., Chapman College. Charles E. Sweatt Department Head and Instructor of Mathematics B.S., M.S., West Texas State University. E. Donald Taylor Department Head and Professor of Chemistry B.S., University of Texas at Austin; Ph.D., Texas Tech University. Paul G. Tittle Assistant Professor of Mid-Management B.A., Sam Houston State University. Wm. M. Trussell Director of Instructional Development B.A.E., M.E., University of Mississippi, M.L.S., D.Ed., East Texas State University. Imogene Vaught Assistant Professor of English A.A., Odessa College; B.A., M.A., Texas Tech University. Hugh L. Waldrum Assistant Professor of Mathematics B.S., Sul Ross State University, M.A., University of Texas at Austin. Jean L. Wallman Instructor of L.V.N. Nursing (Alpine) R.N., Milwaukee County Hospital School of Nursing. Janet R. Watlington Instructor of Nursing R.N., B.S., Texas Woman's University.

Maureen D. Watson
Kenneth Weekes Department Head and Associate Professor of Welding A.A., Ranger Junior College.
Doyle L. Weldon Department Head and Instructor of Physical Education B.S., West Texas State University; M.A., Northeast Missouri State College.
Fred Wemple
Georgann Wemple
Melvin Whitehurst
Lynn Whitson
Stanley C. Williams
Clara L. Willis Counselor and Professor of Personal Development B.S., M.Ed., Southwest Texas State Teachers College; Ph.D., Texas A&M University.
George E. Willis
Texas A&M University.
Michael R. Willson Associate Professor of Physical Education and Gymnastics Coach
B.S., M.A., Ohio State University.
Anna F. Winn Assistant Professor of Nursing R.N., B.S., University of Houston; M.S., University of Colorado.
Norman L. Witcher Department Head and Associate Professor of Refrigeration and Air Conditioning
C.C., Amarillo College.
J. Michael Woods* Lecturer of Medical Technology B.S., Angelo State University; M.T. (A.S.C.P.).
William W. Worrell

*Honorary Faculty Members. The title of Lecturer is awarded to those faculty who make a substantial voluntary contribution of time and effort to the instructional programs of the College.

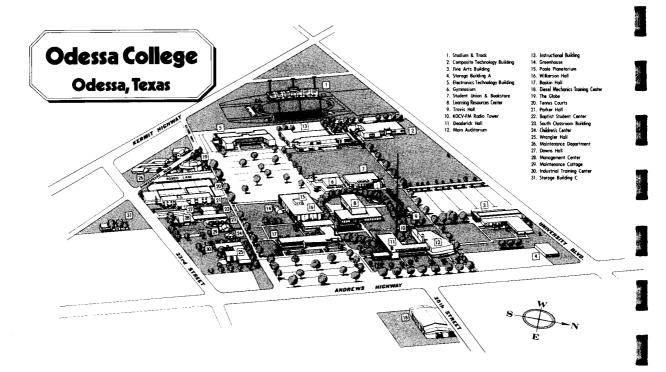


Index

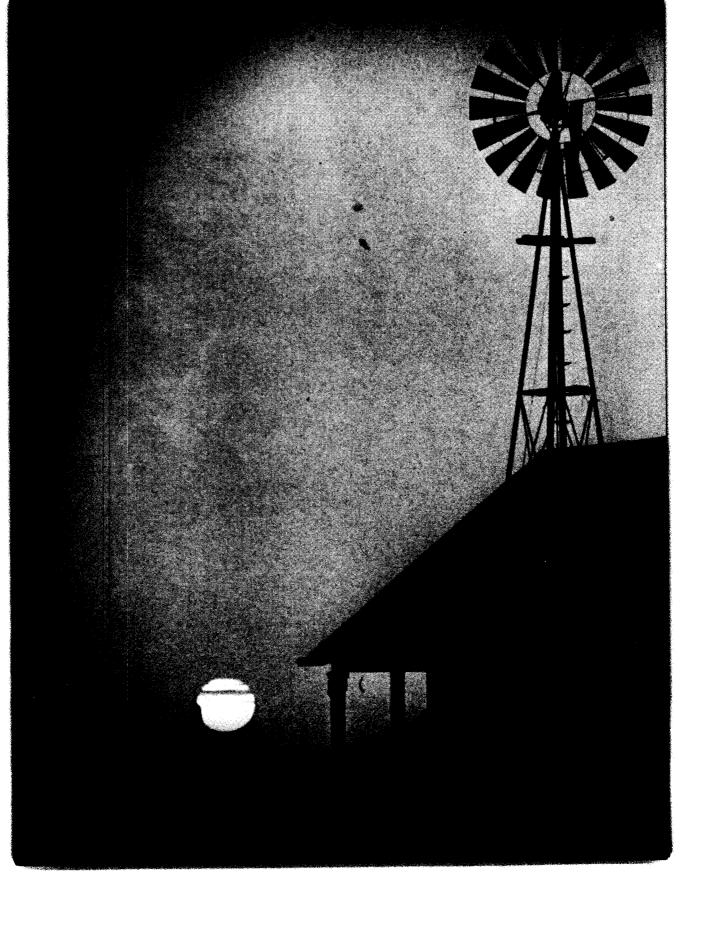
Absences and Class Attendance 28	Course Load	
Accounting	Credit by Examination	29
Accreditation 6	Data Processing	83
Address Change	Dentistry	
Administration	Deposit	15
Administrative Withdrawal	Diesel Mechanics	76
Admission Information 12	Dormitory Facilities	20
Adult Basic Education	Drafting	
Adult and Continuing Education 32	Drama	67
Advance Standing Examinations	Early Admissions Program	29
Air Conditioning	Earth Science	
Anthropology	Economics	
Art	Education, Course of Study1	
Associate in Applied Science	Flectrical and Flectronics	
Degree	Technology	ደሰ
Associate in Arts Degree	Electronic Data Processing	22
Associate in Fine Arts Degree		03
Associate in Fine Arts Degree35	Elementary Education	
Associate in Science Degree 34	Course of Study	22
Astronomy	Emergency Medical Technology	86
Athletics	Engineering	90
Auditing14	English1	07
Automotive Mechanics 44	Entrance Examinations	
Basketball	Equal Opportunity	
Band 22	Evening Classes	31
Basic Educational Opportunity Grant 17	Extension Centers	
Bible Courses	Faculty 1	
Biology 46	Fashion Merchandising	21
Board of Trustees	Federally Insured Loans	18
Building Trades52	Financial Aid	16
Business Administration54	Fire Protection Technology	
Calendar	Foreign Language1	08
Campus Map	Forensics	
Certificate of Completion36	GED Examination	
Certificate of Technology36	Geography	
Change of Address14	Geology	
Chemistry	German	
Child Development61	Golf	
Choir	Government 1	
Class Attendance	Grade Point Average	
Classification of Students	Grades	
Clerical Certificate Program	Gymnastics	
Clubs and Organizations	Health Education 1	
College Work-Study Program	Hinson Hazlewood Loan Program	
College Organization		
	History Courses	
Commercial Photography	History of Odessa College	. 4
Communication and	Home Economics	
Theatre Department	Honor Roll	
Community Service Courses	Housing and Food	
Compact Semester	Humanities	
Computer Operations	Incomplete Grades	
Counseling Center 20	Industrial Instrumentation	01

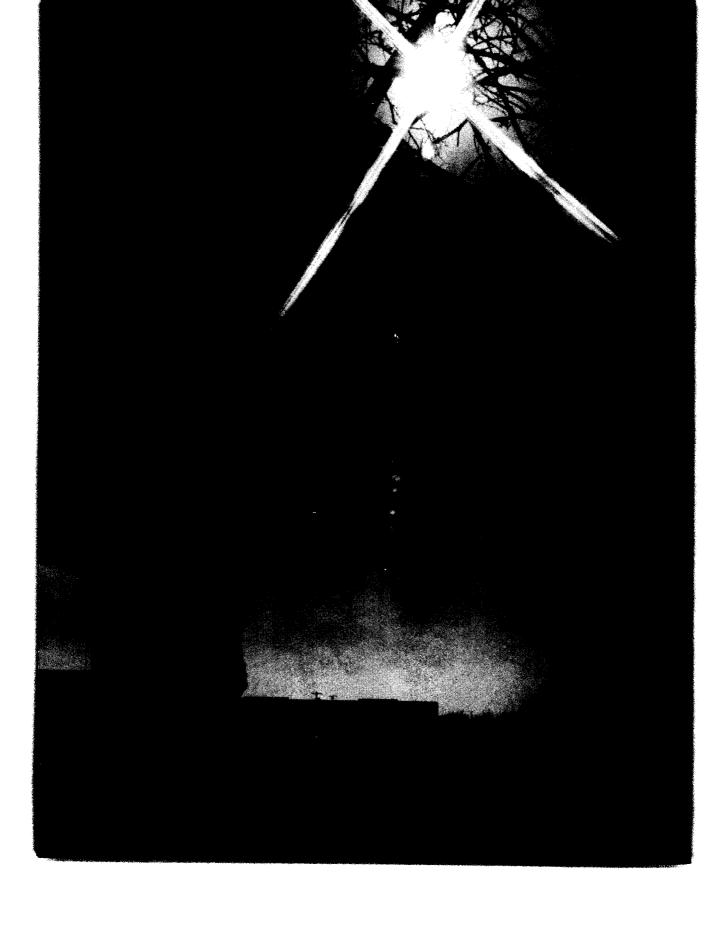
	Industrial Supervision	Refrigeration and	
	Insurance Courses	Air Conditioning	164
	Interim Session	Refund of Tuition	16
	Intramurals	Religion Courses	173
	Journalism	Registered Nursing	
İ	Law Enforcement Courses 105	Respiratory Therapy	
,	Law Enforcement	Technology	167
	Education Program (LEEP) 18	Schedule Change	
	Learning Resources Center	Scholarships	
	Legal Secretarial Education	Scholastic Standards	27
ł	Literature and Languages Department 107	Secondary Education	21
	Loans	Course of Study	166
	Machine Shop	Secretarial Science	
	Machine Chamband		
	Machine Shorthand	Senoritas de las Rosas	
	Management	Shorthand	
	Map190	Social Science	
	Marketing Management	Sociology	
	Mass Communication	Spanish	
	Mathematics 113	Speech	
	Mathematics for	Stenography	
	Business Administration 56	Student Activities	
	Medical Laboratory	Student Assistance	
	Technology116	Student Congress	
	Medical Office Education141	Student Handbook	
	Medicine, Course of Study47	Student Life	20
	Mid-Management	Student Publications	22
	Midwinter Session	Student Services	20
	Music	Summer Session	32
	Nursing	Supplementary Educational	
	Nursing Assistant	Opportunity Grant	17
	Nursing Student Scholarships	Suspension Policy	
	and Loans18	Technical and Vocational	
	Organization and Staff	Occupational Programs	31
	Office Education	Television	72
	Optometry	Tennis	
	Pharmacy	Texas Public Education Grant	
	Philosophy Courses	Theatre	
	Photography	Track	
	Physical Education	Transcript	
	Physics	Transfer of Credit	30
	Police Science	Trustees	
		Tuition and Fees	
	Pre-Dentistry	Tuition Grants	
	Pre-Medical	Typewriting	
	Preregistration		
	Pre-Veterinary Medicine	Valedictorian Scholarship	
	Probation Policy	Veteran's Benefits	
	Psychology	Veterinary Medicine	
	Purpose of Odessa College	Vocational Nursing	100
	Radio-Television	Vocational Rehabilitation	
	Radiologic Technology	Welding	
	Reading	Withdrawal from College	
	Real Estate	Work-Study Program	
		X-Ray Technology	158

Campus Map



An Equal Opportunity College





Produced by the Odessa College Informational Services Office







