



BULLETIN

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Spring 1994

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An Equal Opportunity College

Rodney Hernandez

ODESSA COLLEGE BULLETIN 1994-1995

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HISTORY:

Odessa College Opened in <u>1946</u>

The past of Odessa College is interwoven with growth and progress. A review of the history of the college 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, the enrollment of the college, its programs and its services have grown steadily through the last 48 years. The various curricula, programs and services offered by Odessa College now enroll more than 21,000 people during a single school year. During a long semester, approximately 5,000 students are enrolled in the university-parallel and occupational-technical credit courses. During the same semester, thousands of

other students are enrolled in continuing education courses.

Many university-parallel courses are offered for students planning to complete four-year degrees at senior colleges or universities. Most university-parallel courses are freely transferable to four-year and upper-level institutions. Former Odessa College students have a phenomenal record of success in the fields of accounting, law, medicine, music, public administration and teaching.

More than 30 occupational/technical programs are offered at the college and additional ones are planned to meet the needs of citizens who want to learn new or improve existing skills. Approximately one-half of the students are enrolled in occupational/technical programs.

Initially housed in temporary quarters in the old Odessa High School, the first classes of Odessa College were conducted after public school hours in late afternoons and evenings. Ector County taxpayers purchased a five-acre plot in the 2500 block of the Andrews Highway and in 1949 authorized the building of Baskin Hall, the first permanent structure for the institution.

The campus grew to 15 buildings on a 35-acre plot by 1960. Today, the \$50 million campus spreads over 80 acres and includes some 25 buildings that house more than 150 classrooms, laboratories and other facilities.



A \$7 million Sports Center with more than 110,000 square feet of floor space was opened in 1984 to house athletics, physical education and community recreation activities.

In 1986, KOCV-TV, Channel 36, carried on Channel 13 by the local cable company, officially signed on the air with quality public television programs. In 1989, KOCV-FM, the college's radio station, began airing National Public Radio programming.

Among recent additions is the W.D. Noel Center, donated by the Rexene Corp. in 1989 and located in downtown Odessa. With more than 40,000 square feet, Noel Center houses Adult Basic Education and the Business Incubator. In 1993 the Cosmetology Department moved into its own building at 200 W. University.

As the college has grown, so has its effectiveness. Quality education and academic excellence have long been hallmarks of Odessa College. As community needs change, Odessa College will restructure its programs to better serve its constituents.

Odessa College is a mature college with a youthful spirit, and the institution is proud of its heritage. It sees its successful past as a strong foundation for an even greater future.

Odessa

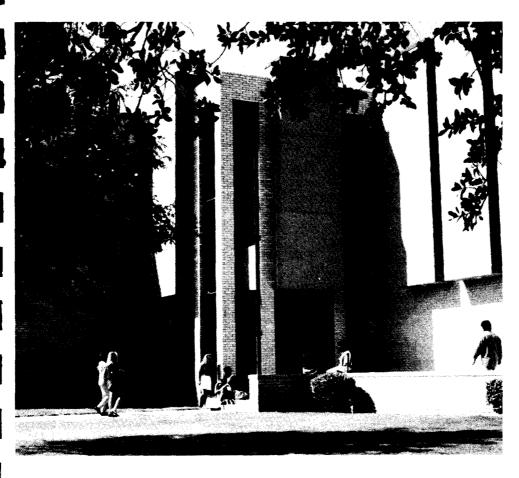
Odessa College is located in Odessa, Texas, a progressive West Texas city of more than 100,000 people midway between Fort Worth and El Paso.

Odessa is a cultural, recreational, educational, medical, retail and wholesale trading center for a region as large as several Eastern Seaboard states combined. Two hospitals provide a wide variety of medical services for the region, and the Texas Tech Regional Medical School is adjacent to Medical Center Hospital, providing additional health opportunities.

Odessa boasts a daily newspaper, five television stations, 18 radio stations and

more than 150 churches. Students completing their studies at Odessa College may continue their education at the University of Texas of the Permian Basin (UTPB), which offers baccalaureate and master's degree programs. Numerous cultural, intellectual and recreational activities are available for the area's citizens.

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



Odessa College's Mission

Our mission as trustees, administrators, faculty, and staff at Odessa College is to provide the finest educational opportunities possible for all Ector County area residents. As a comprehensive community college, OC provides a full range of educational services within the limits of available financial, physical, and human resources. Educational programs and services are designed to help people achieve their individual potential, to enrich their lives and to help them become responsible and productive members of society.

To achieve our primary mission, we are committed to providing a quality academic program that offers 1) the first two years of college and pre-professional programs to prepare students within a field of study for further education, 2) occupational-technical training to provide students with the comprehensive skills and knowledge required in specialized fields, 3) general and developmental education to prepare students for effective involvement in society, 4) a continuing education division that quickly responds to local needs and desires, and 5) personal enrichment. At OC we demonstrate our ongoing commitment to academic excellence by employing a qualified faculty and staff; by providing adequate facilities, equipment, and learning resources; by providing small personalized classes; and by having successfully prepared thousands of students to move on to universities and employment.

Since OC serves an increasingly diversified society, our admissions policy assures educational opportunities for every person who has the desire and capacity to profit from post-secondary education, regardless of race, religion, gender, handicap, or economic status. We also are committed to reflect local diversity among our students, faculty, and staff in order to create a climate that responds to and enriches our varied student body.

We realize that college life is not limited to the academic area. We care about the comprehensive development of students and want to be involved in student success in the broadest possible sense. To help ensure our students achieve this success, we try to maintain a nurturing environment, and we dedicate a substantial portion of the college's resources to a qualified counseling staff that provides academic, career, and

personal guidance. Moreover, we provide financial aid services, health services, sports facilities, and a variety of activities including intercollegiate and intramural athletics, art exhibits, concerts, dances, and speakers.

As part of the commitment to our primary mission, we recognize the essential role our institution must play in the cultural and intellectual life of the general community. OC maintains a long-standing tradition of involvement in the greater community and has served a remarkable proportion of the population over the years. Attesting to our tradition of community involvement is OC's sponsorship of Adult Basic Education, which provides adult literacy programs, GED, the high school diploma, English as a second language, preparation for U.S. citizenship, and other training. Our Continuing Education division provides short-term vocational training tailored to meet specific local business needs, updates training for professional and vocational occupations, and provides other training in other nonvocational and practical skills required for keeping up with rapid technological advances in the community as well as for personal enrichment and wellbeing. Furthermore, we provide off-campus extension centers and instructional telecourses to meet post-secondary needs of the outlying Permian Basin, public radio and television stations, and an intercollegiate athletics program. We also extend a standing invitation to all Permian Basin residents to share OC's facilities and cultural events.

At OC, our educational philosophy grants all faculty members the liberty to conduct instruction as they judge most appropriate within the bounds of instructional effectiveness and academic responsibility. To protect faculty members and their individuality, we subscribe to a clearly stated policy of academic freedom.

As part of OC's mission, we also accept a responsibility to college employees. To this end, the college offers staff development, wellness and retirement programs, employee health and disability insurance, access to cultural and sporting events and facilities, and vacation and sick leave. Additionally, as resources allow, we are committed to identifying new and innovative ways of stimulating professional and personal development of all OC employees.

1994 COLLEGE CALENDAR

Summer 1994 (During the summer, Odessa College operates on a four-day week and closes on Friday)

Summer I

Early Registration	April 25-29 (Mon-Fri)
Holiday (Memorial Day)	
Registration	
Classes Begin	
Late Registration	
Last Day for Schedule Changes	June 7 (Tues)
Fourth Class Day	June 9 (Thurs)
Last Day to Drop or Withdraw With a "W"	June 29 (Wed)
Holiday	July 4 (Mon)
Last Class Day	July 12 (Tues)
Final Exams, End of Term	

Summer II

Early RegistrationA	pril 25-29 (Mon-Fri)
Registration	
Classes Begin	
Late RegistrationJuly	
Last Day for Schedule Changes	
Fourth Class Day	July 20 (Wed)
Last Day to Drop or Withdraw With a "W"	
Last Class Day	Aug 18 (Thurs)
Final Exams, End of Term	

Fall 1994

<u>Faii 1994</u>
Early RegistrationApril 25-29 (Mon-Fri)
Early Registration (cont'd)July 27 - Aug 11 (Wed-Thurs)
Payment Deadline for Early RegistrationAug. 15 (Mon)
Nine Month Faculty ReturnAug 22 (Mon)
Registration for New Students OnlyAug 18 (Thurs)
Registration for Returning StudentsAug 23 (Tues)
Classes Begin at 5 p.mAug 24 (Wed)
Late RegistrationAug 25 - Sep 6 (Thur-Tues)
Last Day for Schedule ChangesSept. 6 (Tues)
Holiday (Labor Day)Sept 5 (Mon)
TASP Administration Sept. 17 (Sat)
Mid-SemesterOct 18 (Tues)
Deadline for Fall Degree ApplicationNov 4 (Fri)
Last Day to Drop or Withdraw With a "W"Nov 11 (Fri)
TASP Administration Nov. 12 (Sat)
Thanksgiving Holiday (Begins at 5 p.m.) . Nov 23-26 (Wed-Sat)
Early Registration for Spring
and MidwinterNov 28 - Dec 9 (Mon-Fri)
Last Class Day Dec 9 (Fri)
Final Exams Dec 12-15 (Mon-Thurs)

End of SemesterDec 16 (Fri)

for 12 month employees Dec 19-30 (Mon-Fri)

Christmas Holiday

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1995 COLLEGE CALENDAR

Midwinter Session 1994-95

Registration	Nov 28 - Dec 9, 1994 (Mon-Fri)
	8-9:30 a.m., Dec 27 (Tues)
	8-9:30 a.m., Dec 27 (Tues)
First Class Day	Dec 27 (Tues)
Last Day to Drop or Withdraw	With a "W"Jan 6 (Fri)
Final Exams, End of Term	Jan 11 (Wed)

Spring 1995

	
Early Registration	. Nov 28 - Dec 9 (Mon-Fri)
Offices Open	
Twelve Month Faculty Return	
Nine Month Faculty Return	
Registration for New Students	
Registration for Returning Students.	
Holiday (Martin Luther King Day)	
Classes Begin	
Late Registration	
Last Day for Schedule Changes	Jan 26 (Thurs)
Deadline for Spring Degree Applicati	
Mid-Semester	
Spring Break	March 13-17 (Mon-Fri)
Last Day to Drop or Withdraw With a	. "W" April 7 (Fri)
Early Registration for Fall	April 24-28 (Mon-Fri)
Last Class Day	May 5 (Fri)
Final Exams	
Graduation Day	

Summer 1995

Holiday (Memorial Day)	May 29 (Mon)
Registration	
Classes Begin	
Late Registration	June 5-6 (Mon-Tues)
Last Day for Schedule Changes	June 6 (Mon)
Last Day to Drop or Withdraw With a "W"	June 28 (Wed)
Holiday (Independence Day)	July 4 (Tues)
Last Class Day	July 11 (Tues)
Final Exams, End of Term	July 12 (Wed)

Registration	July 11 (Tues)
Classes Begin	
Late RegistrationJul	
Last Day for Schedule Changes	July 17 (Mon)
Last Day to Drop or Withdraw With a "W".	Aug 8 (Tues)
Last Class Day	Aug 17 (Thurs)
Final Exams, End of Term	Aug 18 (Fri)

Degrees and Certificates

In fulfilling its commitment to provide a high quality educational program to the citizens of the Ector County area, Odessa College is authorized by the state of Texas to provide instruction leading to a variety of degrees and certificates. The college also offers courses in some subject areas — accounting, anthropology, earth science, economics, engineering, geography, philosophy, religion, etc. — as an enhancement to the general education requirements for other disciplines.

Associate in Arts

The Associate in Arts Degree is awarded to students who complete curriculum requirements of the first two years of study of a standard baccalaureate program, primarily in the liberal arts, fine arts or business fields. Known as the A.A., the degree is not designed to provide students with specific vocational skills. The Associate in Arts is available in the following areas:

Art **Business Administration** (leading to a B.B.A. in Accounting, Finance, Personnel, Management and Marketing) Education (Elementary/Secondary) **English** Foreign Language General Studies* (no major) **Humanities (Art Option)** Mass Communications Music **Psychology** Sociology Social Science (Economics, Government, History) Speech

Associate in Science

The Associate in Science Degree is awarded to students who complete curriculum requirements of the first two years of study of a standard baccalaureate program, primarily in the fields of mathematics or science. Known as the A.S., the degree is not designed to provide students with specific job skills. The Associate in Science is available in the following disciplines:

Biology
Chemistry
Computer Science
General Studies* (no major)
Geology
Mathematics
Physical Education
(Exercise and Sport Science
Athletic Training Options)
Physics

*Please refer to page 246 of this catalog for requirements. By following these basic requirements and selecting electives in the area of the anticipated baccalaureate, students can earn the A.A. designed to meet specific degree and transfer requirements for a designated institution. See your counselor or departmental advisor for specific information.

*Please refer to page 246 of this catalog for requirements. By following these basic requirements and selecting electives in the area of the anticipated baccalaureate, students can earn the A.S. designed to meet specific degree and transfer requirements for a designated institution. See your counselor or departmental advisor for specific information.

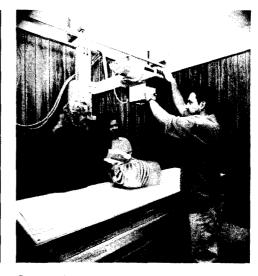
Pre-Professional Courses of Study

In those areas classified as preprofessional — dentistry, engineering,
medicine, optometry, pharmacy,
veterinary medicine — students are
advised to pursue the degree plan for
the Associate in Science without a
declared major. Pre-law students should
follow the general degree plan for the
Associate in Arts. Courses not
specifically required should be selected
according to the requirements of the
institution that will eventually grant the
degree.

Associate in Applied Science

The Associate in Applied Science degree is awarded to students who complete the prescribed degree plan in a designated technical studies area. Known as the A.A.S., this degree is designed to provide students with comprehensive skills and knowledge in a specialized field, with the goal of employment in that field. While the degree is usually job oriented, all A.A.S. degrees will have at least some, if not most, courses transfer to senior institutions through the general education requirements in the degree and/or inverted baccalaureate degree plans. The student should check the requirements of the senior institution before planning a course of study. See your counselor or faculty advisor for more information. Odessa College awards the A.A.S. degree in the following areas:

Automotive Technology and
Diesel Mechanics
(Automotive and Diesel Options)
Building Trades
Child Development
Clinical Laboratory Sciences
Computer Information Systems



Cosmetology **Culinary Arts Drafting Technology Educational Aide Electrical and Electronics Technology Emergency Medical Technology** Fire Technology Heating, Ventilation and Air Conditioning **Human Services** (Alcohol and Drug Abuse) Law Enforcement/Criminal Justice Maintenance Technology Management (General, Marketing, Fashion Merchandising and Industrial Supervision Options) **Metal Trades** (Welding and Machine Options) Nursing Office Systems Technology (Office Systems and Medical Emphasis Options) Petroleum Technology **Photography** Physical Therapist Assistant Radiologic Technology Respiratory Care

Surgical Technology

Certificate of Technology

In the technology fields, it is not uncommon for a student to want to learn the skills necessary for employment without earning the A.A.S. To indicate both completion and technical competency, Odessa College awards a Certificate of Technology in the following fields (refer to individual departmental sections for specific course and semester hour requirements):

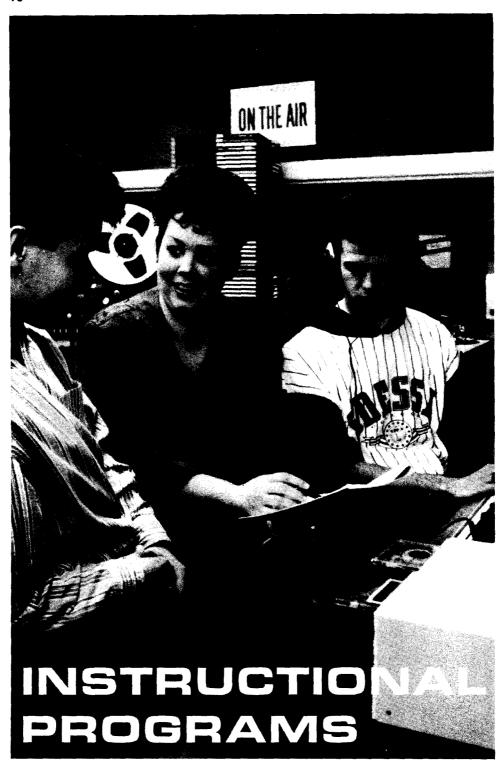
Automotive/Diesel Technology
Building Trades
Child Development
Drafting Technology
Electrical/Electronics Technology
Heating, Ventilation and Air Conditioning
Law Enforcement/Criminal Justice
Maintenance Technology
Management
Metal Trades
Office Systems Technology
Petroleum Technology

Certificate of Completion

The Certificate of Completion is given by Odessa College after completion of a designated course of study that concentrates on specific job skills, licensure requirements or subject matter mastery. Odessa College awards a Certificate of Completion in the following vocational fields (refer to individual departmental sections for specific course and semester hour requirements):

Cosmetology Instructor
Cosmetology Operator
Culinary Arts
Emergency Medical Technician (Basic)
Emergency Medical Technician
(Intermediate)
Emergency Medical Technician
(Advanced)
Fire Fighter (Volunteer)
Fire Fighter (Basic)
Law Enforcement Academy
Phlebotomy
Respiratory Therapy Technician
Surgical Technology
Vocational Nursing (LVN)





Key To Course Description

SCANS Numbers

The word "SCANS" comes from the U.S. Department of Labor's "Secretary's Commission on Achieving Necessary Skills." The numbers found in the Odessa College course descriptions refer to the list of 11 skill areas below. Three of the 11 skill areas refer to the foundation skills of reading, writing and mathematics. The other eight areas refer to workplace skills, such as working with clients and co-workers, that courses develop as a part of the teaching-learning process. The OC faculty has evaluated all of their courses and written the following course descriptions, keyed to SCANS, to help communicate to students and other members of the public the educational and workplace foundation that courses will help students attain as they successfully complete their course of study at Odessa College.

(SCANS 1, 2, 3 = FOUNDATION SKILLS)

- 1. READING
- 2. WRITING
- 3. MATHEMATICS

(SCANS 4 - 11 = WORKPLACE SKILLS)

- RESOURCE USE AND DEVELOPMENT (such as time, materials, money, and facilities)
- INTERPÉRSONAL DEVELOPMENT (such as working as member of a team, serving clients and customers, negotiation, leadership, and working with diversity)
- INFORMATÍÓN SKILLS (such as acquiring, evaluating, organizing, maintaining, interpreting, communicating, and using computers to process information)
- SYSTEMS AND OTHER COMPLEX INTER-RELATIONSHIPS (such as understanding organizational systems, working within social and technological groups, distinguishing and improving the systems design)
- SELÉCTING, APPLYING, AND MAINTAINING A VARIETY OF TECHNOLOGIES
- 9. CREATIVE THINKING, PROBLEM SOLVING, AND DECISION MAKING
- DEVELOPING PERSONAL QUALITIES (such as responsibility, selfesteem, sociability, self-management, integrity and honesty)
- 11. LISTENING AND SPEAKING

Accounting (see Business Administration)

Anthropology (see Geology, Anthropology, and Geography)

Art

Faculty: Delmos Hickmott, chair; Barry Phillips; Barry Phillips III.

The Odessa College Art Department exists to provide quality art education for all members of the community. Art students become aware of humanistic values and learn the importance of doing quality work while developing skills in creating studio art, so that they may become successful artists, continue studies at universities, and become intelligent consumers of visual art. Course offerings are based upon the recommended transfer curriculum of the Texas Association of Schools of Art and approved by the Texas Higher Education Coordinating Board. A professionally active faculty is committed to teaching studio art and maintains labs for design, drawing, painting, printmaking, sculpture, pottery, and jewelry. The department also offers a variety of art appreciation courses in a convenient, self-paced format. Beginning level courses require no previous experience in art study. The department welcomes all students who are interested in learning about visual art and sponsors scholarships for students considering art as a major.

Course of Study for Associate in Arts Degree (ARTS)

	Semester Hrs
General Education Requirements	35-37
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	
**Foreign Language, Math or Science	6-8
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	د
*PHED (Any two one-hour activity courses)	
CDCU 1015 Dublic Cooking of	2
SPCH 1315 Public Speaking or	•
SPCH 1321 Business and Professional Speech	3
Elective (must be outside the major area)	3
Water Barrell, manual	
Major Requirements	27
ARTS 1316 Drawing I	
ARTS 1311 Design I	3
ARTS 1303 Art History Survey I	3
ARTS 1317 Drawing II	3
ARTS 2323 Figure Drawing I	3
ARTS 1304 Art History Survey II	3
ARTS 1312 Design II	3
Elective (any sophomore level ARTS courses)	6
Total Semester Hours	
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^{*}PHED 1100 should be the first course taken in physical education.

^{**}Six to eight semester hours in same discipline.

Art Courses

ARTS 1301 Art Appreciation (Self-Paced) (ART 1300) (3-0) 3 hours Develops the ability to enjoy visual art and understand its importance. Introduces basic art theory, forms, and history. Specialized courses in African Art, Mexican Art. Contemporary Art and Contemporary Film Appreciation are offered on a rotating basis. (SCANS 9) Prerequisite: None. ARTS 1303 Art History Survey I (ART 1371) relationship of art to culture from prehistoric times through the 1400s. Develops the ability to identify, describe and interpret major works in the history of visual art. (SCANS 6) Prerequisite: None. ARTS 1304 Art History Survey II (ART 1372) relationship of art to culture from the 1300s to the present. Develops the ability to identify, describe and interpret major works in the history of visual art. (SCANS 6) Prerequisite: None. **ARTS 1311 Design I (ART 1321)** Develops the skill to create visually exciting drawings, paintings, and multi-media art works. Introduces the principles/elements of two-dimensional design, plus basic art concepts, techniques, studio processes, and media essential to the creation of effective visual art. (SCANS 9) Prerequisite: None. **ARTS 1312 Design II** (ART 1322) Develops the skill to create visually exciting sculpture in wood, clay, and cast metals, including lost-wax plaster investment bronze casting. Introduces the principles/ elements of three-dimensional design, plus basic art concepts, techniques, studio processes, and media essential to the creation of effective visual art. (SCANS 9) Prerequisite: ARTS 1311. **ARTS 1316 Drawing I (ART 1311)** Develops the skill to create realistic drawings from various subjects in the natural and manufactured environment. Emphasizes line and value drawings in pencil, charcoal, and ink. Introduces basic art concepts, techniques, studio processes, and media essential to the creation of effective visual art. (SCANS 9) Prerequisite: None. **ARTS 1317 Drawing II** (ART 1312) Develops the skill to create expressive drawings emphasizing the use of color. Presents basic art concepts, techniques, studio processes, and media essential to the creation of effective visual art. (SCANS 9) Prerequisite: ARTS 1316. **ARTS 2311 Design III** (ART 2325) Develops the ability to create a series of two-dimensional or three-dimensional artworks emphasizing individual expression in a particular media and technique. (SCANS 9) Prerequisite: Instructor approval. **ARTS 2316 Painting I (ART 2321)** Develops the skill to create expressive paintings using images from the environment and the imagination. Presents advanced concepts of two-dimensional design, techniques, studio processes, and media essential to the creation of effective visual art. (SCANS 9) Prerequisite: ARTS 1316 and ARTS 1311 or instructor approval.

ARTS 2317 Painting II (ART 2322) (2-4)	
Develops the skill to create a series of paintings emphasizing individual expression in a particular painting medium and technique. (SCANS 9) Prerequisite: ARTS 2316 or instructor approval.	
ARTS 2323 Figure Drawing I (ART 2323)	
(2-4)	
ARTS 2324 Figure Drawing II (ART 2324)	
(2-4)	
ARTS 2326 Sculpture I (ART 2391)	
(2-4)	
concepts of three-dimensional design, sculpture techniques, studio processes, and media essential to the creation of visual art. (SCANS 9) Lab fee required. Prerequisite: ARTS 1312 or instructor approval.	150,000
ARTS 2327 Sculpture II (ART 2392)	
(2-4)	
ARTS 2333 Printmaking I (ART 2361)	1.000
(2-4)	
ARTS 2334 Printmaking II (ART 2362)	
(2-4)	
ARTS 2341 Jewelry I (ART 2341)	
(2-4)	í
dimensional design, studio processes, and media essential to the creation of effective visual art. Lab fee required. (SCANS 9) Prerequisite: None.	
ARTS 2342 Jewelry II (ART 2342)	
(2-4)	
ARTS 2346 Pottery I (ART 2381)	
(2-4)	

Automotive Technology and Diesel Mechanics

expression. (SCANS 9) Prerequisite: ARTS 2366.

Faculty: Juri Davis, chair; Steve Mapes.

Maintaining and servicing automobiles and diesel-powered vehicles and equipment is a thriving business and a very important activity in the American economy. The automotive/ diesel service field is so widespread and fast growing that many excellent career opportunities are open to the person with proper qualifications. While a Certificate of Technology with an emphasis in either Automotive or Diesel Technology will prepare the student to be an effective employee, 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 Automotive and Diesel Technology

Concret Education Deguirements	Semesters Hrs
General Education Requirements ENGL 1301 Composition and Rhetoric	I <i>f</i>
	— • • • • • • • • • • • • • • • • • • •
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
COSC 1301 Introduction to Computer Systems	
GOVT 2301 U.S. and Texas Government	
MATH 1372 Technical College Algebra or	
MATH 1314 College Algebra or	
MATH 1371 College Algebra for Business	3
*PHED (Any two one-hour activity courses)	
Elective (must be outside the major area)	3
*PUED 1100 should be the first course taken in physical advection	

*PHED 1100 should be the first course taken in physical education.

(In addition to the 20 semester hours listedabove, a student must select one of the following options)

<u>Automotive Option</u>	
	Semester Hrs
Major Requirements	46
AUTO 1502 Introduction to Automotive Engine	.
Maintenance and nebuliding	5 5 W
ALITO 1500 Transmissions and rower trains	5
AUTO 2377 Cooperative Work Experience	3
AUTO 2501 Automotive Flectrical Systems	5
AUTO 2502 Heating and Air Conditioning	5
AUTO 2503 Automotive Fuel and Emissions	5
AUTO 2504 Automotive/Diesel Electronics I	5
*AUTO elective (minimum 3 semester hours)	3
Total Semester Hours	66
AUTO 1501 Specialized Electronics Mathematics of AUTO 1505 Au	Nomonve Dieser
Diesel Mechanics Option	
Major Requirements	35
DESL 1501 Principles of Diesel Engines	<u>5</u>
DESL 1503 Electrical Systems and Control Circuits	5
	5
DEST 1507 The Diesel Chassis	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
DESL 2377 Cooperative work experience	5 5
DESI 2501 Halishiissions, Fower Hains and Accessories	9
DESI 2505 Caterpliar Dieser Engines of	5
Related Requirement	13
AUTO 2504 Automotive/Diesel Electronics I	
AUTO 2505 Automotive/Diesel Electronics II	
*AUTO elective (minimum 3 semester hours)	3
Total Semester Hours	66
*AUTO 1301 Specialized Electronics Mathematics or AUTO 1505 Au	utomotive Diesel
Certificates of Technology are available in the following job-	specific fields
See the program chairman for course requirements and Permian Ba	asin job opportunities.
Automotive Technology Certificates of Te	chnology
	g,
Air Conditioning and Heating	Semester Hrs
ENGL 1312 Report Writing	
COSC 1301 Introduction to Computer Systems	3
AUTO 2501 Automotive Electrical Systems	5
AUTO 2502 Heating and Air Conditioning	
Total Semester Hours	16
<u>Chassis</u>	
ENGL 1312 Report Writing	3
COSC 1301 Introduction to Computer Systems	3
AUTO 1502 Introduction to Automotive Engine	5
AUTO 1504 The Automotive Chassis	5
Total Semester Hours	
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*	<u>Drivability</u>	Caimantes Usa
_	ENGL 1312 Report Writing	Semester Hrs
	COSC 1301 Introduction to Computer Systems	3
,	AUTO 2503 Automotive Fuel and Emissions	5
	AUTO 2504 Automotive/Diesel Electronics I	5
	AUTO 2505 Automotive/Diesel Electronics II	5
	Total Semester Hours	21
	Automotive Electronics Technician	
•	FNGI 1312 Report Writing	3
	ENGL 1312 Report Writing COSC 1301 Introduction to Computer Systems	3
	AUTO 1301 Specialized Electronics Math	و
	AUTO 2501 Automotive Electrical Systems	
•	AUTO 2504 Automotive/Diesel Electronics I	
	AUTO 2505 Automotive/Diesel Electronics II	
	Total Semester Hours	
ľ		
1	Diesel MechanicsCertificates of Technol	ogy
	<u>Caterpillar</u>	
		Semester Hrs
	ENGL 1312 Report Writing	ა
100	COSC 1301 Introduction to Computer Systems	
	DESL 1504 Fuel Emissions Systems	
	DESL 2503 Caterpillar Engines	
}	Total Sellestel Hours	10
	Cummins	
,	ENGL 1312 Report Writing	3
	COSC 1301 Introduction to Computer Systems	3
	DESL 1504 Fuel Emissions Systems	5
ì	DESL 2506 Cummins Diesel Éngines	5
	Total Semester Hours	
	Detroit Diesel	
	ENGL 1312 Report Writing	
	COSC 1301 Introduction to Computer Systems	
	DESL 1501 Principles of Diesel Engines	5
	DESL 1504 Fuel Emissions Systems	
	Total Semester Hours	16
	Diesel Electronics Technician	
	ENGL 1312 Report Writing	3
	COSC 1301 Introduction to Computer Systems	
	AUTO 1301 Specialized Electronics Math or	
	TMTH 1370 College Mathematics	3
	DESL 1501 Principles of Diesel Engines	5
	DESL 1503 Electrical Systems and Control Circuits	5
	DESL 1504 Fuel Emissions Systems	5
	AUTO 2504 Automotive/Diesel Electronics I	5
		_
	AUTO 2505 Automotive/Diesel Electronics II	5

Automotive Courses AUTO 1301 Specialized Electronics Mathematics Designed to provide an understanding of mathematics principles, formulate electronic theories and solve problems encountered by automotive technicians. The student will learn to recognize electronic symbols used in schematic drawings and perform electronic calculations with Ohms Law. Lab exercises are designed for students to use their reasoning ability to solve problems and make decisions. (SCANS 3,6,7,9) Prerequisite: Fundamental knowledge of mathematics or consent of department chair. **AUTO 1502 Introduction to Automotive Engine Maintenance and Rebuilding** (4-4)5 hours Presents theory and practice in basic principles of repair and maintenance of internal combustion engines. Includes study of engine designs and materials and proper use of hand and special tools used in the repair and maintenance of the automotive engine and its supporting systems. Students will use service manuals to organize technical information used to rebuild engines and maintain support systems. Students will use reasoning ability to recognize component failures. Students will learn to read and use precision measuring equipment and calculate clearances. the reading of technical material is required. (SCANS 1,3,4,6,7,8,9) Lab fee required.

AUTO 1503 Transmissions and Power Trains

AUTO 1504 The Automotive Chassis

Prerequisite: None.

AUTO 1505 Automotive Diesel

AUTO 2377 Cooperative Work Experience

AUTO 2501 Automotive Electrical Systems diagnostic procedures. the student will use manuals and computer test equipment to test and diagnose electrical problems. The student will know the relation of Ohms Law as it applies to the automotive electrical system. The student will gain experience working as a team member on lab projects and develop communication skills for customer relations. The reading of technical materials is required. (SCANS 3,5,6,7,8,9) Lab fee required. Prerequisite: None. **AUTO 2502 Heating and Air Conditioning** The student will study the basic principles of climate control as related to the automobile. Topics such as heat, pressure, refrigerants, compressors, electrical control circuits, and other topics will be covered. Interpreting manifold gauges and calculating correct additions of oil and refrigerant gases will give the student a good foundation in the air conditioning service business. The reading of technical materials is required. (SCANS 3,6,7) Lab fee required. Prerequisite: None.

AUTO 2503 Automotive Fuel and Emissions

(4-4)5 hours Emphasizes fuels and emissions related to tune-up procedures. The student will use computerized test equipment to evaluate emissions from exhaust systems. The student will recognize problems and devise plans for correction. Working in teams on lab exercises and using technical manuals the students will acquire new knowledge and skills. The reading of technical materials is required. (SCANS 5,6,7,8,9) Lab fee required. Prerequisite: None.

AUTO 2504 Automotive/Diesel Electronics I

(4-4)5 hours Students will study Ohms Law, power law, principles of direct current, principles of alternating current, induction, capacitance, impedance, and other related electrical principles. The lab exercises will improve reasoning and decision making abilities. A scientific calculator is required. The reading of technical materials is required. (SCANS 3,6,7,8,9,10) Lab fee required. Prerequisite: Fundamental knowledge of mathematics required. College Algebra or more advanced preferred or consent of the department chair.

AUTO 2505 Automotive/Diesel Electronics II

(4-4)5 hours Introduces fundamentals of solid state devices such as FET, bipolar and unijunction transistors. the student will better understand LED's solid state regulators, electronic spark control timing, amplifiers, buffers, SCRs, RAMS, PROMS, and EPROMS. The automotive computer technologies will also be introduced. Students in lab exercises, working in teams, will develop thinking and reasoning abilities useful in diagnosing automotive electronic problems. The reading of technical materials is required. (SCANS 5.6.7.8.9) Lab fee required. Prerequisite: AT 2504 or department chair consent.

Diesel Courses

DESL 1501 Principles of Diesel Engines

(4-4) _____5 hours Students will learn principles and nomenclatures of gasoline and diesel engines. Reading and interpretation of service manuals and decisions regarding service and repair will be required. Students will use current technologies to diagnose and repair various gasoline and diesel engines. The reading of technical materials is required. (SCANS 6,8,9,11) Lab fee required. Prerequisite: None.

DESL 1503 Electrical Systems and Control Circuits (4-4)	
Students will learn the basic principles of electricity. Reading and interpretation of schematic diagrams, multimeters, and correct terminology will be taught. Current technology will be applied in the diagnoses and repair of various components in the automotive electrical system. (SCANS 1,3,6,8,9,11) Lab fee required. Prerequisite: None.	
DESL 1504 Fuel Emissions Systems	
(4-4)	
these systems. (SCANS 6,8,9,11) Lab fee required. Prerequisite: None.	
DESL 1507 The Diesel Chassis	
(4-4)	
·	
DESL 2377 Cooperative Work Experience (1-20)3 hours	
À capstone course designed to inter-relate academic and vocational course lectures and labs with business and industry work experiences. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the	
areas of personal, interpersonal, and problem solving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5,7,9,10,11) Prerequisite: Sophomore standing and consent of the department chair.	
DESL 2501 Transmissions, Power Trains and Accessories	
(4-4)	
bulletins will be necessary to facilitate the understanding, diagnoses, and repair of transmissions, differentials, and accessories. (SCANS 1,6,8,9) Lab fee required. Prerequisite: None.	
DESL 2503 Caterpillar Diesel Engines	
(4-4)	
diagnoses, and repair of the Caterpillar diesel engine. (SCANS 1,6,8) Lab fee required. Prerequisite: None.	
DESL 2506 Cummins Diesel Engines	
(4-4)	
service manuals and bulletins will be necessary to facilitate understanding, diagnoses, and repair of the Cummins diesel engine. (SCANS 1,6,8) Lab fee required. Prerequisite: None.	

Biology

Faculty: Dr. Clyde Smith, chair; Dr. Vincent Coffey, James O. Johnson, Dr. John Lesmeister, Steve Sofge.

Courses offered in the Biology Department are directed toward two objectives. First, they provide the student majoring in a biological science with a broad and sound foundation for advanced study at an upper-level institution or a professional school. The second objective provides 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

	Semester Hrs
General Education Requirements	56
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	3
SPCH 1311 Introduction to Speech Communication	
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra or More Advanced	3
MATH 1316 Plane Trigonometry or More Advanced	3
*PHED (Any two one-hour activity courses)	2
CHEM 1311/1111 General Inorganic Chemistry I/	
Fundamentals of Chemistry Laboratory I	4
CHEM 1312/1112 General Inorganic Chemistry II/	
Fundamentals of Chemistry Laboratory II	4
CHEM 2323/2123 Organic Chemistry I/	
Organic Chemistry Lab I	4
CHEM 2325/2125 Organic Chemistry II/	
Organic Chemistry Lab II	4
PHYS 1401 College Physics I	4
PHYS 1402 College Physics II	4
Elective (must be outside major area)	
Major Requirements	11-13
BIOL 1406 General Biology I	4
BIOL 1407 General Biology II	
**Biology Electives	3-5
Tatal Compater House	70.70

^{*}PHED 1100 should be the first course taken in physical education.

^{**}Requirements for biology electives may be fulfilled by taking any combination of the following courses: BIOL 2306 General Ecology; BIOL 2370 Marine Ecology; BIOL 2420 Microbiology or BIOL 2428 Comparative Anatomy. Choice of an elective may depend upon students' plans for future study. Students should consult with the biology faculty for information regarding these courses.

Biology Courses

BIOL 0371 Developmental Science This is a compensatory, non-transferable science course designed to improve basic knowledge of the biological sciences, develop critical thinking skills and learn how to interpret data related to biological concepts. Students learn and use biological terminology and mathematical calculations involved in converting between the English and metric systems of measurement, basic chemical calculations. Students also learn specific information about the basic chemistry of life processes, cells, tissue, organs and systems with emphasis on human biology. Lab fee is required. (SCANS 1,3,6,9) Prerequisite: None **BIOL 1170 Medical Terminology (BIOL 1100)** (1-0)1 hour Students planning health science careers learn to understand and interpret medical terminology. Consists of Latin and Greek roots, prefixes and suffixes, as well as proper pronunciation and correct spelling. (SCANS 1) Prerequisite: None. BIOL 1406 General Biology I (BIOL 1401) (3-3)4 hours This course is a study of the organizational aspects of cells from molecular to organismic levels. Students learn to understand and interpret terms and discover principles covering cell anatomy, cell biochemistry, cellular respiration, photosynthesis, cell reproduction, genetics. A taxonomic survey of the five kingdoms is also covered. In laboratory activities students learn to perform basic mathematic calculations of converting between the metric and English systems of measurement and acquire experimental data and reason to the interpretation of principles underlying the observations including cause and effect relationships. Lab fee is required. (SCANS 1,3,6,9) Prerequisite: None. BIOL 1407 General Biology II (BIOL 1402) (3-3)4 hours Students continue their understanding and interpretation of biological terms with respect to plant and animal growth, plant and animal tissues and systems, ecology, evolution and behavior. Laboratory investigations include basic mathematic calculations of ecological parameters, acquiring practical experience in the dissection of a mammal with reasoning to the relationships between form and function and make decisions relative to cause and effect relationships. Lab fee required. (SCANS 1,3,6,9) Prerequisite: None. **BIOL 1408 Principles of Biology I (BIOL 1300)** Students with majors requiring only one semester of biology learn to understand and interpret biological terms, especially as they apply their own bodies and the environment in which they live. Through laboratory activities that include experimentation and microscopic examination students acquire and evaluate information and formulate relationships between form and function and make decisions relative to cause and effect. (SCANS 3,6,9) Prerequisite: None. **BIOL 2306 General Ecology (BIOL 2301)** Students learn and interpret the concepts of plant and animal communities and population. From environmental sampling students acquire, evaluate and interpret the effects of chemicals on the biome. Field trips, group discussions and a written theme are required. (SCANS 1,6,9) Prerequisite: One semester of either biology or geology or consent of the instructor.

BIOL 2370 Marine Ecology (BIOL 2303)

BIOL 2401 Anatomy & Physiology I (BIOL 1404)

BIOL 2402 Anatomy & Physiology II (BIOL 1405)

BIOL 2404 Human Anatomy & Physiology (BIOL 1403)

BIOL 2420 Microbiology (BIOL 2403)

BIOL 2428 Comparative Anatomy (BIOL 2401)

Building Trades

Faculty: Tom Wilburn, chair.

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 carpentry, concrete forming, plumbing, roofing, and exterior and interior finishing. A home is constructed from start to finish. Further instruction includes blueprint reading, study of building codes and specifications, and cabinet making.

Course of Study for Associate in Applied Science Degree Building Trades

	Semester Hrs
General Education Requirements	20
ENGL 1301 Composition and Rhetoric or	
ENGL 1312 Report Writing	3
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
COSC 1301 Introduction to Computer Systems	
GOVT 2301 U.S. and Texas Government	3
MATH 1372 Technical College Algebra	3
PSYC 2302 Applied Psychology	3
PHED (Any two one-hour activity courses)	2
Elective (must be outside the major area)	3
Technical Core	16
BLDG 2404 Structural Repair	4
ELEC 2410 National Electrical Code	4
HVAC 1401 Refrigeration Theory	4
MAIN 1402 Plumbing Fundamentals	4
Building Maintenance Specialist Option	27
BLDG 1601 Construction Principles I	6
BLDG 1602 Carpentry I	
BLDG 1603 Construction Principles II	6
BLDG 1604 Carpentry II	
BLDG 2377 Cooperative Work Experience	3
Total Semester Hours	ee
	······································

Building Maintenance Certificates of Technology

Certificates of Technology are available in the following job-specific fields. See the program chairman for course requirements and Permian Basin job opportunities.

Basic Carpenter Helper

	Semester Hrs
TMATH 1370 Technical College Mathematics	3
PSYC 2302 Applied Psychology	3
BLDG 1601 Construction Principles I	6
BLDG 1602 Carpentry I	
BLDG 1604 Carpentry II	6
Total Semester Hours	24
Basic Construction Technician	
TMATH 1370 Technical College Mathematics	
PSYC 2302 Applied Psychology	3
PSYC 2302 Applied Psychology ELEC 2410 National Electrical Code	4
MAIN 1402 Plumbing Fundamentals	4
BLDG 1601 Construction Principles I	6
BLDG 1602 Carpentry I	6
BLDG 1604 Carpentry II	
Total Semester Hours	32
Basic Cabinetmaker Technician	
TMATH 1370 Technical College Mathematics	3
PSYC 2302 Applied Psychology	3
BLDG 2603 Cabinet Making I	
BLDG 2607 Cabinet Making II	6
Total Semester Hours	18
Advanced Construction Technician	
TMTH 1370 Technical College Mathematics	3
PSYC 2302 Applied Psychology	3
ELEC 2410 National Electrical Code	4
MAIN 1402 Plumbing Fundamentals	
BLDG 1601 Construction Principles I	
BLDG 1602 Carpentry I	
BLDG 1603 Construction Principles II	
BLDG 1604 Carpentry II	
Total Semester Hours	29
	······································
Construction Estimator	
TMTH 1370 Technical College Mathematics	3
COSC 1301 Introduction to Computer Systems	3
PSYC 2302 Applied Psychology	2
BLDG 1601 Construction Principles I	دی
BLDG 1602 Carpentry IBLDG 1603 Construction Principles II	b
BLDG 1604 Carpentry II	
BLDG 2601 Construction Principles III	
BLDG 2603 Cabinet Making I	
Total Semester Hours	45

Building Trades Courses

BLDG 1601 Construction Principles I (2-8)6 hours Presents terminology, concepts, and techniques to begin a study in residential construction. Competencies to be addressed include interpreting basic blueprints and specifications, estimating materials, acquiring materials, working as a team member, selecting proper tools for tasks, and how to apply new knowledge and skills to actual construction projects Lab fee required. (SCANS 1,3,4,8,9) Prerequisite: None. BLDG 1602 Carpentry I A skills learning class. Competencies include learning basic use of hand tools, applying mathematical calculations, proper job and tool safety, reading of blueprints, construction of forms, walls, and ceiling joist, and learning communications skills with co-workers. Lab fee required. (SCANS 1,3,5,8,9,11) Prerequisite: None. Corequisite: BLDG 1601. **BLDG 1603 Construction Principles II** (2-8) 6 hours A continuation of BLDG 1601. Competencies emphasize roof framing, sheathing, roofing, exterior trim, and interior trim. Continues blueprint and specification understanding, material and time estimation, including a basic study of light commercial construction. Lab fee required. (SCANS 1,3,4,6,8) Prerequisite: BLDG 1601. Corequisite: BLDG 1604. **BLDG 1604 Carpentry II** A continuation of BLDG 1602. Competencies include study and use of a framing square, calculating and cutting rafters, installation of roof sheathing, exterior and interior trim. Working as a team member on a project house, adaptability, and politeness are emphasized. Lab fee required. (SCANS 3,5,8,10) Prerequisite: BLDG 1602 or consent of the department chair. **BLDG 2377 Cooperative Work Experience** À capstone course designed to inter-relate academic and vocational course lectures and labs with business and industry work experiences. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the areas of personal, interpersonal, and problem solving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5,7,9,10,11) Prerequisite: Sophomore standing and consent of the department chair. **BLDG 2404 Structural Repair** (3-3)4 hours Presents principles and applications of building repair. Competencies emphasize minor and major wall, floor ceiling, window and roof repair. Repair manuals and text study, proposal writing, job cost estimation, negotiating with subcontractors, organizing and scheduling work, and construction trouble shooting are covered. (SCANS 1,2,3,4,9,10) Lab fee required. Prerequisite: None. **BLDG 2601 Construction Principles III** (2-8) 6 hours Designed for the advanced student. The class will offer a brief review of the first year study in blueprint reading, proposal writing and a comprehensive study of time and material estimation. Second year students are required to work with first year students, monitoring, correcting performance, teaching new skills, exercising leadership skills and demonstrating self-management skills. Lab fee required. (SCANS 1,2,3,5,6,) Prerequisites: BLDG 1603, BLDG 1604 or consent of department chair.

BLDG 2603 Cabinet Making I

BLDG 2607 Cabinet Making II

Broadcasting (See Mass Communication)

Business Administration

Faculty: Dr. Sue Blair, chair; Larry Duval, Jack Felts, Dan Neagle.

Business administration is a broad field of study and contains many possible majors. Courses offered include those required by senior colleges at the freshman and sophomore levels to obtain the degree of Bachelor of Science of Business Administration or a Bachelor of Business Administration (B.B.A.) in a specific undergraduate study, such as accounting. A business major should be aware of the opportunities, requirements and obligations in various majors of specialization so that a proper choice for study can be made. Students should reserve the decision of choosing an area of emphasis depending on their own abilities and interests. Suggested fields of study include accounting, advertising, banking, finance, business, teaching, various phases of management, insurance, retailing, marketing and statistical analysis.

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

Course of Study for Associate in Arts Degree Business Administration

	Semester Hr
General Education Requirements	37
ECON 2301 Principles of Economics I (Micro) or	
ECON 2302 Principles of Economics II (Macro)	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	3
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S History to 1877	3
HIST 1302 U.S. History from 1877	
*PHED (Any two one-hour activity courses)	
Science (Two sequential semesters of a lab science in	
Biology, Chemistry, Geology or Physics)	8
SPCH 1315 Public Speaking; or SPCH 1321 Business	
and Professional Speech	3
Flective (must be outside major area)	3

20	
Major Requirements	14
BUSI 1301 Introduction to Business	3
+BUSI 2301 Business Law I	3
ACCT 2401 Principles of Accounting I	4
ACCT 2402 Principles of Accounting II	4
Related Requirements	14
COSC 1301 Introduction to Computer Systems or	
BCIS 1401 Intro to Computer Information Systems or	
A more advanced BCIS course	4
MATH 1324 Mathematical Analysis for Business I	3
MATH 1325 Mathematical Analysis for Business II	3
MATH 1442 Business Statistics	4
Total Semester Hours	68
*PHED 1100 should be the first course taken in physical education.	
+May not be accepted by all four-year or upper-level institutions because which those institutions offer the course. The student and the department	

Business Administration core curriculum leading to degrees in Accounting, Finance, Personnel, Management, Marketing, etc.

Core courses leading to the degrees listed above from four-year institutions are the same as those listed for the Associate in Arts Degree (Business Administration) at Odessa College. The courses listed for the Associate in Arts Degree from Odessa College are transferable between Texas institutions of higher education, except as noted for BUSI 2301, Business Law I. SOCI 1301, Principles of Sociology and PSYC 2301, Introduction to Psychology are also core courses for business administration and may be selected electives in the Associate in Arts Degree plan.

Business Administration Courses

BUSI 1301 Introduction to Business (BA 1301)

BUSI 2301 Business Law! (BA 2311)

then agree on a substitution.

BUSI 2302 Business Law II (BA 2312)

A continuation of BUSI 2301. Learning activities provide opportunities for students to acquire factual information about specific areas of law as well as opportunities for students to apply and relate that knowledge to simulated and current business situations. Topics covered include legal principles of sales; commercial paper; agency; secured transactions; bankruptcy; and business organization. Ethical perspectives are integrated throughout the course. (SCANS 6,7,9,11) Prerequisite: ENGL 1301 or equivalent.

BUSI 2399 Spreadsheet Applications for Decision Making

Accounting Courses

ACCT 1370 Introduction to College Accounting (BA 1304)

ACCT 2401 Principles of Accounting I (BA 2401)

ACCT 2402 Principles of Accounting II (BA 2402)

Chemistry

Faculty: Dr. E. Don Taylor, chair; Dr. Jeanne Russell.

The objectives of the Chemistry Department are to prepare pre-professional chemists, chemical engineers, and chemical education majors, and 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 courses are compatible with the senior college degree program.

Course of Study for Associate in Science Degree Chemistry

	Semester Hr
General Education Requirements	40
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	3
SPCH 1311 Introduction to Speech Communication	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
MATH 1348 Analytic Geometry	
MATH 2313 Calculus I	3
*PHED (Any two one-hour activity courses)	2
**PHYS 2425 Engineering Physics I	4
**PHYS 2426 Engineering Physics II	4
Elective (must be outside the major area)	3
Major Requirements	18
CHEM 1311/1111 General Inorganic Chemistry I/Fundamentals	
of Chemistry Lab I	4
CHEM 1312/1112 General Inorganic Chemistry II/Fundamentals	
of Chemistry Lab II	4
CHEM 2271 Organic Nomenclature	2
CHEM 2323/2123 Organic Chemistry I/Organic Chemistry Lab I	4
CHEM 2325/2125 Organic Chemistry II/Organic Chemistry Lab II	4
***Approved Electives	3-4
Total Semester Hours	64-65

^{*}PHED 1100 should be the first course taken in physical education.

^{**}PHYS 1401 and PHYS 1402 satisfy the Odessa College requirement for an associate's degree for premedical students, but only PHYS 2425 and PHYS 2426 will transfer to satisfy a science requirement.

^{***}Approved Electives: CHEM 1207, CHEM 2301, and CHEM 2101; FREN 1411 and FREN 1412; GERM 1411 and GERM 1412; MATH 2314.

Chemistry Courses CHEM 1105 Introductory Chemistry Laboratory (CHEM 1105) (0-3) 1 hour A laboratory course that illustrates and reinforces principles and concepts of CHEM 1305 by use of quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required. (SCANS 1,3,6,8,9) Corequisite or prerequisite: CHEM 1305. CHEM 1111 Fundamentals of Chemistry Laboratory I (CHEM 1101) A laboratory course that illustrates and reinforces principles and concepts of CHEM 1311 by use of quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required. (SCANS 1,3,6,8,9) Corequisite or prerequisite: CHEM 1311. CHEM 1112 Fundamentals of Chemistry Laboratory II (CHEM 1102) (0-3)1 hour A laboratory course that illustrates and reinforces principles and concepts of CHEM 1312 by use of qualitative and quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required.

CHEM 1207 Chemical Calculations (CHEM 1201)

(SCANS 1,3,6,8,9) Corequisite or prerequisite: CHEM 1312.

CHEM 1305 Introductory Chemistry (CHEM 1305)

CHEM 1311 General Inorganic Chemistry I (CHEM 1301)

CHEM 1312 General Inorganic Chemistry II (CHEM 1302) (3-0)3 hours A lecture course that is a continuation of CHEM 1311. Includes solutions, chemical kinetics, acids and bases, equilibrium, electrochemistry, thermodynamics, coordination chemistry, nuclear chemistry, organic chemistry, etc. The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1,3,6,9) Prerequisite: Math 1314 and a minimum grade of "C" in CHEM 1311. (Credit probably not transferable until CHEM 1112 is successfully completed.) CHEM 2101 Analytical Chemistry Laboratory I (CHEM 2103) 2301. The course uses techniques and quantitative experiments common to analytical chemistry. Techniques include classical gravimetric and volumetric techniques, also modern instrumental techniques as electrochemical, UV/visible and AA spectroscopy, and gas chromatography. the course also requires an individual laboratory project with a formal written report over the project. Lab fee required. (SCANS 1,3,6,8,9) Corequisite or Prerequisite: CHEM 2301. CHEM 2123 Organic Chemistry Laboratory I (CHEM 2101) À laboratory course that illustrates and reinforces principles and concepts of CHEM 2323. The course is designed to concentrate on the techniques of preparing organic compounds, separation, purification, and identifying the prepared compound. Some of the techniques include melting points, recrystallization, extraction, distillation, and interpretation of IR, NMR, and chromatography spectra. A project will be done that includes using the library and writing a research paper. Lab fee required. (SCANS 1,3,6,8,9) Corequisite or Prerequisite: CHEM 2323. CHEM 2125 Organic Chemistry Laboratory II (CHEM 2102) À laboratory course that illustrates and reinforces principles and concepts of CHEM 2325. The course includes organic synthesis, isolation of product, and identification of product using the techniques from CHEM 2123 and CHEM 2323. Each synthesis requires the acquisition of instrumental spectra, interpretation of the spectra, and qualitative analysis of the product. The course also requires an individual laboratory project with a formal written report over the project. Lab fee required. (SCANS 1,3,6,8,9) Corequisite or Prerequisite: CHEM 2325. CHEM 2271 Organic Nomenclature (CHEM 2201) (2-0)2 hours A lecture course that presents a systematic study of rules of nomenclature for organic compounds by functional group. The course emphasizes International Union of Pure and Applied Chemistry rules but also includes some common names and structural determinations. Students should check with the senior college to determine transferability of this course. (SCANS 1,6,9) Corequisite: CHEM 2323 or consent of the instructor. CHEM 2301 Analytical Chemistry (CHEM 2303) À lecture course that is a study of fundamental principles of elementary quantitative analysis, both theoretical and practical. Includes equilibrium, gravimetric analysis, volumetric analysis and introduction to instruments (AA, GC, UV, spectroscopy, pH meters, IR and NMR). The student will be involved in reading information or problems

and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1,3,6,9) Prerequisite or Corequisite: CHEM 1312.

(Credit probably not transferable until CHEM 2101 is successfully completed.)

CHEM 2323 Organic Chemistry I (CHEM 2301)

CHEM 2325 Organic Chemistry II (CHEM 2302)

Child Development

Faculty: Maryln Hair, chair; Mary Joyce Harding.

The field of child development is a rapidly growing area with a wide range of employment possibilities. An increasing number of job opportunities are 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 who can give them love, guidance and leadership.

The associate's degree program in child development will provide an opportunity for an in-depth study of the whole child. In the certificate program, the specialization is in child development or child care management. In all programs, the child development lab courses will include an actual experience with the children. Students enrolled in child development lab classes must meet Texas Department of Regulatory and Protective Services staff requirements for day-care centers.

Student liability insurance is required for all child development lab classes. See your high school counselor or the Odessa College Chairperson for information on Tech-Prep options.

Course of Study for Associate in Applied Science Degree Child Development

General Education Requirements	Semester Hrs 17-18
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or	
higher level math	3
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	3
COSC 1301 Introduction to Computer Systems	3
SPCH 1321 Business and Professional Speech	
*PHED (Any two one-hour activity courses) or	
PHED 1331 Movement and Recreation	2-3

Major Peguir	ements3
CHI D 13	02 Introduction to Child Development
CHLD 13	04 The Abused and Neglected Child
	05 Creative Activities for Children
	07 Discipline and Classroom Management
CHI D 13	08 Child Growth and Development
	ants and Toddlers
	11 Child Health Care and Nutrition
	01 Personal and Family Management
	04 The Special Child
CHLD 23	05 Children's Language and Literature Development
CHLD 23	06 Science and Math Activities for Children
	77 Cooperative Work Experience
CHLD 24	03 Planning and Teaching Methods
in Ear	ty Childhood
Related Regu	ilrements
PHED 13	06 First Aid
	08 Child Psychology
	Elective
• •	
Total Semest	er Hours66-6
*PHED 1100	should be the first course taken in physical education.
2145,	CHLD 1310, CHLD 2111, CHLD 2125, CHLD 2130, CHLD 2135, CHLD 2140, CHLD 2140, CHLD 215, CHLD 2140, CHLD 215, CHLD 215
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Completion Certificate of **Technology** in Child Care Management

Semester Hrs
General Education Requirements12
ENGL 1301 Composition and Rhetoric or
ENGL 1312 Report Writing3
TMTH 1370 Technical College Mathematics or
MATH 1332 Structures of College Mathematics I or
higher level math
COSC 1301 Introduction to Computer Systems3
SPCH 1321 Business and Professional Speech
Major Requirements24
CHLD 1302 Introduction to Child Development3
CHLD 1304 The Abused and Neglected Child3
CHLD 1305 Creative Activities for Children or
CHLD 2305 Children's Language and Literature
Development or
CHLD 2306 Science and Math Activities for Children3
CHLD 1307 Discipline and Classroom Management3
CHLD 1311 Child Health Care and Nutrition3
CHLD 2111 Legal Aspects and Minimum Standards1
CHLD 2115 Managing Day Care Dollars1
CHLD 2135 Program Planning and Evaluation1
MGMT 1301 Introduction to Management3
MGMT 2304 Personnel and Human Relations or
MGMT 2330 Entrepreneurial Issues3
Palated Parathaguage
Related Requirements6
PHED 1306 First Aid
PSYC 2308 Child Psychology3
Total Semester Hours42
Child Development Courses
CHLD 1302 Introduction to Child Development
(2-3)3 hours
Introduces the profession of teaching children. Overviews the responsibilities and relationship of the staff, the types of child care programs, good environment for
children, safety, health, first aid, child abuse, and nutrition with emphasis on
interpreting the Texas licensing standards. Presents the development theorists, the
four areas of development, the ages and stages of development as well as how to
choose and implement appropriate activities. Introduces interviewing and resume
writing skills needed for securing a child care career. Lab assignments are designed
to allow students to use their reasoning ability to solve problems, make decisions, and
interpret observational forms. (SCANS 1,4,9) Lab fee required. Prerequisite: None.
CHLD 1304 The Abused and Neglected Child
(3-0)
Designed to educate individuals in all aspects of child maltreatment including
procedures for observations, documentation and interpretation of policies. Utilizes
outside resource persons, as well as films, lectures, etc. Includes classroom activities
to encourage problem solving and decision making techniques for situational
problems. Reviews current federal, state and local child abuse laws, including Texas
licensing standards. (SCANS 1,6,9,10) Prerequisite: None.
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CHLD 1305 Creative Activities for Children Emphasizes the creative process as a basis for problem-solving. Creative activities will be planned and presented for all activity areas, including art, movement, music, language, science, mathematics, social studies, in addition to holiday and seasonal activities for young children. Emphasis is placed on appropriate use of all resources, including time, materials, and facilities, as they apply to creative thinking. (SCANS 4,6,9) Lab fee required. Prerequisite: None. CHLD 1307 Discipline and Classroom Management (2-3)3 hours Provides opportunity to evaluate and understand individuals' expectations regarding discipline and classroom management with emphasis on Texas licensing standards. Students will have the opportunity to evaluate situations based on good problem solving and decision making techniques and implementation of alternative discipline strategies. Emphasizes techniques of communication with children as well as coworkers. Offers opportunity to learn theories of behavior-shaping. Presents major theorists and theories of individual and group management. (SCANS 5,6,7,9,11) Lab fee required. Prerequisite: None. CHLD 1308 Child Growth and Development of Infants and Toddlers Emphasizes development processes and environmental factors that can affect physical growth, shape personality and achievement from conception to three years of age. Presents skills for group or individual care of infants or toddlers such as individual daily schedules, record keeping, food preparation, age appropriate discipline techniques and activities. Also, includes interpreting the Texas licensing standards for infants and toddlers. (SCANS 1,6,9) Lab fee required. Prerequisite: None. CHLD 1310 Child Growth and Development from School Age Through Adolescence (3-0) 3 hours Focuses on social, emotional, mental and physical development processes. Emphasizes interpreting Texas licensing standards, problem solving techniques, and personal qualities as related to guiding children, ages six to 18 years old. Designed particularly for anyone working with individuals or with groups from school age through adolescence. (SCANS 1,9,10) Prerequisite: None. **CHLD 1311 Child Health Care and Nutrition** Emphasizes appropriate health, safety and nutrition practices in children's programs as well as interpreting Texas licensing standards. Stresses effect of nutrition on growth and development. Requires assignments which train the student to utilize forms, procedures, and perform calculations required by the USDA Child Care Food Program and the Texas licensing standards for food service. Also, requires choosing, planning and implementing food, health, and safety activities with children. (SCANS) 1,3) Lab fee required. Prerequisite: None.

CHLD 2111 Legal Aspects and Minimum Standards

(1-0) 1 hour Interprets local, state, and federal regulations. By becoming familiar with Texas state licensing standards and funding agency regulations which concern an employer in the child care program, the student will be able to locate, revise, and interpret documents. such as manuals, charts, and schedules. Emphasis is placed on making decisions concerning legal issues such as insurance liabilities, contracts with individuals and with companies for services, and on litigations. This is accomplished through the use of speakers, and by students investigating or researching topics and making reports. (SCANS 1,6,9) Prerequisite: None.

CHLD 2115 Managing Day Care Dollars

CHLD 2120 Communication and Discipline in the Child Care Program

CHLD 2125 Food and Meal Management for Child Care

CHLD 2130 Staff Management

CHLD 2135 Program Planning and Evaluation

CHLD 2140 Leadership and Professionalism in Child Care Management

CHLD 2145 Public Relations for Child Care

CHLD 2301 Personal and Family Management

CHLD 2304 The Special Child

CHLD 2305 Children's Language and Literature Development

CHLD 2306 Science and Math Activities for Children

CHLD 2377 Cooperative Work Experience

CHLD 2403 Planning and Teaching Methods in Early Childhood

Clinical Laboratory Sciences

Faculty: Joel Smith, chair; Annette McMinn, education coordinator; Eloisa Corbell, paraprofessional; Dr. Kris Challapalli, medical advisor.

Medical Laboratory Technology

Medical laboratory technology is a special two-year program of combined academic and clinical training which prepares students with entry skills in medical laboratory techniques, completes prerequisites for certification by examination in the category of medical laboratory technician and leads to an Associate of Applied Science Degree. The Odessa College MLT program is CAHEA accredited. Laboratory practicums are under the full-time supervision of a qualified education coordinator at affiliated clinical laboratories, and the entire program is supervised 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, students must be a high school graduate or equivalent, must achieve a satisfactory score on selected college entrance examinations and must show evidence of good physical and mental health. Applicants must submit their applications and fulfill admission requirements no later than two weeks prior to the start of the second summer term.

Students must maintain an average grade of "C" or better for all courses taken and attain no grade lower than "C" in any medical laboratory technology course to continue the program.

Students seeking additional information should contact the chair, Clinical Laboratory Sciences Department. Applications for the medical laboratory technology associate's degree program may be obtained from the counseling center.

Student liability and health insurance are required for all laboratories and clinical practicums.

Course of Study for Associate in Applied Science Degree Clinical Laboratory Science

First Year

Summer Session II

	Semester H
CLSC 1304 Urinalysis and Body Fluids	3
MATH 1332 Structures of College Mathematics I or	
higher level math	3

Fall Semester Semester Hrs
CHEM 1305 Introductory Chemistry
Spring Semester BIOL 1407 General Biology
Summer Session I CLSC 1223 Clinical Practicum2
Second Year
Summer Session II Semester Hrs
Semester nrs
Elective3
0000121 10
Elective
Elective 3 Fall Semester 2 CLSC 2211 Clinical Microbiology Laboratory 2 ***CLSC 2221 Clinical Practicum 2 CLSC 2601 Clinical Microbiology 6 GOVT 2301 U.S. and Texas Government or 3 GOVT 2302 American National Government 3 Spring Semester 2 CLSC 2212 Clinical Chemistry Laboratory 2 **CLSC 2222 Clinical Practicum 2 CLSC 2602 Clinical Chemistry 6 HIST 1301 United States History to 1877 or
Elective

Phlebotomy

Phlebotomy is a special 10-week program of combined classroom instruction and clinical experience in affiliated medical laboratories which prepares students with career entry skills in phlebotomy, completes requirements for a Certificate of Completion in Phlebotomy and completes prerequisites for certification by examination in the category of phlebotomy technician. The Odessa College Phlebotomy program is approved by the National Accrediting Agency for Clinical Laboratory Sciences. The practicums are under the full-time supervision of a certified Medical Technologist or certified Phlebotomist.

Because practicum space is limited, students will be admitted on a selected basis. To be admitted to the phlebotomy program, students must be a high school graduate or equivalent, must achieve a satisfactory score on selected entrance examinations, and must show evidence of good physical and mental health. Applications must be submitted no later than two weeks prior to the start of the published date for the start of the next class.

Students must attain no grade lower than "C" in any phlebotomy course to complete the course of study. The student must have a grade no lower than "C" in CLSC 1500 to enroll in CLSC 1220.

The phlebotomy program is offered throughout the year as applicants become sufficient for the formation of a class. Classes are tentatively scheduled for the fall, spring and summer terms. Interested parties should contact the clinical laboratory sciences department for projected class offerings. Phlebotomy courses are offered on a credit and non-credit basis.

Students seeking additional information should contact the chair, clinical laboratory sciences department. Applications for the phlebotomy program may be obtained from the counseling center.

Student liability and health insurance are required for all laboratories and clinical practicums.

Course Of Study For Certificate of Completion

	Semester Hr
CLSC 1500 Phlebotomy	5
CLSC 1220 Phlebotomy Practicum	2

Clinical Laboratory Science Courses

CLSC 1211 Urinalysis, Hematology & Hemostasis Lab

CLSC 1212 immunology and immunohematology Lab

CLSC 1220 Phlebotomy Practicum

CLSC 1223 Clinical Practicum

CLSC 1304 Urinalysis and Body Fluids

CLSC 1500 Phlebotomy

CLSC 1601 Hematology and Hemostasis

CLSC 1602 Immunology and Immunohematology

CLSC 2211 Clinical Microbiology Lab

CLSC 2212 Clinical Chemistry Lab

CLSC 2221 Clinical Practicum

CLSC 2222 Clinical Practicum

CLSC 2223 Clinical Practicum

CLSC 2424 Clinical Practicum

CLSC 2601 Clinical Microbiology

CLSC 2602 Clinical Chemistry

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Computer Information Systems

Faculty: Mitch Slusher, chair; Ray Cone, Linda Fry, James Jordan, Dr. Ron Kern, Rochelle Mears, Willard Mears.

The computer information systems curriculum provides students with practical, jobrelated computer experience. Courses offered provide background terminology and concepts needed to understand and communicate; provide experience with programming languages, operating systems and software products; develop good programming and system design techniques; and encourage students to develop the ability to continue to grow and mature as knowledgeable computer professionals in a rapidly changing field.

Course of Study for Associate in Applied Science Degree Computer Information Systems

Semester Hr	'S
General Education Requirements23	
ENGL 1301 Composition and Rhetoric3	
ENGL 1302 Composition and Literature3	
MATH 1324 Mathematical Analysis for Business I3	
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government3	
HIST 1301 U.S. History to 1877 or	
HIST 1302 U.S. History from 18773	
SPCH 1321 Business and Professional Speech3	
PSYC 2302 Applied Psychology3	
PSYC 2302 Applied Psychology	
Elective (must be outside the major area)3	
Major Requirements39	
BCIS 1200 Programming Logic2	
BCIS 1401 Introduction to Computer Information Systems4	
BCIS 1302 PC Operating Systems3	
BCIS 2305 Systems Analysis Methods3	
BCIS 2377 Cooperative Work Experience	
**Major Emphasis (Select either option I or II below)24	
Total Semester Hours65	
*PHED 1100 should be the first course taken in physical education.	
**Major Emphasis Options:	
Option I - Business Programming	
Semester Hr	S
ACCT 1370 Introduction to College Accounting	
BUSI 2399 Spreadsheet Applications for Decision Making	
BCIS 1320 AS/400 File Processing3	
BCIS 1403 COBOL Programming4	
BCIS 1419 RPG/400 Programming4	
BCIS 2419 Advanced RPG/400 Programming4	
BCIS 2320 AS/400 Operating Systems3	
Total Semester Hours24	

Option II - PC Support Specialist*	
	Semester Hours
BCIS 1303 PC Hardware/Software	
BCIS 1310 Database Management IBCIS 1404 Programming in Pascal	
BCIS 2215 Word Processing	
BCIS 2220 Spreadsheets	
BCIS 2310 Database Management Systems II	3
BCIS 2302 Network Operating Systems	3
BCIS 2415 Advanced Pascal/Data Structures	4
Total Semester Hours	24
*Minimal Entry Requirements: Keyboarding Skills, College Level Red	ading/Writing
Course of Study for Certificate of Techi	nology
Business Programming	
O-march Education Demokramanta	Semester Hours
General Education Requirements ENGL 1301 Composition and Rhetoric	12
MATH 1324 Mathematical Analysis for Business I	3
SPCH 1321 Business and Professional Speech	
ACCT 1370 Introduction to College Accounting	
Major Requirements	
BCIS 1200 Programming Logic	23
BCIS 1401 Introduction to Computer Information Systems	4
BCIS 1419 RPG/400 Programming	4
BCIS 2419 Advanced RPG/400 Programming	4
BCIS 1320 AS/400 File Processing	3
BCIS 2305 Systems Analysis Methods	
BCIS 2320 AS/400 Operating Systems	3
Total Semester Hours	35
PC Support Specialist	
General Education Requirements	9
ENGL 1301 Composition and Rhetoric	<u>3</u>
MATH 1324 Mathematical Analysis for Business I	3
SPCH 1321 Business and Professional Speech	
Major Requirements	29
BCIS 1200 Programming Logic	2
BCIS 1302 PC Operating Systems	
BCIS 1303 PC Hardware/Software BCIS 1310 Database Management Systems I	3
BCIS 1401 Introduction to Computer Information Systems	
BCIS 1404 Programming in Pascal	
BCIS 2215 Word Processing	2
BCIS 2220 Spreadsheets	2
BCIS 2302 Network Operating Systems	3
BCIS 2310 Database Management Systems II	3
Total Semester Hours	38

Computer Information Systems Courses

BCIS 1200 Programming Logic

design and problem solving. Emphasis is placed on interpreting and using design tools and techniques for developing algorithms, interpreting program specifications and solving computer programming problems. Students will create and interpret flowcharts, develop formulas and conduct structured walk-thru's with their peers. (SCANS 1,2,3,5,6,8,9) Prerequisite: ENGL 0370 passed with a "C" or better or a satisfactory placement score.

BCIS 1302 PC Operating Systems

BCIS 1303 Hardware and Software

BCIS 1310 Database Management Systems I

BCIS 1320 AS/400 File Processing

BCIS 1401 Introduction to Computer Information Systems

BCIS 1403 COBOL Programming

BCIS 1404 Pascal Programming

BCIS 1419 RPG/400 Programming

BCIS 2215 Word Processing

BCIS 2220 Spreadsheets

BCIS 2302 Network Operating Systems

BCIS 2305 Systems Analysis Methods

BCIS 2310 Database Management Systems II

BCIS 2320 AS/400 Operating Systems

BCIS 2377 Cooperative Work Experience

BCIS 2415 Advanced Pascal/Data Structures

BCIS 2419 Advanced RPG/400 Programming

Computer Science

Faculty: Mitch Slusher, chair; Ray Cone, Dr. Ron Kern.

The computer science curriculum provides students with course work comparable to the first two years for a bachelor's degree in computer science. The ACM curricula recommendations for computer science (1983) serve as the basis for this area of study.

Course work introduces students to the concept of a program and techniques of good program design, to internal data representations and common data structures, to elementary mathematics associated with computer systems and to a working knowledge of Pascal, C, and assembly programming languages.

The following curriculum in computer science has been designed as a guide for those students wishing to prepare for a bachelor's degree in computer science.

Course of Study for Associate in Science Degree Computer Science

General Education Requirements ENGL 1301 Composition and Rhetoric	Semester Hrs
ENGL 1302 Composition and Literature	3
SPCH 1321 Business and Professional Speech *MATH 1314 College Algebra	3
*MATH 1316 Trigonometry HIST 1301 U.S. History to 1877	3 3
HIST 1302 U.S. History from 1877GOVT 2301 U.S. and Texas Government	3 3
GOVT 2302 American National GovernmentLab Science Sequence in Chemistry or Engineering Physics	8
Lab Science Elective* **PHED (Any two one-hour activity courses)	4 2
Elective (must be outside the major area)	3
Major Requirements COSC 1415 Introduction to Computer Science	4 4
COSC 2418 Programming Concepts II COSC 2420 Programming Structures in C COSC 2425 Organization and Assembly Language	4
Total Semester hours	67

^{*} MATH 1348, MATH 2313 or MATH 2314 may be substituted. Because upper level institutions require advanced math courses, taking additional math courses in your degree plan is recommended.

NOTE: Computer Science majors should consult the degree requirements of the university which they plan to attend before selecting electives or specific general education courses.

^{**} PHED 1100 should be the first course taken in physical education.

Computer Science Courses

COSC 1301 Introduction to Computer Systems (CS 1300)

COSC 1415 Introduction to Computer Science (CS 1450)

COSC 1418 Programming Concepts i (CS 1451)

COSC 2418 Programming Concepts II (CS 2451)

COSC 2420 Programming Structures in "C" (CS 2420)

COSC 2425 Computer Organization and Assembly Language (CS 2455)

Cosmetology

Faculty: Faye Morgan, chair; Sylvia Blain; Lou Ann Hitt; Johnnie Luttrell; Linda Sullivan.

Cosmetology courses at Odessa College seek to provide students with the skill and knowledge required to pass the Texas Cosmetology Commission examination for licensing in Texas and for successful entry into the cosmetology profession. All aspects of the beauty profession are presented, and training also is available for the cosmetologist seeking an instructor's license.

Requirements for admission to the cosmetology program, in addition to the Odessa College admission requirements, are having a personal interview with the department chair, getting a physical examination including a tuberculin test by a licensed physician and sending a \$25 fee and two one and one half inch square pictures to the Texas Cosmetology Commission for a student permit. Students also are required to purchase a cosmetology kit. For admission, applicants should apply to Odessa College and to the chair of the Cosmetology Department.

The program is designed around an open-entry and -exit concept. Students may enroll in the program at any time during the year when a vacancy exists. Because of limited enrollment, students are urged to apply as early as possible before the date of proposed admission.

An advanced standing procedure is available for those individuals who hold a valid Texas cosmetology license which did not result from completion of a program at Odessa College. People in this category who wish to pursue an associate degree may satisfy cosmetology requirements outlined in the associate degree course of study in the following manner: (1) by providing proof of licensure to the college registrar and/or to the director of the cosmetology program; (2) by successfully completing COS 2601 and COS 2603 for a total of 12 semester hours credit; (3) by successfully completing a comprehensive examination for 24 of the 36 required hours of cosmetology listed in the course of study, the examination to be administered and evaluated by the Department of Cosmetology; and (4) by satisfying all other requirements in the course of study for an Associate in Applied Science degree in cosmetology. Any deviation from these stipulations must be petitioned for in writing and approval must be received in advance from the Cosmetology Department chair and the Dean of Humanities and Communications.

Student liability insurance is required for students enrolled in cosmetology.

Course of Study for Associate in Applied Science Degree Cosmetology

		Semester
(General Education Requirements for all Cosmetology Degrees	20
	ENGL 1301 Composition and Rhetoric	3
	ENGL 1302 Composition and Literature	3
	GOVT 2301 U.S. and Texas Government	3
	MATH 1332 Structures of College Mathematics I or	
	higher level math	3
	PSYC 2301 Introduction to Psychology	3
	*PHED (Any two one-hour activity courses.)	3
l	n addition to the 20 hours listed above, students must select one of the fo	llowing option
	Cosmetology Operator Option	
	Major Requirements (1500 Clock Hours)	36
	(Classes meet 8 hours per day, Monday through Thursday)	
	COS 2601 Orientation	6
	COS 2602 Introduction to Cosmetology	6
	COS 2603 Cosmetology I	6
	COS 2604 Cosmetology II	
	COS 2605 Cosmetology III	
	COS 2606 Cosmetology IV	6
E	Elective (must be outside the major area)	4
	Related Required Courses	2
•	MGT 2344 Fashion Promotion	
1	otal Semester Hours	63
e	Note: Students successfully completing the 1500 clock hour major require eligible to take the Texas Cosmetology Commission examination for licens cosmetology operator.	ments are sure as a
C	Students not desiring the Associate of Applied Science Degree may receiv Cosmetology Operator Certificate of Completion by successfully completing COS 2602; COS 2603; COS 2604; COS 2605; and COS 2606.	
	Cosmetology Instructor Option	
k	Major Requirements (750 Clock Hours)	32
	COS 2811 Orientation and Lesson Plan Development	
	COS 2812 Practical Clinical Management	
	COS 2813 Classroom Teaching of Informational Theory	
	COS 2814 Preparation for State Cosmetology Commission	8
E	Elective (must be outside the major area)	5
F	Related Required Courses	
•	MGT 2344 Fashion Promotion	3
	PSYC 2315 Personal Applications of Psychology	
7	Total Semester Hours	
N	lote: Students successfully completing the 750 clock hours major require	ments are sure as a

Students not desiring the Associate of Applied Science Degree may receive a Cosmetology Instructor Certificate of Completion by successfully completing COS 2811, COS 2812, COS 2813 and COS 2814.

*PHED 1100 should be the first course taken in physical education.

Cosmetology Courses

COS 2601 Orientation Introduces field of cosmetology by presenting terminology, concepts, and techniques relevant to the industry. Emphasizes basic principles and practices involving hairdressing, personality development, visual poise, time management, and sanitation/ safety habits.(SCANS 1,4,8,10) Prerequisite: None. **COS 2602 Introduction to Cosmetology** (4-28) 6 hours Develops fundamental knowledge and understanding of related sciences and mathematics relevant to cosmetology. Teaches time management, safety and systematic procedures. (SCANS 3,4,8) Prerequisite or corequisite: COS 2601. COS 2603 Cosmetology I (4-28) ______6 hours Provides instruction of manipulative skills, knowledge and desirable attitudes to promote gainful employment. Emphasizes sociability, and communication skills to maintain customer relationships. Stresses rules, regulations, and preparation for the Texas Cosmetology Commission licensure test. (SCANS 5,9,10,11) Prerequisite: COS 2602. COS 2604 Cosmetology II Provides manipulative skills for rendering personal beauty services. Includes all skills pertaining to hairdressing, nail care and skin care in conjunction with a time schedule. Emphasizes select care and proper use of commercial products and equipment. (SCANS 4.8.9) Prerequisite: COS 2603. COS 2605 Cosmetology III (4-28) 6 hours Presents basic chemical characteristics of cosmetics used in beauty salons. Stresses basic principles of chemistry essential to straighten, curl, color and bleach hair. Teaches customer relations, time management and decision making. (SCANS 4,5,8,9) Prerequisite: COS 2604. COS 2606 Cosmetology IV Introduces principles used in planning a salon. Stresses location, space allotment and installation cost as well as financial aspects of salon operation. Includes insurance needs and legal requirements regarding wages, working hours and working conditions. (SCANS 3,4,5) Prerequisite: COS 2605. COS 2811 Orientation and Lesson Plan Development Develops teaching skills, methods and techniques. Emphasizes basic unit planning and daily lesson development. (SCANS 9,10) Prerequisite: cosmetology operator's license. **COS 2812 Practical Clinical Management** Develops practical clinic management techniques. Includes supervision of students in lab and classroom situations, as well as development of assessment tools. (SCANS

5,8,9). Prerequisite or corequisite: COS 2811.

COS 2813 Classroom Teaching of Informational Theory

COS 2814 Preparation for State Cosmetology Commission

Specialization Programs

Manicurist Specialist Program

A licensed manicurist may practice manicuring and pedicuring for compensation in a licensed beauty salon or manicuring salon.

COS 1501 Manicuring Specialization

Facial Specialist Program

A licensed facial specialist is authorized to practice facials, which entail application of facial cosmetics and facial manipulations. Includes licensed salon work such as eye tabs, arches, lash and brow tints and temporary removal of facial hair.

COS 1603 Facial Specialization I

COS 1604 Facial Specialization II

Shampoo-Conditioning Specialist Program

A licensed shampoo specialist is authorized to render shampoos, scalp manipulations and scalp treatments. Also authorizes the application of conditioners, rinses and shampoos in a licensed beauty salon.

COS 1302 Shampoo and Conditioning Specialist

(The Texas Higher Education Coordinating Board is considering a Shampoo-Conditioning Specialist Certificate of Completion. See the department chair for further information.)

Criminal Justice (see Law Enforcement/Criminal Justice)

Culinary Arts

Faculty: Peter Lewis, chair; Jeffrey Dombeck, Terry Gouley.

Odessa College offers an Associate in Applied Science Degree program in Culinary Arts. This program trains individuals in the basic and advanced principles of food preparation and baking, with additional emphasis focusing on managerial and supervisory skills and practices. The curriculum intends to prepare individuals for entry level professional positions as cooks and bakers and would afford those individuals with sufficient thinking, reasoning and application skills to pursue and obtain advancement in their chosen profession.

Course of Study for Associate in Applied Science Degree Culinary Arts

• • • • • • • • • • • • • • • • • • • •	Semester H
General Education Requirements	29
ENGL 1301 Composition and Rhetoric	3
SPCH 1311 Introduction to Speech Communication	3
PSYC 2301 Introduction to Psychology	3
COSC 1301 Introduction to Computer Systems	
SOCI 1301 Principles of Sociology	
GOVT 2301 U.S. and Texas Government	
ACCT 1370 Introduction to College Accounting	3
MGMT 1301 Introduction to Management	3
MATH 1332 Structures of college Mathematics or	
higher level math	3
*PHED (any two activity courses)	2
Elective (must be outside the major area)	3
• • •	
Major Requirements	27
CA 1201 Food Preparation and Production	
CA 1202 Soups and Sauces	2
CA 1203 Pantry and Short-Order Cooking	2
CA 1206 Introduction to Baking	
CA 1207 Patisserie	2
CA 1208 Classical Desserts	
CA 2210 A La Carte Cooking	2
CA 2211 International Cuisine	2
CA 2212 American Regional Cuisine	
CA 2215 Food Sculpture and Design	
CA 2216 Charcuterie	2
CA 2217 Buffet Theory and Production	
CA 1320 Sanitation Principles and Practices	3
Related Required Courses	40
CA 1221 Tableservice and Mixology	
CA 1321 Tableservice and Mixology	
CA 1321 Stewarding	
CA 2223 Food Service Management	
CA 2223 Food Service Management CA 2224 Menu Design and Layout	∠
On 2224 Wishin Design and Layout	Z
Total Semester Hours	71

*PHED 1100 should be the first course taken in physical education.

Culinary Arts Certificate Program

This program is designed for the individual who cannot commit to two years in a formalized degree program but wishes to obtain employable skills in the food service industry as quickly as possible. Individuals who complete this program and secure employment may continue their studies toward a degree on a part-time basis without having to repeat major or related courses in the degree sequence.

Course of Study for the Culinary Arts Certificate of Completion

	Semester Hrs
General Education Requirements	10
ENGL 1301 Composition and Rhetoric	3
PSYC 2301 Introduction to Psychology	3
MATH 1370 Technical College Mathematics or	
higher level math	3
*PHED	1
Major Requirements	15
CA 1201 Food Preparation and Production	2
CA 1202 Soups and Sauces	2
CA 1203 Pantry and Short Order Cooking	2
CA 2210 A La Carte Cooking	2
CA 2211 International Cuisine	2
CA 2212 American Regional Cuisine	
CA 1320 Sanitation Principles and Practices	
Related Required Courses	8
CA 1222 Tableservice and Mixology	
CA 1321 Stewarding	
CA 1322 Nutrition	3
Total Semester Hours	33

*PHED 1100 should be the first course taken in physical education.

Career Certificate Program

This program is designed for individuals employed within the food service industry who are not interested initially in the Associate in Applied Science Degree or the Culinary Arts Certificate but who wish to pursue certification in one or more courses within the culinary arts curriculum. The Career Certificate Program provides the student with several flexible options:

Option One: Earning credits and/or continuing education units in one or all of the designated major and related major culinary arts courses.

Option Two: Pursuing on a part-time basis those courses that lead towards a credential, either a certificate, diploma or associate of applied science degree.

Option Three: Completing all of the designated courses required to receive a certificate of recognition for accomplishment that could in the future be applied towards a one year diploma or associate of applied science degree.

Course of Study for Career Certificate of Comples	emester Hrs 🚆
CA 1201 Food Preparation and Production	2
CA 1202 Soups and Sauces	2
CA 1203 Pantry and Short Order Cooking	
CA 1206 Introduction to Baking	2
CA 1207 Patisserie	2
CA 1208 Classical Desserts	
CA 2210 A La Carte Cooking	
CA 2211 International Cuisine	
CA 2212 American Regional Cuisine	
CA 1320 Sanitation Principles and Practices	
Total Semester Hours	21
Student Equipment Requirements for Major Cour	ses .
CA 1201, 1202 and 1203	F
Two Chef's uniforms consisting of long-sleeved jackets, checkered pants and Basic Chef's Tool Kit consisting of the following:	aprons.
A. French Knife 8" or 10" blade B. Paring Knife 3 1/2" blade	9
C. Vegetable Peeler	
D. Cook's Fork	
E. Boning Knife—5 1/2" rigid blade	
F. Metal Measuring Spoons	,
G. French Whip	
CA 1206, 1207 and 1208 Two Chef's uniforms consisting of long-sleeved jackets, checkered pants and	anrone
Basic Tool Kit consisting of the following:	aprons.
A. French Knife 8" or 10" blade	
B. Paring Knife 3 1/2" blade	ì
C. Vegetable Peeler	
D. French Whip	1
E. Two Icing Spatulas 8" or 10"	
F. One Wilton Decorating Kit	Î
G. One Serrated Meat Slicer	
CA 2210, 2211 and 2212	1
Uniforms and tool kit identified in CA 1201, 1202 and 1203.	No.
	i
CA 2215, 2216 and 2217 Uniforms and tool kit identified in CA 1201, 1202 and 1203	
1 Set of 1/2" Aspic Cutters	,
1 Exacto Knife	, and the second
1 Set of Butter Sculpture Tools	İ
1 Set of Butter Sculpture 100is	
<u>Culinary Arts Courses</u>	
CA 1201 Food Preparation and Production	
(3-9) [5 weeks]	.2 hours
Introduces the basic principles, concepts and production systems associated the basic principles. The student will be able to read and interpret associated the production of	ted with
basic food preparation. The student will be able to read and interpret med basic calculations to obtain desired food quantities, and select the prescri	ius, periorm
procedures, tools, equipment and food supplies to produce specific menu	items The
student will also be able to apply the principles of food technology to the p	roduction
systems and understand the interrelation between food preparation and the	18
importance of food quality, with emphasis on employing the correct sanita	
procedures. (SCANS 1,3,7,8). Lab fee required. Prerequisite: None. C	orequisite:
CA 1202 and CA 1203 or permission of the instructor.	

CA 1202 Soups and Sauces

CA 1203 Pantry and Short-Order Cooking

CA 1206 Introduction to Baking

CA 1207 Patisserie

CA 1208 Classical Desserts

CA 1221 Tableservice and Mixology (CA 1222)

CA 1320 Sanitation Principles and Practices

CA 1321 Stewarding

CA 1322 Nutrition

CA 2210 A La Carte Cooking

CA 2211 International Cuisine

CA 2212 American Regional Cuisine

CA 2215 Food Sculpture and Design

CA 2216 Charcuterie

CA 2217 Buffet Theory

CA 2223 Food Service Management

CA 2224 Menu Design and Layout

Developmental Studies

Faculty: Ned Pilcher, director; Gregory D. Williams, tutoring services coordinator.

Odessa College offers a developmental studies program for those students who need further development in or who wish to review fundamentals of mathematics, reading, writing and speech. All courses described below in greater detail are elements of the developmental studies program.

These courses are designed to help students achieve fundamental skills that they may not have gained before entering Odessa College and to prepare students for college-level course work. The recommendation to enroll in one, some or all of the developmental courses is made on the basis of diagnostic testing, which can be administered prior to enrollment.

Courses listed below do not satisfy requirements for any degree at Odessa College. Students who intend to transfer to another community college, senior college or university should check with that institution to determine whether the hours earned in developmental studies will transfer for degree credit.

Developmental Science Course

BIOL 0371 Developmental Science

Courses and Services Available in Developmental Studies

English Courses and the Writing Lab

ENGL 0371, Basic English, and the four one-hour lab courses — ENGL 0171, ENGL 0172, ENGL 0173 and ENGL 0174 — are designed to help students become more successful in using grammar and writing skills. The Basic English course covers a wide variety of English fundamentals and is specifically designed to prepare students for ENGL 1301, Composition and Rhetoric. Students may enroll in self-paced or classroom instruction for institutional credit, but none of the English courses listed below satisfy requirements for any degree plan at Odessa College.

ENGL 0370 Basic English (ENGL 1300)

The lab courses, ENGL 0171 through 0174, provide practical help in selected areas of English. They focus specifically on principles of the simple sentence, focus and unity, organization and usage. Students are guided into these courses according to their performance on the TASP test and on placement tests administered in the testing center, located on the second floor of the Student Union Building.

ENGL 0171 Sentence Structure (ENGL 1101)

ENGL 0172 Focus and Unity (ENGL 1102)

ENGL 0173 Organization and Development (ENGL 1103)

ENGL 0174 Usage (ENGL 1104)

The Tutoring Center, located in the Electronics Technology Building, Room 120, and the writing lab, located in Wilkerson Hall, Room 206, offer supplemental, individualized assistance in grammar, spelling, composition and techniques of research to any student who needs improvement in writing ability or skill in literary analysis. Assistance is provided to both walk-in students and students referred by an instructor or by a counselor. Assistance is free of charge.

Math Courses and the Tutoring Lab

MATH 0371, Basic Mathematics, addresses the four fundamental operations of mathematics and additional topics. The course is designed to prepare students for MATH 0372, Introductory Algebra, and should be taken as a preparatory course only. MATH 0372, Introductory Algebra, continues the review of the basic functions in mathematics and introduces elementary algebra concepts. MATH 0375, Intermediate Algebra, completes the review of elementary algebra concepts and prepares the student for entry into College Algebra. Four one-hour lab courses — MATH 0171, MATH 0172, MATH 0173 and MATH 0174 — provide review of mathematics fundamentals, graphing and equations, algebraic operations and quadratics, and geometry and reasoning. None of these courses satisfies the requirements for any degree plan at Odessa College, and they will not be accepted in transfer to other colleges and universities. Students are guided into the courses on the basis of diagnostic pre-tests that are available in the testing center on the second floor of the Student Union Building.

MATH 0371 Basic Mathematics (MATH 1311)

MATH 0372 Introductory Algebra (MATH 1313)

MATH 0373 Elementary Mathematics of Finance (MATH 1315/1321)

MATH 0375 Intermediate Algebra (MATH 1335)

The Tutoring Center, located in Room 120 of the Electronics Technology Building, offers tutoring to Odessa College students and has extensive supplemental materials that parallel the developmental mathematics courses. Audio-tutorial and computer programs demonstrate the relationships between mathematics and everyday situations involving mathematics, in addition to presenting materials on the four basic mathematical operations. Materials and assistance also are available to students wishing to review mathematical concepts related to vocational course work.

The four one-hour lab courses follow. Students are guided into these courses according to their performance on the TASP test and on placement tests administered in the testing center, located on the second floor of the Student Union Building.

MATH 0171 Fundamental Math

MATH 0172 Algebra — Graphing and Equations

66 MATH 0173 Algebra — Operations and Quadratics Provides a review of algebra — operations and quadratics. Presents operations with algebraic expressions. Investigates problems involving quadratic equations, inequalities and their graphs. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 3,4,8,9) Prerequisite: Consent of the instructor. MATH 0174 Geometry and Problem Solving (0-1)1 hour Provides a review of geometry and reasoning. Presents problems involving geometric figures and investigates how to apply reasoning skills, apply combinations of mathematical skills to solve problems. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy

Reading Courses and the Reading Lab

requirements for any degree plan at Odessa College. (SCANS 3,4,8,9) Prerequisite:

An effective citizen must read well, and reading courses help to develop efficient tools to use in today's society. These courses implement the philosophy that the ultimate in reading ability is never reached and that good study skills are predominantly good reading skills. Time spent in a program is an investment in self. All people, regardless of their reading ability or what kind of grades they make, can improve their reading skills.

Courses listed below do not satisfy requirements for any degree at Odessa College. Students who intend to transfer to another community college, senior college or university should check with that institution to determine whether hours earned in reading will transfer for degree credit.

READ 0371 Basic Reading (READ 1300)

Consent of the instructor.

Initiates instruction in developmental reading with emphasis on building vocabulary, increasing reading rate, and improving comprehension. Aims to empower students with independent learning techniques and effective study skills to enhance self esteem and reaffirm the belief in self as a successful learner. Includes individual diagnosis of reading strengths and weaknesses for placement in multi-leveled materials. Lab fee required. (SCANS 1,9,10) Prerequisite: None or placement by counselors.

READ 0372 College Reading (READ 1301)

Stresses efficient learning techniques and application of reading and study skills. Students are encouraged to establish habits that result in increased success in learning in both the classroom and job environments. Includes diagnosis of reading strengths and weaknesses for placement in computer exercises, timed reading practices and vocabulary study. (SCANS 1,9,10). Lab fee required. Prerequisite: Read 0371 passed with a "C" or better or satisfactory placement score.

READ 0373 Advanced College Reading (READ 1302)

(3-0)3 hours Continues independent work to maintain improved critical reasoning skills designed to meet specific needs in comprehension, vocabulary, rate, and study skills. The student monitors and corrects ineffective behavior as he assesses self accurately, sets personal goals, and monitors progress. (SCANS 1,7,9,10) Lab fee required. Prerequisite: Read 0372 passed with a "C" or better or satisfactory placement score.

College Reading Techniques

The college reading techniques courses taught in the Electronics Technology Building, Room 110, provide an alternative reading program with structured, individualized, self-paced instruction.

Registration is open to everyone, and anyone may enroll for non-credit or for one, two or three semester hours of credit. Non-credit enrollment also is available for junior and senior high school students. Standardized tests are given to determine beginning reading performance levels and specific areas of need. Through student-teacher conferences, a self-paced plan of action is developed to set immediate and long-range goals. Pre-tests are scheduled by appointment with the instructor in the Electronics Technology Building, Room 123.

Students enrolling in any of the three lab courses should consult with the lab instructor as early in the semester as possible to arrange a meeting time. Materials covered and skills learned in the three one-hour reading lab courses — READ 0171, READ 0172 and READ 0173 — are equal to one three-hour college reading course.

READ 0171 Improving Reading Skills (READ 1101)

READ 0172 Improving Reading Flexibility (READ 1102)

READ 0173 Improving Reading Rate and Comprehension (READ 1103)

Speech Communication

Speech 0300 is designed to help students develop skills in various areas of oral communication. This institutional-credit course should be taken for personal growth in communication skills and as a preparatory course for other college courses; it does not satisfy requirements for any degree plan at Odessa College. SPCH 0300 explores communication with self, one-to-one, small groups and one-to-many by examining self-concept, non-verbal communication, listening skills, perception, use of language and the organization and presentation of speeches.

SPCH 0300 Basic Speech Communication Skills (SPCH 1300)

Diesel Mechanics (see Automotive Technology and Diesel Mechanics)

Drafting Technology

Faculty: James McPherson, chair.

Drafters 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. The drafting program is designed to provide basic preparation for entry-level employment.

Course of Study for Associate in Applied Science Degree

	Semester nrs
General Education Requirements	17
ENGL 1301 Composition and Rhetoric	
or ENGL 1312 Report Writing	3
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
MATH 1314 College Algebra College Algebra far Business	
MATH 137# Tachaires College Algebra	→ ≤
MATH 1316 Plane Trigonometry	3
GOVT 2301 U.S. and Texas Government	3
*PHED (Any two one-hour activity courses)	2
Elective (must be outside the major area)	
· · · · · · · · · · · · · · · · · · ·	
Major Requirements DRAF 1401 Technical Drafting	3 I
DRAF 2401 Architectural Drafting	
DRAF 2402 Machine Drafting	
DRAF 2404 Piping Drafting	
DRAF 2406 Structural Drafting	4
DRAF 2408 Computer Aided Drafting	4
DRAF 2418 Advanced Computer Aided Drafting	
DRAF 2377 Cooperative Work Experience	3
Related Requirements	14
PETR 1300 Petroleum Overview	3
WELD 1401 General Welding	4
WELD 1401 General Welding MACH 1401 Basic Machine Shop Fundamentals	4
OSHA 2395 Industrial Safety	3
Total Semester Hours	
Certificates of Technology	
Architectural Detailer	
General Education Core	
ENGL 1301 Composition & Rhetoric	
or ENGL 1312 Report Writing	3
MATH 1314 College Algebra	
or MATH 1372 Technical College Algebra	3
Technical Core	
OSHA 2395 Industrial Safety	3
DRAF 1401 Technical Drafting	4
DRAF 2401 Architectural Drafting	4
DRAF 2406 Structural Drafting	4
- · · · · - · · · · · · · · · · · · · ·	·····

	DRAF 2408 Computer Aided Drafting
	Total Semester Hours33
	Machine Drafting Detailer General Education Core ENGL 1301 Composition & Rhetoric or ENGL 1312 Report Writing
	Technical Core MACH 1401 Basic Machine Shop Fundamentals
	Total Semester Hours34
	Structural Drafting Detailer General Education Core ENGL 1301 Composition & Rhetoric or ENGL 1312 Report Writing
	Technical Core WELD 1401 General Welding
	Total Semester Hours29
•	Pine Drafting Detailer
	Pipe Drafting Detailer General Education Core ENG® 1312 Report Writing
	Technical Core OSHA 2395 Industrial Safety
	Total Semester Hours25
	Drafting Technology Courses
	DRAF 1401 Technical Drafting (2-4)

DRAF 2377 Cooperative Work Experience A capstone course designed to inter-relate academic and vocational course lectures and labs with business and industry work experiences. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the areas of personal, interpersonal, and problem solving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5,7,9,10,11) Prerequisite: Sophomore standing and consent of the department chair. **DRAF 2401 Architectural Drafting** Presents the fundamental concepts, terminology and procedures of residential architecture. Competencies include lettering, interpreting information, procedures and communication of written thoughts through cost estimation. (SCANS 1,2,3,8) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304. **DRAF 2402 Machine Drafting** Competencies include the skills needed to create engineering sketches, conventional practices, detail and assembly drawings and fasteners. Emphasis is placed on the use of common reference manuals to locate and interpret information, performing mathematical calculations, teamwork, drafting procedures and problem solving. (SCANS 1,3,5,8,9) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304. **DRAF 2403 Technical Illustration** (2-4)4 hour Competencies include skills needed to produce pictorial drawings used in industrial catalogs, training aids, engineering designs, assembly sheets and promotional literature. Emphasis is placed on interpreting drawings, using appropriate procedures and problem solving. SCANS (1,8,9) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304. **DRAF 2404 Piping Drafting** (2-4)4 hour Study of pipes and pipe fittings, symbols and specifications of process systems. Competencies emphasize the drawing of flow diagrams, pumps, compressors and various other mechanical equipment. Emphasis is placed on interpreting data from manuals, performing appropriate mathematical calculations, interpreting information, choosing appropriate procedures and problem solving. (SCANS 1.3.6.8.9) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304. **DRAF 2406 Structural Drafting** Competencies include the design and development of details and specifications for industrial structures. Emphasizes structural steel, pipe, reinforced concrete, interpreting technical data, appropriate mathematical calculations, information evaluation and problem solving. (SCANS 1,3,6,9) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304. **DRAF 2408 Computer-Aided Drafting** (2-4)4 hour An introductory course; Competencies cover basic commands and functions utilized to produce drawings using the computer terminal, menu tablet, printer and/or plotter. Emphasizes learning and applying system functions to basic problems, interpreting

instructions, problem solving, organizing drawing files and problem solving. (SCANS

1,3,8,9) Lab fee required. Prerequisite: DRAF 1401 or ENGR 1304.

DRAF 2411 Advanced Architectural Drafting (2-4)4 hour À continuation of DRAF 2401. Competencies include commercial and industrial construction. Emphasis is placed on interpreting information, appropriate mathematical calculations, communicating ideas, interpreting information, creative thinking and communication procedures. (SCANS 3.6.9.11) Lab fee required. Prerequisite: DRAF 2401. **DRAF 2412 Advanced Machine Drafting** A continuation of DRAF 2402. Competencies include a thorough study of position geometric dimensioning and tolerancing. Emphasizes interpretation of information, creating documents, performing mathematical calculation, working as a team, evaluating information, using correct procedures, and problem solving. (SCANS 2,3,5,6,8,9) Lab fee required. Prerequisite: DRAF 2402. **DRAF 2413 Advanced Technical Illustration** (2-4)4 hour A continuation of DRAF 2403. Competencies include inking, shading, and airbrush rendering. Emphasizes the use of correct procedure, creative thinking and self management. (SCANS 8,9,10) Lab fee required. Prerequisite: DRAF 2403. **DRAF 2418 Advanced Computer-Aided Drafting** (2-4)4 hour A continuation of DRAF 2408. Competencies include skills applied to advanced CAD drafting assignments by using more complex capabilities of the equipment to produce customized menus, libraries, reports and graphic presentations. The use of advanced editing techniques, report generation, drawing interchange files and configuration changes are also discussed and practiced. Emphasizes interpreting written material, information processing by the computer, applying CAD technology and problem solving. (SCANS 2,6,8,9) Lab fee required. Prerequisite: DRAF 2408. Economics (see Social Sciences)

Education

Course of Study for Associate in Arts Degree

Education Majors

	Semester Hrs
General Education Requirements	63
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
MATH 1314 College Algebra or	
MATH 1332 Structures of College Mathematics or	
higher level math	3
Any four hour laboratory science	
**An additional college level math or laboratory science	3-4
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	
HIST 1301 United States History to 1877	
	3

COSC 1301 Introduction to Computer Systems
Elective (must be outside the major area)3
Elementary Education
Electives (Should be selected from social science, natural science, mathematics, foreign languages, fine arts, and humanities)
Secondary Education
Electives (Should be selected from freshman and sophomore courses which will count toward a specialized teaching field. This teaching field must be in a discipline which is taught in the secondary schools. Before elective courses are selected, education students are strongly encouraged to consult with the catalog of senior institution to which they intend to transfer)
Total Semester Hours63
*PHED 1100 should be the first course taken in physical education.

**These will meet the six to eight hours required in either Math or Science for an Associate

Educational Aide

of Arts Degree.

Faculty: Maryln Hair, chair; Mary Joyce Harding.

With increased need for individualized instruction of children beginning with preschool, school districts are hiring more educational aides. Other aides may be hired in the clerical and media area. The educational aide program provides training in basic educational skills, understanding of how children develop and learn and an understanding of how the school system operates in addition to reading, writing, bilingual and media skills. Emphasis will be placed on practical experience, human development, development of skills and the interpersonal relations needed for working with students and staff.

For students employed as educational aides, all lab activities and requirements can be met at their places of employment.

Student liability insurance is required for all educational aide and child development lab classes.

Course of Study for Associate in Applied Science Degree Educational Aide

General Education Requirements	Semester Hrs
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	3
MATH 1314 College Algebra or	
MATH 1371 College Algebra for Business	3
COSC 1301 Introduction to Computer Systems	3
SPCH 1321 Business and Professional Speech or	
SPCH 1315 Public Speaking	3
PHED 1306 First Aid	

SOCI 2319 American Minorities* *PHED 1331 Movement and Recreation or	3
any two one-hour activity courses	2-3
Elective (must be outside the major area)	
Major Requirements	42
EA 1300 School Procedure	
EA 2300 MediaEA 2301 Teaching Skills	3
EA 2301 Teaching Skills	 ຈ
EA 2303 Bilingual Teaching Skills	3
EA 2600 Application of Learning Theories	6
CHLD 1304 The Abused and Neglected Child	3
CHLD 1305 Creative Activities for Children or	
CD 2305 Children's Language and Literature Dev CHLD 2306 Science and Math Activities for Children	elopment3
CHLD 2306 Science and Math Activities for Childi CHLD 1307 Discipline and Classroom Manageme	
CHLD 1310 Child Growth and Development from	School Age through Adolescence or
PSYC 2308 Child Psychology	3
CHLD 2301 Personal and Family Management	
CHLD 2304 The Special Child	3
Total Semester Hours	68-69
*PHED 1100 should be the first course taken in physic	al education.
Educational Aide C	<u>ourses</u>
EA 1300 School Procedure	
(3-0) An orientation course covering school organization	3 hours
individual instruction and staff utilization. Explores	n, procedures, general practices, and emphasizes teacher's and
assistant teacher's roles. (SCANS 5,7,10) Prerequ	uisite: None.
EA 2300 Media	
(2-3)	3 hours
Introduces instructional media, including practical	uses of the microcomputer used in
public schools. Includes preparation and application	on of visual materials such as
transparency processing, lettering and duplicating	. Requires students to demonstrate
competency in operating all audiovisual classroon	n equipment and microcomputers.
(SCANS 8) Prerequisite: None.	
EA 2301 Teaching Skills	
(2-3)	3 hours
Includes techniques of assisting the teacher in tea reading, reading readiness, phonics, science, writ	
include individualized instruction and classroom m	nanagement (SCANS 1.2.3)
Prerequisite: None.	anagoment. (00/110 1,2,0)
•	
FA 2302 Special Chiid	
EA 2302 Special Child (2-3)	3 hours
(2-3)	
(2-3)	dentify disability areas in which to primarily by individualized
(2-3)	dentify disability areas in which to primarily by individualized
(2-3)	dentify disability areas in which to , primarily by individualized r consent of the department chair.
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(2-3)	dentify disability areas in which to primarily by individualized r consent of the department chair. 3 hours lls (listening, speaking, reading and
(2-3)	dentify disability areas in which to primarily by individualized r consent of the department chair.
(2-3)	dentify disability areas in which to primarily by individualized reconsent of the department chair.

EA 2600 Application of Learning Theories

(1-1	17)6 hours
•	Requires working with children under supervision of experienced teacher. Also
	requires evidence of teacher-aide competency in the areas of personal, interpersonal
	and thinking skills, as well as competency in instructing reading, writing, and math.
	(SCANS 1,2,3,5,9,10) Lab fee required. Prerequisite: 24 hours of EA and CHLD,
	including EA 1300 and EA 2301, and/or consent of the department chair. Requires a
	grade of "C" or better for credit to be validated.

Electrical/Electronics Technology

Faculty: Danny Bailey, chair.

The electrical/electronics technology curriculum is designed to prepare individuals for technical careers in the industrial electrical field. Students may follow a plan leading toward an associate in applied science degree or follow a plan leading toward a certificate. Individuals currently employed in the field can increase or update their technical knowledge and skills by enrolling in specialized electrical/electronics courses (note prerequisites). While the overall program is broad based, some specialization is possible in motors, controls, and programmable controllers in electrical technology and communication and computer repair in electronics technology.

Course of Study for Associate in Applied Science Degree Electrical Technology

Semester I	Hrs
General Education Requirements20	
ENGL 1301 Composition and Rhetoric	
or ENGL 1312 Report Writing3	
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech3	
COSC 1301 Introduction to Computer Systems3	
GOVT 2301 U.S. and Texas Government3	
MATH 1372 Technical College Algebra or	
MATH 1314 College Algebra or	
MATH 1371 College Algebra for Business	
PSYC 2302 Applied Psychology3 *PHED (any two one-hour activity courses)2	
*PHED (any two one-hour activity courses)2	
Elective (must be outside the major area)3	
* PHED 1100 should be the first course taken in physical education.	
Technical Core16	
ELEC 2410 National Electrical Code4	
MAIN 1402 Plumbing4	
BLDG 2404 Structural Repair4	
HVAC 1401 Refrigeration Theory4	
Major Requirements26	
ELEC 1401 D.C. Circuits	
ELEC 1404 Electronics I	
ELEC 2302 Electrical Power Technology	
ELEC 2400 Electronics II4	
ELEC 2404 Electrical Machinery and Controls	

ELEC 2411 Programmable Logic Controllers
Total Semester Hours65
Credit for ELEC courses may be awarded by passing an advanced standing examination. Students with prior training or experience who wish to apply for advanced standing should contact the department chair.
Certificates in Electrical Technology
Electrical Technician
General Education Core TMTH 1370 Technical College Mathematics
or higher math3
PSYC 2302 Applied Psychology3
Technical Core
ELEC 1401 DC Circuits4
ELEC 2404 Electrical Machinery and Controls4
ELEC 2410 National Electrical Code
Total Hours18
Advanced Electrical Technician
General Education Core
TMTH 1370 Technical College Mathematics or higher math
COSC 1301 Intro to Computer Systems
PSYC 2302 Applied Psychology3
Technical Core
ELEC 1401 DC Circuits4
ELEC 1404 Electronics I4
ELEC 2205 Electronic Instruments2
ELEC 2302 Electrical Power Technology3
ELEC 2305 Electrical Business Operations
(May be substituted with department chair's approval)
ELEC 2400 Electronics II
ELEC 2404 Electrical Machinery and Controls4
ELEC 2410 National Electrical Code4
ELEC 2411 Programmable Logic Controllers4
Total Hours44
Course of Study for Associate in Applied Science Degree
Electronics Technology
Semester H
General Education Requirements20
ENGL 1301 Composition and Rhetoric
or ENGL 1312 Report Writing
SPCH 1315 Public Speaking of SPCH 1321 Business and Professional Speech3
COSC 1301 Introduction to Computer Systems
GOVT 2301 U.S. and Texas Government3
MATH 1372 Technical College Algebra or
MATH 1314 College Algebra or
MATH 1371 College Algebra for Business
1 010 2002 Applied Payorology

*PHED (any two one-hour activity courses)2
Elective (must be outside the major area)3
*PHED 1100 should be the first course taken in physical education.
Major Requirements 39 ELEC 1401 D.C. Circuits 4 ELEC 1402 Computer Circuits I 4 ELEC 1403 A.C. Circuits 4 ELEC 1404 Electronics I 4 ELEC 1408 Computer Circuits II 4 ELEC 2400 Electronics II 4 ELEC 2401 Two Way Radio 4 ELEC 2408 Computer Circuits III 4 ELEC 2414 Circuit Analysis 4 ELEC 2377 Cooperative Work Experience 3
Related Requirements4 DRAF 1401 Technical Drafting4
Total Semester Hours66
Credit for ELEC courses may be awarded by passing an advanced standing examination. Students with prior training or experience who wish to apply for advanced standing should contact the department chair.
Certificates in Electronics Technology
Certificate for Electronics Technician Semester Hrs
General Education Core TMTH 1370 Technical College Math or Institute Math 1322 Technical College Algebra 3 Technical Core ELEC 1401 D.C. Circuits 4
ELEC 1402 Computer Circuits I 4 ELEC 1403 A.C. Circuits 4 ELEC 1404 Electronics I 4 ELEC 1408 Computer Circuits II 4
Total Semester Hours23
Certificate for Advanced Electronics Technician
General Education Core TMTH 1370 Technical College Math or Math 1372 Technical College Algebra 3 COSC 1301 Intro to Computer Systems 3 ENGL 1312 Report Writing 3
Technical Core ELEC 1401 DC Circuits 4 ELEC 1402 Computer Circuits I 4 ELEC 1403 A.C. Circuits 4 ELEC 1404 Electronics I 4 ELEC 1408 Computer Circuits II 4 ELEC 2400 Electronics II 4 ELEC 2401 Two Way Radio 4 ELEC 2408 Computer Circuits III 4 ELEC 2414 Circuit Analysis 4 Total Semester Hours 45

Electronics Technology Courses

ELEC 1401 D. C. Circuits

ELEC 1402 Computer Circuits I

ELEC 1403 A.C. Circuits

ELEC 1404 Electronics I

ELEC 1408 Computer Circuits II

ELEC 2205 Electronic Instruments

ELEC 2302 Electrical Power Technology

ELEC 2305 Electrical/Electronics Business Operations

ELEC 2377 Cooperative Work Experience

A capstone course designed to inter-relate academic and vocational course lectures and labs with business and industry work experiences. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the areas of personal, interpersonal, and problem solving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5,7,9,10,11) Prerequisite: Sophomore standing and consent of the department chair.

ELEC 2400 Electronics II

ELEC 2401 Two-way Radio

ELEC 2404 Electrical Machinery and Controls

ELEC 2408 Computer Circuits III

ELEC 2410 National Electrical Code

ELEC 2411 Programmable Logic Controllers

ELEC 2414 Circuit Analysis

Emergency Medical Technology

Faculty: Lee Don Martin, chair; Phyllis Howard, Dr. Weldon Butler, medical director.

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

The curriculum is primarily designed for ambulance personnel, safety engineers, rescue squad workers, policemen, firemen, 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, Emergency Medical Services Division.

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 Department of Health, Division of Emergency Medical Services, and the U.S. Department of Transportation. The training includes both theoretical and practical applications of emergency medical care.

Enrollment in EMED 2801 and EMED 2802 is limited, and students are urged to contact the department chair early to ensure acceptance to the program. Applicants or those seeking additional information should contact the emergency medical technology director or counseling center.

Enrollment in EMED 1301, 2401, 2801 and 2802 requires student liability insurance.

Course of Study for Associate in Applied Science Degree Emergency Medical Technology

First Year

First Semester
Semester Hrs
BIOL 1170 Medical Terminology
BIOL 2401 Anatomy and Physiology I4
ENGL 1301 Composition and Rhetoric3
GOVT 2301 U.S. and Texas Government or
GOVT 2302 American National Government
MATH 1332 Structures of College Mathematics or
higher level math
higher level math
One-hour activity course
OCOOTIG OCITICATES
BIOL 2402 Anatomy and Physiology II
EMED 1301 Clinical Practicum3
EMED 1501 Emergency Care of Sick and Injured5
ENGL 1302 Composition and Literature
PHED One-hour activity course1
First Summer Session
EMED 2201 Basic Electrocardiography and Introduction to
Emergency Pharmacology2
• •
Second Year
Third Semester
COSC 1301 Introduction to Computer Science
EMED 2801 Advanced Emergency Care of Sick and Injured8
NURS 1201 Pharmacology2
Elective3-4
Fourth Semester
EMED 2802 Advanced Emergency Care of Sick and Injured8
PSYC 2301 Introduction to Psychology
SPCH 1321 Business and Professional Speech
·
Total Semester Hours63-64

Course of Study for Certificate of Completion

Basic Emergency Medical Technician

First Semester EMED 1301 Clinical Practicum EMED 1501 Emergency Care of Sick and Inju- *PHED One-hour activity course	red5
Second Semester SPCH 1321 Business and Professional Speed COSC 1301 Introduction to Computer Science	;h3
Total Semester Hours	15
Intermediate Emergency Me	edical Technician
First Semester EMED 1301 Clinical Practicum EMED 1501 Emergency Care of Sick and Injury SPCH 1321 Business and Professional Speed	red5
Second Semester EMED 2401 Intermediate Practicum EMED 2601 Intermediate Care of the Sick and COSC 1301 Introduction to Computer Science *PHED One-hour activity course	d Injured6
Total Semester Hours	25
Advanced Emergency Med	<u>dical Technician</u>
First Semester EMED 1301 Clinical Practicum EMED 1501 Emergency Care of Sick and Injur	3 red5
Second Semester SPCH 1321 Business and Professional Speed COSC 1301 Introduction to Computer Science *PHED One-hour activity course EMED 2201 Basic Electrocardiography and Interpretation of the second seco	93 1 troduction to
Third Semester EMED 2801 Advanced Emergency Care of the	e Sick
or Injured EMED 2802 Advanced Emergency Care of the or Injured	e Sick
Total Semester Hours	33
*PHED 1100 should be the first course taken in ph	ysical education.
Emergency Medical Tec	hnology Course
EMED 1301 Clinical Practicum (0-9) Introduction to emergency patient care. Design required of students wishing to write the exam, Includes students writing and interpreting patier learn to prioritize care, participate as part of the perform skills to their level of knowledge and ab pre-hospital setting and hospital setting, and leak knowledge and skills. The student will be responded as and learn to communicate with instructors patients. (SCANS 1,2,4,5,8,9,10,11) Corequisity	ned to complement EMED 1501 and for emergency medical technician. In records and relevant reports. Students ambulance and hospital team, and sility. Students will be exposed to the farm how to apply and use their consible for achieving their EMED clinical so, hospital, and ambulance staff and

82 EMED 1501 Emergency Care of the Sick and Injured Introduction to roles and responsibilities of the emergency medical technician by presenting terminology, concepts and techniques of pre-hospital patient care. Students learn to prioritize emergency care, medical-legal aspects, functional anatomy, cardiac and pulmonary problems, wounds and fractures, medical and environmental emergencies, extrication, rescue and ambulance operations. Students will function as part of the pre-hospital team and learn how to control an emergency and apply their new knowledge and skills and achieve the goal of communicating with medical personnel and patients. Prepares student to write the basic EMED state certification. Students must complete EMED 1201 as corequisite: Lab fee required. State certification fee required. (SCANS 1,2,4,5,7,8,9,10) Prerequisite: Must be 18 years of age. **EMED 2200 Emergency Medical Review** (2-0) ______2 hours Presents periodic review of terminology, concepts and techniques needed to meet the continuing education needs of the EMT. Students learn methods of prioritizing tasks

and skills as well as improved communication skills as well as the latest techniques and theories of emergency medicine. Lab fee required. (SCANS 1,2,4,8,9,11) Prerequisite: Basic EMT Certification.

EMED 2201 Basic Electrocardiography and Introduction to Emergency Pharmacology (4-0) [6 weeks]2 hours Presents terminology, concepts and techniques needed to begin a study of paramedic level training. Covers cardiac fundamentals, cardiac monitoring and basic concepts of the electrical system of the heart. Presents emergency cardiac pharmacology concepts to students. Requires ability to perform basic drug calculations. (SCANS 1,3,6,9) *This course will be a prerequisite to EMED 2801 starting in the fall 1995 semester.

EMED 2400 Advanced Paramedic Review

(4-0)4 hours Presents students with terminology, concepts, new technology of emergency medicine and team approach concepts. Allows students to learn new techniques and skills. (SCANS 1,2,5,8,9) Prerequisite: Current EMT-Paramedic Certification.

EMED 2401 Intermediate Practicum

(0-10)4 hours Designed to complement EMED 2604. Presents clinical opportunities for the student to meet the competencies required on an EMT-I. Students work in various hospital departments and on an MICU ambulance, where they provide patient care. Students must be able to communicate with multiple agencies, have leadership qualities, be able to perform treatments. Students must be professional, and have high medical ethic standards. (SCANS 1,2,5,8,9,10,11) Corequisite: EMED 2601.

EMED 2601 Intermediate Care of the Sick and Injured

Students will be introduced to intermediate level of emergency care of sick and injured patients. Students must be able to communicate with a medical director, medical facilities and mobile intensive care ambulance units. Students must be able to perform at a higher level than the EMT by mastering the intermediate skills of advanced airway procedures, IV therapy, advanced patient assessment and MAST pants therapy. Students must understand the anatomy and physiology in greater depth, and learn to assess patients to a higher degree who may require the advanced emergency care. Critical workplace competencies include leadership, decision making ability, team work with various other agencies. Personal qualities must include responsibility, sociability, self-motivation, self-management and good medical ethics to ensure safe and efficient patient care. Lab fee required. (SCANS 1,2,3,4,5,7,8,9,11) Prerequisites: Current Texas EMT certification, and be 18 years of age. Corequisite: EMED 2401.

EMED 2801 Advanced Emergency Care of the Sick or Injured

EMED 2802 Advanced Emergency Care of the Sick or Injured

Engineering

Faculty: George Brewer, chair; Delmos Hickmott, Robert Keating.

The curriculum in engineering has been designed for those students who wish to prepare for professional engineering degrees. Students should be aware of specific requirements of the college or university to which they may ultimately transfer. The program below is a suggested one and may be modified to conform to requirements of the students' chosen transfer institution.

Course of Study for Pre-Engineering

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General Education Requirements	
ENGL 1301 Composition and Rhetoric	3
SPCH 1321 Business and Professional Speech	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
MATH 1348 Analytic Geometry	
MATH 2313 Calculus I	
PHYS 2425 Engineering Physics I	4
PHYS 2426 Engineering Physics II	<u></u>
*PHED (Any two one-hour activity courses)	2
· ·	
Elective (must be outside the major area)	3
Major Requirements	21
ENGR 1370 Engineering Analysis	3
ENGR 1304 Engineering Drawing	
ENGR 2301 Mechanics I	
ENGR 2302 Mechanics II	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2320 Differential Equations	

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Related Requirements	
Total Semester Hours70	
*PHED 1100 should be the first course taken in physical education. Chemical engineering majors should take Chemistry 2323, 2123, 2125 and 2325. It is recommended that all engineering majors take MATH 2318 (Linear Algebra) if time permits.	
Students pursuing engineering as a career who desire an associate degree are advised to follow the curriculum for an associate in science degree.	
Engineering Courses	•
ENGR 1304 Engineering Drawing (ENGR 1301)	
(2-4)	
The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing and planning actions necessary to solve problems. Students will further develop and/or discover mathematical relationships and acquire skills in gathering, organizing and evaluating information. (SCANS 3,6,9) Prerequisite: None.	Application of the second
ENGR 1370 Engineering Analysis (ENGR 1300)	•
(3-0)	
organizing, processing and planning actions necessary to solve problems. Students will further develop and/or discover mathematical relationships and acquire skills in gathering, organizing and evaluating information. (SCANS 3,6,9) Lab fee required. Prerequisite: None; however, algebra, trigonometry and physics backgrounds are recommended.	
ENGR 1305 Descriptive Geometry (ENGR 1303)	B100000000
(2-4)	٠
introduces principles of descriptive geometry, auxiliary views, developments, intersections, double-curved and warped surfaces, point, line and plane problems, and their applications to problems of engineering and architecture. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing and planning actions necessary to solve problems.	S. Alliander
Students will further develop and/or discover mathematical relationships and acquire skills in gathering, organizing and evaluating information. (SCANS 3,6,9) Prerequisite: ENGR 1304 or DT 1401.	•
ENGR 2301 Mechanics I (ENGR 2303) (3-0)	
A basic mechanics course utilizing vectors and tensors. Introduces statics, including concepts of free-body diagrams, friction forces and virtual-work as well as motion of particles, including momenta, energy and work concepts. The student will learn to select appropriate mathematical techniques and technologies and use skills in	
information organizing, processing and planning actions necessary to solve problems. Students will further develop and/or discover mathematical relationships and acquire skills in gathering, organizing and evaluating information. (SCANS 3,6,9) Prerequisite or corequisite: MATH 2314.	
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ENGR 2302 Mechanics II (ENGR 2304)

English and Foreign Languages

Faculty: Imogene Pilcher, chair; Dr. Joe C. Buice (ret.), Dr. Judith Cornes, Dr. Elizabeth Gillette (ret.), Dr. Aija Hoover, Larry Hoover, Wayne Johnson, Mark Jordan, Ulrike Kalt, Dr. Daryl Lane, Ned Pilcher, Ivan Reyez, Donna Smith, Dr. Michael White, Lynn Whitson, Stanley Williams.

Language defines us as human; without language we would never have evolved from a mere animal-like existence. Not only is language the means by which we communicate with others and thus create societies and culture, it also is the sole means we have of shaping and controlling our thought. Indeed, without language, we would have no science, no religion, no technology, no civilization. Abilities to communicate and think with precision and flexibility are more than just useful skills; they are fundamental to our survival and to our progress as humankind.

Further, without the power to read intelligently, we would be spiritually diminished; the full richness of our cultural heritage would be inaccessible to us. In great literature, civilizations have recorded not only their exploits, but also psychological and cultural truths that unfold in archetype and myth. Literature is both the magnifying glass and the mirror through which we learn of others' cultural experiences and see our own more clearly.

Students in literature and languages study the structure, the resources, the nuances of languages, and they read many of the world's literary masterpieces. They pursue the skills necessary for clear, effective, forceful communication and intelligent, perceptive, analytical reading.

The Tutorial Lab

The Writing Lab is located in the Electronics Technology Building, Room 120. An additional writing Word Processing Lab is located in Wilkerson Hall, Room 206. These labs offer supplemental, individual instruction in grammar, spelling, composition and techniques of research to any student who needs improvement in writing ability or skill in literary analysis. Assistance is provided to both walk-in students and students referred by any instructor. All assistance is free of charge.

Course of Study for Associate in Arts Degree English Major

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General Education Requirements	Semester Hrs
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
**MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I	3

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**MATH 1316 Plane Trigonometry or MATH 1333 Structures of College Mathematics II or MATH 1342 Mathematical Statistics	
Elective (must be outside the major area)3	,,,,,,,
Major Requirements	
Approved Electives6	
Total Semester Hours66	
*PHED 1100 should be the first course taken in physical education. Students who have some knowledge of a foreign language are advised to consider the advanced standing examination program for credit by examination.	
** Students should check math requirement of designated senior institution.	
English Courses	
ENGL 0171 Sentence Structure (ENGL 1101)	
(0-1)	
ENGL 0172 Focus and Unity (ENGL 1102)	***
(0-1)	
unity in a piece of writing as well as composition techniques. Prepares student for the TASP examination and for ENGL 0370 and ENGL 1301. Credit probably not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 2,9). Lab fee required. Prerequisite: Consent of the instructor.	
ENGL 0173 Organization and Development (ENGL 1103)	
(0-1)	=
ENGL 0370 and ENGL 1301. Credit probably not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 2,9). Lab fee required. Prerequisite: Consent of the instructor.	
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ENGL 0174 Usage (ENGL 1104)

ENGL 0370 Basic English (ENGL 1300)

ENGL 1301 Composition and Rhetoric (ENGL 1311)

ENGL 1302 Composition and Literature (ENGL 1312)

ENGL 1309 Advanced Composition and Rhetoric (ENGL 2305)

ENGL 1312 Report Writing (ENGL 1321)

ENGL 2307 Creative Writing (ENGL 2340)

ENGL 2311 Technical and Report Writing (ENGL 2330; 2314) Consists of reading and writing technical documents used in business and industry. Offers practical experience in the use of technical terms and in the processes of collection, interpretation, organization, and textual presentation of data. Students should check with universities regarding course transferability. (SCANS 2,6,9). Prerequisite: ENGL 1302. ENGL 2322 Survey of British Literature I (ENGL 2350) Consists of reading and analyzing significant works of British literature from the Old English period through the Neoclassical period. Requires research paper or several short analytical papers. Required of all English majors. (SCANS 1,2,9). Prerequisite: ENGL 1302. ENGL 2323 Survey of British Literature II (ENGL 2360) Consists of reading and analyzing significant works of British literature from the Romantic period to the present day. Requires research paper or several short analytical papers. Required of all English majors. (SCANS 1,2,9). Prerequisite: ENGL 1302. ENGL 2327 Survey of American Literature I (ENGL 2380) (3-0)3 hours Consists of reading and analyzing significant works of American literature from the Colonial period through the Romantic period. Requires research paper or several short analytical papers. (SCANS 1,2,9). Prerequisite: ENGL 1302. ENGL 2328 Survey of American Literature II (ENGL 2390) Consists of reading and analyzing significant works of American literature from the Realistic period to the present day. Requires research paper or several short analytical papers. (SCANS 1,2,9). Prerequisite: ENGL 1302. ENGL 2332 Survey of World Literature I (ENGL 2310) Consists of reading and analyzing significant works of literature of the western world from the Classical period through the Renaissance. Requires research paper or several short analytical papers. (SCANS 1,2,9). Prerequisite: ENGL 1302. ENGL 2333 Survey of World Literature II (ENGL 2320) Consists of reading and analyzing significant works of literature of the western world from the Neoclassical period through the present day. Requires research paper or

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several short analytical papers. (SCANS 1,2,9). Prerequisite: ENGL 1302.

Students who enroll in ENGL 0370-Word Processing or ENGL 1301-Word Processing and who lack keyboarding skills should also enroll in OE 1100 Basic Keyboarding Skills, a one-hour, four-week course that develops touch-method skills on the alpha-numeric keyboard.

Students have two alternatives to regular ENGL 1302 courses listed above. The first is ENGL 1302-Film, which substitutes movies for written literature. The second is ENGL 1302-Science Fiction, which is based on science fiction and fantasy novels, stories and movies.

On the sophomore level, the department offers an alternate method for completing ENGL 2327 and ENGL 2328. In addition to the regularly scheduled three-hour per week sections of each class, a special six-hour time block is set aside each semester so that students can complete both courses in a single semester. During the first half of the semester, students complete ENGL 2327. At this point, they may or may not choose to continue with ENGL 2328, which will be completed in the second half of the semester.

Foreign Languages

Most four-year colleges and universities require one or two years of a foreign language for a bachelor's degree in arts and sciences. The foreign language program at Odessa College can satisfy the needs of most students whose prospective major requires a foreign language. Students should consult carefully the catalog of the senior college or university they plan to attend.

Many students who major in foreign languages become language teachers. Others use their foreign language capabilities 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.

In the classroom, concentration is on the immediate and practical. The courses consist of 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 year of study. From the first day, class is carried on primarily in the language being studied.

Course of Study for Associate in Arts Degree Foreign Language Major

	Semester Hrs
General Education Requirements	43
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	6
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra	
MATH 1316 Plane Trigonometry or	
MATH 1342 Mathematical Statistics	3
*PHED (Any two one-hour activity courses)	
Science (Two sequential laboratory courses)	
SPCH 1315 Public Speaking	3
Elective (must be outside the major area)	
•	
Major Requirements	22
Foreign Language 1411 and 1412	8
Foreign Language 1411 and 1412 (2nd language)	8
Foreign Language (Sophomore Level)	6
Approved Elective	3
Total Semester Hours	71
*PHED 1100 should be the first course taken in physical education.	

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

<u>French</u>	
REN 1411 First Year French I (FR 1411) (3-2) 4 hours	
(3-2)	
REN 1412 First Year French II (FR 1412)	20,000
(3-2)	100
REN 2311 Second Year French I (FR 2311)	2000
(3-0)	-
REN 2312 Second Year French II (FR 2312)	
(3-0)	*
<u>German</u>	
ERM 1411 First Year German I (GERM 1411)	
(3-2)	
ERM 1412 First Year German II (GERM 1412)	
(3-2)	
ERM 2311 Second Year German I (GERM 2311)	
(3-0)	
ERM 2312 Second Year German II (GERM 2312)	
(3-0)	
<u>Latin</u>	
ATI 1411 First Year Latin I (LAT 1411) (3-2)	

LATI 1412 First Year Latin II (LAT 1412) (3-2)4 hours À continuation of LATI 1411. Has same purposes and techniques, but goes further with vocabulary building and more advanced readings. (SCANS 2,9). Lab fee required. Prerequisite: LATI 1411 or its equivalent and consent of the instructor. SPAN 1300 Conversational Spanish I (SPAN 1311) sound sentence structure but emphasizes basic vocabulary, idiomatic expressions and daily speech. (SCANS 2,9). Prerequisite: None. SPAN 1310 Conversational Spanish II (SPAN 1312, 1301) A continuation of SPAN 1300. Increases conversational ability and structural knowledge of Spanish. (SCANS 2,9). Prerequisite: SPAN 1300, its equivalent or consent of the instructor. SPAN 1370 Intensive Spanish Practicum (SPAN 1320) (8-16)[2 weeks]3 hours A two-week course of intensive verbal practice in Spanish. Consists of six hours of classes daily with side trips to cultural points of interest. Students will live with local families who speak little or no English. Cost includes round-trip airfare, room and board, institutional tuition and books. Odessa College fees not included. No previous knowledge of Spanish required. Students should check with senior college regarding course transferability. (SCANS 2,9). Prerequisite: None. SPAN 1371 Spanish for Native Speakers of Spanish I (SPAN 1321) whose native language is Spanish. Emphasizes structure of the language, generating basic sentence patterns and reading and analyzing brief passages of prose. (SCANS 2.9). Prerequisite: None. SPAN 1372 Spanish for Native Speakers of Spanish II (SPAN 1322) advanced material for reading and writing. (SCANS 2,9). Prerequisite: SPAN 1371 or consent of the instructor. SPAN 1411 First Year Spanish I (SPAN 1411) (3-2)4 hours A basic course conducted in Spanish for students without previous experience in Spanish. Emphasizes simple conversation: pronunciation, fluency and vocabulary. Presents basic grammar and composition. May require up to two hours per week of individual practice in the language lab. Individual help available. Many course elements self-paced. (SCANS 2,9). Lab fee required. Prerequisite: None. SPAN 1412 First Year Spanish II (SPAN 1412) A continuation of SPAN 1411. (SCANS 2,9). Lab fee required. Prerequisite: SPAN 1411 or its equivalent. SPAN 2311 Second Year Spanish I (SPAN 2311) (3-0)3 hours Conducted in Spanish, a continuation of SPAN 1411 and SPAN 1412. Emphasizes conversation based on reading assignments. Includes grammar and composition. Many elements self-paced. (SCANS 2,9). Prerequisite: SPAN 1412 or its equivalent.

SPAN 2312 Second Year Spanish II (SPAN 2312) (3.0) 3 hours
(3-0)
SPAN 2321 Spanish Literature I (SPAN 2341) (3-0)
SPAN 2322 Spanish Literature II (SPAN 2342) (3-0)

Fire Technology

Faculty: Jack Culberson, chair.

The Fire Technology Program assists in the development of meaningful educational experiences for pre-service and in-service fire fighters. The program emphasizes the principles of fire protection, fire prevention and fire suppression.

Courses stress practical application in understanding building designs, classification of fires, exposure protection, toxic fumes, arson investigation, hazardous materials, fire fighting techniques and standards. The course surveys fire administration 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-level employment and to provide the necessary educational background for advancing into a highly responsible position in the profession.

All courses are structured to coincide with the requirements set forth by the State Commission on Fire Protection and the State Firemen's and Fire Marshals' Association.

Course of Study for Associate in Applied Science Degree Fire Technology

	Semester r
General Education Requirements	15
ENGL 1301 Composition and Rhetoric	•
or ENGL 1312 Report Writing	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government	
MATH 1372 Technical College Algebra or	
MATH 1341 College Algebra or	
MATH 1371 College Algebra for Business	2
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	•
orum 1321 business and Professional Speech	3
Elective (must be outside the major area)	3
Major Requirements	33
FIRE 1301 Fundamentals of Fire Protection	3
FIRE 1302 Industrial Fire Protection I	3
FIRE 1305 Fire Prevention	3
FIRE 1306 Chemistry for Fire Fighters	

	FIRE 2301 Fire and Arson Investigation
	FIRE 2306 Hazardous Materials I3
	FIRE 2307 Fire Safety Education3
	FIRE 2315 Fire Fighting Tactics and Strategy3
	FIRE 2316 Fire Ground Command3
122	Related Requirements10
	EMED 1201 Clinical Practicum2
_	EMED 1501 Emergency Care of the Sick and Injured5
_	COSC 1301 Introduction to Computer Systems3
	Approved Elective3
	FIRE 1303 Industrial Fire Protection II or
	FIRE 1304 Fire Protection Systems or
	FIRE 2310 Fire Hydraulics and Equipment or FIRE 2314 Hazardous Materials II
	Total Semester Hours64
	A Certificate of Technology may be earned by those who do not wish to pursue an associate's degree by completing the course of study listed below.
	Fire Technology Certificate
•	Semester Hrs
ı	Related Requirements23
•	EMED 1201 Clinical Practaicum
_	EMED 1501 Emergency Care of the Sick and Injured5
	EMED 2801 Advanced Emergency Care of the Sick and Injured
	·
	Total Semester Hrs44
ì	Major Requirements21
	FIRE 1301 Fundamentals of Fire Protection3
•	FIRE 2307 Fire Safety Education3
	FIRE 1305 Fire Prevention3
	FIRE 2315 Firefighting Tactics and Strategy3
	FIRE 2306 Hazardous Materials3
•	FIRE 2316 Fire Ground Command
	FIRE Elective
	Total Semester Hours44
1	Fire Technology Courses
	FIRE 1301 Fundamentals of Fire Protection
	(3-0) 3 hours
'	Presents history and philosophy of fire protection and evaluates the loss of life and
	property by fire. Introduces and locates the different agencies involved in fire
	protection. Students will select the proper technology to suppress and extinguish
	fires. Participants will catalogue, list, classify, and justify the specific requirements
	which must be considered in order to gain career employment at the local, state, and
	national level. Gives overview of the fire protection system including: Suppression,
	Arson Investigation, Fire Prevention, Hazardous Materials, and Emergency Medical
	Arson Investigation, Fire Prevention, Hazardous Materials, and Emergency Medical

FIRE 1302 Industrial Fire Protection I

FIRE 1303 Industrial Fire Protection II

FIRE 1304 Fire Protection Systems

FIRE 1305 Fire Prevention

FIRE 1306 Chemistry for Fire Fighters

FIRE 2301 Fire and Arson Investigation

FIRE 2302 Building Codes and Construction

FIRE 2303 Fire Administration

FIRE 2306 Hazardous Materials I

FIRE 2307 Fire Safety Education

FIRE 2310 Fire Hydraulics and Equipment

FIRE 2314 Hazardous Materials II

FIRE 2315 Fire Fighting Tactics and Strategy

FIRE 2316 Fire Ground Command

Basic Fire Fighter Academy - OCFA

The basic course for fire fighters is designed for people interested in pursuing fire technology and fire fighting as a career. The training curriculum mandated by the Texas Commission on Fire Protection Personnel Standards and Education has been equated to six courses — 21 semester hours — in the fire technology curriculum. College credit for six academic courses will be awarded for successful completion of the academy and will be recorded in the registrar's office at Odessa College.

Consultation with the director is required before registration. Upon satisfactory completion of the entire academy, the following credits will be awarded:

Course	Semester Hrs
OCFA 1305 Fire Prevention	3
OCFA 2306 Hazardous Materials	3
OCFA 2307 Fire Safety Education	3
OCFA 2401 Fundamentals of Fire Protection	4
OCFA 2402 Fire Hydraulics and Equipment	4
OCFA 2403 Fire Fighting Tactics and Strategy	4

A Certificate of Technology may be earned by those who do not wish to pursue an associate's degree. Students must complete the 21 semester hours in OCFA courses with a minimum grade of "C" in each class.

OCFA 1305 Fire Prevention

OCFA 2306 Hazardous Materials

OCFA 2307 Fire Safety Education

OCFA 2401 Fundamentals of Fire Protection

OCFA 2402 Fire Hydraulics and Equipment

OCFA 2403 Fire Fighting Tactics and Strategy

French (see English and Foreign Languages)

Geography (see Geology, Anthropology and Geography)

Geology, Anthropology and Geography

Faculty: G. Brent McAfee, chair.

Geology

Geology is a study of the earth, its history, materials, changing life, and the processes that have resulted in its present form. For students who do not wish more than a year of geology, the principal value will be primarily on an increased interest in and understanding of their environment. However, for those majoring in geology, petroleum or civil engineering, and ecological or environmental studies, the first year of geology courses provides necessary background for further study. GEOL 1403 and GEOL 1404 will serve as a required physical and/or natural science for non-science majors at most universities.

Course of Study for Associate in Science Degree Geology

•	Semester Hi
General Education Requirement	54
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	3
SPCH 1311 Introduction to Speech	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra or More Advanced	3
MATH 1316 Plane Trigonometry or More Advanced	3
MATH 1348 Analytic Geometry or More Advanced	3
MATH 2313 Calculus I or More Advanced	3
*PHED (Any two one-hour activity courses)	2
CHEM 1311 General Inorganic Chemistry I and	
CHEM 1111 Fundamentals of Chemistry Laboratory I	4
CHEM 1312 General Inorganic Chemistry II and	
CHEM 1112 Fundamentals of Chemistry Laboratory II	4
PHYS 1401 College Physics I or	
PHYS 2426 Engineering Physics II	4
PHYS 1402 College Physics II or	
PHYS 2427 Engineering Physics III	4
Elective (must be outside the major area)	3
Major Requirements	
GEOL 1403 Physical Geology	4
GEOL 1404 Historical Geology	
BIOL 2370 Marine Ecology	
••	
Total Semester Hours	

^{*}PHED 1100 should be the first course taken in physical education.

GEOL 1403 Physical Geology (GEOL 1401)

GEOL 1404 Historical Geology (GEOL 1402)

Anthropology

Anthropology is a comprehensive study of man and his works. The discipline includes 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. ANTH 2301 and ANTH 2351 will fulfill social science requirements at many universities.

ANTH 2301 Physical Anthropology (ANTH 2301)

ANTH 2351 Cultural Anthropology (ANTH 2302)

Geography

Courses in geography are designed to acquaint students 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. GEOG 1301 and GEOG 1302 will fulfill social science requirements at many colleges.

GEOG 1301 Principles of Geography I (GEOG 2301)

GEOG 1302 Principles of Geography II (GEOG 2302)

German (see English and Foreign Languages)

Government (see Social Sciences)

Heating, Ventilation, Air Conditioning Technology

Faculty: James Bates, chair.

Heating, ventilation and air conditioning is one of the fastest growing industries 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 Heating, Ventilation, Air Conditioning

	Semester	Hrs
General Education Requirements	20	
√ENGL 1301 Composition and Rhetoric or		
ENGL 1312 Report Writing	3	
SPCH 1315 Public Speaking or		
SPCH 1321 Business and Professional Speech	3	
\CCC 1201 Introduction to Computer Customs	•	
GOVT 2301 U.S. and Texas Government	3	
MATH 1314 College Algebra or		
MATH 1372 Technical College Algebra or		
MATH 1371 College Algebra for Business	3	
\ PSYC 2302 Applied Psychology	3	
PHED (Any two one-hour activity courses)	2	
Elective (must be outside the major area)	3	
Technical Core	16	
ELEC 2410 National Electrical Code	4	
√MAIN 1402 Plumbing Fundamentals		
BLDG 2404 Structural Repair	4	
VHVAC 1401 Refrigeration Theory	4	
Major Requirements	26	
HVAC 1400 Basic Control Theory	4	
VHVAC 1403 Commercial Refrigeration		
HVAC 1404 Heating	4	
HVAC 2302 Air Conditioning Design	3	
HVAC 2377 Cooperative Work Experience	3	
ELEC 2404 Electrical Machinery and Controls		
WELD1401 General Welding		
Total Semester Hours		

Certificate of Technology in Heating, Ventilation, Air Conditioning

Certificates of Technology are available in the following job-specific fields.

	Basic HVAC Technician Option
	Semester Hrs
	TMTH 1370 Technical College Mathematics or
	higher level math3
	PSYC 2302 Applied Psychology or
•	ENGL 1312 Report Writing3
	HVAC 1400 Basic Control Theory4
G.	HVAC 1401 Refrigeration Theory4
	HVAC 1404 Heating4
•	Total Semester Hours18
	Total Scilicster Flouis
	Advanced HVAC Technician Option
8	COSC 1301 Intro to Computer Systems3
-	TMTH 1370 Technical College Mathematics or
	higher level math3
į.	PSYC 2302 Applied Psychology or
	ENGL 1312 Report Writing3
	ELEC 2410 National Electrical Code4
•	HVAC 1400 Basic Control Theory4
	HVAC 1401 Refrigeration Theory4
	HVAC 1403 Commercial Refrigeration4
	HVAC 1404 Heating4
ì	HVAC 2302 Air Conditioning Design3
	HVAC 2305 Refrigeration and Air Conditioning
,	Business Operations3
	HVAC 2205 Mechanical Code2
•	HVAC 2409 Building Energy Audit Training4
,	Total Semester Hours41
	Commercial Refrigeration Maintenance Technician Option
	COSC 1301 Intro to Computer Systems3
	TMTH 1370 Technical College Mathematics3
	PSYC 2302 Applied Psychology or
	ENGL 1312 Report Writing3
	MAIN 1402 Plumbing Fundamentals4
	ELEC 2410 National Electrical Code4
	HVAC 1400 Basic Control Theory4
	HVAC 1401 Refrigeration Theory4
	HVAC 1403 Commercial Refrigeration4
	Total Semester Hours

Heating, Ventilation, Air Conditioning Technology Courses **HVAC 1400 Basic Control Theory (R/AC 1400)** (3-3)4 hours Course includes the understanding and interpretation of schematic diagrams and basic electricity technology and progresses to electric motors, design and function of starters, contactors, relays, capacitors, overloads and control circuits applicable to the refrigeration and air conditioning industry. Students will perform mathematical calculations pertaining to OHMS Law and learn to deal with customer expectations. Lab fee required. (SCANS 1,3,5,8) Prerequisite: None. Corequisite: HVAC 1401. **HVAC 1401 Refrigeration Theory (R/AC 1401)** Competencies include the technology of heat transfer, behavior of gases, refrigeration cycle, component parts of the compression refrigeration machine and its accessories. Students will learn to understand and interpret charging charts in order to charge systems, recover refrigerant using UL and EPA approved recovery systems. Students will be exposed to customer relations and troubleshooting techniques. (SCANS 1,5,8,9) Lab fee required. Prerequisite: None. **HVAC 1403 Commercial Refrigeration (R/AC 1403)** (3-3)4 hours Focuses on commercial refrigeration component technology. Designed for competency in theory and application of metering devices, evaporators, compressors, condensers, driers, sight glasses, system accessories, sizing of walk-in and reach-in boxes and line sizing. Customer relations and responsibility are stressed. (SCANS 3,5,8,9) Lab fee required. Prerequisite: HVAC 1401. HVAC 1404 Heating (R/AC 1404) burners, troubleshooting, venting of heating systems and electrical strip heat. Presents theories of control and principles of heat pumps, sizing, installing, servicing, troubleshooting, and customer relations. (SCANS 5,8,9) Lab fee required. Prerequisite: HVAC 1400. HVAC 2204 Refrigeration and Air Conditioning System Troubleshooting (R/AC 2204) Competencies prepare students to troubleshoot refrigeration and air conditioning systems and troubleshooting charts as well as dealing with customer's expectations. Emphasizes the mechanical refrigeration system. (SCANS 1,5,7,8,9) Prerequisite: HVAC 1400 and HVAC 1401. HVAC 2205 Mechanical Code (R/AC 2205) Presents an overview of all HVAC courses and Electrical systems as related to HVAC, theories and concepts with special emphasis on the understanding, interpretation and documentation of the mechanical code and requirements for the State mechanical contractors license. (SCANS 1,2,7,8) Prerequisite: HVAC 1401 or consent of the department chair.

HVAC 2302 Air Conditioning Design (R/AC 2302)

(3-0)3 hours Competencies include sizing and selecting air conditioning equipment and designing air distribution systems. Emphasizes estimating loads of residential and commercial applications. Students will learn to interpret blueprints and properly fill out heat load forms. (SCANS 1,3,8) Lab fee required. Prerequisite: None.

HVAC 2305 Refrigeration and Air Conditioning Business Operations (R/AC 2305) Competencies include the basic understanding of set up and operating procedures of a small HVAC business. Topics include types of ownership, types of loans, accounting, marketing, taxation, cash flow, legal aspects and equipment and material control. (SCANS 3,7,10) Prerequisite: None. **HVAC 2377 Cooperative Work Experience** (3-0) 3 hours A capstone course designed to inter-relate academic and vocational course lectures and labs with business and industry work experiences. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the areas of personal, interpersonal, and problem solving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5,7,9,10,11) Prerequisite: Sophomore standing and consent of the department chair. HVAC 2409 Building Energy Audit Training (R/AC 2409) Competencies include methods of performing a building energy audit. Students will identify and evaluate available energy conservation options and evaluate differing air conditioning, lighting and refrigeration systems in order to help customers make the best selection. (SCANS 3,5,6,8) Lab fee required. Prerequisite: None. History (see Social Sciences) Human Development (see Orientation) **Human Services** Faculty: James Jordan, chair. Odessa College offers a program in human services (alcohol and drug abuse) for those students who wish to be licensed by the Texas Commission on Alcohol and Drug Abuse (TCADA) in order to accept employment relating to victims of alcohol and drug abuse. The core curriculum in human services, which meets the requirements of the Texas Commission on Alcohol and Drug Abuse, can lead to an Associate in Applied Science Degree or a Certificate of Completion in Human Services. The human services program also is approved by the Texas Association of Alcohol and Drug Abuse Counselors (TAADAC). Course of Study for Associate in Applied Science Degree Alcohol and Drug Abuse General Education Requirements.....41 CHLD 1304 The Abused and Neglected Child3 ENGL 1301 Composition and Rhetoric3 ENGL 1302 Composition and Literature3

GOV I 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	3
COSC 1301 Introduction to Computer Systems	
MATH 1332 Structures of College Mathematics I or	
higher level math	3
*PHED (Any two one-hour activity courses)	2
PSYC 2301 Introduction to Psychology	3
PSYC 2302 Applied Psychology	3
SOCI 1301 Principles of Sociology	3
SOCI 1306 Social Problems	
SOCI 2301 Sociology of the Family	3
SPCH 1321 Business and Professional Speech	3
Elective (must be outside the major area)	3
Major Requirements	22
HUMS 1301 Introduction to Chemical Dependency	3
HUMS 1302 Issues in Chemical Dependency	3
HUMS 1306 Basic Counseling Skills I	3
HUMS 1308 Basic Counseling Skills II	3
HUMS 2310 Special Studies in Chemical Dependency	1
HUMS 2401 Counseling Skills III	4
HUMS 2350 Clinical Practicum	
Total Samaster Hours	63

Students who wish only to qualify to take the TCADA licensure or TAADAC licensure examination may do so by successfully completing 22 semester hours of Human Services courses.

Students who wish to transfer to an upper-level institution should check requirements of that institution.

Human Services Certificate Program

This program is designed for the individual who cannot commit to two years in a formalized degree program but wishes to obtain employable skills in the human services field as quickly as possible. Individuals who complete this program secure employment and may continue their studies toward a degree on a part-time basis without having to repeat major or related courses in the degree sequence.

Course of Study for Certificate of Completion Alcohol and Drug Abuse

	Semester Hrs
General Education Requirement	12
ENGL 1301 Composition and Rhetoric	3
COSC 1301 Introduction to Computer Systems	3
MATH 1332 Structures of College Mathematics I or higher level math	3
SPCH 1321 Business and Professional Speech	
Major Requirements	22
HUMS 1301 Introduction to Chemical Dependency	3
HUMS 1302 Issues in Chemical Dependency	3
HUMS 1306 Basic Counseling Skills I	3
HUMS 1308 Basic Counseling Skills II	3
HUMS 2310Special Studies in Chemical Dependency	1
HUMS 2401 Counseling Skills III	4
HUMS 2350 Clinical Practicum	5
Total Semester Hours	34

^{*}PHED 1100 should be the first course taken in physical education.

Human Services Courses

HUMS 1301 Introduction to Chemical Dependency

HUMS 1302 Issues in Chemical Dependency

HUMS 1306 Basic Counseling Skills I

HUMS 1308 Basic Counseling Skills II

HUMS 2310 Special Studies in Chemical Dependency

HUMS 2350 Clinical Practicum

HUMS 2401 Counseling Skills III

Humanities

Faculty: Delmos Hickmott, chair; Barry Phillips, Barry Phillips III.

Humanities students have the opportunity to pursue an interdisciplinary arts program with an emphasis in one major area which culminates in an Associate in Arts Degree. This program is designed to prepare individuals for paraprofessional arts occupations, leadership and involvement in the development of community arts activities. It allows the student to explore the arts areas of visual art, music, and photography. The interdisciplinary nature of the program gives breadth to the student's arts involvement.

Course of Study for Associate in Arts Degree*

Art Option

The suggested course of study is designed for the Associate in Arts Degree in the Humanities with a concentration in art. Similar plans can be designed for music and photography.

	Semester H
General Education Requirements	37
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	6
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	3
**Language, Math or Science	6-8
*PHED (Any two one-hour activity courses)	2
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	2
SPORT 1021 Business and Floressional Speech	
Elective (must be outside the major area)	3
Major Requirements	24
ARTS 1316 Drawing I	3
ARTS 1311 Design I	3
Any two sophomore arts courses	
ARTS 1304 Art History Survey II	
HUMA 1315 Introduction to The Fine Arts (Self-Paced)	3
MUSI 1306 Music Appreciation	
PHOT 2370 History of Photography	
Total Semester Hours	64

^{*}PHED 1100 should be the first course taken in physical education.

^{**}Six to eight semester hours in same discipline.

Humanities Courses

HUMA 1315 introduction to the Fine Arts (Self-Paced) (HUM 1310)

Latin (see English and Foreign Languages)

Law Enforcement/Criminal Justice

Faculty: Sidney Lyle, chair; Annie Littlefield, paraprofessional; George Baucum, Jim McKown.

The field of law enforcement/criminal justice presents a challenging field of study for people interested in public service. The ever increasing problem of crime, as well as continued population growth provides many opportunities to those who have prepared themselves through education and training. This program offers students the opportunity to attend an approved Texas Peace Officer Academy and meet the requirements of licensure to be a Texas law enforcement officer. It also provides an avenue to obtain an Associate in Applied Science Degree in Law Enforcement/Criminal Justice. The associate degree program consists of both law enforcement and academic courses. It serves as the first two years of study for the baccalaureate degree in criminal justice or law enforcement in many senior colleges and universities.

Those students who are enrolled in the academic program and who wish to be licensed must first complete the designated seven transfer courses. The student may then enroll in the academy and complete that portion of the academy that the Texas Commission on Law Enforcement Officer Standards and Education has designated as the Texas Peace Officer Sequence courses. These courses will be offered as open entry credit courses and are a part of the basic academy requirements. For further information, contact the department chair.

Course of Study for Associate in Applied Science Degree Law Enforcement/Criminal Justice

	Semester Hr
General Education Requirements	17
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
SPCH 1321 Business and Professional Speech	
GOVT 2301 U.S. and Texas Government	
MATH 1332 Structures of College Mathematics I	
or higher level math	3
*PHED (Any two one-hour activity courses)	2
Elective (must be outside the major area)	3

	Semester Hrs
Major Requirements	33
CRIJ 1301 Introduction to Criminal Justice	
CRIJ 1306 The Courts and Criminal Procedure	3
CRIJ 1307 Crime In America	3
CRIJ 1310 Fundamentals of Criminal Law	3
CRIJ 1318 Patrol Administration	3
CRIJ 1322 Traffic Law	3
CRIJ 2314 Criminal Investigation	3
CRIJ 2322 Juvenile Procedures	
CRIJ 2323 Legal Aspects of Law Enforcement	3
CRIJ 2328 Police Systems and Practices	3
CRIJ 2331 Traffic Management and Supervision	
**Approved Electives	13
Total Semester Hours	66

*PHED 1100 should be the first course taken in physical education. PHED 1118 and PHED 1119 are recommended for those individuals pursuing a career as a peace officer. Those students attending the law enforcement academy may substitute the Texas Peace Officer Sequence courses, LEA 2414, LEA 2415 and LEA 2416 for CRIJ 1322, CRIJ 1310 and CRIJ 2471. Other credits awarded for the degree through the academy are CRIJ 2314, CRIJ 2323, CRIJ 2374 and CRIJ 1306.

**Approved Electives: PSYC 2315, SOCI 1301, SPAN 1300, SPAN 1411, PHED 1149, CRIJ 1321, CRIJ 1379, CRIJ 2320, CRIJ 2370, CRIJ 2471, CRIJ 2374, CRIJ 2572, CRIJ 2578, LEA 2414, LEA 2415, LEA 2416, OFST 1401, HIST 1301, HIST 1302, ENGL 1312, BCIS 1401, CHLD 1304, FIRE 2301 and FIRE 2306.

Students must complete 66 hours as approved by the department chair to meet degree requirements. Any variance from prerequisites or any substitution of courses must have prior, written approval.

Students not desiring the A.A.S. degree may receive a certificate of technology by completing a minimum of 33 semester hours in major law enforcement courses.

Texas accrediting agencies have designated seven law enforcement courses as transfer courses creditable and transferable toward any law enforcement/criminal justice degree offered in Texas. Those courses are as follows: CRIJ 1301, CRIJ 1306, CRIJ 1307, CRIJ 1310, CRIJ 2314, CRIJ 2323 and CRIJ 2328. Students should receive written confirmation from the college or university to which they intend to transfer regarding the scope and extent of acceptance of these courses.

All persons who apply for a peace officer's position with any law enforcement agency in Texas must first have completed all mandated training and education prior to being employed. The two methods of achieving Texas peace officer licensure are as follows:

- Successful completion of that portion of the academy designated as LEA 2414, LEA 2415 and LEA 2416 (TCLEOSE sequence courses) plus the seven transfer courses, or
- 2. Successful completion of the Law Enforcement Academy.

Law Enforcement/Criminal Justice Courses

CRIJ 1301 Introduction to Criminal Justice (LE 1301)

CRIJ 1306 The Courts and Criminal Procedure (LE 2313)

CRIJ 1307 Crime in America (LE 1302)

CRIJ 1310 Fundamentals of Criminal Law (LE 1307)

CRIJ 1318 Patrol Administration (LE 1303)

CRIJ 1321 Probation and Parole (LE 2307)

CRIJ 1322 Traffic Law (LE 1306)

CRIJ 1379 Law Enforcement Telecommunications (LE 1309)

CRIJ 2314 Criminal Investigation (LE 2304)

CRIJ 2320 County Corrections (Jail Operation & Management) (LE 1308)

CRIJ 2322 Juvenile Procedures (LE 2306)

CRIJ 2323 Legal Aspects of Law Enforcement (LE 2312)

CRIJ 2328 Police Systems and Practices (LE 2305)

CRIJ 2331 Traffic Management and Supervision (LE 2303)

CRIJ 2370 Physical Evidence and Investigation Techniques (LE 23100)

CRIJ 2374 Fundamentals of Interviewing (LE 2364)

CRIJ 2471 Firearms Proficiency (LE 2411)

CRIJ 2572 Introduction to Pre-Trial Release Services (LE 2562)

CRIJ 2578 Human Behavior Patterns (LE 2568)

Odessa College Basic Law Enforcement Academy

OCLEA

The basic course for peace officers is designed for persons interested in obtaining a peace officer's license and pursuing law enforcement as a career. The training curriculum segments mandated by the Texas Commission on Law Enforcement Officer Standards and Education (TCLEOSE) have been equated to seven courses (24 semester hours) in the law enforcement curriculum. College credit for the seven academic courses will be awarded for successful completion of the academy and will be recorded in the registrar's office at Odessa College.

Prior to admission to the academy program, applicants must complete the following:

- 1. ASSET Test, and
- 2. A sworn personal history statement with all required attachments.

Individuals who want to take the peace officer sequence (LEA 2414, LEA 2415 and LEA 2416) must first show proof of having successfully completed the seven transfer courses as identified in the Associate in Applied Science Degree for Law Enforcement/ Criminal Justice.

Upon satisfactory completion of the entire academy, the following credits will be awarded:

awarded:	
	Semester Hrs
CRIJ 1306 The Courts and Criminal Procedure	
CRIJ 2323 Legal Aspects of Law Enforcement	3
CRIJ 2374 Fundamentals of Interviewing	3
LEA 2414 Texas Peace Officer Law	4
LEA 2415 Texas Peace Officer ProceduresLEA 2416 Texas Peace Officer Skills	4 1
PHED 1118 Defensive Tactics (Optional)	1
PHED 1119 Advanced Defensive Tactics (Optional)	1
Students successfully completing the 24 semester hours in academy course minimum average of "C" (2.0) in all work will be issued a certificate of techn	es with a ology.
CRIJ 1306 The Courts and Criminal Procedure (LE 2313)	
(3-0)	e judiciary in ealing with he judiciary. ooken words lerstanding of retrial release.
CRIJ 2314 Criminal Investigation (LE 2304)	
(3-0)	sources of ble items and ive findings, f evidence easoning in the stify their tion gathering
CRIJ 2323 Legal Aspects of Law Enforcement (LE 2312)	
(3-0)	3 hours
This course presents police authority, responsibility and constitutional concriminal justice system. The student will learn how to read and understart of laws and be able to interpret and explain the rule of law dealing with an and seizure. The criminal justice system in light of constitutional liability student to apply decision making skills and written reports which analyze decision on specific topics. (SCANS 1,2,6,7,9,10) Prerequisite: CRIJ 130	nd the content rrest, search requires the the courts
CRIJ 2374 Fundamentals of Interviewing (LE 2364)	
(3-0)	3 hours
i ne student will become familiar with the benavioral reactions and interac	ctions in a face-

to-face interview with suspects, witnesses, and other third parties who may have information concerning criminal offenses. Students will learn how to "read" the suspect and follow the suspect's body language, improve communication techniques, and the application of real life evidence to crime scene technology dealing with interrogation. (SCANS 5,6,7,9,10,11) Prerequisite: Sophomore level or consent of the department

chair.

LEA 2414 Texas Peace Officer Law

LEA 2415 Texas Peace Officer Procedures

LEA 2416 Texas Peace Officer Skills

Machine Technology (see Metal Trades Technology)

Maintenance Technology

Faculty: James Bates, chair; Danny Bailey, Duane Nobles, Tom Wilburn.

The maintenance technology program is designed to train maintenance workers for general maintenance duties. Opportunities for skilled maintenance workers exist in virtually every segment of society. Facility maintenance includes schools, public and private buildings, apartment complexes and condominiums.

Course of Study for Associate in Applied Science Degree Maintenance Technology

	Semester Hrs
General Education Requirements	20
ENGL 1301 Composition and Rhetoric or	
ENGL 1312 Report Writing	3
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
COSC 1301 Introduction to Computer Systems	3
GOVT 2301 U.S. and Texas Government	3
MATH 1372 Technical College Algebra or	
MATH 1313 College Algebra or	
MATH 1371 College Algebra for Business	3
PSYC 2302 Applied Psychology	3
PHED (Any two one-hour activity courses)	2
Elective (must be outside the major area)	3
Technical Core	
ELEC 2410 National Electrical Code	4
MAIN 1402 Plumbing Fundamentals	4
BLDG 2404 Structural Repair	4
HVAC 1401 Refrigeration Theory	4

General Maintenance 27 BLDG 1602 Carpentry I 6 BLDG 1604 Carpentry II 6 HVAC 1404 Heating 4 MAIN 2377 Cooperative Work Experience 3 ELEC 1401 D.C. Circuits 4 WELD 1401 General Welding 4
Total Semester Hours66
A Certificate of Technology may be earned by those who do not wish to pursue an associate's degree. See the department chair for further details. See BCT page 25
Maintenance Technology Courses
MAIN 1402 Plumbing Fundamentals (2-4)
interpretation, basic calculations, and customer relations. Students will size D.W.V. and water systems. Includes preparation for students interested in obtaining a state plumbing license. Lab fee required. (SCANS 1,3,5,8) Prerequisite: None.
MAIN 2377 Cooperative Work Experience (1-20)
(3-3)
HVAC 1400 Basic Control Theory (R/AC 1400) (3-3)

Management

Faculty: Robert Munoz, chair; Connie Nichols, Clinton Forbes (ret.), Paul Tittle (ret.).

The primary objective of the management program is to prepare each student for full-time employment in supervision. The program in the classroom is combined with actual on-the-job experience in the student's chosen career field. The management program is not intended to serve as preparatory work toward a baccalaureate degree. Students planning to pursue a four-year degree should consult the upper-level institution or senior college of their choice regarding transferability of courses.

Management students will be required to take a total of 15 hours of management core classes. In addition students will choose a total of 24 hours of electives from a pool of management courses. This allows students, along with their faculty advisor, the flexibility to design a program specific to their individual career objectives.

Many businesses, both large and small, actively seek graduates of associate degree programs. The shortage of promotable people in supervisory and middle-management ranks provides the graduate the opportunity for a challenging career with rewarding promotional possibilities.

Course of Study for Associate in Applied Science Degree Management

General Education Requirements	ester Hrs
ENGL 1301 Composition and Rhetoric	·······
	3
GOVT 2301 U.S. and Texas Government	3
MATH 1324 Mathematical Analysis for Business I or	
any other college-level mathematics	3
SPCH 1321 Business & Professional Speech	3
ECON 2301 Principles of Economics I (Misses) or Macro	
ECON 2302 Principles of Economics II (Misse) . Micks	3
BCIS 1401 Introduction to Computer Information Systems	
*PHED (Any two one-hour activity courses)	2

Elective — (must be outside the major area)	
Major Requirements for All Management Majors	
MGMT 1301 Introduction to Management	15
MGMT 1302 Managerial Functions	
MGMT 1302 Managenal 7 dictions	••••••
MGMT 2377 Cooperative Work Experience	••••••
MGMT 2378 Cooperative Work Experience	
·	
*MGMT (Approved management electives)	
Total Semester Hours	63
*Students will select courses from the following pool.	
MGMT 1321 Principles of Marketing	
MGMT 1323 Principles of Personal Selling	3
MGMT 1331 Principles of Retailing	
MGMT 1341 Introduction to Fashion Merchandising	
MGMT 1343 Development of Fashion	
MGMT 1361 Principles of Production Supervision	3
MGMT 1362 Industrial Safety	
MGMT 1371 Introduction to Purchasing Management	
MGMT 2300 Management Issues	
MGMT 2301 Management Skills Development	
MGMT 2303 Introduction to Public Relations	
MGMT 2305 Internationalization of Business	
MGMT 2320 Marketing Issues	•••••••••••••••••••••••••••••••••••••••
MGMT 2322 Marketing Management	ن
MGMT 2325 Effective Advertising	ن
MGMT 2330 Entrepreneurial Issues	
MGMT 2332 Small Business Management	••••••
MGMT 2341 Visual Merchandising and Display MGMT 2343 Fashion Buying	•••••
MGMT 2343 Fashion Buying	••••••
MGMT 2344 Fashion Profitotion	
MGMT 2365 Introduction to Business Logistics	
MGMT 2303 Introduction to Business Logistics	
MICHAIT 2071 Fulcitasing Flactices	••••••
A Certificate of Technology in Management may be earned by those who do not w	ish to
pursue an associate degree.	
Certificate of Technology Management	
3.	
General Education Core	13
ENGL 1301 Composition and Rhetoric	
SPCH 1321 Business and Professional Speech	
MATH 1324 Mathematical Analysis for Business I	
MATH 1324 Mathematical Analysis for Business I	
BCIS 1401 Introduction to Computer Information Systems	
· · · · · · · · · · · · · · · · · · ·	
Technical Core	15
MGMT 1301 Introduction to Management	3
MGMT 1302 Managerial Functions	
MGMT 1321 Principles of Marketing	
MGMT 2301 Management Skills Development	
MGMT 2304 Personnel and Human Relations	
Total Hours	28

Management Courses

MGMT 1301 Introduction to Management (3-0)3 hours Presents essentials of management. Includes an introduction to the behavioral approach and application of management principles as related to the first-line supervisor. Covers human resources, workflow, communications, selection, training, leadership, and professional development. (SCANS 4,5,10,11) Prerequisite: None. MGMT 1302 Managerial Functions (3-0)3 hours A continuation of MGMT 1301. This course emphasizes the design and structural aspects of management, in such competencies as planning, organizing, and allocating resources; making decisions regarding such allocations; establishing and communicating systems to monitor the controlling process; and ensuring the legal and ethical conduct of the organization. (SCANS 4,6,9,10,11) Prerequisite: MGMT 1301. **MGMT 1321 Principles of Marketing** (3-0)3 hours Introduces marketing. Analyzes factors that influence functions of marketing and environmental marketing activities. Emphasizes the gathering, processing and interpretation of demographic and other data used in consumer and business-tobusiness decision making. Covers the development of decision support systems, research and presentation; as well as classification and resource allocation for new product concepts. (SCANS 4,6,7,9,10,11) Prerequisite: None. MGMT 1323 Principles of Personal Selling Designed to introduce students to techniques that will prove immediately valuable in present or future selling positions. Emphasizes the interpersonal and organizational aspects of selling through student participation in reasoning and communicating exercises. Provides opportunities for practicing these techniques under realistic conditions. (SCANS 5,6,9,11) Prerequisite: None. MGMT 1331 Principles of Retailing (3-0) 3 hours Relates modern retailing industry to structure and environment of retailing, requirements of retailing; retail merchandising and sales promotion; and requirements of retailing management including gathering information in order to make decisions regarding legal and ethical issues, site location, store design, selecting appropriate technology to handle and secure merchandise and establishing pricing policies. (SCANS 3,6,8,9,10) Prerequisite: None. MGMT 1341 Introduction to Fashion Merchandising Presents an overview of general field of fashion merchandising. Addresses the flexibility of retail industry. Monitors economic conditions and trends; applies available technology based upon historical cycles and market needs; analyzes and creates systems to solve problems in customer service areas. (SCANS 6.7.8.9) Prerequisite: None. **MGMT 1343 Development of Fashion** (3-0)3 hours Through research of historical data, traces the evolution of fashion from Egyptian times through contemporary markets. Monitors trend cycles used to interpret data in order to make decisions regarding future market investments. Students will create designs representative of specific eras. (SCANS 6,7,9) Prerequisite: None.

MGMT 1361 Principles of Production Supervision (3-0)3 hours Introduces fundamental concepts of production management. Emphasizes formulation and evaluation of objectives, and the developments of a systems approach to monitor performance. Students will develop problem solving and decision making skills based on the use of available resources to meet customer and organizational production needs. (SCANS 4,5,6,7,9) Prerequisite: None. **MGMT 1362 Industrial Safety** Introduces principles and practices of safety management. Students will acquire knowledge of the legal requirements of the Occupational Safety and Health Act. Includes basic concepts and methods of administering, developing, communicating and teaching of safety programs to meet organizational needs. (SCANS 5,6,9,11) Prerequisite: None. MGMT 1371 Introduction to Purchasing Management Presents practices underlying sound procurement of materials, parts, supplies and equipment to conduct a business. Emphasizes meaning, scope, organization and principles of purchasing procedure in relation to business and customer needs while working within legal and ethical aspects of the purchasing function. (SCANS 4,5,9,10,11) Prerequisite: None. MGMT 2300 Management Issues Presents current issues of particular interest to those preparing for supervisory positions in today's work force. Emphasis will be on competencies associated with present managerial concerns. Students will research and analyze information and, through the use of group discussion and other forms of participation, will create and present effective solutions to modern management problems/issues. (SCANS 5,6,9,11) Prerequisite: None. MGMT 2301 Management Skills Development (3-0)3 hours Examines relationship between management principles and specific functions of management. Presents case studies and projects which will require students to interpret and create responses to various areas of management study: including situational leadership, creativity and innovation; problem solving and decision making. (SCANS 5.6,9). MGMT 2303 Introduction to Public Relations Introduces techniques of public relations applied to supervisory and management positions. Emphasizes customer relations. Gives attention to programming a total public relations effort and selecting strategy, media and persuasive devices that accomplish given objectives after having listened to and studied the various constituencies involved. (SCANS 6,9,11) Prerequisite: None. MGMT 2304 Personnel and Human Relations Applies field of human relations to modern business management. Emphasizes the productive management of human resources through effective leadership, decisionmaking and communicating. Explores responsibilities of management in dealing with

subordinates one-on-one. (SCANS 5,9,10) Prerequisite: MGMT 1301.

MGMT 2305 Internationalization of Business (3-0)3 hours Introduces theory and practice in international business. Emphasizes the creation of appropriate systems for maintaining and controlling the flow of goods, people, information and funds for commercial purpose within and among international sovereignties. Stresses the decision-making process. (SCANS 4,5,6,7,9) Prerequisite: Completion of six hours of MGMT courses or consent of the department chair. MGMT 2320 Marketing Issues (3-0)3 hours Presents current issues of particular interest to those preparing for positions in today's changing marketplace. Emphasis will be on competencies associated with present marketing concerns. Students will research and analyze information and, through the use of group discussion and through forms of participation, will create and present effective solutions to modern marketing problems/issues. (SCANS 5,6,9,11) Prerequisite: None. **MGMT 2322 Marketing Management** A continuation of MGMT 1321. Emphasizes management of activities associated with marketing and distribution processes and institutions including the allocation of resources for monitoring distribution systems and channels; the creation and delivery of promotional messages and activities; and making decisions regarding various approaches to price determination. (SCANS 3.4,7,9,11) Prerequisite: MGMT 1321. **MGMT 2325 Effective Advertising** advertising. Examines techniques and skills used to execute effective advertising programs; including information acquisition, resource allocation, delivery system development and budgeting. Emphasizes creativity in decision making and communicating. (SCANS 2,4,6,7,9,11) Prerequisite: MGMT 1321 or MGMT 1331. MGMT 2330 Entrepreneurial Issues A comprehensive study of particular issues impacting entrepreneurship. Presents case studies and projects which will require students to acquire and interpret information regarding resources, systems, and existing technology and create responses having analyzed the current marketplace and economic, technologic, legal and social environments affecting small business in the United States. (SCANS 4.6.7.8.9) Prerequisite: None. MGMT 2332 Small Business Management (3-0)3 hours Emphasizes management of personnel, operations, inventory and other resources of the small business enterprise. Students will create a written business plan detailing the personal qualities needed to succeed as well as systems developed to monitor use of needed human and physical resources. (SCANS 2,4,5,7,10) Prerequisite: MGMT 2330 or consent of the department chair. MGMT 2341 Visual Merchandising and Display (3-0)3 hours Trains students in techniques of visual display. Presents analysis and evaluation of various types of displays to develop competency in understanding components of visual presentations. Requires practice applications in retail stores based on available merchandise and promotional needs. Involves written design of store floor plan for display program, with attention to traffic patterns and construction limitations.

(SCANS 2,4,7) Prerequisite: MGMT 1341 or MGMT 1343.

MGMT 2343 Fashion Buying

MGMT 2344 Fashion Promotion

MGMT 2345 Fashion Design

MGMT 2365 Introduction to Business Logistics

MGMT 2371 Purchasing Practices

MGMT 2377 Cooperative Work Experience

MGMT 2378 Cooperative Work Experience

Mass Communication

Faculty: John McCarroll, chair; Tom Hughes, Wallace Jackson (ret.), Tracy Taylor.

Mass communication students at Odessa College enroll mainly for three purposes: to prepare for university transfer; to prepare themselves vocationally for a career; and to broaden their exposure to the mass media.

Requirements for the Associate in Arts Degree are basically the same as required courses taken during the first two years at senior colleges and universities. However, students are responsible for becoming aware of the particular requirements of the school to which they plan to transfer.

To offer students an opportunity to gain valuable experience while attending college, Odessa College operates a public radio station, KOCV-FM, and a public television station, KOCV-TV. Practicums also help give on-site professional experience to the mass communication student.

Course of Study for Associate in Arts Degree Broadcasting

	Semester Hrs
General Education Requirements	97.49
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	6
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
MATH 1314 College Algebra or	
MATH 1332 Structures of College Mathematics I	3
Foreign Language or Science (six to eight hours in	
same discipline)	
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
Philosophy, Psychology Sociology, Anthropology or	
Economics courses	6
*PHED (Any two one-hour activity courses)	2
General Education Elective	
Elective (must be outside major area)	3

Major Requirements	12
(Choose from among the following)	
COMM 1307 Introduction to Mass Communications	3
COMM 1335 Survey of Radio and Television	3
COMM 1336 Television Production	3
COMM 2303 Audio and Radio Production	3
COMM 2331 Announcing for Radio and Television	3
COMM 2339 Writing for Radio and Television	
COMM 2120 Practicum in Electronic Media	1
COMM 2121 Practicum in Electronic Media	
COMM 2122 Practicum in Electronic Media	
COMM 2220 Practicum in Electronic Media	2
COMM 2324 Practicum in Electronic Media	3
COMM 2325 Practicum in Electronic Media	3
COMM 2326 Practicum in Electronic Media	3
Total Semester Hours	64
*PHFD 1100 should be the first course taken in physical education	

Course of Study for Associate in Arts Degree

Mass Communication

	Semester Hr
General Education Requirements	49
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	6
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
MATH (College level)	3
Foreign Language or Science (six to eight hours in	
same discipline)	8
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
Philosophy, Psychology Sociology, Anthropology or	
Economics courses	6
*PHED (Any two one-hour activity courses)	
General Education Elective	3
Elective (must be outside major area)	3
Major Requirements	12
(Choose from among the following)	
COMM 1307 Introduction to Mass Communications	3
PHOT 1331 Basic Photography I	3
COMM 1335 Survey of Radio and Television	3
COMM 1336 Television Production	
PHOT 1350 Photojournalism	3
COMM 2303 Audio and Radio Production	
Total Semester Hours	64

*PHED 1100 should be the first course taken in physical education.

Mass Communication Courses

COMM 1307 Introduction to Mass Communications (3-0)3 hours Surveys basic facets affecting human interaction through mass communications. This course is designed to develop understanding of the interrelationships of the mass media in society and to help project the future of communication in an ever changing world. (SCANS 6,7,9) Prerequisites: TASP competency in reading and writing or consent of instructor. COMM 1335 Survey of Radio and Television Examines the development, regulation, economics, social responsibilities and industry practices in broadcasting and cable communication, non-broadcast television, new technology and other communication systems. (SCANS 6,7,8) Prerequisites: TASP competency in reading and writing or consent of instructor. **COMM 1336 Television Production** Presents practical experience in the operation of television studio and control room equipment, with an emphasis on production. Includes pre-production techniques, student involvement in direction and assignments to all crew positions for class productions. (SCANS 5,6,8,11) Prerequisites: TASP competency in reading and writing or consent of instructor. **COMM 2303 Audio/Radio Production** Presents the concepts and techniques of sound production, including the coordinating and directing of all aspects of sound production from the design of the production to the finished product, with emphasis on the manipulation of equipment and sound sources and direction of talent. (SCANS 6,8,9) Prerequisites: COMM 1307 or COMM 1335 or consent of instructor; TASP competency in reading and writing or consent of instructor. **COMM 2331 Announcing for Radio and Television** Helps prepare the student for a career in voice talent for radio and television. Includes proper pronunciation, articulation, interviewing, reading of news and commercial copy and announcing music and sports. (SCANS 1,6,9,11) Prerequisites: COMM 1307 or COMM 1335 or consent of instructor; TASP competency in reading and writing or consent of instructor. **COMM 2339 Writing for Radio and Television** Provides techniques and practical exercises in presenting effective communication of messages through radio and television. Presents procedures for writing commercial, public service, promotional, news and documentary programming. (SCANS 2,6,7,9,11). Prerequisites: COMM 1307 or COMM 1335 or consent of instructor; TASP competency in reading and writing or consent of instructor; ability to type approximately 30 words per minute. COMM 2120,2121,2122 Practicum in Electronic Media (0-5)1 hour each Provides framework for student participation at KOCV-FM, the college radio station. Requires working as a team member for a minimum of five hours per week at the station and attending a weekly staff meeting designed to keep students abreast of happenings at the station and in the industry. (SCANS 5,8,9,10,11) Lab fee required. Prerequisites: COMM 1307 or COMM 1335 or consent of the KOCV-FM station manager; TASP competency in reading and writing or consent of instructor.

COMM 2220 Practicum in Electronic Media

COMM 2324 Practicum in Electronic Media

COMM 2325 Practicum in Electronic Media

COMM 2326 Practicum in Electronic Media

Mathematics

Faculty: George Brewer, chair; Jim Camp, Dr. James Fields, Robert Keating, Stephanie Kern, Rosana Maldonado, Yancy Nunez, Dr. Glynna Strait, Dr. Charles Sweatt.

The Department of Mathematics is guided by the following objectives: (1) pre-professional 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 or university to which they plan to transfer to determine which of these courses are compatible with that institution's degree plan.

instructor.

Course of Study for Associate in Science Degree Mathematics

mathematics	
One and Education Denvironments	Semester Hrs
General Education Requirements	41
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	6
SPCH 1315 Public Speaking	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877GOVT 2301 U.S. and Texas Government	3
GOVT 2301 U.S. and Texas Government	
Lab Science	
*PHED (Any two one-hour activity courses)	2
Elective (must be outside major area)	
Major Requirements	
**MATH 1348 Analytic Geometry	3
MATH 2313 Calculus I	3
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2318 Linear AlgebraMATH 2320 Differential Equations	3
Related Requirements	4 4
Total Semester Hours	66
*PHED 1100 should be the first course taken in physical education.	
**Students not prepared for MATH 1348 Analytic Geometry should enroll in a Plane Trigonometry or a lower-level math course before enrolling in MATH to tration testing is available for placement aid for students planning to take MA 0372, TMTH 1370, MATH 0375, MATH 1371, MATH 1372 MATH 1314 or M	1348. Preregis- NTH 0371. MATH
Mathematics Courses	
MATH 0171 Fundamental Math	
(0-1)	mber concepts ractions and terpret informa- and variability. self-paced and technologies g. Credit is not
MATH 0172 Algebra — Graphing and Equations	
(0-1)	ns of numbers e equations velop self mathematical ocessing, and requirements

MATH 0173 Algebra — Operations and Quadratics

MATH 0174 Geometry and Problem Solving

MATH 0371 Basic Mathematics (MATH 1311)

MATH 0372 Introductory Algebra (MATH 1313)

TMTH 1370 Technical College Mathematics

MATH 0373 Elementary Mathematics of Finance (MATH 1315/1321)

MATH 0375 Intermediate Algebra (MATH 1335)

MATH 1314 College Algebra (MATH 1341)

MATH 1316 Plane Trigonometry (MATH 1343)

MATH 1324 Mathematical Analysis for Business I (MATH 1317)

MATH 1325 Mathematical Analysis for Business II (MATH 1318)

MATH 1332 Structures of College Mathematics I

MATH 1333 Structures of College Mathematics II

MATH 1342 Mathematical Statistics (MATH 1361)

MATH 1348 Analytic Geometry (MATH 1345)

MATH 1371 College Algebra for Business (MATH 1316)

MATH 1372 Technical College Algebra A study of principles and methods of college algebra to solve physical problems in technical fields. Topics will include: algebra, graphing, exponential and logarithmic functions and applied trigonometry. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others (SCANS 3,8,9,11) Prerequisite: MATH 0375 or TMTH 1370 or satisfactory placement score. MATH 1442 Business Statistics (MATH 2401) (3-3)4 hours Provides introduction to techniques of collection, presentation analysis and interpretation of numerical data. Stresses application of correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models and programming. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. (SCANS 3,6,8,9) Prerequisite: MATH 1324. **MATH 2313 Calculus I (MATH 2331)** Presents study of rate of change of functions, limits, derivatives of algebraic and trigonometric functions, integration and applications. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3,8,9,11) Prerequisite or corequisite: MATH 1348. MATH 2314 Calculus II (MATH 2333) Extends topics of MATH 2313 to include differentiation and integration of a wider class of functions, to include transcendental functions. Also includes application of these processes to solutions of a wider range of problems including moments and mass. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3,8,9,11) Prerequisite: MATH 2313. MATH 2315 Calculus III (MATH 2335) (3-0) 3 hours Presents study of sets, functions, vector fields, partial derivatives, power series and integration theory. Includes a study of line, surface and multiple integrals. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and perhaps describe these meanings to others. (SCANS 3,8,9,11) Prerequisite: MATH 2314. MATH 2318 Linear Algebra (MATH 2334) (3-0) 3 hours

Presents study of vector spaces, linear transformations, matrix algebra, eigenvalues, eigenvectors and applications. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3,8,9,11)

Prerequisite: MATH 2314.

MATH 2320 Differential Equations (MATH 2351)

Medical Lab Technology (see Clinical Laboratory Sciences)

Medical Careers

Medical Advisors: Dr. E. Don Taylor; Dr. John Lesmeister.

Odessa College offers the core courses necessary for application to allied and professional medical programs in the state of Texas. Below are a few of the more popular pre-medical majors with their required pre-professional courses. The medical advisors listed above have detailed information concerning many of the pre-medical careers, and you, as a student, are encouraged to make contact with one of these advisors early in your Odessa College work.

Medicine:

There are eight medical schools in Texas, with about 1200 chairs per year enrollment. The student must complete at least 90 college hours, and usually a bachelors degree, prior to application to these schools. There is no specified major, but the required courses must include the courses and credits summarized below:

Biology 2 years with laboratories

Chemistry 1 year of freshman inorganic with laboratory

1 year of organic with laboratory

Physics 1 year of college physics with laboratory

Calculus 3 semester hours (statistical mathematics also recommended)

English 1 year

Behavioral 6 hours behavioral science for TCOM

Biochemistry 3 hours for UT Houston

The science courses are the courses required of science majors; be sure that your course is a Coordinating Board approved course, or it might not transfer for the required course. There is also an entrance exam (MCAT) that is required for application. Please see your advisor for specifics.

Dentistry:

There are three dental schools in Texas, with about 250 chairs per year for enrollment. All three schools have a four-year professional curriculum and require completion of at least 60 college hours prior to application. The required courses include the following:

Chemistry 8 hours of general or inorganic with laboratories

8 hours of organic with laboratories

Physics 8 hours of college physics with laboratories

Biology 8 hours of freshman with laboratories, but 16 to 20 hours recommended

English 6 hours

There is also a national exam (DAT) that is required for application. It is possible to gain entrance at your junior year, but a baccalaureate degree is highly desirable. Please see the medical advisors for specific information about the dental schools.

Occupational Therapy:

Currently, Occupational Therapy requires four years of college study leading to a Bachelor of Science degree. The first two years include 60 - 70 hours of preprofessional course work, which can be taken at Odessa College. The student must then be accepted into a professional program and complete 22 - 24 months of intensive training. There are four schools in Texas offering this degree. The course requirements vary considerably with the four schools, so it is recommended that you see one of the medical advisors and obtain a copy of the current requirements.

Physical Therapy:

The Physical Therapy programs in Texas are in a state of change currently. The degree is currently changing from a bachelors to masters. There are currently seven programs admitting students, generally after completion of 70 credits toward a bachelors degree. The required course work for application varies from school to school, so please see one of the medical advisors for current course requirements concerning the schools.

Optometry:

The only optometry school in Texas is at the University of Houston. The school requires completion of 90 hours of college course work prior to application, but a bachelors degree must be completed after enrollment. Most students enter with the bachelors degree. The required courses must include:

Mathematics 7 hours including calculus Physics 8 hours with laboratory

Biology 8 hours introductory with laboratories 4 hours microbiology/bacteriology

4 hours human anatomy

4 hours animal or human physiology

Chemistry 8 hours general or inorganic with laboratories

4 hours organic with laboratory

3 hours biochemistry

Psychology 3 hours Statistics 3 hours

The science courses are generally the courses required of science majors. Be sure your class is a Coordinating Board approved class. See the campus medical advisors for specific information concerning this major.

Pharmacy:

There are three programs in Texas and one in Oklahoma that are available for your application. All of the schools are currently changing from a bachelors degree to a Phar-D. Since there is so much change in these programs, it is suggested that you see the campus medical advisors for current information concerning required courses.

Veterinary Medicine:

The only college of veterinary medicine in Texas is at Texas A & M University. The minimum requirement for veterinary college enrollment is completion of 64 hours including:

Nutrition 3 hours Biochemistry 3 hours

Biology 4 hours introductory with laboratory 4 hours microbiology with laboratory

3 hours genetics

Chemistry 8 hours general or inorganic with laboratories

4 hours organic with laboratory

Physics 8 hours with laboratories
Mathematics 3 hours calculus or statistics
English 3 hours composition and rhetoric

3 hours literature 3 hours technical writing

3 hours speech

Only courses required for science majors will be accepted, so be sure your class is a Coordinating Board approved class. There is also a national exam (MCAT or GRE) that is required for application. Please see your campus medical advisors for current information.

There are required GPAs and exams for entrance into all of the medical programs. Each program also has its own protocol as to its application. Please see your campus medical advisors for current information. These advisors are also your best source for letters of recommendation, so get to know them.

The advisors have detailed handouts for the above programs and:

Summer Program for Minority and Disadvantaged Students
Admission tests
The Application
Health Professions Evaluations
Interviewing at Professional Schools
Chiropractic
Cytotechnology
Dental Hygiene
Medical Records Administration
Medical Technology
Physician Assistant
Podiatric Medicine
Public Health
Registered Nursing
Respiratory Care

Metal Trades Technologies

Faculty: Duane Nobles, chair.

Course of Study for Associate in Applied Science Degree Metal Trades Technologies

Two options are available to students in the Metal Trades Technologies Program.

The Industrial Machinist option is designed to provide students 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 students with sufficient knowledge for entry employment in the trade.

The Industrial Welding option 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, communications, blueprint reading, and layout to interpret engineers' plans and instructions, and to work as a supporting technician with minimum orientation.

	Semester Hrs
General Education Requirements for all options	17
ENGL 1301 Composition and Rhetoric	
or ENGL 1312 Report Writing CReport Writing 15 not a	noptien.3
engl 1301 Composition and Rhetoric or ENGL 1312 Report Writing (Report Writing 15 not a SPCH 1315 Public Speaking or for welding; only for mac. SPCH 1321 Business and Professional Speech	linist)
SPCH 1321 Business and Professional Speech	
COSC 1301 Introduction to Computer Systems	3
HIST 1301 U.S. History to 1877	

Semester Hrs
MATH 1372 Technical College Algebra or MATH 1314 College Algebra or MATH 1371 College Algebra for Business MATH 1371 College Algebra for Business MATH 1371 College Algebra for Business
MATH 1314 College Algebra or only for Machinist
MATH 1371 College Algebra for Business
PHED (Any two one-hour activity courses)2
Elective (must be outside major area)3
*PHED 1100 should be the first course taken in physical education.
Technical Core18
PETR 1300 Petroleum Overview3
DRAF 1401 Technical Drafting I4
WELD 1401 General Welding4
MACH 1401 Basic Machine Shop Fundamentals4 OSHA 2395 Industrial Safety3
Total Semester Hours41
and one of the following two options
Industrial Machinist Option
Major Requirements
MACH 1402 Machines and Their Operations I4
MACH 1403 Machines and Their Operations II
MACH 2401 Advanced Machine Tool Operations I
MACH 2403 Metallurgy4
MACH 2404 Computerized Numerical Control (CNC)4
MACH 2377 Cooperative Work Experience3
Industrial Welding Option
Major Requirements27
WELD 1402 Intermediate Shielded-Metal Arc Welding4
WELD 1403 Basic Layout
WELD 2401 Advanced Shielded-Metal Arc Welding4
WELD 2402 Gas Metal Arc Welding4
WELD 2403 Metallurgy4
WELD 2404 Gas Tungsten Arc Welding4
WELD 2377 Cooperative Work Experience3
Certificates of Technology in Metal Trades Technologies
Certificates of Technologies are available in the following job-specific fields. See the program chairman for course requirements and Permian Basin job opportunities.
program chamman for course requirements and remitan basin job opportunities.
Machinist Option
COSC 1301 Introduction to Computer Systems
ENGL 1312 Report Writing3
TMTH 1370 Technical College Mathematics or
higher level math3 DRAF 1401 Technical Drafting I4
WELD 1401 General Welding4
MACH 1401 Basic Machine Shop Fundamentals
MACH 1402 Machines & Their Operations4
MACH 2401 Advanced Machine Tool Operations I4
MACH 2403 Metallurgy4 MACH 2404 Computerized Numerical Control4
Total Semester Hours37

	4	
_	ENGL 1312 Report Writing 3	15
1.0	ENGL 13/2 Machine Shop Foreman Option	
	COSC 1301 Introduction to Computer Systems3	
	TMTH 1370 Technical College Mathematics or	
	higher level math	
	WELD 1401 General Welding4 DRAF 1401 Technical Drafting I	
-	MACH 1401 Basic Machine Shop Fundamentals4	
	MACH 1402 Machines & Their Operations	
	MACH 1403 Machines and Their Operations4	
4.0	MACH 2401 Advanced Machine Tool Operations I4	
	MACH 2402 Advanced Machine Tool Operations II4	
	MACH 2403 Metallurgy	
-3	MACH 2404 Computerized Numerical Control4 OSHA 2395 Industrial Safety3	
	· · · · · · · · · · · · · · · · · · ·	
	Total Semester Hours	48
144	Computerized Numerical Control Programmer Option	
*	COSC 1301 Introduction to Computer Systems	
•	ENGL 1312 Report Writing3	
	MATIL 4044 Onlines Aleches as	
*	MATH 1314 College Algebra of MATH 1378 And M	
*	DRAF 1401 Technical Draπing I4	
	MACH 1401 Basic Machine Shop Fundamentals4	
_	MACH 2404 Computerized Numerical Control4	
	Total Semester Hours21	
	Battilla in Batta blin o Omenandes Ondres	
	Milling Machine Operator Option ENGL 1312 Report Writing	
	ENGL 1312 Report Writing	
	higher level math3	
_	DRAF 1401 Technical Drafting I4	
	MACH 1401 Basic Machine Shop Fundamentals4	
	MACH 1402 Machines & Their Operations4	
	MACH 1403 Machines and Their Operations4	
	MACH 2401 Advanced Machine Tool Operations I4	
_	Total Semester Hours37	
	Engine Lathe Operator Option	
	ENGL 1312 Report Writing3	
	TMTH 1370 Technical College Mathematics or	
- 🕸	higher level math3	
	DRAF 1401 Technical Drafting I4	
	MACH 1401 Basic Machine Shop Fundamentals4	
	MACH 1402 Machines & Their Operations4 MACH 2401 Advanced Machine Tool Operations I4	
	Total Semester Hours22	
	General Welder Option	
ğ	ENGL 1312 Report Writing3	
-	TMTH 1370 Technical College Mathematics or	
	higher level math	
	DRAF 1401 Technical Drafting I	
*	WELD 1401 General Welding4 WELD 1402 Intermediate Shielded-Metal Arc Welding4	
_	•	
	Total Semester Hours18	
100		

	Fitter Welder Option
EN TM	IGL 1312 Report Writing3
	higher level math3
DF	RAF 1401 Technical Drafting I4
W	ELD 1401 General Welding4
WI	ELD 1402 Intermediate Shielded-Metal Arc Welding4
	ELD 1403 Basic Layout4
Fotal S	Semester Hours22
	Certified Welder Option
E١	IGL 1312 Report Writing3
TM	1TH 1370 Technical College Mathematics or
	higher level math3
DF	RAF 1401 Technical Drafting I4
WI	ELD 1401 General Welding4
W	ELD 1402 Intermediate Shielded-Metal Arc Welding4
VVI	ELD 2401 Advanced Shielded-Metal Arc Welding
VVI	ELD 2404 Gas Tungsten Arc Weiding4
Total S	Semester Hours26
	Pipe Welding Foreman Option
E١	IGL 1312 Report Writing3
TN	ATH 1370 Technical College Mathematics or
	higher level math
DF	RAF 1401 Technical Drafting I4
W	FLD 1401 General Welding 4
W	ELD 1402 Intermediate Shielded-Metal Arc Welding4
W	ELD 1403 Basic Layout4
	ELD 2401 Advanced Shielded-Metal Arc Welding4
Wi	ELD 2402 Gas Metal Arc Welding4
	ELD 2404 Gas Tungsten Arc Welding4
Total S	Semester Hours34
	Welding Machine Operator Option
CC	OSC 1301 Introduction to Computer Systems3
E١	IGL 1312 Report Writing3
TN	ATH 1370 Technical College Mathematics or
	higher level math3
DF	RAF 1401 Technical Drafting I4
W	ELD 1401 General Welding4
W	ELD 1402 Intermediate Shielded-Metal Arc Welding4
VV	ELD 1403 Basic Layout
VVI	ELD 2401 Advanced Shielded-Metal Arc Welding4 ELD 2402 Gas Metal Arc Welding4
VV	ELD 2402 Matalluray
VVI	ELD 2403 Metallurgy4 ELD 2404 Gas Tungsten Arc Welding4
₩VI	SHA 2395 Industrial Safety
	•
ı otal S	Semester Hours44

Machine Technology Courses MACH 1401 Basic Machine Shop Fundamentals (2-6)4 hours Covers the basics of machine shop practices, trade terminology, shop safety, shop operations, semi-precision and precision measuring tools, hand tools and high speed tooling. Students will perform basic calculations, select and acquire materials, and apply appropriate machine shop technology to complete the assigned tasks. Students will learn problem solving techniques and be responsible for producing quality work. Requires grinding and sharpening single-point cutting tools for simple lathe projects. (SCANS 3,4,8,9,10) Lab fee required. Prerequisite: None. MACH 1402 Machines and Their Operations I (2-6)4 hours Students will learn to understand and interpret blueprints, and approach practical problems using precision measuring instruments. Students will use a variety of equipment such as, power hacksaw, bandsaw and pedestal grinders. This course stresses advanced lathe operation and set up and requires classroom and laboratory performance to demonstrate maximum machine tool performance. (SCANS 1.3.4.8.9.10) Lab fee required. Prerequisite or corerequisite: MACH 1401 or consent of department chair.

MACH 1403 Machines and Their Operations II

MACH 2401 Advanced Machine Tool Operations I

MACH 2402 Advanced Machine Tool Operations II

MACH 2403 Metallurgy

MACH 2404 Computerized Numerical Control

MACH 2377 Cooperative Work Experience

Welding Technology Courses

WELD 1401 General Welding

WELD 1402 Intermediate Shielded-Metal Arc Welding

WELD 1403 Basic Layout

WELD 2401 Advanced Shielded-Metal Arc Welding

WELD 2402 Gas Metal Arc Welding

WELD 2403 Metallurgy

WELD 2404 Gas Tungsten Arc Welding

WELD 2377 Cooperative Work Experience

Music

Faculty: Dr. Kathryn Hoppe, chair; Dr. Maurice Alfred (ret.), Lonnie Clark, Randy Talley, Dr. Charlotte Whitaker.

The Odessa College Music Department, offering an Associate of Arts degree in music, provides a high quality academic program and cultural enrichment for all Ector County area residents. Courses and performing organizations supply pre-professional training for the music major, fulfill general education requirements, and offer personal enrichment and enjoyment for area residents. As a service to the community, the department presents performances of faculty, students, and ensembles; hosts area music clinics and competitions; and furnishes performance facilities for area music teachers. The Music Department is an accredited institutional member of the National Association of Schools of Music, a member of the Texas Association of Music Schools and the Texas Music Educators Association.

Course of Study for Associate in Arts Degree Music

	Semester Hrs
General Education Requirements	35
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	6
SPCH 1315 Public Speaking	
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	
**Foreign Language, Math, or Science	6
*PHED (Any two one-hour activity courses)	
Elective (must be outside the major area)	3
Major Requirements	
Freshman Principal Instrument or Voice	4
Sophomore Principal Instrument or Voice	
Class Piano, Secondary Piano, or Piano Ensemble (Piano Majors)	4
MUSI 1308 and MUSI 1309 Introduction to Music Literature	6
MUSI 1311 and MUSI 1312 Freshman Music Theory	
MUSI 2311 and MUSI 2312 Advanced Study of Harmony	
Music Ensemble	4
Total Semester Hours	72
*PHED 1100 should be the first course taken in physical education.	
**Six to eight semester hours in same discipline.	
Music Ensemble Courses	
MUSI 1121, 1122, 2121, 2122 Concert Band (MU 1101, 1102, 2101, 2102)
(0-3)	1 hour each
(0-3) Performance oriented course for students with at least high school play	ing experi-
ence. Participation in all performances expected. Students will enhance	ce their music
reading and listening skills and will develop social skills and responsibil	ity through
group performance. (SCANS 1,5,10,11) Prerequisite: None.	
MIIO 4404 4400 0404 0400 I Francisco (AUI 4400 4404 0400 040	Δ.
MUSI 1131, 1132, 2131, 2132 Jazz Ensemble (MU 1103, 1104, 2103, 210	4)
(0-3) Performance oriented course for students with at least high school play	i nour each
ence. Participation in all performances expected. Students will enhance	
reading and listening skills and will develop social skills and responsibile	ity through
group performance. (SCANS 1,5,10,11) Prerequisite: Consent of the	
group performance: (SOANS 1,5,10,11) Therequisite: Consent of the	ii isti uctoi
MUSI 1133, 1134, 2133, 2134 Orchestra (MU 1105, 1106, 2105, 2106)	
(0-3)	1 hour each
Performance oriented course for students who can play music of mode	
on an orchestral instrument. Participation in all performances expecte	d. Students
will enhance their music reading and listening skills and will develop so	cial skills and
responsibility through group performance. (SCANS 1,5,10,11) Prerequipment	uisite: Con-
sent of the instructor.	

MUSI 1135, 1136, 2135, 2136 Chamber Music (MU 1109, 1110, 2109, 2110) Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (SCANS 1,5,10,11) Prerequisite: Consent of the instructor. MUSI 1137, 1138, 2137, 2138 Plano Ensemble and Accompanying (MU 1123, 1124, 2123, 2124) (0-3)1 hour each Designed to improve ensemble playing and to provide training in techniques of vocal and instrumental accompanying. Four semester hours required of all keyboared majors. Music reading and listening skills will be enhanced through ensemble playing and accompanying solo performers. (SCANS 1,5,11) Prerequisite: Consent of the instructor for all non-keyboard majors. MUSI 1241, 1242, 2241, 2242 A Cappella Choir (MU 1211, 1212, 2211, 2212) (0-5)2 hours each À required course for music majors whose primary instrument is voice, or an elective course for non-music majors. Studies include fundamental vocal techniques and choral literature representing many styles and composers from all periods of music. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (SCANS 1,5,10,11) Prerequisite: Admission by audition with acceptance based on musical ability and voice quality. MUSI 1151, 1152, 2151, 2152 Vocal Ensemble (MU 1107, 1108, 2107, 2108) (0-3)1 hour each An elective course designed to acquaint the student with chamber music for the small vocal ensemble of all periods of music. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (SCANS 1,5,10,11) Prerequisite: Selection from the A Cappella Choir by audition with acceptance based on musical ability and voice quality. Music Classes **MUSI 1306 Music Appreciation (MU 1328)** standing and enjoyment of the world's music. Music history information and listening skills will be acquired through a multi-media approach which includes lectures. videos, recordings, and live performances. (SCANS 6,11) Prerequisite: None. MUSI 1308, 1309 Introduction to Music Literature (MU 1335, 1336) A chronological survey course for music majors, which acquaints students with musical composition from the Middle Ages through the twentieth century. Historical aspects, as well as the music itself, are presented. Music history information and listening skills will be acquired through various audio-visual aids, including videotapes, CD's, CD-Roms, workbooks, and textbook. Required of all music majors. (SCANS 6.11) No prerequisite for MUSI 1308. Prerequisite for MUSI 1309: Consent of instructor. **MUSI 1311, 1312 Freshman Music Theory** (MU 1376, 1377) Reviews basic music theory, followed by study of diatonic melody, diatonic triadic and seventh chord harmony, embellishing tones, modes and motivic variation procedures through analysis, part-writing, composition, ear-training, sight-singing, rhythmic

reading and keyboard applications. Required for all Music majors. (SCANS 6,11)

Prerequisite for MUSI 1312: MUSI 1311.

MUSI 2311, 2312 Advanced Study of Harmony (MU 2333, 2334) small forms through analysis, part-writing, composition, eartraining, sightsinging, rhythmic reading and keyboard applications. Twentieth century melody and harmony and large forms studied during the second semester. Required for all music majors. (SCANS 6,11) Prerequisite for MUSI 2311: Mu 1312. Prerequisite for MUSI 2312: MUSI 2311. MUSI 1370 Music Fundamentals (MU 1329) This course is open to all students and is a basic study of the principles of music and music theory information including notation, scales, intervals, and chords. (SCANS 6) Prerequisite: None. MUSI 1371, 1372 Piano Literature (MU 1373, 1374) (3-0)3 hours each Surveys and studies solo literature for piano. Emphasizes individual and period idioms and styles. MUSI 1371 presents origins of keyboard and solo piano literature of the 18th century. MUSI 1372 presents solo piano literature of the 19th and 20th centuries. Information is acquired and listening skills are enhanced through the use of cassette tapes, videotapes, CD's, CD-Roms, and live performance. (SCANS 6,11) Prerequisite: Consent of the instructor. **MUSI 1373 Channeling Performance Stress (MU 1375)** Directed toward students in performance classes. Addresses psychological and physiological stress responses with regard to their effect on performing ability. Presents training in both systemic and muscular relaxation techniques. The student is taught to recognize performance problems, and implement plans to enhance self esteem. Course includes live performances by the students, as well as videotaping sessions and critiques. (SCANS 9,10) Prerequisite: Consent of the instructor. MUSI 1160 Italian Diction (MU 1127) (2-0) ______1 hour Emphasizes Italian language and diction. Designed to promote ability to sing and phonetically spell the Italian language through listening and speaking exercises. Vocabulary derived from words commonly used in song and opera. (SCANS 11) Prerequisite: None. MUSI 2160 German Diction (MU 1126) (2-0)1 hour Emphasizes German language and diction. Designed to promote ability to sing and phonetically spell the German language through listening and speaking exercises. Vocabulary derived from words commonly used in song and opera. (SCANS 11) Prerequisite: MUSI 1160. MUSI 2161 French Diction (MU 1125) phonetically spell the French language through listening and speaking exercises. Vocabulary derived from words commonly used in song and opera. (SCANS 11) Prerequisite: MUSI 1160. **MUSI 1170, 1171 General Foundations in Music (MU 1177, 1178)** Offered on an elective basis to meet special needs of students to develop their musical ability. Emphasizes the necessary skills for listening, creating rhythmic responses, and reading music notation. This course may involve an individual study project. Lab fee required. (SCANS 1,11) Prerequisite: None.

MUSI 1172, 1173 Instrumental Foundations in Music (MU 1179, 1180) (0-1/2)1 hour each Offered on an elective basis to meet special needs of students to develop their musical ability. Emphasizes the necessary skills for satisfactory performance in playing an instrument, listening, creating rhythmic responses, and reading music notation. Lab fee required. (SCANS 1.11) Prerequisite: None. **MUSI 1174, 1175 Keyboard Foundations in Music (MU 1181, 1182)** Offered on an elective basis to meet special needs of students to develop their musical ability. Emphasizes the necessary skills for satisfactory performance in playing a keyboard instrument, listening, creating rhythmic responses, and reading music notation. Lab fee required. (SCANS 1,11) Prerequisite: None. MUSI 1176, 1177 Vocal Foundations in Music (MU 1183, 1184) (0-1/2)1 hour each Offered on an elective basis to meet special needs of students to develop their musical ability. Emphasizes the necessary skills for satisfactory vocal performance, listening, creating rythmic responses, and reading music notation. Lab fee required. (SCANS 1,11) Prerequisite: None. MUSI 1181, 1182, 2181, 2182 Class Piano (MU 1185, 1186, 2185, 2186) (1-2)1 hour each Courses for music majors, designed to develop basic skills related to playing the piano, developing the keyboard skills through both class and individual participation. Begins with fundamental elements of music, including music reading, basic concepts of elementary music theory (melody, rhythm, harmony), chord structure, harmonization, ensemble playing and improvisation. Class taught in state-of-the-art piano lab. using digital keyboards, sequencers and computers. (SCANS 1,5,6,8) Prerequisite: Consent of the instructor. **Private Lessons** Private study of piano, organ, voice, string, brass, woodwind, and percussion instruments is available to all students on both beginning and advanced levels of instruction. Students will develop and/or enhance their music reading and listening skills through practice and performance on their instrument. Music majors will have a one hour lesson on their major instrument. They may also have a 1/2 hour lesson on a secondary instrument. Non-music majors will have a 1/2 hour lesson. Five hours of practice per week is required for a 1/2 hour lesson, and 10 hours for a one hour lesson. (SCANS 1.11) Lab fee required. Prerequisite: None. Non-Music Major Courses MUAP 1189, 1190, 2189, 2190 Applied Music (MU 1119, 1120, 2119, 2120) (0-1/2)1 hour each **Music Major Courses** MUAP 1201, 1202 Freshman Violin (MU 1243, 1244) **MUAP 2201, 2202 Sophomore Violin (MU 2243, 2244)** (0-1)2 hours each **MUAP 1205, 1206 Freshman Viola** (MU 1245, 1246) (0-1)2 hours each **MUAP 2205, 2206 Sophomore Viola (MU 2245, 2246)** (0-1)2 hours each

MUAP 1209, 1210 Freshman Cello (MU 1247, 1248) (0-1)	2 hours each
MUAP 2209, 2210 Sophomore Cello (MU 2247, 2248) (0-1)	2 hours each
MUAP 1213, 1214 Freshman Double Bass (MU 1249, 1250) (0-1)	2 hours each
MUAP 2213, 2214 Sophomore Double Bass (MU 2249, 2250) (0-1)	2 hours each
MUAP 1217, 1218 Freshman Flute (MU 1255, 1256) (0-1)	2 hours each
MUAP 2217, 2218 Sophomore Flute (MU 2255, 2256) (0-1)	2 hours each
MUAP 1221, 1222 Freshman Oboe (MU 1259, 1260) (0-1)	2 hours each
MUAP 2221, 2222 Sophomore Oboe (MU 2259, 2260) (0-1)	2 hours each
MUAP 1225, 1226 Freshman Bassoon (MU 1253, 1254) (0-1)	2 hours each
MUAP 2225, 2226 Sophomore Bassoon (MU 2253, 2254) (0-1)	2 hours each
MUAP 1229, 1230 Freshman Clarinet (MU 1257, 1258) (0-1)	2 hours each
MUAP 2229, 2230 Sophomore Clarinet (MU 2257, 2258) (0-1)	2 hours each
MUAP 1233, 1234 Freshman Saxophone (MU 1261, 1262) (0-1)	2 hours each
MUAP 2233, 2234, Sophomore Saxophone (MU 2261, 2262) (0-1)	2 hours each
MUAP 1237, 1238 Freshman Cornet or Trumpet (MU 1267, 1268) (0-1)	2 hours each
MUAP 2237, 2238 Sophomore Cornet or Trumpet (MU 2267, 2268) (0-1)	
MUAP 1241, 1242 Freshman French Horn (MU 1263, 1264) (0-1)	2 hours each
MUAP 2241, 2242 Sophomore French Horn (MU 2263, 2264) (0-1)	2 hours each
MUAP 1245, 1246 Freshman Trombone or Baritone (MU 1265, 1266) (0-1)	

海	MUAP 2245, 2246 Sophomore Trombone or Baritone (MU 2265, 2266) (0-1)2 hours each
	MUAP 1253, 1254 Freshman Tuba (MU 1269, 1270) (0-1)2 hours each
	MUAP 2253, 2254 Sophomore Tuba (MU 2269, 2270) (0-1)2 hours each
**	MUAP 1257, 1258 Freshman Percussion (MU 1271, 1272) (0-1)2 hours each
	MUAP 2257, 2258 Sophomore Percussion (MU 2271, 2272) (0-1)2 hours each
	MUAP 1261, 1262 Freshman Classical Guitar (MU 1251, 1252) (0-1)2 hours each
	MUAP 2261, 2262 Sophomore Classical Guitar (MU 2251, 2252) (0-1)
***	MUAP 1265, 1266 Freshman Organ (MU 1239, 1240) (0-1)2 hours each
	MUAP 2265, 2266 Sophomore Organ (MU 2239, 2240) (0-1)2 hours each
	MUAP 1269, 1270 Freshman Piano (MU 1237, 1238) (0-1)2 hours each
	MUAP 2269, 2270, Sophomore Piano (MU 2237, 2238) (0-1)
	MUAP 1281, 1282 Freshman Voice (MU 1241, 1242) (0-1)2 hours each
	MUAP 2281, 2282 Sophomore Voice (MU 2241, 2242) (0-1)2 hours each
_	MUAP 1165, 1166, 2165, 2166 Secondary Organ (MU 1139, 1140, 2139, 2140) (0-1/2)
	MUAP 1169, 1170, 2169, 2170 Secondary Piano (MU 1137, 1138, 2137, 2138) (0-1/2)
1	MUAP 1181, 1182, 2181, 2182 Secondary Voice (Mu 1141, 1142, 2141, 2142) (0-1/2)1 hour each
	MUAP 1187, 1188, 2187, 2188 Secondary Instrument (MU 1113, 1114, 2113, 2114) (0-1/2)

Nursing (RN/Vocational)

Faculty: Nancy Johnson, chair, Odessa College Department of Nursing; Ladona Cook, assistant director and coordinator of RN-Direct Option Program; J. J. Backer, Gail Barry, Carol Boswell, Patty Chapman, Dorothy Cook, Wanda Davis, Nancy Harris, Eva Mauldin, Jan Phillips, Pat Ritchey, Robbie Rogers, Naomi Warren, Dr. Ann Winn.

The Career Ladder Option on the Odessa College campus is designed to allow students maximum flexibility in education. Students have the option of progressing through the two levels of nursing after meeting requirements for each level. The vocational level prepares the nurse, who qualifies, to write the licensing examination for the vocational nurse. The student will receive a Certificate of Completion from Odessa College. The associate degree level prepares the nurse, who qualifies, to write the licensing examination for the registered nurse. Successful completion of the associate degree level qualifies the student to receive the Associate in Applied Science Degree. Classes are admitted to the vocational level in the fall and spring semesters and to the associate degree option in the fall semester.

The transition/validation course requires admission to the career ladder program for persons who are licensed vocational nurses. The purpose of this course is to validate and enhance nursing skills and to bring the LVN to the level of the generic nursing student entering the second year. Upon successful completion of the transition/validation course, the LVN will receive credit for the first year of the nursing curriculum.

The RN Program-Direct Option prepares the graduate to take the licensing examination to become a registered nurse. Upon successful completion of the program, students receive an Associate in Applied Science Degree. All classes and clinicals are conducted during evening hours with the exception of the psychiatric clinical, which is offered during daytime hours. Classes are admitted in the Fall on even number years on evenings only.

The Tech Prep Career Ladder Option is to provide a six-year curriculum for nursing students starting with the freshman year in high school and continuing through the sophomore year at Odessa College which provides a variety of competencies and advanced work in nursing not possible to obtain in two years. These students will have the flexibility to progress through the career ladder option.

Admission Requirements for the Career Ladder Option, RN-Direct Option, Transition/Validation for the Licensed Vocational Nurse, and the Tech Prep/Career Ladder Option

- Official high school transcript or GED.
- 2. College cumulative GPA of 2.0 or higher in all course work.
- BIOL 2401, Anatomy and Physiology I and BIOL 2402, Anatomy and Physiology II; MATH 1332 or more advanced; and NURS 1201, Pharmacology plus listed prerequisites for each option (Biology courses 2401, 2402) must have been completed within past 5 years.
- Passed TASP and/or satisfactory scores on ASSET placement tests.
- A score of the 50th percentile or higher on the nursing entrance examination.
- Current CPR certification (Course C, American Heart Association, or Basic Life Support for the Professional, American Red Cross).
- Persons who have been convicted of felonies or misdemeanors must request a declaratory order from the State Board of Nurse Examiners in Texas prior to admission.
- 8. Applications should be submitted no later than March 1 for the fall semester and no later than October 1 for the spring semester.
- 9. Proof of medical and liability insurance coverage.

Career Ladder Nursing Option

The Career Ladder Nursing Program is designed to allow students maximum flexibility in education. They have the option of progressing through the two levels of nursing. The vocational level prepares the vocational nurse, and the associate degree level prepares the associate degree nurse. All nursing students must have current CPR certification and are governed by policies in the Nursing Student Handbook.

Vocational Level*

Certificate of Completion

	Certificate of Completion
	Prerequisite Courses Semester Hrs
San .	BIOL 2401 Anatomy and Physiology I4
*	BIOL 2402 Anatomy and Physiology II4
	MATH 1332 Structures of College Mathematics I or
_	higher level math3
	First Year
	Summer Session II
	Semester Hrs
	NURS 1201 Pharmacology2
T.	First Semester
-	PSYC 2308 Child Psychology3
	NURS 1831 Basic Nursing8
	•
桑	Second Semester
	**NURS 1832 Care of Clients with Unstable Health Conditions I
_	COSC 1301 Introduction to Computer Systems
	Summer Sessions I and II
an a	NURS 1933 Care of Clients with Unstable Health Conditions II9
	(12 weeks)
	*Students who successfully complete the vocational level with a cumulative GPA of 2.0 or
	better in all course work are eligible to write the State Board Examination for licensure as
	a vocational nurse and receive a Certificate of Completion.
	**Students planning to enter the associate degree level may take an additional academic
200	course from the curriculum for the second year.
*	Associate Degree Level***
-	Second Year
	First Semester
	Semester Hrs
	BIOL 2420 Microbiology4
	ENGL 1301 Composition and Rhetoric
,	NURS 2534 Nursing Care of Clients-Critical Health Deviations5
	SPCH 1315 Public Speaking3
	*PHED 1100 Lifestyle Assessment and Modification1
_	Second Semester
	Elective
	GOVT 2301 U.S. and Texas Government
-	NURS 2535 Complex Health and Nursing Problems3
	PHED One-hour activity course1
	***Students successfully completing the associate degree level are eligible to write the
Ĵ	State Board Examination for licensure as a registered nurse.
	*PHED 1100 should be the first activity course taken in physical education.
	1.00 Should be the met dening evenes when his proposed based on

Transition/Validation Course for Licensed Vocational Nurses

Prior to taking the Transition/Validation Course, licensed vocational nurses must be licensed to practice nursing in the state of Texas. Upon successful completion of the Transition/Validation Course, students will follow the curriculum for the associate degree level of the Career Ladder Program. All nursing students must have current cardiopulmonary resuscitation certification and are governed by policies in the Nursing Student Handbook.

Prerequisite Courses	.Semester Hrs
BIOL 2401 Anatomy and Physiology I	4
BIOL 2402 Anatomy and Physiology II	4
MATH 1332 Structures of College Mathematics I or	
higher level math	3
PSYC 2308 Child PsychologyCOSC 1301 Introduction to Computer Systems	3
NURS 1201 Pharmacology (or consent of instructor)	
,	

First Year

First Semester

	Semester Hrs
*NURS 1630 Transition/Validation for the L.V.N	6
ENGL 1301 Composition and Rhetoric	
SPCH 1315 Public Speaking	3
**PHED 1100 Lifestyle Assessment and Modification	1

Second Semester

BIOL 2420 Microbiology4
NURS 2534 Nurs Care of Clients with Critical Health Dev

Second Year

Third Semester

	Semester Hrs
GOVT 2301 U.S. and Texas Government	3
NURS 2535 Complex Health and Nursing Problems	5
Elective	
PHED One-hour activity course	

^{*}When students have successfully completed NURS 1630, they are eligible to enter the second year of the curriculum.

RN Associate Degree Nursing Program-Direct Option

The Odessa College Evening Nursing Program offers a sequence of evening classes leading to an Associate in Applied Science Degree and preparation to write the licensing examination for a registered nurse. Nursing courses begin in the fall semester of even numbered years. Psychiatric clinical experiences may be held during day hours. Prior to entering the nursing courses, the student must have completed the academic support course requirements designated in the first year of the curriculum and be currently certified in CPR. All students are governed by policies in the Nursing Student Handbook.

First Year

First Semester

	Semester Hrs
BIOL 2401 Anatomy and Physiology I	4
ENGL 1301 Composition and Rhetoric	3
MATH 1332 Structures of College Mathematics I or	
higher level math	3
*PHED Lifestyle Assessment and Modification	1

^{**}PHED 1100 should be the first activity course taken in physical education.

	Second Semester Semester Hrs
	BIOL 2402 Anatomy and Physiology II
	Summer Session I BIOL 2420 Microbiology4
	Summer Session II NURS 1201 Pharmacology2
	Second Year
	First Semester NURS 1851 Basic Nursing, Evening8
	Second Semester NURS 1852 Unstable Health Conditions, Evening8
	Summer Session I SPCH 1315 Public Speaking
	Summer Session II GOVT 2301 U.S. and Texas Government
	Third Year First Semester NURS 2953 Critical Health Problems, Evening9
	Second Semester NURS 2954 Complex Health Problems, Evening9
	*PHED 1100 should be the first course taken in physical education.
	Program for the RN: Tech Prep/Career Ladder Option
	Semester Hrs
_	*Prerequisite/Bridge Courses17 BIOL 2401 Anatomy & Physiology I4
	BIOL 2402 Anatomy & Physiology II4 MATH 1332 Structures of College Mathematics I or
	higher level math3
	PSYC 2308 Child Psychology
	First Year
5	*Summer Session II Semester Hrs
	NURS 1201 Pharmacology2
	*First Semester **NURS 1831 Basic Nursing8
No.	* The above prerequisite courses and first year courses are required as a bridge program for non-tech-prep high school graduates to continue in the RN: Tech Prep/Career Ladder Option. Graduates of the high school tech prep nursing program will have completed the above courses or equivalent competencies in their high school curriculum.
	** Completers of NURS 1831 with a grade of "C" or higher are eligible to receive a Certificate of Completion as a NURSE TECH I and are eligible for employment at the aide level.

Second Semester

NURS 1832 Care of Clients with Unstable Health Conditions	Semester Hrs
Summer Sessions I & II	
**NURS 1933 Care of Clients with Unstable Health Cond. II	9
**Completers of NLIRS 1933 with a grade of "C" or higher are eligible to (a.) receive an

**Completers of NURS 1933 with a grade of "C" or higher are eligible to (a) receive an LVN Certificate of Completion, (b) sit for the State Board Examination for licensure as a vocational nurse, and (c) enter the Associate Degree Level without completion of NURS 1630.

Second Year

Semester Hrs

First Semester

	44.11.44.11.1
NURS 2534 Nursing Care of Clients with Critical Health Cond	5
BIOL 2420 Microbiology	4
SPCH 1315 Public Speaking	3
ENGL 1301 Composition and Rhetoric	3
PHED 1100 Lifestyle Assessment and Modification	
· · · · · · · · · · · · · · · · · · ·	

Second Semester

NURS 2535 Complex Health and Nursing Problems5	
GOVT 2301 U.S. and Texas Government3	
PHED One-hour activity course1	

^{**}Students successfully completing the Associate Degree Level program are eligible to receive an Associate's Degree in Nursing and write the State Board Examination for licensure as a registered nurse. Academic courses listed in the Second Year may be taken earlier if the student's schedule and abilities allow.

NURS 1201 Pharmacology

(2-1) [16 weeks	s]2 hours
(6-3) [5 weeks]	2 hours

The student identifies pharmacological classifications of drug actions, side effects, and toxic implications. Using dimensional analysis the student performs drug dosage calculations for administration of medications and monitoring of intravenous solutions for clients. (SCANS 1,2,3,6) Prerequisites: BIOL 2401 and BIOL 2402. Corequisites: NURS 1831 and PSYC 2308 and consent of the department chair.

NURS 1630 Transition/Validation for the L.V.N.

Prepares the licensed vocational nurse with major concepts basic to the curriculum and conceptual framework to determine the health status and health needs of clients and families based on interpretation of health data in collaboration with clients, families, and other health care professionals. During clinical experiences the student demonstrates the use of the five steps in a systematic process, which includes assessment, analysis, planning, implementing, and evaluating, in identifying overt and covert actual or potential health care needs of clients and their families. Administers medications and treatments following established protocols. Begins to integrate theoretical knowledge with the application of clinical knowledge in the decisionmaking process for the provision of nursing care. Builds on LVN competencies. Requires supervision by instructor while in the clinical settings. Successful completion of course makes the student eligible to enter second year of the Career Ladder Option curriculum. Lab fee required. (SCANS 2,3,4,6,9,10) Prerequisite: BIOL 2401, BIOL 2402, MATH 1314 or MATH 1342, PSYC 2308, COSC 1301, NURS 1201 and consent of department chair. Texas license to practice as a L.V.N.

NURS 1831 Basic Nursing

NURS 1832 Unstable Health Conditions I

NURS 1851 Basic Nursing

NURS 1852 Unstable Health Conditions

NURS 1933 Care of Clients with Unstable Health Conditions II

NURS 2374 Critical Care Nursing Problems

NURS 2534 Critical Health Deviations

NURS 2535 Complex Health and Nursing Problems

NURS 2953 Complex Health Problems

NURS 2954 Critical Health Problems

Vocational Nursing Course of Study Andrews and Kermit Extensions

Faculty: Karen Paterno, chair, Andrews Vocational Nursing Program; DeAnna Moore; Norma Drennon, chair, Kermit Vocational Nursing Program; Maureen Watson.

Admission Requirements for the Extension Vocational Programs in Andrews and Kermit

- 1. Official high school transcript or GED.
- 2. College cumulative GPA 2.0 or higher in all course work.
- 3. A satisfactory score on the Vocational Nursing Entrance Exam.
- 4. Current CPR certification (Course C, American Heart Association, or Basic Life Support for the Professional, American Red Cross).
- Persons who have been convicted of felonies or misdemeanors must request a declaratory order as to their eligibility to receive a license as nurse in the state of Texas.
- 6. Applications should be submitted no later than May 1.

Although English language proficiency is not required for admission to the program, successful completion of the program necessitates good communication skills in English. Because of limited enrollment, students are urged to apply as early as possible before the proposed date of admission.

There is no discrimination due to age, sex, color, race, cultural background or national origin. The nursing programs focus on the nursing care of clients with common health problems. Clinical experience is concurrent within each course and includes medical, surgical, obstetrical, pediatric, psychiatric and geriatric nursing experiences as well as special selected services. All courses in the curriculum are required and must be completed no later than the prescribed semester. Students must satisfy the objectives for the respective level with a minimum grade of "C" in each required nursing course and all academic courses before progressing to the next semester. A grade of "D" or "F" in any nursing or academic course is unacceptable. Students may be required to withdraw from a course or courses if unsafe practice or practices are identified in the care of clients. Hospital experiences are scheduled during day and evening hours. Students must maintain a cumulative GPA of 2.0 or better in all course work in each level. Upon completion of the program, the student is eligible to receive the certificate of technology.

All nursing students are expected to carry health and accident insurance. Professional liability insurance is mandatory. Students are responsible for their own transportation to clinical facilities. the department of nursing assumes no responsibility for students employed in an agency. Students are personally responsible and liable for any activity participated in while employed. Professional liability insurance purchased by students is valid in the student role and not in the employment role.

The vocational program is accredited by the Board of Vocational Nurse Examiners.

Vocational Nursing Course of Study

		_
First Semester	Semester Hrs	_
NURS 1611 Vocational NURS 1612 Vocational	Nursing I6 Nursing II6	
Second Semester NURS 1613 Vocational NURS 1614 Vocational	Nursing III6 Nursing IV6	
Summer Session NURS 1615 Vocational	I Nursing V6	-
The student participate	s as a member of the health care team providing nursing care	
solve, the student learn records and performing implement plans of care	health care settings. Using the nursing process to problem as to assess and analyze by reading and interpreting patient pasic physical assessments; prioritize client needs to e; and document nursing activities to communicate information	
Physiology I, Microbiok Nutrition throughout the basic nursing procedure	f the client response. This course includes Anatomy and ogy, Vocational Adjustments, Growth and Development with a lifespan, and nursing skills to prepare the student to perform es for the comfort and safety of client with self-care limitations of nursing ethics and legal responsibilities. (SCANS	
1,2,4,5,6,7,8,9) Prereq	uisite: None. Corequisite: NURS 1612. Lab fees required.	
NURS 1612 Vocational Nu (8-7)	3 hours	
Continues with Anatom nursing skills. Pharma medication administrati Mental Illness assists in	ly and Physiology II, Growth and Development, Nutrition, and cological math as it applies to dosage calculations and ion is presented. The incorporation of Mental Health and nevaluating basic mental health. The communication process eaching skills, listening skills, interpretation skills, and	
socialization skills with	clients, families and peers. (SCANS 1,2,3,4,5,6,7,8,9,10,11) orequisite: NURS 1611.	
NURS 1613 Vocational Nu	rsing III	
including the application to gain an understandir	dical-surgical nursing of adults and children by body system n of the principles of pharmacology. Is designed for the student ng of the pathological variations from normal functioning with ng process. Application of the principles from the biological,	
physical, social and bel nursing is also presente nursing process in med	havioral sciences are incorporated. The study of obstetrical ed. Clinical experiences are based on application of the lical and surgical environments with the adult and child alculation and administration of medication and treatments	
under the direct superv	ision of a clinical instructor. (SCANS 1,2,3,4,5,6,7,8,9,11) 611 and NURS 1612. Corequisite: NURS 1614.	
NURS 1614 Vocational Nu	rsing IV	ا
system including the ap student to implement th	medical-surgical nursing of adults and children by body oplication of the principles of pharmacology. Prepares the plan of care with legal and ethical consideration involving occilent, family members, and other members of the health care	
team. The student prov structured settings usin care. Including adminis protocols. (SCANS 1,2	vides care for the adult and pediatric medical-surgical client in ig the nursing process to plan, document, and evaluate patient stration of medications and treatments following established 2,3,4,5,6,7,8,9,10,11) Prerequisites: NURS 1611 and 1612.	
Corequisite: NURS 16	าช.	98

NURS 1615 Vocational Nursing V

Office Systems Technology

Faculty: Dr. Rita Hurst, chair; Billie Duncan, Carol Lemen, Nancy Sturges.

The Office Systems Program is designed to offer the student intensive, individualized study. The intensive classes meet daily between 8 a.m. and 2 p.m. Monday through Friday and between 6 and 9 p.m. Monday through Thursday during the fall and spring semesters. The summer instructional schedule is 7 a.m. to 1 p.m. Monday through Thursday.

Students have the option of completing a Certificate of Technology in 12 to 18 months or an Associate in Applied Science Degree in 18 to 24 months. Students seeking personal development courses rather than a certificate or degree may enroll in any individual class.

All students will be advised on their individual program course sequence based on their present skill level and desired goals. Individual advisement will be in Instructional Building, Room 222. Registration will be conducted through the regular college procedure.

Once each year, the Office Systems Technology faculty administers the Certified Professional Secretary examination. Information regarding testing dates can be obtained by contacting the department chair. Individuals who can document their professional certification are eligible to apply for 18 semester hours of credit at Odessa College after completion of 12 additional selected hours at Odessa College. Courses for which credit may be earned are as follows: BUSI 1301, Introduction to Business; MGMT 1301, Introduction to Management; OFST 2420, Business Communication; OFST 1322, Intermediate Keyboarding; OFST 1424, Office Bookkeeping; and OFST 2421, Office Procedures.

Students not desiring the Associate in Applied Science Degree may receive a Level I Certificate—Office Clerk, Level II Certificate of Technology—Office Assistant, and/or Level III—Advanced Skills Certificate upon successful completion with a "C" (2.0) average all courses specified in the course of study.

Students who have completed an Associate in Applied Science Degree may receive a Level III Advanced Skills Certificate upon successful completion with a "C" (2.0) average in all courses specified in the course of study.

Students who have completed an Associate in Applied Science Degree or who have received permission of department chairperson to enroll for advanced skills training may receive a Level III Advanced Skills Certificate upon successful completion with a "C" (2.0) average all courses specified in the course of study.

Course of Study for Associate in Applied Science Degree

Students not graduating under the Tech-Prep high school graduation plan must take the 14 semester hours marked with an (*) as part of the Office Systems Technology curriculum—articulation, advanced standing exam, approval of department chairman, or regular enrollment at OC.

s	Semester Hr
General Education Requirements ENGL 1301 Composition and Rhetoric OR	17
ENGL 1301 Composition and Rhetoric OR	
ENGL 1312 Report Writing GOVT 2301 U.S. and Texas Government OR	3
GOVT 2301 U.S. and Texas Government OR	_
GOVT 2302 American National Government	3
MATH 1314 College Algebra OR	
MATH 1371 College Algebra for Business OR	
MATH 1372 Technical College Algebra OR	•
MATH 1324 Mathematical Analysis for Business	3
*PHED (Any two one-hour activity courses)	
SPCH 1342 Voice and Diction	2
Elective (must be outside the major area)	
Major Requirements	44
OFST 1321 Beginning Keyboarding OR	
OFST 1322 Intermediate Keyboarding	3
OFST 1401 Data Entry/Business Calculations	
→*OFST 1404 Beginning Word Processing	4
OFST 1406 Basic Spreadsheet	4
*OFST 1424 Office Bookkeeping	
OFST 2304 Advanced Keyboarding	
OFST 2377 Cooperative Work Experience	3
OFST 2401 Advanced Word Processing	
OFST 2402 Information Processing	4
OFST 2420 Business Communication	
OFST 2421 Office Procedures	
Related Requirements	6
— BUSI 1301 Introduction to Business	3
*COSC 1301 Introduction to Computer Systems	3
Total Semester Hours	67
*PHED 1100 should be the first course taken in physical education.	
A total of 67 semester hours and a grade point average of 2.0 are required fo	r the
Associate in Applied Science Degree.	
Course of Study for Continues Ontions	
Course of Study for Certificate Options	
5826C Level I Certificate of Technology Office Clerk	
*OFST 1321 Beginning Keyboarding OR	
OFST 1322 Intermediate Keyboarding	3
OFST 1401 Data Entry/Business Calculations	4
*OFST 1404 Beginning Word Processing	4
(If taking OFST 1321, delay until second semester and take OFST 140)2))
*OFST 1424 Office Bookkeeping	4
······································	

		137
小衛	Related Requirements COSC 1301 Introduction to Computer Systems	9 3
	Total semester hours18	3
	A total of 18 semester hours and a grade point average of 2.0 are required for a Leve Certificate.	11
	*Indicates courses which may be articulated by agreement with high school.	
	Level II Certificate of Technology - Office Assistant 58	26C
	The 18 semester hours specified in Level I certificate plus the following courses:	
	OFST 1322 Intermediate Keyboarding OR OFST 2304 Advanced Keyboarding	4
	OFST 2401 Advanced Word Processing OFST 2304 Advanced Keyboarding OR OFST 2402 Information Processing OFST 2420 Business Communications	4
	OFST 2421 Office Procedures	4
	SPCH 1342 voice and Diction	3 3
_	Total Semester Hours50-5	1
秦	A total of 50-51 semester hours and a grade point average of 2.0 are required for a Certificate of Technology.	
_	Level III Certificate (Advanced Skills Certificate) Office Technology Specia	<u>alist</u>
# OF	Students may earn a Level III Certificate—Advanced Skills Certificate—Office Stechnology Specialist following completion of an A.A. Degree or a Level II Certificate Technology by completing the following requirements.	of 0f
1	Semeste	r Hrs
	OFST 2402 Information Processing OR OFST 2404 Desktop Publishing	1 4
	Related Requirements BUSI 1301 Introduction to Business OR MGMT 1301 Introduction to Management OR MGMT 2301 Management Skills Development	3
	Total Semester Hours1	i
2	A total of 11 semester hours and a grade point average of 2.0 are required for a Leve Certificate—Advanced Skills Certificate—Office Technology Specialist.	1 111
_	NOTE: Completion of Levels I, II, and III certificates will require passage of TASP ex	am.

Course of Study for Associate in Applied Science Degree

Students not graduating under the Tech-Prep high school graduation plan must take the 14 semester hours marked with an (*) as part of the Office Systems Technology curriculum—articulation, advanced standing exam, approval of department chairperson, or regular enrollment at OC.

	Semester H
General Education Requirements	17
ENGL 1301 Composition and Rhetoric OR	_
ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government OR	
GOVT 2302 American National Government	3
MATH 1314 College Algebra OR	
MATH 1371 College Algebra for Business OR	
MATH 1372 Technical Algebra for Business OR	
MATH 1324 Mathematical Analysis for Business	
**PHED (Any two one-hour activity courses)	2
SPCH 1321 Business and Professional Speech or	
SPCH 1342 Voice and Diction	3
Elective (must be outside the major area)	3
Major Requirements	44
OFST 1101 Computerized Medical Recordkeeping (4 weeks)	
OFST 1207 Medical Terminology (8 weeks)	
OFST 1208 Medical Coding (8 weeks)	2
OFST 1217 Beginning Medical Transcription (8 weeks)	
*OFST 1321 Beginning Keyboarding OR	
OFST 1322 Intermediate Keyboarding	
OFST 1401 Data Entry/Business Calculations	
*OFST 1404 Beginning Word Processing	4
(If taking OFST 1321, delay until second semester)	
OFST 1322 Intermediate Keyboarding OR	
OFST 2304 Advanced Keyboarding	
OFST 1406 Basic Spreadsheet	
*OFST 1424 Office Bookkeeping	4
OFST 2377 Cooperative Work Experience	3
OFST 2420 Business Communication	4
OFST 2421 Office Procedures	<u>4</u>
OFST 2421 Office Procedures	7
Processing Related Requirements BIOL 2404 Human Anatomy and Physiology (16 weeks)	
*COSC 1301 Intro to Computer systems	· · · · · · · · · · · · · · · · · · ·
Total Semester Hours	68

^{**}PHED 1100 should be the first course taken in physical education.

A total of 68 semester hours and a grade point average of 2.0 are required for Associate in Applied Science Degree.

^{*}Indicates courses which may be articulated by agreement with high school.

Course of Study for Certificate Options

Level i Certificate Medical Office Clerk 5824C
Semester Hr

_	Semester Hrs
	OFST 1321 Beginning Keyboarding OR
	*OFST 1424 Office Bookkeeping4
i i	*COSC 1301 Introduction to Computer Systems
	Total Semester Hours21
i i	A total of 21 semester hours and a grade point average of 2.0 are required for a Level I Certificate—Medical Office Clerk.
	*Indicates courses which may be articulated by agreement with high school.
-	Level II Certificate of Technology Medical Office Assistant 5826C
	The 18 semester hours specified in Level I Certificate plus the following courses: OFST 1101 Computerized Medical Recordkeeping (4 weeks)
i de	OFST 1208 Medical Insurance Coding (8 weeks)
	OFST 2417 Advanced Medical Transcription
	OFST 2420 Business Communication
1000	Related Requirements
	Total Semester Hours54-55
	A total of 54-55 semester hours and a grade point average of 2.0 are required for a Certificate of Technology—Medical Office Technology Specialist.
	Level III Advanced Skills Certificate Medical Office Technology Specialist $5220c$
	Students may earn a Level III Certificate—Advanced Skills Certificate—Medical Office Technology Specialist following completion of an A.A. Degree or a Level II Certificate of Technology by completing the following requirements.
	OFST 2232 Medical Office Procedures/Records (8 weeks)
	A total of 10 semester hours and grade point average of 2.0 are required for a Level III Certificate—Advanced Skills Certificate—Medical Office Technology Specialist.

Office Systems Technology Courses

OFST 1100 Basic Keyboarding Skills Student will develop a functional skill in touch-method keyboarding on alphanumeric keyboard, including numbers and symbols. Designed for student desiring minimal keyboard skills (approximately 20 wpm) or wanting keyboard review. Will develop skills in reading instructions and accessing keyboarding programs. b(SCANS 1,4,10) Lab fee required. Prerequisite: None. **OFST 1101 Computerized Medical Recordkeeping** Student will develop ability to operate a computer system in a medical/dental office. Handson experience to demonstrate competency using basic calculations to determine patient billing and to demonstrate ability to follow instructions/procedures for patient billing and patient recordkeeping will be provided. (SCANS 1,3,9,11) Prerequisite: None. **OFST 1207 Medical Terminology** Student will demonstrate the acquisition of a basic medical vocabulary, develop listening and learning skills, and will prepare and interpret basic reports used in a typical hospital or medical office. (SCANS 1,2,6,9,11) Prerequisite: None. **OFST 1208 Medical Insurance Coding** Student will demonstrate the ability to code medical forms, including patient chart, diagnoses, and office procedures. Will combine coding skills with organizing, analyzing, evaluating health data for completeness and accuracy; answering legal, governmental and insurance company inquiries; and communicating with patients. (SCANS 1,2,4,5,6,9,10) Prerequisite: OFST 1207 or equivalent. **OFST 1217 Beginning Medical Transcription** Student will demonstrate skill in transcribing some basic reports used in a typical hospital or medical office. Provides transcription of actual dictation by doctors. Lab fee required. (SCANS 1,6,8,9,11) Prerequisite: OFST 1207, OFST 1322 or equivalent, type 50 wpm, some word processing background or consent of department chairperson. **OFST 1321 Beginning Keyboarding** Student will demonstrate touch-method skills on an electronic typewriter and a computer including numbers, symbols, and service mechanisms. Demonstrate competency to produce business letters, reports, tabulations, and other business documents. Designed for beginning typists or students with minimal typing skills. Lab fee required. (SCANS 1,6,8) Prerequisite: None. **OFST 1322 Intermediate Keyboarding** documents-business letters, reports, and tabulation materials-on the computer and the electronic typewriter. Student will demonstrate responsibility in following instructions and in practicing time management. Lab fee required. (SCANS 1,2,3,6,8,10) Prerequisite: OFST 1321 or equivalent. **OFST 1401 Data Entry/Business Calculations** (3-2)4 hours Student will develop skill and accuracy using speed drills on the electronic calculator (10-key approach) and the computer. Student will demonstrate skill in percents. equations, discounts, net value and other business calculations using a variety of techniques. Will demonstrate ability to work with speed and accuracy while problem solving and doing data entry. (SCANS 1.3.4.8.9) Prerequisite: None.

OFST 1402 Business Language Skills

OFST 1404 Beginning Word Processing

OFST 1406 Basic Spreadsheet

OFST 1424 Office Bookkeeping

OFST 2232 Medical Office Procedures/Records

OFST 2304 Advanced Keyboarding

OFST 2377 Cooperative Work Experience

OFST 2404 Desktop Publishing

OFST 2417 Advanced Medical Terminology and Transcription

2401, (OFST 2304 may be taken concurrently).

OFST 2420 Business Communication

OFST 2421 Office Procedures

OFST 2430 Computerized Bookkeeping

Orientation

Faculty: Dr. David Tarver, director of counseling and career development; Fred Gaither, Rodney Hernandez, Judy Merrittt, Terri Pease, LaRae Phillips, Joanne Sanford, Mike Tincher, Rena Ventura-Jackson.

The orientation course (ORIE 1100) is designed to assist the student who is enrolled in college for the first time in gaining the knowledge necessary to function effectively in a college environment. It covers the policies, rules and regulations of Odessa College, as well as study skills and the state-mandated TASP requirements. All students who have never attended college before are required to enroll in ORIE 1100 during the first semester of attendance at Odessa College.

ORIE 1100 Orientation (HD 1101)

Petroleum Technology

Faculty: J. D. Roberts, chair.

The Odessa College Petroleum Technology program is designed for people entering the industry for the first time and for employees in the industry who want to upgrade their skills. The two-year program is suggested for men and women who plan to work for producers, manufacturers, service firms or supply firms.

Course of Study for Associate in Applied Science Degree Petroleum Technology

Consul Education Deguirements	Semester Hrs
General Education Requirements	I <i>f</i>
ENGL 1301 Composition and Rhetoric or	
ENGL 1312 Report Writing	3
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
COSC 1301 Introduction to Computer Systems	3
GOVT 2301 U.S. and Texas Government	
MATH 1372 Technical College Algebra or	
MATH 1314 College Algebra or	
MATH 1371 College Algebra for Business	3
PHED (any two one-hour activity courses)	2
Elective (must be outside the major area)	3

Major Requirements	27
PETR 1310 Rotary Drilling Fluids	3
PETR 1311 Well Completion Methods	
PETR 1320 Production Methods	3
PETR 1380 Computers for Petroleum	3
PETR 2310 Drilling Methods	3
PETR 2325 Well Workover Methods	
PETR 2360 Corrosion	3
PETR 2390 Petroleum Regulations	3
PETR 2377 Cooperative Work Experience	3
Related Requirements	18
PETR 12M Petroleum Overview	3
15HA 2394	a 2
05HA 2398	<u> </u>
PETR 1300 Petroleum Overview 05HA 239L 05HA 239L Petroleum El	ectives 16
OSHA 2395 Industrial Safety	2
·	
Total Semester Hours	65
Certificates of Technology are available in the following job-specific fields program chair for course requirements and Permian Basin job opportuniti	
Certificate Options	
Safety and Environmental Technician	
ENGL 1312 Report Writing	Semester Hrs
ENGL 1312 Report Writing	3
OSHA 2395 Industrial Safety (OSHA 29-CFR-1910 and 1926)	3
OCUA 2206 Hazardaua Manta Oparationa	
OSHA 2396 Hazardous Waste Operations	
and Emergency Response	3
and Emergency Response	3 3
and Emergency Response	3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 13.15 or SPCH 1321	3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321	3 3 3 3 18
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1321 Well Head Pumper	3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 13.15 or SPCH 13.21 Well Head Pumper TMTH 1370 Technical College Mathematics or	3 3 18
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math	3 3 18
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing	3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview	3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods	3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum	3 18 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPSH 1315 or SPSH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods	3 18 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPSH 1315 or SPSH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1300 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion	3 18 3 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 13.15 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift	3 3 78 3 3 3 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 13.15 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift	3 3 78 3 3 3 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours	3 3 78 3 3 3 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 pr SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1300 Production Methods PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours Gas Compressor Operator	3 3 78 3 3 3 3 3 3 3 3 3 3
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours Gas Compressor Operator TMTH 1370 Technical College Mathematics or higher level math	3 3 18 3 3 3 3 3 3 3 4
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours Gas Compressor Operator TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing	3 3 18 3 3 3 3 3 3 3 4
and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 1315 or SPCH 1321 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours Gas Compressor Operator TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview	3 3 18 3 3 3 3 3 3 3 24
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and Emergency Response OSHA 2398 Environmental Issues PETR 1380 Total Semester Hours SPCH 13.15 or SPCH 13.21 Well Head Pumper TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1320 Production Methods PETR 1380 Computers for Petroleum PETR 2325 Well Workover Methods PETR 2360 Corrosion PETR 2388 Artificial Lift Total Semester Hours Gas Compressor Operator TMTH 1370 Technical College Mathematics or higher level math ENGL 1312 Report Writing PETR 1300 Petroleum Overview PETR 1300 Petroleum Overview PETR 1380 Computers for Petroleum PETR 2331 Natural Gas Processing	3 3 3 3 3 3 3 3 3 3 3 24
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R	Goo Plant Operator
20	Gas Plant Operator TMTH 1370 Technical College Mathematics or
	higher level math3
	ENGL 1312 Report Writing3
	PETR 1300 Petroleum Overview3
Z.	PETR 1380 Computers for Petroleum3
•	PETR 2331 Natural Gas Processing
	PETR 2360 Corrosion3
	PETR 2389 Gas and Liquid Measurement3
ě	OSHA 2398 Environmental Issues3
•	Total Semester Hours24
	Total Schiester Hours24
	Refinery Panel Operator
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_	higher level math3
_	ENGL 1312 Report Writing3
	PETR 1300 Petroleum Overview3
	PETR 1370 Petroleum Instrumentation
•	PETR 1380 Computers for Petroleum
	PETR 2340 Refining Methods
	OSHA 2398 Environmental Issues
•	Total Semester Hours24
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100	Petroleum Technology Courses
	PETR 1300 Petroleum Overview
	(3-0)3 hours
	Provides the student with ability to understand overall intent and proper procedures in a
	variety of different petroleum technologies: exploration, drilling, production, transportation
j	marketing and refining. The student will be able to prioritize activities and reason the
	marketing and retining. The student will be able to phontize activities and reason the
	relationship between finding oil and gas and transporting it to the refinery. Students will be
	relationship between finding oil and gas and transporting it to the refinery. Students will be responsible for reading and analyzing charts and diagrams and calculating downhole
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	relationship between finding oil and gas and transporting it to the refinery. Students will be responsible for reading and analyzing charts and diagrams and calculating downhole displacements and pressures. (SCANS 1,3,4,6,8,9) Prerequisite: None.
	relationship between finding oil and gas and transporting it to the refinery. Students will be responsible for reading and analyzing charts and diagrams and calculating downhole displacements and pressures. (SCANS 1,3,4,6,8,9) Prerequisite: None. PETR 1310 Rotary Drilling Fluids
	relationship between finding oil and gas and transporting it to the refinery. Students will be responsible for reading and analyzing charts and diagrams and calculating downhole displacements and pressures. (SCANS 1,3,4,6,8,9) Prerequisite: None. PETR 1310 Rotary Drilling Fluids (3-0)
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PETR 1370 Petroleum Instrumentation (3-0) 3 hours Surveys instrumentation, measurement and control devices used within major aspects of the petroleum industry. Competencies include application, installation and operation of each. (SCANS 6.8,9)Prerequisite: PETR 1300 or consent of the department chair. PETR 1380 Computers for Petroleum Designed for the student in the petroleum technology program. Competencies emphasize use rather than programming. Presents history, fundamentals, terminology and software programs used in the petroleum industry as well as other industries. Examples such as word processors, data base, spread sheet, windows, graphics, etc... are used. Classroom exercises allow students to solve problems, make decisions, and project income from a producing oil an gas well Lab fee required. (SCANS 2,6,8,9) Prerequisite: None. **PETR 2310 Drilling Methods** Emphasizes the actual drillsite competencies necessary to drill an oil or gas well. Students learn to analyze problems such as downhole formation pressures. Volume calculations, downhole computer processing, and understanding the proper procedures and equipment to successfully drill a well are covered. (SCANS 3,6,8,9) Prerequisite: PETR 1300 or consent of the department chair. **PETR 2325 Well Workover Methods** (3-0) 3 hours Presents basic competencies of oil and gas well servicing, workover, plugging, reentry, equipment needs and maintenance programs. Student will perform basic calculations, interpret wellbore schematics, prepare a schedule and select procedures, organize and evaluate information, and decide an economical plan for working over an oil and or gas well. (SCANS 1,3,4,6,8,9) Prerequisite: PETR 1300 or consent of the department chair. **PETR 2331 Natural Gas Processing** Competencies include all aspects of natural gas processing and field handling techniques. Includes handling corrosives, corrosive and inert gases and equipment for separation, dehydration and control of natural gas. (SCANS 8,9) Prerequisite: PETR 1300 or consent of the department chair. **PETR 2340 Refining Methods** Basic competencies of petroleum refining techniques, process, equipment and support personnel. (SCANS 8) Prerequisite: PETR 1300 or consent of the department chair. **PETR 2360 Corrosion** A problems-based course to provide competencies in the corrosive effects on surface and downhole equipment, pipelines, and other oilfield situations. Emphasizes terminology and techniques. Students will analyze basic causes and recommend the

most reliable solutions. (SCANS 1,6,8,9) Prerequisite: PETR 1300 or consent of the

department chair.

PETR 2377 Cooperative Work Experience

PETR 2388 Artificial Lift

PETR 2389 Gas and Liquid Measurement

PETR 2390 Petroleum Regulations

OSHA 2395 Industrial Safety

OSHA 2396 Hazardous Waste Emergency Response

OSHA 2398 Environmental Issues

Photography

Faculty: Steve Goff, chair.

Odessa College's photography program provides quality photo education for all members of the community. Photo students explore professional and artistic aspects of this visual medium by training in the basics of photography as a subject, a profession and a technology. A variety of courses are offered, including development of black and white, commercial technique, professional portraiture, color, the history of photography and areas of independent study. Opportunities are provided for students to exercise their creative talents. Upon completion of the photo curriculum, students will be prepared for continued studies at a university or entry level positions in the photographic industry. While limited equipment and some scholarships are available for those considering photography as a major, the department welcomes all students.

Course of Study for Associate in Applied Science Degree Photography

· · · · · · · · · · · · · · · · · · ·	Semester Hrs
General Education Requirements	
ARTS 1311 Design I	
ACCT 1370 Elementary Accounting	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	3
MATH 1332 Structures of College Mathematics or	•
higher level math	3
PHIL 2306 Introduction to Philosophy II (Ethics)	3
SPCH 1321 Business and Professional Speech	
General Education elective	
*PHED (Any two one-hour activity courses)	
Elective (must be outside the major area)	3
Major Requirements	33
PHOT 1331 Basic Photography I	
PHOT 1332 Basic Photography II	
(PHOT 1331 & 1332 may be taken the same semester)	
PHOT 1361 Photo Lab Technique I	3
PHOT 1362 Photo Lab Technique II	
(PHOT 1361 & 1362 may be taken the same semester)	
PHOT 2370 History of Photography	3
PHOT 2371 Color Photography I	
PHOT 2372 Color Photography II	

	**Approved Electives12
	Total Semester Hours65
	* PHED 1100 should be the first course taken in physical education.
	** Approved electives: COSC 1301, COMM 1307, MGT 1301 or MGT 2303, PHOT 2340, PHOT 2200, PHOT 2311, PHOT 2312, PHOT 2331, PHOT 2332, PHOT 2340, PHOT 2360, PHOT 2380, PHOT 2390 and PHOT 2399.
i e	PHOT 1331 Basic Photography I
	(2-4)
	PHOT 1332 Basic Photography II
	(2-4)
	PHOT 1350 Photojournalism
: 6° 2°	(2-4)
	PHOT 1361 Photo Lab Technique I
	(2-4)
	PHOT 1362 Photo Lab Technique II
S	(2-4)
_	2200 Print Finishing and Negative Retouching
	(1-2)
	PHOT 2311 Commercial Photography I
	(2-6)
135	

PHOT 2312 Commercial Photography II (2-6)
(SCANS 6,8) Lab fee required. Prerequisites: PHOT 2311; TASP competency in reading, writing and math or consent of instructor.
PHOT 2331 Portrait Photography I
(2-4)
PHOT 2332 Portrait Photography II
(2-4)
PHOT 2340 Salon Photography
(2-4)
PHOT 2360 Expressive Photography
(2-4)
PHOT 2370 History of Photography
(3-0)
PHOT 2371 Color Photography I
(2-4)
PHOT 2372 Color Photography II
(2-4)3 hours A continuation of PHOT 2371. Includes additional work in sensitometry and advanced lab technique. (SCANS 8) Lab fee required. Prerequisites: PHOT 2371; TASP competency in reading, writing and math or consent of instructor.
PHOT 2380 Photographic Problems
(1-5)

PHOT 2390 Graphics

PHOT 2399 Special Topics in Photography

Physical and Health Education

Faculty: Jay Box, chair; James Carlson, Karin Carlson, Ken Hefner, Kenneth Hines, Pat Hodges, Kyle Howard, Betty Hudson, Bill Lawrence, (ret.), Que McMaster, Rick Zimmerman.

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

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

Since movement is the medium through which this department achieves its objectives, students have several opportunities to select those movement experiences (from 34 different areas in the Physical Education curriculum) that will best contribute to their well-being, their leisure-time skills and to their total educational development. The physical education department offers two options for the associate's degree.

Course of Study for Associate in Science Degree Exercise and Sport Science Option

	Semester Hr
General Education Requirements	45
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	
SPCH 1311 Introduction to Speech Communication	3
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra or More Advanced	3
MATH 1342 Mathematical Statistics or More Advanced	3
**BIOL 1408 General Biology I	
BIOL 1409 General Biology II	
BIOL 2404 Human Anatomy and Physiology	

Elective (must be outside the major area)	3
Major Requirements	10
*PHED (Any four one-hour activity courses)	4
PHED 1301 Orientation in Health, Physical Education	
and Recreation	3
PHED 2376 Prevention and Care of Athletic Injuries	3
***Approved Electives	9
Total Semester Hours	67

*Students majoring in Exercise and Sport Science in preparation for a teaching career are required to take four activity classes selected from the following areas:

One class from Fitness Activities

One class from Lifetime Activities

One class from Team Sports

One class from Aquatics

It is suggested that PHED 1100 be the first course taken in physical Education. Competitive athletics courses will not be counted toward the four-activity requirement for exercise and sport science majors.

**CHEM 1311 and CHEM 1312 may be substituted for BIOL 1408 and BIOL 1409.

***Electives will be selected from the following three-hour classes based on senior institution requirements: PHED 1238, PHED 2278, PHED 1304, PHED 1306, PHED 1301, PHED 1322, PHED 1331, PSYC 2301 and SOCI 1301.

In addition, it is also recommended that Exercise and Sport Science majors take more than the minimum of four one-hour activity classes in their preparation for a teaching career. Students should consider the requirements of the senior college to which they intend to transfer and plan their junior college scholastic schedule accordingly.

Physical Education activity classes meet three hours weekly for one semester-hour credit. An activity class may be repeated once for credit. All Physical Education activity classes require a lab fee.

Course of Study for Associate in Science Degree Athletic Training Option

	Semester Hrs
General Education Requirements	
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (Sophomore Level)	
SPCH 1311 Introduction to Speech Communication	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
MATH 1314 College Algebra or More Advanced	
*PHED (Any two one-hour activity courses)	2
BIOL 1408 General Biology I	4
BIOL 1409 General Biology II	4
Elective (must be outside the major area)	3

_	173
	Major Requirements
	PHED 2376 Prevention and Cate of Athletic Injuries
	**Approved Electives6
	Total Semester Hours
	*PHED 1100 should be the first course taken in Physical Education. ** Approved Electives: CHEM 1311, CHEM 1312, CIS 1401, PHED 1238, PHED 1301, PHED 1331, PSYC 2301 and SOCI 1301.
	The Athletic Training Program is designed to meet the lower level requirements of the National Trainers Association and the state of Texas Licensure Act for Athletic Trainers. The program is a practical education-work experience approach to gaining the knowledge and skills needed to fulfill requirements for national certification as determined by the NATA and Texas state licensure as determined by the Texas Department of Health.
	The Odessa College Physical Education Degree option in Athletic Training is designed to meet the first two-year needs of students interested in pursuing a career in athletic training and meeting the specific educational and practicum requirements outlined by these two organizations.
_	<u>Fitness Activities</u>
.0	PHED 1100 Lifestyle Assessment and Modification (PE 1100) (0-3)1 hour
	Provides learning opportunities to introduce and maintain higher education health standards. Includes assessment of cardiovascular endurance, muscular strength and endurance, flexibility, body composition, nutrition, stress and blood pressure. Students will select and participate in physical activities which will produce desired physical results. This course culminates with an individualized lifelong wellness plan. Lab fee required. (SCANS 3,4,9,10) Prerequisite: None.
	PHED 1101 Aerobic Dance (PE 1101) (0-3)
	Includes a preliminary one time, two-hour orientation. Lab fee required. (SCANS

time, two-hour orientation. Requires special fee. (SCANS 3,4,9,10) Prerequisite: PHED 1108 or consent of the instructor. (Must be at least 16 years old.)

PHED 1110 Trampoline (PE 1174) A gymnastics class specializing in acquisition of various trampoline skills, including flexibility and spotting. Uses efficient learning techniques to acquire and apply new knowledge and skills. Sociability and self-control will be secondary benefits of class participation. Lab fee required. (SCANS 9,10) Prerequisite: None. PHED 1111 Weight Training (PE 1179) (0-3)1 hour Emphasizes increasing strength through proper techniques of lifting and weight training. Orientation and physical assessments enable students to personalize their workouts and help them attain their fitness goals. Students will perform basic calculations to determine appropriate workload, volume, sets, repetitions, intensity, progression and recovery to meet their fitness goals. Includes a preliminary one-time, two-hour orientation. Lab fee required. (SCANS 3,4,9,10) Prerequisite: (Must be at least 16 years old). PHED 1112 Adaptive Personalized Fitness This course consists of three major components, (1) cardiovascular conditioning, (2) strengthening exercises, (3) range of motion stretching and relaxation techniques. This class is designed to introduce physically challenged P.C.S. students to a variety of physical activities including; rhythmical movement, aquatics, hydro-fitness (resistance training), walking/joggg. P.C.S. students are defined as students with temporary injuries, severely obese individuals (over 40%) body fat percentage) and permanently disabled students. These individuals will be assessed and given an individualized exercise program. May be repeated for credit. (SCANS 5,9,10,) Prerequisite: Approval by the department chair. **Lifetime Activities** PHED 1116 Badminton (PE 1107) Instruction and skill development of the basic skills of badminton: Serve, clear, smash, drop and net shots. Knowledge of the history, rules and basic strategy for singles and doubles will be acquired. Lab fee required. (SCANS 10) Prerequisite: None. **PHED 1117 Bowling (PE 1115)** (0-3) 1 hour The student will learn the mechanics of the approach, release and execution of 3 different styles of bowling. The course will also cover scorekeeping (automated and manual) pin and spot bowling, point of aim, rules, etiquette, and fun competitive games. Requires special fee. (SCANS 3,10) Prerequisite: None. PHED 1118 Social Dance (PE 1160) (0-3)1 hour Includes instruction in basic dance skills, positions, rhythms, steps and formation, i.e. Country Western (Cotton-Eyed Joe, Two-Step, Waltz, Polka, and Schottishe), line dancing, and conventional ballroom as well as most current and most popular dances. Lab fee required. (SCANS 5,9,10) Prerequisite: None. **PHED 1119 Golf (PE 1130)** (0-3)1 hour The student will learn the basic fundamentals of golf including grip, putting, chipping, and full swing. The course will cover a basic understanding of rules, etiquette, and types of competitive play available to the golfer. Requires special fee. (SCANS

3.9.10) Prerequisite: None.

170	
PHED 1121 Racquetball (PE 1153) (0-3)	
(0-3)	
PHED 1122 Recreational Sports (PE 1156)	
(0-3)	
PHED 1123 Skiing (PE 1178)	
(0-3)	
PHED 1124 Tennis, Beginning (PE 1171)	4
(0-3)	
PHED 1125 Tennis, Advanced (PE 1172)	**
(0-3)	
<u>Team Sports</u>	•
PHED 1128 Basketball, Men's (PE 1110)	2
(0-3)	
addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: None.	
PHED 1129 Basketball, Women's (PE 1113)	a d
(0-3)1 hour Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize	
specific basketball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: None.	
PHED 1130 Cheerleading (PE 1116)	1
(0-3)	
individuals learn how to cooperate with other tearn members in solving problems and in motivating a crowd. Performing at athletic events permits the individuals an opportunity to exhibit responsibility as well as to build self esteem. Lab fee required. (SCANS 5,9.10) Prerequisite: Consent of the instructor.	A STATE OF
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PHED 1131 Football, Touch (PE 1124) Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific football problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: None. PHED 1132 Rodeo (PE 1158) Presents rules of the sport while instructing individuals on the fundamentals of all rodeo events, both men's and women's individual and team. The class teaches individuals how to contribute to a group effort while encouraging individuals to excel in one specialized rodeo area. Participants are taught how to recognize and solve specific rodeo event problems. Students are also encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: Consent of the instructor. PHED 1133 Softball (PE 1163) (0-3) 1 hour Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific softball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: None. PHED 1134 Volleyball (PE 1176) Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific volleyball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5,9,10) Prerequisite: None. **Aquatics** PHED 1146 Red Cross Life Saving (Life Guarding) (PE 1159) An advanced aquatic course that prepares the individual to deal with life threatening situations in various aquatic environments. Skills areas include assists, carries, defenses, releases, equipment rescues, facility safety and others. NRC Lifeguard certification is offered upon successful completion. Lab fee required. Prerequisite: Advanced swimming skills. Lab fee required. (SCANS 5,9,10) Prerequisite: None. PHED 1147 Swimming, Beginning (PE 1165) This course in basic water safety is designed to make adults reasonably safe while in or near water. Topics include: physical and mental adjustment to water, buoyancy and body positioning, propulsion and coordinated stroking, and personal safety. Fundamentals of swimming and fitness will be stressed. Lab fee required. (SCANS

9,10) Prerequisite: None.

PHED 1148 Swimming and Diving, Advanced (PE 1166) This course is designed for the swimmer possessing sufficient skills in aquatics to allow for an understanding of the hydrodynamic principles associated with six strokes. The course will enable the individual to increase physical conditioning by designing individualized programs incorporating distance and interval training techniques into daily swim routines. Lab fee required. (SCANS 9,10) Prerequisite: PHED 1147 or consent of the instructor. PHED 1149 Water Sports/Games (PE 1167) (0-3) ______1 hour A water conditioning program emphasizing muscle tone, strength, flexibility, coordination and cardiovascular endurance. This will be accomplished through participation in several water sports activities (water polo, volleyball and basketball). Emphasis will be on basic skills, rules, and strategies of each activity. Both individual and team effort will be stressed. Lab fee required. (SCANS 5.9.10) Prerequisite: PHED 1147 or consent of the instructor. PHED 1150 Water Aerobics (PE 1168) Personal instruction, in an aquatic environment, which emphasizes muscle tone, strength, flexibility and cardiovascular endurance. Emphasis is placed on learning exercises, calculation individual target heart rates and in developing a routine. Each student will design and lead the class in the routine he or she has developed. Includes a preliminary one-time orientation. Lab fee required. Prerequisite: None. PHED 1152 Scuba Diving (PE 1164) The course includes instruction in the proper use of equipment, safety, physiology and open water diving. Drills are performed under water as to how divers can work together in assisting one another in dangerous situations. Students completing course requirements will receive certification. Requires special fee. Prerequisite: PHED 1147 or consent of the instructor. **Competitive Athletics** PHED 1136 Varsity Baseball (PE 1195) (0-3)1 hour Designed for advanced baseball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor. PHED 1137 Basketball, Varsity (PE 1181) (0-3)1 hour Designed for advanced basketball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5.9,10) Prerequisite: Consent of the instructor. PHED 1138 Golf, Varsity (PE 1183) (0-3)1 hour Designed for advanced golfers competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor.

PHED 1139 Rodeo, Varsity (PE 1193) (0-3)1 hour Designed for advanced participants in rodeo competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5.9.10) Prerequisite: Consent of the instructor. PHED 1140 Tennis, Varsity (PE 1189) (0-3)1 hour Designed for advanced tennis players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor. PHED 1141 Track and Field, Varsity (PE 1191) (0-3)1 hour Designed for advanced participants in track and field competing on the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5.9.10) Prerequisite: Consent of the instructor. PHED 1171 Athletic Training Clinical Practicum I (HEd 1101) Designed to satisfy the first-year practical experience of the Athletic Training student. Students will be instructed in documentation preparation, record keeping, and evaluation in the athletic training room. Students will experience individual and team "hands on" preparation in the areas of competition/practice preparation, competition/ practice, and therapeutic settings. Students will be taught to recognize problems and design a plan of action for services such as, but not limited to, taping, bandaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. An ethical course of action will be stressed throughout the course. This course is under the supervision of a N.A.T.A. certified and State of Texas licensed athletic trainer. (SCANS 2,4,5,6,9,10) Prerequisite: Admission to the student Athletic Training Program and consent of the instructor. PHED 2136 Varsity Baseball (PE 2195) (0-3)1 hour Designed for advanced baseball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor. PHED 2137 Basketball, Varsity (PE 2181) (0-3) 1 hour Designed for advanced basketball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor. **PHED 2138 Golf, Varsity (PE 2183)** Designed for advanced golfers competing on collegiate level. Students will be taught

to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10)

Prerequisite: Consent of the instructor.

PHED 2139 Rodeo, Varsity (PE 2193) Designed for advanced participants in rodeo competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5,9,10) Prerequisite: Consent of the instructor. PHED 2140 Tennis, Varsity (PE 2189) Designed for advanced tennis players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5.9.10) Prerequisite: Consent of the instructor. PHED 2141 Track and Field Varsity (PE 2191) Designed for advanced participants in track and field competing on the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (SCANS 5.9.10) Prerequisite: Consent of the instructor. PHED 2171 Athletic Training Clinical Practicum II (Hed 2101) Continuation of PHED 1171 for the second year Athletic Training student. Includes practice experience in Athletic Training Room management, medical referral and disposition of athletic injuries. Students will be instructed in how to set up a plan of action for injury administration and related services using both an individual and team approach. This course will also include instruction in documentation procedures and record keeping. An ethical course of action will be stressed. (SCANS 2,4,5,6,9,10) Prerequisite: PHED 1171 and/or consent of the instructor. **Physical and Health Education Lecture Courses** PHED 1238 Personal Health Assessment and Strategies (Hed 1202) Provides instruction in lifestyle assessment and behavior change strategies in areas of physical fitness, nutrition and stress management. Emphasis is placed on the analysis of these components to enable the student to calculate body fat percentage, recognize deficiencies in diet and nutrition, reinforce positive health behaviors conducive to longevity and fitness, and select relevant activities leading to the improvement of personal health. (SCANS 3,4,7,9,10) Prerequisite: None. PHED 1301 Orientation in Health, Physical Education and Recreation (PE 1301) Provides instruction in the historical and philosophical basis of physical and health education and recreation. Emphasis is placed on understanding the foundations and objectives of curricula development, identifying activities and skills relevant to

program development in PHER, demonstrating leadership skills in group discussions

and activities pertinent to organization of educational principles of program development consistent with the goal of new curricula design, sociological, and biological aspects of PHER, and reinforcing positive personal characteristics consistent with ethical and social aspects of physical and health education and

recreation. (SCANS 4,5,6,7,9,10) Prerequisite: None.

PHED 1304 Personal and Community Health (Hed 2301)

PHED 1306 First Aid (Hed 1301)

PHED 1308 Techniques of Officiating Sports I (PE 2301)

PHED 1309 Techniques of Officiating Sports II (PE 2302)

PHED 1321 Techniques of Coaching Sports I (PE 2303)

PHED 1322 Techniques of Coaching Sports II (PE 2304)

PHED 1331 Movement and Recreation (PE 1303)

PHED 2278 Nutrition in Exercise and Sport (Hed 2204)

PHED 2376 Prevention and Care of Athletic Injuries (Hed 2302)

Physical Therapist Assistant

Faculty: S. Lynn Dammann, chair; Peggy Manning, Molly Neiers.

The Physical Therapist Assistant Program leads to an Associate in Applied Science Degree and encompasses a two-year course of study. The program is designed to prepare skilled technical health workers to perform certain physical therapy procedures and related tasks under the direction and supervision of a licensed physical therapist. The physical therapist assistant performs treatment procedures that involve the therapeutic use of heat, cold, electromagnetic radiations, water, massage, ultrasound and therapeutic exercise and assists the physical therapist with assessment procedures.

The curriculum balances general educational and technical courses and includes supervised practicum work at local hospitals and private clinics. These combined experiences provide students with an opportunity for educational development as well as occupational competence.

Because practicum space is limited, students are admitted selectively. To be considered for admission to the program, prospective students must be a high school graduate or equivalent, achieve a satisfactory score on selected entrance examinations, have good character references, complete a specified number of volunteer or observation hours in a P.T. clinic, and be approved by the program admissions committee. After being accepted, students must maintain a grade of "C" in all Physical Therapist Assistant courses, BIOL 1170, BIOL 2401, and BIOL 2402. An average of "C" or better must be maintained in all other courses. Students failing to meet these scholastic requirements will be dropped from the program. All Physical Therapist Assistant students are required to have health and accident insurance. Liability insurance is also required and is a part of the regular college fee schedule. The Physical Therapist Assistant Program is accredited by the American Physical Therapy Association Commission on Accreditation in Physical Therapy Education.

Applicants or other interested persons seeking additional information should contact the Counseling Center at Odessa College. Testing deadline is February 28 and application deadline is March 31.

Course of Study for Associate in Applied Science Degree Physical Therapist Assistant

ij	Summer Session II
	ENGL 1301 Composition and Rhetoric
e de	higher level math3
	First Year
	First Semester BIOL 1170 Medical Terminology
	BIOL 2401 Anatomy and Physiology I
	Second Semester BIOL 2402 Anatomy and Physiology II
	GOVT 2302 American National Government3 PTAP 1302 Topics in Communication and Human Development
	Summer Session I PTAP 1441 Clinical Practicum I4
	Summer Session II SPCH 1321 Business and Professional Speech
	Second Year
	First Semester PTAP 2401 Kinesiology4
. 可通常	PTAP 2601 Principles of Therapeutic Exercise
	Second Semester PTAP 2702 Topics in Rehabilitation
	*PHED 1100 should be the first course taken in Physical Education.

PTAP 1301 Clinical Pathophysiology symptomatology, management, and prognoses of various pathological and injuryrelated problems treated in physical therapy. The ability to acquire information specific to diagnoses that affect the physical therapy treatment setting, diseases and injuries involving the musculosketal and neuromuscular systems, and the need for physical therapy intervention are stressed. (SCANS 6) Corequisite: PTAP 1401. PTAP 1302 Topics in Communication and Human Development (3-0)3 hours Designed to enable students to understand systems of interaction in the health care setting. Encompasses psychosocial aspects of health care; verbal, non-verbal and written communication skills; patient-practitioner interaction, including working with diverse patient care situations; concepts of the practitioner's self-esteem and selfmanagement and their impact on the health care setting; fundamental concepts of computer use as they relate to physical therapy; and human development from birth to death with special emphasis on normal sensorimotor development and aging. (SCANS 2,5,6,7,10,11) Corequisites: PTAP 1502. Prerequisites: PTAP 1301 and 1401. **PTAP 1401 Introduction to Physical Therapy** role of the physical therapist assistant. Historical background, legal aspects and ethical concepts that help prepare the student to participate as a member of the health care team, terminology used in the profession, body mechanics, transfers, activities of daily living, gait, vital signs, medical asepsis and bandaging are introduced. (SCANS 5) Corequisite: PTAP 1301. PTAP 1441 Clinical Practicum I (0-40) [6 weeks]4 hours Provides the initial exposure to the clinical environment. Students observe and utilize skills obtained in the classroom and laboratory. Provides opportunities for selecting and applying procedures and equipment, improving decision making, problem-solving and reasoning abilities. Consists of approximately six weeks full-time experience under close supervision of a licensed physical therapist or licensed physical therapist assistant. (SCANS 8,9) Prerequisites: PTAP 1301, 1401, 1302 AND 1502. PTAP 1502 Fundamentals of Physical Therapy

(4-3)5 hours Designed to instruct students in application of therapeutic modalities and massage. Emphasizes application of equipment, indications and contraindications, medical efficacy and physiological effects pertinent to the various physical agents. (SCANS 8) Corequisites: PTAP 1302. Prerequisites: PTAP 1301 and 1401.

PTAP 2342 Clinical Practicum II

skills obtained in the classroom and laboratory. Provides opportunities for selecting and applying procedures and equipment, and improving decision-making, problemsolving and reasoning abilities. Close supervision by a licensed physical therapist or licensed physical therapist assistant is required. (SCANS 8,9) Corequisites: PTAP 2401 AND 2601. Prerequisites: PTAP 1301,1401, 1302, 1502, and 1441.

PTAP 2401 Kinesiology

musculosketal and neuromuscular systems, and an understanding of how these systems interact to produce efficient human movement. The acquisition of muscle function and gait information by use of manual muscle testing and rudimentary gait analysis is included. (SCANS 6,7) Corequisites: PTAP 2342 and 2601. Prerequisites: PTAP 1301, 1401, 1302, 1502 and 1441.

PTAP 2443 Clinical Practicum IV

PTAP 2601 Principles of Therapeutic Exercise

PTAP 2702 Topics in Rehabilitation

Physics

Faculty: Dr. E. Don Taylor, chair; Dr. Ashok Khosla.

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

Course of Study for Associate in Science Degree Physics

·	Semester Hrs
General Education Requirements	52
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	
SPCH 1311 Introduction to Speech Communication	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U. S. History to 1877	3
HIST 1302 U. S. History from 1877	
*MATH 2313 Calculus Í	

PHYS 2427 Engineering Physics III (PHYS 2402)

Psychology and Sociology

Faculty: Don Jacobs, chair, Mary Barker (ret.), Gordon Gillette, (ret.), Carla Wells, Georgann Wemple (ret.), Gregory D. Williams.

Psychology/Sociology department furnishes foundation courses for those students preparing to teach in elementary or secondary school 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 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.

State law determines 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 course work at Odessa College to include those courses which the senior college requires at the freshman and sophomore levels. Prospective teachers also should plan to take the required pre-entry test before applying for admission to any education program at the Texas senior college of their choice.

While Odessa College cannot offer courses in education, freshman and sophomore core curriculum courses that apply to elementary and secondary education teaching certificates are offered. These courses satisfy requirements for the Associate in Arts Degree at Odessa College.

Course of Study for Associate in Arts Degree Psychology or Sociology

	Semester Hrs
General Education Requirements	49
*General Education Elective	
Lab Sequence in BIOL, CHEM, or PHYS	8
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
MATH 1332 Structures of College Mathematics I	3
MATH 1333 Structures of College Mathematics II	3
PHIL 2306 Introduction to Philosophy II	
**PHED (Any two one-hour activity courses)	2
SPCH 1311 Introduction to Speech Communication	

188 Elective (must be outside the major area)3	-
*Approved General Education Electives: ANTH 2301, ANTH 2351, ECON 2302, GEOG	
1301, MATH 1316, PSYC 2315, SOCI 1306, SOCI 2319, SOCI 2371.	
**PHED 1100 should be the first course taken in Physical Education.	_
In addition to the 52 hours listed above, the student must choose one of the following options.	
Psychology Option	-
Semester Hrs	3
Major Requirements12	_
PSYC 2301 Introduction to Psychology3	200
PSYC 2308 Child Psychology3 PSYC 2319 Social Psychology3	
SOCI 1301 Principles of Sociology3	
Total Semester Hours64	7
Sociology Option	L
Semester Hrs	3
Major Requirements12	rds.
PSYC 2301 Introduction to Psychology3	
SOCI 1301 Principles of Sociology3 SOCI 1888 Social Psychology3	
*SOCI 34 Elective Social Problems 3	
Total Semester Hours64	
*Sociology Electives: SOCI 1306, SOCI 2301, SOCI 2306, SOCI 2319, and SOCI 2371.	
Oncome of Otophofou Approlists to Auto Domina	_
Course of Study for Associate in Arts Degree	
Education	
Education Semester Hrs	
Education Semester Hrs General Education Requirements50	5
Education Semester Hrs General Education Requirements50 BIOL 1408 General Biology I4	S
Education Semester Hrs General Education Requirements	
Education Semester Hrs General Education Requirements	5
Education Semester Hrs General Education Requirements	
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Semester Hrs Seme	
Education Semester Hrs General Education Requirements	

In addition to the 53 hours listed on the previous page, the student must choose one of the following options.

Secondary Education Option

	Semester Hrs
Major Requirements	12
PSYC 2301 Introduction to Psychology	3
PSYC 2308 Child Psychology	3
*Psychology or Sociology Elective	6
Total Semester Hours	65

**Psychology and Sociology Electives: PSYC 2315, Personal Applications of Psychology; PSYC 2319, Social Psychology; and SOCI 1301, Principles of Sociology.

Elementary Education Option

	Semester Hrs
Major Requirements	9
PSYC 2301 Introduction to Psychology	3
PSYC 2308 Child Psychology	3
SOCI 1301 Principles of Sociology	3
Related Requirements	9
ARTS 1301 Art Appreciation (Self-Paced)	3
MUSI 1306 Music Appreciation	3
PHIL 2306 Introduction to Philosophy II (Ethics)	
Total Semester Hours	71

Psychology Courses

PSYC 2301 Introduction to Psychology (PSY 1301)

PSYC 2302 Applied Psychology

SOCI 1306 Social Problems (SOC 2301)

5,6,7,9,10,11) Prerequisite: SOCI 1301.

SOCI 2301 Sociology of the Family (SOC 1302) Analyzes human relationships pertaining to varied aspects of courtship, mate selection, and marital adjustment. Includes problems of adjustment in each stage of the life cycle. Prerequisite: None. **SOCI 2306 Human Sexuality** (3-0)3 hours Presents human sexuality from a biopsychosocial perspective with the intent that students acquire a scientific foundation of sexual knowledge. Students must acquire, interpret, and communicate a wide variety of information pertaining to psychosocial influences on human sexuality. Decision-making skills, personality qualities such as responsibility, self-esteem, and integrity, and communication of one's feelings and concerns are a major focus of this course. Social factors that influence sexuality, family attitudes, values, multi-media presentations, gender identity, and gender roles provide students with a scientific foundation in a multi-disciplinary approach. (SCANS 6,9,10,11). Prerequisite: None. SOCI 2319 Race and Ethnic Relations (SOC 2302) Presents the various racial and ethnic groups that comprise the predominate United States population. Stresses the various interpersonal and intergroup relationships between groups and institutions. Describes and evaluates the social interpretations and responsibilities as they pertain to prejudices and discriminations that are recognized across American society. The course teaches students to develop their own thinking skills and personal qualities as they relate to others in personal, professional, and social interactions. (SCANS 5,6,7,9,10,11) Prerequisite: SOCI 1301. SOCI 2326 Social Psychology (SOC 2303) Surveys research and theories dealing with human behavior in social situations. Includes attitudes, prejudice, interpersonal attraction, group behavior, conformity, motivation and conflict. Students may elect subject area heading appropriate to their major. Students may not receive credit for both PSYC 2319 and SOCI 2326. Prerequisites: PSYC 2301 or SOCI 1301 or consent of the instructor. SOCI 2339 Juvenile Delinguency Presents various theories and theoretical causations that pertain to juvenile delinquency. Cover the various institutions, diversion program, and ideologies that encompass the process dealing with juvenile delinquency behavior, and analyze and critique the juvenile justice process as it is presently applied. The course teaches students to develop their own thinking skills and analytical perspectives of juvenile justice data, the nature of delinquency, and the history and philosophy of the juvenile justice system. The course is designed to stimulate student awareness and facilitate student evaluation of the nature, extent, and causes of juvenile delinquency. (SCANS 5,6,7,9,10,11) Prerequisite: None. SOCI 2371 Fundamental Research Design (SOC 2304) Provides introduction to basic research designs utilized in social and behavioral sciences. Includes basic steps of scientific methods, descriptive and analytical

studies, methods of data collection, use of available data, analysis and interpretation. Students should check with the senior institution to determine transferability of this course. Prerequisites: MATH 1342 Mathematical Statistics or MATH 1314 College Algebra; PSYC 2301 Introduction to Psychology or SOCI 1301 Principles of Sociology. Offered only in spring semester of even-numbered years.

Radiologic (X-Ray) Technology

Faculty: Sue Leach, chair; Sven Phillips, Dr. James Sheehan, medical advisor.

Odessa College, in cooperation with local hospitals, offers a Radiologic Technology Program designed to provide understanding, proficiency and skill. The program is accredited by the Committee on Allied Health Education and Accreditation (CAHEA) in cooperation with the Joint Review Committee on Education in Radiologic Technology (JRCERT). Upon successful completion of the program, students are granted an Associate in Applied Science Degree, are eligible to apply for the certification examination given by the American Registry of Radiologic Technologists in diagnostic X-ray technology, and are eligible for state certification.

The curriculum balances general educational and technical courses with supervised practicums at local hospitals. These combined experiences provide students with an opportunity for educational development as well as occupational competence during the 24-month program.

Available practicum space limits enrollment; therefore, students are admitted on a selective basis. To be considered for admission to the program, a prospective student must be a high school graduate or equivalent, must achieve a satisfactory score on selected entrance examinations, must have character references and must be approved by the program admissions committee. After being accepted, students must maintain a "C" average in all Radiologic Technology courses and an average of "C" in all courses or they will be dropped from the program.

Applicants or other interested persons seeking additional information should contact the Radiologic Technology Program Director at the college. Prospective students are encouraged to submit their applications for admission by April 30, for review by the admissions committee.

Liability insurance must be purchased by the student at the beginning of each semester. Students must obtain and maintain a policy of health and accident insurance throughout their enrollment.

Course of Study for Associate in Applied Science Degree Radiologic Technology

Summer Session II	
Se	mester Hr
MATH 1332 Structures of College Mathematics or	
higher level math	3
XRAY 1304 Introduction to Radiologic Technology	3
XRAY 1314 Radiographic Positioning I	3
First Year	
First Semester	
BIOL 2404 Human Anatomy and Physiology	4
PHED 1100 Lifestyle Assessment and Modification	1
XRAY 1401 Radiographic Physics	4
XRAY 1111 Radiographic Positioning II	1
XRAY 1221 Clinical Practicum I	2
Second Semester	
ENGL 1301 Composition and Rhetoric	3
PHED (One-hour activity course)	1
XRAY 1402 Principles of Radiographic Exposure	4
XRAY 1112 Radiologic Positioning III	1
XRAY 1322 Clinical Practicum II	3

Summer Sessions

	Summer Session I	
_	Semester	Hrs
1.00	GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
	Summer Session II SPCH 1321 Business and Professional Speech	
	Second Year	
	First Semester COSC 1301 Introduction to Computer Systems	
Sec.	Second Semester XRAY 2202 Department Design and Operation	
_	Summer Session I XRAY 2323 Clinical Practicum VI3	
	*PHED 1100 should be the first course taken in Physical Education. **Approved Electives: PSYC 2301, SOCI 1301, HIST 1301 or HIST 1302, GOVT 2301 GOVT 2302 or ENGL 1302.	or
	XRAY 1111 Radiographic Positioning II (0-4)	
	positioning of the thorax, abdomen, spine and routine contrast media procedures to include film critique (film evaluation regarding anatomy positioning and technical factors). Includes radiographic demonstration of common pathologies of the thorax spine and abdomen with a discussion of technical compensation. Student is required.	۲,
1	to read, understand and demonstrate understanding of positioning materials by selecting necessary equipment and producing standard radiographs on radiograph phantoms. Students evaluate and correct performance following a discussion with the instructor identifying the problem and solution. Students will participate in team demonstrating their ability to work with diversity, exercise leadership and teach oth new skills. Lab fee required. (SCANS 1,5,6,7,8,9,10,11) Prerequisite: XRAY 1314 consent of the department chair corequisites: XRAY 1221 and XRAY 1401.	ns ers
	XRAY 1112 Radiographic Positioning III	
100	(0-3)	s of
	the cranium with a discussion of technical compensation. Student is required to re understand and demonstrate understanding of positioning materials by selecting necessary equipment and producing standard radiographs on radiographic phanto Students evaluate and correct performance following a discussion with the instruct in identifying the problem and solution. Students will participate in teams	ms.
	demonstrating their ability to work with diversity, exercise leadership and teach oth new skills. Lab fee required. (SCANS 1,5,6,7,8,9,10,11) Prerequisite: XRAY 1111 consent of the department chair. Corequisites: XRAY 1322 and XRAY 1402.	

XRAY 1221 Clinical Practicum I

(0-16)2 hours Introduces the clinical environment at a major facility. Requires observing operation of the X-ray department while rotating through different work areas. Student participates as a team member while learning to develop and utilize good interpersonal communication skills better enabling them to meet patients' needs. Competencies include: the production of standard radiographs of the chest, abdomen, and upper and lower extremities to include film critique (film evaluation regarding anatomy, positioning and technical factors): reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment when producing standard radiographs on patients with direct supervision (pre-competency); demonstrate ability to prioritize and organize activities necessary to complete examinations; evaluate and correct performance, in the presence of a technologist, following a discussion identifying the problem and solution; completion of necessary paperwork (some on computer) related to radiographic examinations performed; demonstration of specific exams with a model (performance evaluation) is required. Presents clinical introduction to fluoroscopic examinations and film critique. Lab fee required. (SCANS 1,4,5,6,7,8,9,10,11) Lab fee required. Prerequisite: XRAY 1314 or consent of the department chair. Corequisites: XRAY 1111 and XRAY 1401.

XRAY 1304 Introduction to Radiologic Technology

XRAY 1314 Radiographic Positioning I

XRAY 1322 Clinical Practicum II

(0-24) 3 hours Introduces the day shift clinical environment at a major facility. While rotating through different work areas student participates as a team member while learning to develop and utilize good interpersonal communication skills better enabling him to meet patients' needs. Competencies include: production of standard radiographs of the chest, abdomen, and upper and lower extremities with indirect supervision (postcompetency), and radiographic examinations of the spine, skull and sinuses with direct supervision (pre-competency); film critique (film evaluation regarding anatomy, positioning and technical factors); reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment when producing standard radiographs on patients with direct supervision (pre-competency); indirect supervision (post competency); demonstrate ability to prioritize and organize activities necessary to complete examinations; students evaluate and correct performance, in the presence of a technologist, following a discussion identifying the problem and solution; completion of necessary paperwork (some on computer) related to radiographic examinations performed; assisting radiologist with fluoroscopic examinations and demonstrating specific exams with a model (performance evaluation). (SCANS 1,4,5,6,7,8,9,10,11) Prerequisite: XRAY 1221. Corequisites: XRAY 1112 and XRAY 1402.

XRAY 1323 Clinical Practicum III

(0-32) [12 weeks]3 hours Emphasizes practice of basic radiographic procedures in positioning and darkroom techniques. Causes student to use anatomical terms. While rotating through different work areas student participates as a team member while learning to develop and utilize good interpersonal communication skills better enabling him to meet patients' needs. Competencies include: discussion and demonstration of all standard radiographic positions with direct supervision (pre-competency); indirect supervision (post-competency) to include film critique (film evaluation regarding anatomy, positioning and technical factors); reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographs on patients with the necessary supervision; ability to prioritize and organize activities necessary to complete examinations; evaluating and correcting performance, in the presence of a technologist, following a discussion identifying the problem and solution; completing necessary paperwork (some on computer) related to radiographic examinations performed; assist radiographers in obtaining radiographs on trauma patients; assist radiologist with fluoroscopic examinations and demonstrating specific exams with a model (performance evaluation). Includes the following in clinical rotations: special procedures, CT, breast imaging, MRI, quality assurance and heart catherization. (SCANS 1,4,5,6,7,8,9,10,11) Prerequisite: XRAY 1322 or consent of the department chair.

XRAY 1401 Radiographic Physics

XRAY 1402 Principles of Radiographic Exposure

XRAY 2201 Special Imaging

XRAY 2202 Department Design and Operation

XRAY 2321 Clinical Practicum IV

Introduces the student to special clinical rotations. While rotating through different work areas student participates as a team member while learning to develop and utilize good interpersonal communication skills better enabling him to meet patient's needs. Competencies include: discussion and demonstration of all standard radiographic positions and ability to produce radiographs on trauma patients with direct supervision (pre-competency); indirect supervision (post-competency) to include film critique (film evaluation regarding anatomy, positioning and technical factors); reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographs on patients with the necessary supervision; ability to prioritize and organize activities necessary to complete examinations; evaluate and correct performance, in the presence of a technologist, following a discussion identifying the problem and solution; completion of necessary paperwork (some on computer) related to radiographic examinations performed; assisting radiographers in obtaining radiographs on trauma patients; assisting radiologist with fluoroscopic examinations; demonstrating specific exams with a model (performance evaluation). Includes the following in clinical rotations: special procedures, CT, breast imaging, MRI, heart catherization, ultrasound, nuclear medicine, radiation therapy and quality assurance. (SCANS 1,4,5,6,7,8,9,10,11) Prerequisite: XRAY 1323 or consent of the department chair. Corequisites: XRAY 2401 and XRAY 2201.

XRAY 2401 Advanced Radiographic Procedures

XRAY 2402 Radiation Biology & Pathology

XRAY 2322 Clinical Practicum V

XRAY 2323 Clinical Practicum VI

Reading

Faculty: Elloui Moseley, chair; Jean McColloch, Pam Williamson.

An effective citizen must read well, and reading courses develop efficient tools for use in both the academic and workplace environment. All professional fields require above-average abilities in reading.

These courses implement multi-media, computerized instruction and support the philosophy that a person's ultimate reading potential is never reached. Because effective study skills predominantly depend on precise reading abilities, learning methods are an integrated element in the curriculum. Time spent in this program is an investment in self. All people, regardless of their reading ability or what kind of grades they make, can improve their reading skills.

Developing awareness of the competencies underlying effective reading and insight into the psychology of reading will be excellent preparation for those interested in reading as an academic major. Reading specialists, reading supervisors and reading clinicians are all in great demand.

Courses listed below do not satisfy requirements as electives for any degree at Odessa College. Students who intend to transfer to another community college, senior college or university should check with that institution to determine whether hours earned in reading will transfer for degree credit.

READ 0371 Basic Reading (READ 1300)

READ 0372 College Reading (READ 1301)

READ 0373 Advanced College Reading (READ 1302)

College Reading Techniques

The College Reading Techniques courses provide an alternative reading program with structured, individualized, self-paced instruction in a multi-media, computerized environment. Regardless of present reading ability, students can expect to increase vocabulary, to gain faster reading rates and to improve comprehension. Effective study techniques offer opportunities to improve performance in both academic and vocational-technical courses.

Diagnostic tests are given to determine placement levels and specific areas of need. Post-tests evaluate progress during the semester. Through student-teacher conferences, a self-paced plan of action is developed to set immediate and long-range goals.

Students should consult with the instructor immediately upon registration to arrange meeting times for flexible entry courses.

READ 0171 Improving Reading Skills (READ 1101)

READ 0172 Improving Reading Flexibility (READ 1102)

READ 0173 Improving Reading Rate and Comprehension (READ 1103)

Refrigeration/Air Conditioning

(see Heating, Ventilation and Air Conditioning)

Religion (see Philosophy and Religion)

Respiratory Care

Faculty: Phyllis Brunner, chair; Stan Middleton, Director of Clinical Education; Gloria Hearne, Dr. John Bray, medical director.

Through its ladder concept curriculum in Respiratory Care, Odessa College offers an intensive program for therapists and technicians. The Technician Program requires 14 months of study and leads to a Certificate of Completion. The Therapist Program requires 22 months of study and leads to an Associate in Applied Science Degree.

The clinical practice of respiratory care involves the application of skills and knowledge in the diagnosis and treatment of cardiopulmonary disease. Respiratory therapists and technicians engage in the care of patients from all age groups who suffer from a broad spectrum of diseases. They perform their duties in all patient care areas of hospitals, although primary involvement is in the intensive care units. They staff diagnostic laboratories, provide respiratory services for patients at home and in rehabilitation centers, are involved in the transportation of patients who require respiratory care en route, and serve as managers or educators.

Individuals practicing respiratory care should be mature, responsible persons with strong interpersonal skills and the desire to care for others. Interest and competence in the basic sciences are strong determinants in the academic success of a respiratory therapy student. Respiratory care involves the application of highly technological equipment to patient care situations.

The curriculum balances general educational and technical courses with supervised clinical work in local hospitals under the direction of qualified therapists and technicians. Physicians proficient in pulmonary medicine provide medical direction. This setting provides students with an excellent opportunity for educational development and occupational competence.

Students are admitted prior to the second summer 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 interview and approval of the admissions committee for the program.

Students may not receive a grade lower than "C" in any Respiratory Care course and must maintain a "C" average or better in all other courses. Students failing to meet these scholastic requirements will be dropped from the program. All Respiratory Care courses must be taken in the proper sequence as shown in the catalog, and progression to the second year requires successful completion of the Technician Program.

All Respiratory Care students are required to have health and accident insurance. Liability insurance also is required and is a part of the regular college fee schedule.

The Odessa College Respiratory Therapist and Technician Program is accredited by the Council on Medical Education of the American Medical Association through the recommendations of the Joint Review Committee for Respiratory Therapy Education.

Students wishing to apply for admission or seeking additional information should contact the Counseling Center. All persons wishing to apply should submit their applications before June 1 of each year.

Course of Study for Associate in Applied Science Degree Respiratory Therapy

First Year

Summer Session II	
	Semester Hrs
MATH 1332 Structures of College Mathematics or	
higher level math	3
-ENGL 1301 Composition and Rhetoric	3
First Semester	
BIOL 2404 Human Anatomy and Physiology	4
SPCH 1321 Business and Professional Speech	3
RESP 1101 Fundamentals of Respiratory Care I Lab	1
RESP 1111 Clinical Practicum I	1
RESP 1300 Fundamentals of Respiratory Care I	3
RESP 1304 Principles of Respiratory Care	3
Second Semester	
COSC 1301 Introduction to Computer Systems	3
RESP 1112 Fundamentals of Respiratory Care II Lab	1
RESP 1312 Fundamentals of Respiratory Care II	3
RESP 1222 Clinical Practicum II	2
RESP 1332 Cardiopulmonary Pathophysiology	3
*PHED 1100 Lifestyle Assessment and Modification	1

		20
	Summer Sessions I and II Semeste	
•	RESP 1140 Respiratory Care Seminar	1
	RESP 1360 Critical Care	3
	RESP 1333 Clinical Practicum III	3
	Second Year	
	Third Semester	
ŀ	CHEM 1105 Introductory Chemistry Lab1	ı
	CHEM 1305 Introductory Chemistry	
'	-GOVT 2301 U.S. and Texas Government or	
	GOVT 2302 American National Government	
	RESP 2312 Cardiopulmonary Dynamics	
f	RESP 2364 National/Pediatric Respiratory Care	<u>.</u>
		,
	Fourth Semester BIOL 2420 Microbiology4	4
	PSYC 2301 Introduction of Psychology	2
	RESP 2330 Clinical Specialties	ś
	RESP 2262 Clinical Practicum V	
	PHED One-hour activity course1	ĺ
	Elective (must be outside the major area)	}
	*PHED 1100 should be the first course taken in Physical Education.	
	Course of Study for Certificate of Completion	
	Respiratory Therapy Technician	
	First Year	
	Summer Session II	
	Semester	r Hr
	MATH 1332 Structures of College Mathematics or	_
	higher level math	3
	ENGL 1301 Composition and Rhetoric	5
	First Semester	
	BIOL 2404 Human Anatomy and Physiology	}
	RESP 1101 Fundamentals of Respiratory Care I Lab	
1	RESP 1111 Clinical Practicum I	
	RESP 1300 Fundamentals of Respiratory Care I	
	RESP 1304 Principles of Respiratory Care	
	Second Semester	
	COSC 1301 Introduction to Computer Systems	3
	RESP 1112 Fundamentals of Respiratory Care II Lab	i
	RESP 1312 Fundamentals of Respiratory Care II	3
	RESP 1222 Clinical Practicum II	<u> </u>
	*PHED 1100 Lifestyle Assessment and Modification1)
	•	•
	Summer Sessions I and II RESP 1140 Respiratory Care Seminar1	
	RESP 1360 Critical Care	
	RESP 1333 Clinical Practicum III	
	Total Semester Hours41	
	*PHED 1100 should be the first course taken in Physical Education.	•
	FRED I 100 SHOUIU DE ME HIST COUISE TAKEN IN FRYSICAL EUUCAHON.	

Respiratory Care Courses

RESP 1101 Fundamentals of Respiratory Care I Lab	
(0-3)	
are performed in the laboratory setting prior to performing them in a clinical setting. (SCANS 2,3,8) Lab fee required. Prerequisite: None. Corequisite: RESP 1300.	老
RESP 1111 Clinical Practicum I	
(0-8)	
required. Prerequisite: None. Corequisites: RESP 1101 and RESP 1300.	
RESP 1112 Fundamentals of Respiratory Care II Lab	_
(0-3)	
designed to allow students to select appropriate equipment, problem-solve equipment errors, and communicate the recommended changes in therapeutics in a given problem. (SCANS 3,8,9,11) Lab fee required. Prerequisite: RESP 1101, RESP 1300, RESP 1304 and RESP 1111. Corequisite: RESP 1312 and RESP 1222.	Sept.
RESP 1140 Respiratory Care Seminar	
(1-0)[13 weeks]	A CONTRACTOR OF THE PARTY OF TH
effective standards of care. Requires preparation of journal reports from recent publications. Provides a comprehensive review of competencies for the entry level technician. (SCANS 6,7) Prerequisite: RESP 1312, RESP 1222, RESP 1332, RESP 1112. Corequisite: RESP 1333, RESP 1360.	
	1000
RESP 1222 Clinical Practicum II (0-16)2 hours	i
Applies, in a clinical setting, skills learned in RESP 1300. Allows a student to participate as a health care team member, including decision making and equipment troubleshooting. Enforces the personal qualities for job success such as	Marines and
understanding workplace ethics, time-management and organizational skills, responsibility, and sociability. Permits rotation through acute care facilities, including pediatrics and rehabilitation centers. (SCANS 4,5,8,9,10) Prerequisite: RESP 1011, RESP 1300, RESP 1304. Corequisite: RESP 1312, RESP 1332, and	Bornson A
RESP 1112.	
RESP 1300 Fundamentals of Respiratory Care i	
(3-0)	İ
and equipment associated with respiratory care modalities such as aerosol therapy, incentive spirometry, IPPB, arterial blood gas sampling, and chest physiotherapy. (SCANS 3,8) Prerequisite: Admission to Respiratory Care Program. Corequisite: RESP 1101.	

RESP 1304 Principles of Respiratory Care

RESP 1312 Fundamentals of Respiratory Care II

RESP 1332 Cardiopulmonary Pathophysiology

RESP 1333 Clinical Practicum III

RESP 1360 Critical Care

RESP 2330 Clinical Specialties

RESP 2252 Clinical Practicum IV

RESP 2262 Clinical Practicum V

RESP 2312 Cardiopulmonary Dynamics

RESP 2364 Neonatal/Pediatric Respiratory Care

Social Sciences

Faculty: Dr. Dick Kennedy, chair; Mary Kay Buinger, Dr. Brian Dille, Daphne Eastman, Dr. Tom Heiting, Truett Hilliard, Jack Kitzmiller, Robert Porter, Dr. Helen Reinhart (ret.), Bill Rutherford, Dr. Bob Sturges.

Social sciences deal with the three basic relationships that mankind has dealt with since time began. These relationships involve man with his fellow man (history, economics, government, psychology and sociology), man with God (religion) and man with himself (philosophy). No one can challenge the effect that philosophers, historical events, political and social theories, economic ideas and religious concepts have had on mankind.

The four-semester curricula outlined below lead to an Associate in Arts Degree in economics, government and history. Courses are offered in philosophy and religion, but they should be taken as electives only. Students desiring to major in philosophy or religion should consult with the senior college or upper-level institution to which they will transfer regarding transferability of courses.

The Social Sciences Department also offers honors courses in both government and history. These classes, which have limited enrollment, provide an innovative and non-traditional learning experience for students who qualify. Contact the department chair or the Director of Honors for more information.

The social sciences provide students with analytical tools needed for effective participation in a democratic society; they also open doors to various career opportunities. A background in the social sciences is particularly suitable to government employment (such as in the Social Security Administration), social welfare employment, the Federal Reserve banks and other types of government jobs. The social sciences also provide a background that is useful for a career in business, teaching and other professions.

Course of Study for Associate in Arts Degree Economics, Government and History Options

	Semester Hrs
General Education Requirements	52
**General Education Elective	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (Sophomore Level)	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
***HIST 1301 U.S. History to 1877	
***HIST 1302 U.S. History from 1877	3
Foreign Language	
MATH 1332 Structures of College Mathematics I or	
higher level math	2
MATH 1333 Structures of College Mathematics II or	
	•
higher level math	3
*PHED (Any two one-hour activity courses)	
SPCH 1311 Introduction to Speech Communication	3
Elective (must be outside the major area)	3
Major Requirements	12
ECON 2301 Principles of Economics I (Macro)	
ECON 2302 Principles of Economics II(Micro)	3
HIST 2311 History of Modern Europe to 1815	3
HIST 2312 History of Modern Europe since 1815	
Total Semester Hours	67
*** *** *** ** ** ** ** ** ** ** ** **	

^{**}Approved Electives: HIST 2303, HIST 2304, PSYC 2319, SOCI 2319 and SOCI 2326.
***HIST 2301, History of Texas may be substituted for either HIST 1301 or HIST 1302.
*PHED 1100 should be the first course taken in Physical Education.

Economics Courses

ECON 1301 Introduction to Economics (ECO 1301) (3-0)3 hours Permits average citizen to increase economic literacy. Includes organization and interpretation of economic resources, basic economic decisions, price system, role of money and banking, problems of inflation and employment and other personal and public economic issues. Recommended for management majors and others who want a general knowledge of economics. Does not replace ECON 2301 and/or ECON 2302. (SCANS 6) Prerequisite: None. ECON 2301 Principles of Economics I (Macro) (ECO 2302) Provides organization, communication, and interpretation of fundamental, analytic concepts of economic theory and practice. Emphasizes macroeconomic theory and practice. Includes money and banking, national income and employment, economic growth, public spending and international economy. (SCANS 6) Prerequisite: None. ECON 2302 Principles of Economics II (Micro) (ECO 2301) Designed to provide communication and interpretation of fundamental analytic concepts of economic theory and practice. Emphasizes micro-economic theory and problem solving. Includes basic theory, price and output determination under varying conditions and income distributions and factor prices. (SCANS 6,9) Prerequisite: None. **Government Courses** GOVT 2301 U.S. and Texas Government (GOVT 2301) Traces and interprets the development of American political thought, the origins and development of the U.S. Constitution, federalism, public opinion and the political processes of American democracy. Includes the Texas Constitution, governor, state legislature, court system, bureaucracy, state politics and local government. This course satisfies the government requirement for teacher certification by the Texas Educational Agency. (SCANS 6) Prerequisite: None. **GOVT 2302 American National Government (GOVT 2302)** Disseminates information and interprets the institution of government including the presidency, congress, the courts and bureaucracy of the U.S. Government. Includes study of domestic and foreign policy issues such as managing the economy, national defense, welfare, civil liberties and civil rights. this course does not satisfy the government requirement for teacher certification by the Texas Education Agency. (SCANS 6. Prerequisite: None. **History Courses** HIST 1301 United States History to 1877 (HIST 2301) (3-0)3 hours Organizes, interprets, and evaluates the European background, establishment of colonial foundations, rise of American nationality, growth and sectional crisis, and the Civil War and Reconstruction. (SCANS 6,9) Prerequisite: None. HIST 1302 United States History from 1877 (HIST 2302) (3-0) 3 hours Deals with the growth of big businesses and accompanying problems. Includes the interpretation and evaluation of American imperialism, causes and results of World War I, causes of World War II, post-war adjustments and prospective solutions. (SCANS 6,9) Prerequisite: None.

HIST 2301 History of Texas (HIST 2303) Texas, Spanish and French rivalry, exploration and control, Anglo-American colonization, relations with Mexico, Texas Revolution, Texas as a republic, annexation, statehood, reconstruction and other political and economic developments. (SCANS 6,9) Prerequisite: None. HIST 2311 History of Modern Europe to 1815 (HIST 1301) Surveys and interprets the social, economic and political developments in Medieval and Modern Europe. Emphasizes the Renaissance, Protestant Reformation, overseas expansion during 16th and 17th centuries, struggle for parliamentary government in England, French Revolution and Napoleonic period. (SCANS 6) Prerequisite: None. HIST 2312 History of Modern Europe Since 1815 (HIST 1302) Includes an interpretation and evaluation of the Napoleonic era, rise of liberalism and nationalism, causes and results of World War II, post-war problems and prospective solutions. (SCANS 6,9) Prerequisite: None. HIST 2381 Afro-American History (HIST 2304) Organizes and interprets the role and contributions of Afro-Americans to development and culture of the United States. (SCANS 6) Prerequisite: None. **Philosophy and Religion Courses** PHIL 1301 Introduction to Philosophy I (PHIL 2301) Presents an adventure in ideas including the interpretation of those ideas. Asks anew ultimate questions about the significance of life. With insights gleaned from world's greatest philosophers, students seek to clarify own ideas and beliefs concerning themselves, their world and their ultimate destiny. Critical thinking is an important component of this course. (SCANS 6,9) Prerequisite: None. PHIL 1304 Comparative Religions (RELG 1303) An interpretation of religions of the world. Includes Hinduism, Buddhism, Confucianism, Taoism, Shinto, Judaism, Christianity, and Islam. (SCANS 6) Prerequisite: None. PHIL 1316 History of Religion (RELG 1302) Investigates and interprets historically the development of the world from prehistory to modern times. Emphasizes role of religions in world history. Prerequisite: None. PHIL 2306 Introduction to Philosophy II (Ethics) (PHIL 2302) (3-0) 3 hours Introduces ethical theories based on answers given by the world's greatest philosophers to the questions, "What makes acts right?" and "What is the good life?" Discusses and interprets the nature of goodness, duty and freedom. Considers selected ethical problems in light of each basic ethical system. (SCANS 6,9) Prerequisite: None. PHIL 2321 Philosophy of Religion (RELG 1301) Examines and interprets the nature and meaning of religion and religious expression. Emphasizes development of religious thinking in western civilization. Includes faith and reason, religion's authority, science and religion, problems and implications of freedom, evil and conscience, (SCANS 6) Prerequisite: None.

BIBL 1171 Acts of the Apostles (BIB 1101) (1-0)1 hour Communicates and interprets expansion of Christian beliefs, practices and fellowships from Palestine to outlying parts of the Roman Empire. Includes personality study of Peter, John, Paul and other apostles. (SCANS 6) Prerequisite: None. **BIBL 1372 Old Testament History (BIB 1301)** An introduction and survey of the Old Testament. Emphasizes historical setting, types of religious literature and religious element underlying the whole. (SCANS 6) Prerequisite: None. BIBL 1373 New Testament History (BIB 1302) Introduces survey of the New Testament. Emphasizes life and teachings of Jesus as found in the Gospels, expansion of early Christianity, a brief study of Paul's epistles. the general epistles and Revelation. (SCANS 6) Prerequisite: None. BIBL 2371 History of the Life of Christ (BIB 2301) Presents a study of the life of Christ as portrayed by Matthew, Mark, Luke and John. (SCANS 6) Prerequisite: None. BIBL 2372 The Life and Letters of Paul (BIB 2302) Consists of a study of the life and ministry of the apostle Paul. Examines his writings and central ideas. (SCANS 6) Prerequisite: None. Sociology (see Psychology and Sociology)

Spanish (see English and Foreign Languages)

Speech

Faculty: Darlyne Ervin, chair; Joe Willis, Wallace Jackson (ret.)

The Speech Department recognizes that effective communication is an essential skill in college, industry and daily life. Students must be able to logically organize their ideas, adapt those ideas to their specific audience or situation and then express those ideas or feelings in a clear, confident manner. These skills, once learned, will aid students throughout their private and professional lives.

All speech courses have unique, diverse functions; therefore, each presents individual goals. However, the shared goal of these classes is to help students develop a more articulate, sensitive and confident self image in the area of oral communication.

Business and Professional Speech and Public Speaking are course offerings considered to be "core" classes because they help fulfill the communication requirements at most colleges and universities.

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

Course of Study for Associate in Arts Degree Speech

	Speech Speech	
_		Semester Hrs
ž.	General Education Requirements	
đ	ENGL 1301 Composition and Rhetoric	
	ENGL 1302 Composition and Literature	3
_	ENGL (Sophomore Level)	b
	HIST 1301 U.S. History to 1877	3
	GOVT 2301 U.S. and Texas Government	
	GOVT 2301 0.5. and Texas Government	
	Science (Two sequential semesters of a laboratory science)	
	A Foreign Language 1411 and 1412	Ω
2.5	*PHED (Any two one-hour activity courses)	2
	• •	
	Elective (must be outside the major area)	3
	Major Requirements	19
•	SPCH 1315 Public Speaking	3
	**SPCH 1144, 1145, 2144 and 2145: Forensic Laboratory	
	SPCH 2341 Introduction to Oral Interpretation	
	SPCH 2335 Argumentation and Debate	3
ì	SPCH 1342 Voice and Diction	3
	COMM 1335 Survey of Radio and Television	3
1		
	Total Semester Hours	04
)	*PHED 1100 should be the first course taken in Physical Education. ** This laboratory prepares students for intercollegiate participation in various contests. Requires tournament participation for credit to be earned. Prerequires to the contests of the contests of the contests.	us speech Juisite: None.
	Speech Courses	
	SPCH 0300 Basic Speech Communication Skills (SPCH 1300)	
	(3-0)	
•	SPCH 1144, 1145, 2144, 2145 Forensics Laboratory (SPCH 1131,1132, 2: (0-2)	131, 2132) 1 hour each
	This lab prepares the students for intercollegiate participation in various events. This course requires tournament participation. (SCANS 5,9,10,1 ways depending on the student's individual events) Prerequisite: None.	public speaking
	SPCH 1311 Introduction to Speech Communication (SPCH 1310) (3-0)	3 hours
	This course introduces the oral communication process through study of skills. The course applies practices of communication in dyadic and grouvariables of nonverbal communication, self-esteem, listening techniques speaking and cultural diversities are examined. (SCANS 5,10,11) Preserved.	p environments , presentational
	SPCH 1315 Public Speaking (SPCH 1320)	
	(3-0) In this course the student learns to apply oral communication skills towar audience. Organization of ideas, the persuasion process, and audience components of the course objectives. The student will demonstrate these through prepared messages using appropriate verbal and nonverbal tec (SCANS 5,6,9,10,11) Prerequisite: None.	rd a specified analysis are e objectives
i		

SPCH 1321 Business and Professional Speech (SPCH 2340)

SPCH 1342 Voice and Diction (SPCH 2360)

SPCH 2335 Argumentation and Debate (SPCH 2330)

SPCH 2341 Introduction to Oral Interpretation (SPCH 2320)

Surgical Technology

Faculty: Leola Rutledge, chair.

The Surgical Technology Program prepares graduates to function in the operating room as surgical technologists under the direction of an operating room registered nurse. Duties include maintaining a safe environment for patients undergoing surgery, transporting patients, preparing supplies, operating equipment, handling instruments and serving as a member of the surgical team.

The first semester courses include medical terminology, asepsis, microbiology, pharmacology, sterilization/disinfection and an introduction to clinical experience. Anatomy and physiology and interpersonal relationships also are introduced. During the second semester, first aid is presented, anatomy and physiology are continued, and the practicum and didactic instruction are expanded to include wound healing, anesthesia and surgical procedures. Opportunity also is given in the practicum to increase knowledge and skills in general surgical procedures. The six-week summer session allows students to perfect skills under supervision in the clinical sites.

Admission requirements to the program include submission of a completed Odessa College application, program application, high school graduation or its equivalent (GED) and evidence of good health. Also, prospective students must make a satisfactory score on the Allied Health Aptitude Test. Upon completion of the above, students must make arrangements for an interview with the program director.

Students may be required to take some college placement tests. Unsatisfactory scores on these placement or entrance tests may require that additional courses be taken concurrently with, or prior to, the regular curriculum.

All courses — including the academic courses — in the curriculum are required and must be completed no later than the prescribed semester with a minimum grade of "C." Progression to the next semester cannot be accomplished if a grade of "D" or "F" is received in any course.

All Surgical Technology students are required to have health and accident insurance. Liability insurance also is required and is a part of the regular college fee schedule.

Students who successfully complete the program receive a Certificate of Technology and may sit for the National Certification Examination for Surgical Technologists. Those interested in furthering their education may take the courses for an Associate in Applied Science Degree.

The Odessa College Surgical Technology Program is accredited by the Committee on Allied Health Education and Accreditation with recommendations of the Accreditation Review Committee on Education for the Surgical Technologist.

Course of Study for Associate in Applied Science Degree Surgical Technology

First Year

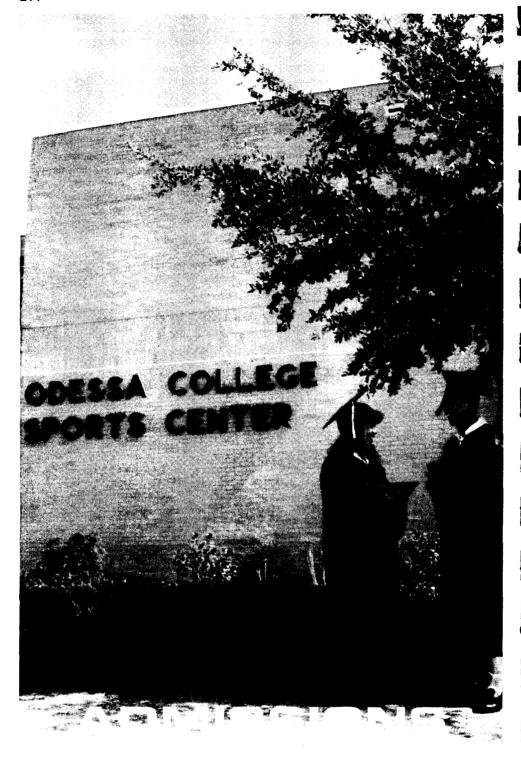
Semester Hrs
First Semester BIOL 1170 Medical Terminology
Second Semester BIOL 2402 Anatomy and Physiology II
Summer Session I SURG 1515 Surgical Technology Practicum III5
Second Year
First Semester BIOL 2420 Microbiology
Elective3
Second SemesterCOSC 1301 Introduction to Computer Systems3ENGL 1302 Composition and Literature3PHED One-hour activity course1PSYC 2301 Introduction to Psychology3SPCH 1321 Business and Professional Speech3

*PHED 1100 should be the first course taken in physical education.

Course of Study for Certificate of Completion Surgical Technology

First Semester Semester Hr:
BIOL 1170 Medical Terminology
Second Semester BIOL 2402 Anatomy and Physiology II
Summer Session I SURG 1515 Surgical Technology Practicum III5
Surgical Technology Courses
SURG 1411 Surgical Technology Practicum I (ST 1411) (0-14)
SURG 1612 Introduction to Surgical Techniques (ST 1611) (6-2)
SURG 1613 Principles of Surgical Technology (ST 1601) (6-2)

SURG 1614 Surgical Technology Practicum II (ST 1602) (0-21) 6 hours Assignments in the Operating Room environment stressing participation as a viable member of the team. Emphasis on prioritization of general surgical technique activities and use of materials. Student will understand overall intent of surgical procedures and choose equipment and supplies related to these tasks. Increase in
responsibility for self-management and problem solving. (SCANS 4,5,6,8,10) Prerequisites: SURG 1411, SURG 1612; Corequisite: SURG 1613.
SURG 1515 Surgical Technology Practicum III (ST 1503) (0-32)
Vocational Nursing (see Nursing)
Welding Technology (see Metal Trades)
X-Ray Technology (see Radiologic Technology)



Admissions Policies

Welcoming all adults who want to learn, Odessa College has an open-door admissions policy. Whether high school graduates or not, all adults 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 that an educational plan can be drawn for each individual. The Testing Center also makes available various types of tests to help students determine their aptitudes, interests, scholastic strengths and weaknesses and other information helpful to a student making a career decision.

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 or her place at Odessa College.

Procedure

Students applying for admission should have their academic records sent to the Director of Admissions at Odessa College as soon as possible and should complete an application for admission. Students whose records are incomplete at the time of registration may be admitted to Odessa College, although some records must be furnished prior to registration. All necessary records must be furnished before a transcript from Odessa College can be obtained.



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

- By High School Graduation: Graduates of accredited high schools satisfy minimum requirements for admission. These students must submit official copies of their high school transcripts which show the date of their graduation.
- Through the Early Admission
 Program: When high school seniors
 are within four units or 12 quarter
 credits of graduation from high school,
 they may enroll in a maximum of two
 courses per semester at Odessa
 College. Early admission students must
 submit the prescribed documentation
 signed by a parent or guardian, their
 high school counselor and the high
 school principal. These forms are
 obtained from the high school
 counselor.
- **By Concurrent Enrollment: High** school students may earn credit for a high school course and college credit for enrollment in a college course. For example, a high school student might enroll in an approved history course at Odessa College, attend only the college history course and be granted credit at both the high school and the college levels. To participate in the program, high school students must have the approval of their principal and must have or exceed an overall grade point average of 3.0 in the semester immediately preceding enrollment in a college course, or have scored at or above the 90th percentile on the achievement subtest in the content area for which the students wish to enroll. Any high school student wishing to participate in the concurrent enrollment program must apply to his or her high school counselor who will determine the student's eligibility for the program and the course load.
- By Individual Approval: All persons who are at least 18 years of age and whose class has graduated from high school may be admitted to Odessa College if it is determined that those individuals can benefit from study at this

- institution. Normally, persons admitted on individual approval will be asked to take basic skills tests before registering for classes in order to ensure that they are placed in the proper classes.
- By Written Examination: Persons who have not graduated from high school may be admitted if they have passed the General Educational Development Test (GED), if they are 17 years of age, if they have not attended high school for one or more semesters and if they do not plan to return to high school. Proof that the GED has been passed must be submitted.
- By Re-entry: Former students in good standing who have not attended another college since enrolling at Odessa College are eligible for readmission.
- By Transfer from Another College: Persons transferring from another accredited college or university are ordinarily eligible for admission if they are eligible for readmission to the institution from which they are transferring. Scholastic deficiencies of transfer students will be reviewed by the director of admissions who will determine their eligibility. Transfer students must submit an official copy of their college or university transcripts as a final condition for admission. If possible, that record should be submitted prior to registration. Transfer students who are admitted to Odessa College but who do not submit prior educational records will be denied certified copies of their Odessa College transcripts. Transfer students must provide documentation of their TASP status prior to registration.

High school students preparing to continue their education at Texas postsecondary institutions are strongly encouraged to prepare themselves for advanced study in both academic and technical fields. The Texas Higher Education Coordinating Board recommends the following minimums for students in the "college preparation" path:

A. Core Proficiencies: All Students should complete:

- English Language Arts: English I-IV (four years)
- Mathematics: Algebra I and Geometry
- Science: Two of the following: Physical Science, Biology I and II, Chemistry I and II, Physics I and II
- Social Science: US History, World History, World Geography, Economics, and US Government
- Foreign Languages: Proficiency in a second language
- 6. Health: One half unit
- 7. Fine Arts: One half unit
- Physical Education: One and one half units
- 9. Computer Skills: One unit

B. Specialization Proficiencies: In addition to the above recommended minimums, students should complete the following specialization:

- Mathematics: Additional proficiencies which will apply toward their intended major area of study. These may include Algebra II, Precalculus, or other mathematics skills courses.
- Science: Additional proficiencies in Biology, Chemistry, and Physics as indicated by the particular college courses of study.
- Additional: Students working toward a baccalaureate degree should take additional courses in fine arts and electives which meet graduation requirements.

Students working toward a two-year technical degree should take a coherent sequences of courses through a tech-prep or 2+2 program. See your high school counselor for details.

Students planning on immediate full-time employment should take a coherent sequence of courses in vocational education, applied technology and electives. See your high school counselor for details.

International Student Admissions

International students (F-1 visa) must meet all regular admissions criteria. In addition, they must take and score at least 575 on the Test of English as a Foreign Language (TOEFL). Scores between 500 and 575 will be considered on an individual basis if the applicant has U.S. sponsorship acceptable to Odessa College. A financial statement is also required. International students enrolling at Odessa College will need a minimum of \$8,000 for a calendar year for educational and living expenses, in addition to funds for transportation. International students must make a \$5,000 (U.S.) cash deposit with the college or present evidence of adequate medical insurance; they must also make a cash deposit (U.S.) for the amount of one-way airplane transportation to the home country. Deposits are refundable when an international student is no longer enrolled at Odessa College.

All required documents and information must be received in accordance with the following dates if international students expect their application to be processed for the semester indicated:

Summer School	March 3
Fall Semester	June 1
Spring Semester	October 15

Academic records for international students must be official and must be translated into English. Copies will not be accepted. International students wishing to transfer to Odessa College from another U.S. college or university must also present official transcripts of all U.S. college work along with recommendations from the foreign student advisor from the school previously attended.

All applications from international students must be accompanied by a \$20 application fee. Persons wanting additional information on international student admissions should write to:

International Student Admissions Odessa College 201 West University Odessa, TX 79764

Orientation Requirement

ORIE 1100, Orientation, is a course designed to assist the student who is enrolled in college for the first time in gaining the knowledge necessary to function effectively in a college environment. It covers the policies, rules and regulations of Odessa College, as well as study skills and the state-mandated TASP testing requirements. The student will become acquainted with the college catalog, the Student Handbook and the campus.

At the first class meeting, the student will meet with the instructor for two hours and then will complete the course through self-paced activities and an exam over the material covered in the course.

One hour of credit is awarded for the class.

All students who have never attended college before are required to enroll in ORIE 1100 during their first semester of attendance at Odessa College.

Texas Academic Skills Program (TASP) Testing Requirement

The Texas State Education Code requires that all students "who enter public institutions of higher education in the fall of 1989 and thereafter must be tested for reading, writing and mathematics skills." This includes all "full-time and part-time freshmen enrolled in a certificate or degree program," any non-degree students prior to the "accumulation of nine or more [college] credit hours or the equivalent," and "any transfer students with fewer than 60 semester credit hours or the equivalent who have not previously taken the tests."

Performance on the test will not be used as a condition of admission. The test fee will be paid by the student. Test fee waiver vouchers are available from the Financial Aid Office for students who qualify as economically disadvantaged. If the student does not take the TASP test before the accumulation of nine college-level credits, he or she will only be allowed to take remedial courses until the TASP test is taken.

If a student has failed one or more portions of the TASP test, Texas state law requires a student to be enrolled in some form of remediation continuously until he or she passes all portions of the test. Furthermore, state law requires that the student who is enrolled in remediation as a result of a TASP failure must satisfactorily participate in that remedial program. Odessa College defines the student's satisfactory participation in remediation as consistent attendance coupled with continuous progress through the content of the remedial program.

The following policies apply to any student placed in a remedial program as a result of his or her failing a portion of the TASP test:

- In a three-hour credit course, if the student is absent for six (6) or more consecutive hours of the course's scheduled instruction, he or she is subject to complete withdrawal from the college. If the student is absent for a total of nine (9) hours of instruction throughout the course, he or she is subject to complete withdrawal from the college.
- In a flexible-entry remedial course or program, if the student fails to meet with the instructor within one (1) week following registration or fails to meet with the instructor at least once every two (2) weeks thereafter, he or she is subject to complete withdrawal from the college.

Immunizations

Nursing and allied health students:
Students enrolled in health related courses (student health care providers) that involve direct patient contact in medical care facilities, regardless of number of courses taken, must produce evidence of: a) one dose of tetanus/diphtheria within the past 10 years; b) rubella immunity; c) hepatitis B/ bloodborne pathogen requirements as specified by each department.

Polio: Polio vaccine is not required for students to attend Odessa College but may be required at certain health facilities where students may have clinical training.

Provisional enrollment: All new and transfer students referred to above may be provisionally enrolled for up to one semester or quarter. The provisional enrollment will allow students to attend classes while obtaining the required vaccinations and documentation (immunization records) of required vaccinations. Student health care providers cannot be provisionally enrolled without receipt of at least one dose of MMR vaccine, if direct patient contact will occur during provisional enrollment period.

Early Registration

Early registration for a semester allows students, with the help of college counselors and faculty members, to select proper courses and to complete all registration prior to regular registration. Schedule changes may be made during official registration dates for that semester.

Students who register early have the option of paying fees at the time of early registration or by a specified later date. Students who do not pay or secure financial aid assistance by the deadline date will automatically lose those classes chosen during early registration and will have to repeat the course selection process during the regular registration period.

Early registration begins from one to two months prior to regular registration. Exact information can be secured from the Counseling Center, the News and Information Office or the Registrar's Office. Students who register early have the advantage of selecting courses, instructors and times which best suit their needs.

Auditing

The following apply to persons seeking permission to audit:

- A student may not register for an audit until after the first class day.
- Audit permission must be obtained from the appropriate department chair and the Registrar's Office..
- There must be seats available before an auditing student will be permitted to enter a particular class.
- 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.
- 6. A student registering for a course may not change from audit to credit or from credit to audit after the 12th class day during a long semester or fourth class day during a summer term. Requests for status change must be made in the Registrar's Office.
- 7. 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 established procedures for registering and by paying tuition and fees. No person is officially enrolled until all registration requirements have been satisfied and all charges have been paid in full. Installment payment of tuition and fees is not permitted.

Change of Address

Students who change residence following registration must notify the Registrar's Office immediately. Students are held responsible for any communications mailed to them from the college to the last address which they supplied. Moving from a previous address does not relieve students of the responsibility of requests made through correspondence.

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, the administration and the faculty to defend this right and to vigorously seek to promote its implementation in all areas of the institution.

In accordance with its admissions standards, Odessa College will admit as students any persons, who can benefit from the instructional programs offered. In addition, Odessa College will strive to meet post-secondary educational needs of its students by restructuring current programs and by creating new programs when so doing will benefit the students.

Title IX of the Civil Rights Restoration Act prohibits sex discrimination in all programs of institutions which receive federal funds. Inquiries regarding Title IX should be made to the Title IX compliance person in the Personnel Office, or to the Assistant Secretary for Civil Rights at the Department of Education, Washington, D.C. 20202.

Directory Information

Odessa College classifies as directory information the following student data: name, address, telephone number, date and place of birth, major field, participation in official activities and sports, weight and height of athletic team members, dates of attendance, degrees and awards received and most recent educational institution attended. Such information is normally released to individuals upon request. Students who do not want this directory information released must file a written statement to that effect with the Registrar's Office. The written statement must be filed each semester.

Identification Cards

Odessa College requires photo identification cards for all on-campus, credit-hour students. ID cards are used for admission to Odessa College student activities events, athletic events, fine arts presentations and library privileges. ID card fees are non-refundable in case of withdrawal from the college.

Full information regarding ID cards can be obtained from the Business Office, located in the Administrative Wing of the Student Union Building.

Oath of Residency and Documentation

House Bill 1147, passed by the 69th Texas Legislature, requires each public institution of higher education to obtain an oath of residency and documentation from each individual who qualifies as a resident for tuition purposes.

Financial Information

PLEASE NOTE THAT the following tables reflect the 1993-94 tuition and fee rates adopted by the Odessa College Board of Trustees. The schedule is subject to revision by the Legislature of the state of Texas, the Odessa College Board of Trustees and/or the administration of Odessa College. Please check at the time of registration for any changes in tuition and fee rates.

These tables reflect only the tuition and fees required of ALL STUDENTS.

Parking and other course fees may be applicable.

See: LA

LABORATORY FEES PRIVATE LESSON FEES

TRAVEL FEES

TESTING FEES

MISCELLANEOUS FEES

on pages 223-224 for additional charges.

ì	IN-DISTR	ICT TEXA	S RESIDEN	T			** TOTAL
4					ID Fee	_	BEFORE LAB,
•	Semester		Building	Activity	(Non-	Computer	PARKING &
	<u>Hours</u>	<u>Tuition</u>	Use Fee	<u>Fee</u>	Refundable)	<u>Fee</u>	OTHER FEES
	1	48.00	6.00	1.00	1.00	1.00	57.00
	2	48.00	12.00	2.00	1.00	2.00	65.00
	3	48.00	18.00	3.00	1.00	3.00	73.00
	4	64.00	24.00	4.00	1.00	4.00	97.00
_	5	80.00	30.00	5.00	1.00	5.00	121.00
	6	96.00	36.00	6.00	1.00	6.00	145.00
	7	112.00	42.00	7.00	1.00	7.00	169.00
•	8	128.00	48.00	8.00	1.00	8.00	193.00
	9	144.00	54.00	9.00	1.00	9.00	217.00
	10	160.00	60.00	10.00	1.00	10.00	241.00
	11	176.00	66.00	11.00	1.00	11.00	265.00
•	12	192.00	72.00	12.00	1.00	12.00	289.00
	13	208.00	78.00	13.00	1.00	13.00	313.00
	14	208.00	84.00	14.00	1.00	14.00	321.00
	15	208.00	90.00	15.00	1.00	15.00	329.00
	16	208.00	96.00	16.00	1.00	16.00	337.00
	17	208.00	102.00	17.00	1.00	17.00	345.00
	18	208.00	108.00	18.00	1.00	18.00	353.00
	19	208.00	114.00	19.00	1.00	19.00	361.00
Ď	20	208.00	120.00	20.00	1.00	20.00	369.00
	21	208.00	126.00	21.00	1.00	21.00	377.00
_	22	208.00	132.00	22.00	1.00	22.00	385.00
	23	208.00	138.00	23.00	1.00	23.00	393.00

				ID Foo		** TOTAL BEFORE LAB.
Compate		Building	Activity	ID Fee (Non-	Computer	PARKING &
Semeste		Use Fee	Fee	Refundable)	Fee	OTHER FEES
Hours	Tuition		1.00	1.00	1.00	72.00
1	63.00	6.00	2.00		2.00	80.00
2 3	63.00	12.00		1.00	3.00	88.00
3	63.00	18.00	3.00	1.00		
4	84.00	24.00	4.00	1.00	4.00	117.00
5	105.00	30.00	5.00	1.00	5.00	146.00
6 7	126.00	36.00	6.00	1.00	6.00	175.00
7	147.00	42.00	7.00	1.00	7.00	204.00
8	168.00	48.00	8.00	1.00	8.00	233.00
9	189.00	54.00	9.00	1.00	9.00	262.00
10	210.00	60.00	10.00	1.00	10.00	291.00
11	231.00	66.00	11.00	1.00	11.00	320.00
12	252.00	72.00	12.00	1.00	12.00	349.00
13	273.00	78.00	13.00	1.00	13.00	378.00
14	273.00	84.00	14.00	1.00	14.00	386.00
15	273.00	90.00	15.00	1.00	15.00	394.00
16	273.00	96.00	16.00	1.00	16.00	402.00
17	273.00	102.00	17.00	1.00	17.00	410.00
18	273.00	108.00	18.00	1.00	18.00	418.00
19	273.00	114.00	19.00	1.00	19.00	426.00
20	273.00	120.00	20.00	1.00	20.00	434.00
21	273.00	126.00	21.00	1.00	21.00	442.00
22	273.00	132.00	22.00	1.00	22.00	450.00
23	273.00	138.00	23.00	1.00	23.00	458.00
_						

OUT-OF	-STATE OF	R FOREIGN				** TOTAL
5887. A.T. Turk Turks	80° 700 (200), p 2000 (77) 2			ID Fee	44. 1/10/40/	BEFORE LAB,
Semeste	r	Building	Activity	(Non-	Computer	PARKING &
Hours	Tuition	Use Fee	<u>Fee</u>	<u>Refundable)</u>	Fee .	OTHER FEES
1	300.00	6.00	1.00	1.00	1.00	309.00
2	300.00	12.00	2.00	1.00	2.00	317.00
2 3	300.00	18.00	3.00	1.00	3.00	325.00
4	300.00	24.00	4.00	1.00	4.00	333.00
5	300.00	30.00	5.00	1.00	5.00	341.00
6 7	300.00	36.00	6.00	1.00	6.00	349.00
7	300.00	42.00	7.00	1.00	7.00	357.00
8	300.00	48.00	8.00	1.00	8.00	365.00
9	300.00	54.00	9.00	1.00	9.00	373.00
10	300.00	60.00	10.00	1.00	10.00	381.00
11	300.00	66.00	11.00	1.00	11.00	389.00
12	300.00	72.00	12.00	1.00	12.00	397.00
13	300.00	78.00	13.00	1.00	13.00	405.00
14	300.00	84.00	14.00	1.00	14.00	413.00
15	300.00	90.00	15.00	1.00	15.00	421.00
16	300.00	96.00	16.00	1.00	16.00	429.00
17	300.00	102.00	17.00	1.00	17.00	437.00
18	300.00	108.00	18.00	1.00	18.00	445.00
19	300.00	114.00	19.00	1.00	19.00	453.00
20	300.00	120.00	20.00	1.00	20.00	461.00
21	300.00	126.00	21.00	1.00	21.00	469.00
22	300.00	132.00	22.00	1.00	22.00	477.00
23	300.00	138.00	23.00	1.00	23.00	485.00

<u>LAB FEES</u>
These were the laboratory fees in effect at the date of publication. Please check at the time of registration for any changes.

	of registration for any changes.	
	Accounting ACCT 1370,2401,2402	15.00
	Art: Jewelry ARTS 2341,2342	10.00
	Art: Pottery ARTS 2346,2347	24.00
	Art: Sculpture ARTS 2326,2327	
_	Automotive Technology Except: AUTO 1301,2377	24 00
	Biology Except: BIOL 1170	15.00
	Building Trades Except: BLDG 2377	15.00
-	Business Computer Info Systems Except: BCIS 1200,2112,2188,2288,2377	24.00
	Dusiness Computer into Systems <u>Except;</u> BOIS 1200,2112,2188,2288,23//	15.00
	Chemistry CHEM 1105,1111,1112,2101,2123,2125	15.00
	Child Development CHLD 1302,1305,1307,1308,1311,2304,2305,2306,2403	10.00
	Clinical Laboratory Science CLSC 1211,1212,1500,2211,2212	15.00
	Computer Science All Courses	15.00
_	Culinary Arts Except: CA 1222,1320,1321,1322,2215,2216,2217,2223,2224	20.00
	Culinary Arts CA 2215,2216,2217	24.00
	Diesel Mechanics Except: DESL 2377	24.00
_	Drafting Except: DRAF 1401,2377,2408,2418	
	Drafting DRAF 2408,2418	24.00
	Drafting DRAF 2408,2418 Electrical & Electronics Except: ELEC 2201,2203,2205,2302,2305,2377	24.00
	Electrical & Electronics ELEC 2414	15.00
	Emergency Medical Technology EMED 1501,2801,2802	15.00
	Engineering ENGR 1370	
_	English ENGL 0171,0172,0173,0174	5.00
	English ENGL 0370,1301,1312 (Word Processing)	10.00
ķ	Fire Fighter Academy OCFA 2401,2402,2403	24.00
_	Foreign Language All 1411 and 1412 courses	10.00
	Geology GEOL 1403,1404	15.00
	Health Education PHED 1171,1306,2171	15.00
	Heating, Vent, Air Conditioning Except: HVAC 2204,2205,2302,2305,2377	34.00
	Law Enforcement/Criminal Justice CRIJ 2370	20.00
	Law Enforcement/Criminal Justice CRIJ 2471	20.00
_		
	Law Enforcement Academy Lab LEA 2415	10.00
	Law Enforcement Academy Lab LEA 2416	
_	Machine Technology Except: MACH 2377	24.00
	Maintenance Technology Except: MAIN 2302,2377	
ı	Mass Communication COMM 2120,2220,2325	10.00
	Medical Laboratory SciencesSee Clinical Laborator	y Sciences
	Music, Class Instruction MUSI 1170,1171,1172,1173,1174,1175,1176,1177	
	Nursing Except: NURS 1201,2374	15.00
-	Office Education OFST 1321,1322,1404,OE 1401,1402	10.00
	Office Education OFST 1100,2202,2203,2301	5.00
	Petroleum Technology PETR 1380	15.00
	Petroleum Technology PETR 2303	10.00
	Petroleum Technology PETR 1800	24.00
	Photography Except: PHOT 2370	10.00
	Physical Education <u>Except</u> : PHED 1100,1108,1109,1119, 1306, 2278	5.00
	Physical Education PHED 1100,1306	10.00
	Physical Education PHED 1108,1109,1119	24.00
	Physics Except: PHYS 1371	5.00
j	Radio Broadcasting See Mass Com Radiologic Technology XRAY 1111,1112,1314,1402	munication
	Radiologic Technology XRAY 1111,1112,1314,1402	15.00
	Reading All courses (per semester hour)	2.00
_	Refrigeration/Air Conditioning See Heating, Vent, Air C Respiratory Care RESP 1101, 1112	onditioning
e4	Respiratory Care RESP 1101,1112	15.00
	Surgical Technology SURG 1411	15.00
•	Television See Mass Com	munication
	Welding Except: WELD 2377	24.00

Private Instruction Fees	_		00.00
Applied Music 1/2 hour private instruction			
Applied Music 1 hour private instruction.			40.00
Testing Fees			
<u>Course</u> Nursing 1612 (Kermit) NLN Exams	No. Test	Cost per Test	<u>Total</u>
Nursing 1612 (Kermit) NLN Exams	2	8.00	16.00
Nursing 1613 (Kermit) NLN Exam	1	8.00	8.00
Nursing 1615 (Kermit) NLN Exams	3	8.00	24.00
Nursing 1630 NLN Exams			
Nursing 1851 NLN Exam			
Nursing 1933 NLN Exams			
Nursing 2535 NLN Exams			
Nursing 2953 NLN Exams			
Nursing 2954 NLN Exams	5	8.00	40.00
Respiratory Care (RESP 1333)			
Respiratory Care (RESP 2262)	1	60.00	60.00
Miscellaneous Fees			00.00
Advanced Standing Examination			
General Property Deposit (Refundable)	- Alan Dafundal		10.00
Student Identification Fee, Each Semeste			
Fire Academy (Equipment & Books-estim	ated)		
Law Enforcement Academy (Equip and B	ooks, estimated)	250.00
Nursing, LVN (Andrews Equipment Fee-N			
Nursing, LVN (Kermit Equipment Fee-NU			
Respiratory Care (Equipment Fee RESP			
Schedule Change Fee			5.00
Student Liability Insurance (Fall and Spri			
Student Liability Insurance (Summer I ar	id II)		6.00
Student Liability Insurance (Cosmetology			
Transcript Requested from OC, Official C			
Transcript Requested from Another Institu	ition	***************************************	5.00
Vehicle Registration (Fall Semester, Sp	rıng Semester)	*************************************	4.00
Vehicle Registration (Summer I, Summ	er II)	*************************************	1.00
*Student Liability Insurance or proof of co	mparable cover	age is required for studen	its enrolled in

Child Development, Clinical Laboratory Sciences, Emergency Medical Technology, Nursing, Radiologic Technology, Respiratory Care, Surgical Technology, Physical Therapist Assistant, and Student Trainer.

^{**}Vehicle registration fees are refundable only upon complete withdrawal during the scheduled withdrawal period and only upon return of the parking sticker.

Refund Policy

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

Class day means the day the session is designated to begin and each consecutive school day on which classes are held thereafter.

To have a refund authorized, a student must present a completed withdrawal request form to the Business Office. Refer to the section in the catalog or Student Handbook on "Withdrawal" for procedures.

Canceled classes: If a class is canceled by the college, all tuition and fees for that course will be refunded.

Dropped courses: Students who drop classes before the official day of record (12th class day during the fall and spring semesters and fourth class day during the summer) but remain enrolled at Odessa College will have 100 percent of applicable tuition and fees refunded, less a schedule change fee of \$5. Students who drop classes before the official day of record and are no longer enrolled at Odessa College will have tuition and fees refunded according to the percentages used when completely withdrawing from Odessa College.

Withdrawal from the college: Students who officially withdraw from Odessa College will have their tuition and mandatory fees refunded according to the following schedule:

Fall and Spring Semesters

Summer Semesters and Open-entry Classes When withdrawal occurs:

 Extension courses: Students enrolled in extension classes may be charged an additional fee, depending upon the course and center in which the class is held.

Payment by check: Positive identification (drivers license preferred) is required for any payment to Odessa College. Checks are accepted for the exact amount of tuition and fees only. All checks are to be payable to Odessa College. The college does not accept two-party checks or payroll checks.

Payment by credit card: The college will accept VISA, MasterCard, American Express and Discover for payment of tuition and fees with proper approval.

Returned check policy: Checks for tuition and fees returned by the bank for any reason constitute the student's automatic withdrawal from all classes, unless the tuition and fees are paid within five days of the date notification is mailed to the student. All returned checks are collected through Collectrite. A returned check fee of \$25 plus tax is charged per check by Collectrite. Odessa College reserves the right to require payment in cash from individuals with a history of returned checks. Stop payments will be considered the same as returned checks.

Schedule change fee: A schedule change fee of \$5 will be charged for all schedule changes made during the first 12 class days of a regular semester or during the first four class days of a summer session except for the following situations:

- a. When a change or drop constitutes a withdrawal from the college.
- b. When semester hours are only added to the existing schedule.
- c. When the change is for the convenience of the college or has been caused by a college-canceled class, change in class time, departmental request, etc.

All exceptions to the assessed schedule change fee will be made in the Registrar's Office. No schedule change will be processed until all fees associated with the change are paid.

Residence Status for Tuition Purposes

Assessment of tuition and fees for students is based on the residency classification of the student. At Odessa College, a student's residence status for tuition purposes will fall in one of four categories.

- In-district resident: Students who are 18 years or older must have been a resident of the state of Texas for 12. months prior to their enrollment, including six months as a resident in the Odessa Junior College District. In the case of students under 18 years, their parents must meet the above criteria.
- Out-of-district resident: Students 18
 years and older who have not lived
 within the Odessa Junior College
 District six months prior to registration,
 but who have been a resident of Texas
 at least 12 months prior to registration,
 are considered to be out-of-district
 students. In the case of students under
 18, their parents must meet the above
 criteria.
- 3. Out-of-state resident: United States citizens who are 18 years of age or older and who have not lived in Texas for at least 12 months prior to registration, are considered out-of-state residents. When students are under 18 years of age, their family's residence for the prior 12 months determines whether they are out-of-state residents.
- 4. Alien resident: A citizen of another country who is in the United States on a student visa other than an immigrant visa will be classified as an alien student.

Waiver of residence requirements:

Odessa College will waive the difference in the rate of tuition for resident and non-resident students and their dependents when those individuals own property, including land, homestead and property for business purposes, subject to ad valorem taxation. The student must present the Admissions Office with a certified copy of the warranty deed obtained from the Ector County Clerk's Office. This deed must show a record title of the Ector County property to be in the name of the student, spouse or parents, whichever is applicable.

The determination of a student's legal residence for purposes of establishing the appropriate tuition rates is made at Odessa College according to guidelines pursuant to Title 3, Texas Education Code: Rules and regulations for determining residence status, effective summer 1992. Students should be aware that these guidelines are subject to further revision.

Copies of these guidelines are available for inspection in the office of the Director of Admissions/Registrar. Questions or disputes regarding interpretation of these guidelines should be directed to this office.

Resident Classification: Student Responsibility

Students are responsible for registering under the proper residence classification. If there is any question regarding their right to classification as a resident of Texas, they should inquire at the registrar's office.

Students found to be non-residents will remain in that classification as long as they attend Odessa College or until they petition for and receive approval for change of status.

Students classified as a resident but who become non-residents at any time by virtue of a change of a legal residence by their own action or by the person controlling their domicile are required to notify the Registrar's Office.

Valedictorians

Valedictorians of Texas high schools are eligible for exemption from payment of tuition during both regular semesters at Odessa College following their graduation from high school. Since this is only a tuition exemption, valedictorians are encouraged to apply for other scholarships since their topranking status is certainly worthy of consideration for other awards.

Financial Aid

Odessa College is firmly committed to the philosophy of assisting those students who do not have the financial resources to pay for higher education but who wish to attend college. Of equal importance is the awarding of academic scholarships to recognize those students who exhibit superior scholastic abilities.

The financial aid office administers four broad program areas: grants, employment, scholarships and loans. An institutional application and a Free Application for Federal Student Aid (FAFSA) are required for all need-based financial aid programs; only an institutional application is required for scholarships. Both the institutional application and the FAFSA are available from the Odessa College Financial Aid Office. Most high school counselors also have the FAFSA.

When requesting information about financial aid programs, students should ask for an application packet and the Financial Aid Bulletin. The bulletin provides detailed information about aid programs, including general eligibility requirements and satisfactory academic progress.

Types of Student Financial Aid:

Grants

The Federal Pell Grant Program provides the foundation of student financial aid and thus serves as the starting point in the aid process. A number of factors including a student's range of eligibility, cost of education and enrollment status determine the award. Pell Grants are awarded in three student-load categories: (1) enrollment in 12 or more semester hours for a full-time award; (2) enrollment in nine to 11 semester hours for three-fourths of a full-time award; and (3) enrollment in six to eight semester hours for one-half of a full-time award.

Application for a Pell Grant is made by completing a FAFSA and entering the correct response on the form which will initiate application of a Pell Grant and the programs described below.

Students will receive a Student Aid Report (SAR) from the Pell Grant Processing Center as a result of their application. All copies of the SAR should be submitted to the Financial Aid Office as soon as they are received to expedite processing of the award.

The Federal Supplemental Educational Opportunity Grant (SEOG) is for students with high financial need and is usually combined with other forms of assistance to help students meet their cost of education. Application is made by completing a FAFSA.

The Texas Public Education Grant (TPEG) is also for students with financial need and is designed to assist students in enrolling and remaining in college. The FAFSA serves as the application.

The State Student Incentive Grant (SSIG) is a combination Texas-federal grant for students with financial need. The FAFSA serves as the application.

Loans

The Federal Family Education Loan Program (FFELP) (formerly Texas Guaranteed Student Loan Program) is a long-term loan program which allows a student to borrow directly from a bank, savings and loan, credit union or other lending institution. Since not all financial institutions participate in the program, students may not be able to use their regular banking institution. The Financial Aid Office will assist in trying to locate a lender if the student is unable to find one.

The higher education amendments of 1986 have changed many aspects of this program. Application requirements now include a FAFSA and an institutional aid application since the FFELP is now completely need-based. This program is fully described in the Financial Aid Bulletin.

The Unsubsidized Federal Stafford Loan Program is intended to provide loans to those students who do not qualify for a subsidized Federal Stafford Loan or who qualify for a subsidized Federal Stafford Loan in an amount less than the annual Federal Stafford limit.

The application procedure is the same as for the Federal Stafford Loan Program.

For independent students who cannot qualify for a Stafford Loan there is a non-subsidized loan program called the SLS or Supplemental Loan for Students. A student must complete the FAFSA and all aspects of the financial aid process. The interest rate is variable, subject to change annually and it is not paid by the government. A student is deferred as long as he or she is in school, but payments are due during summer months. Beginning January 1, 1991, first installments of Stafford Loans and the SLS must be delayed 30 days for first-time, first-year undergraduate students.

Dependent students who cannot qualify for a Stafford Loan may have their parents borrow for them under the PLUS program. It is not subsidized, the interest rate is variable and monthly payments must begin 60 days after disbursement. Parents do not have to fill out the FAFSA.

Short-term institutional loans are made by Odessa College to assist students with registration costs. A student attempting to enroll at Odessa College is eligible to apply if the student does not have an existing short-term loan. The amount of the loan is for tuition and fees for the current semester. These loans are processed on a first-come, first-served basis. Book loans are not available.

Campus Employment

The Federal College Work-Study Program (FCWS) provides employment opportunities to students who have established financial need. Students work in a wide variety of jobs compatible with their interests and abilities and are paid at least the prevailing minimum wage. Although need determines the amount of total allowable earnings, students generally do not work over 20 hours per week and arrange their working hours so as not to conflict with classes. Application for the program is made by completing a FAFSA.

The Texas College Work Study
Program provides employment
opportunities to students who have
established financial need. Funds are limited
and athletes are not eligible for the program.
Application for the program is made by
completing the FAFSA.

Non-Work-Study Jobs are available in some departments. These part-time jobs are not need related and the employing department has considerable flexibility in meeting employment needs. Applications may be made to the department in which the student is interested in working.

Scholarships

Odessa College academic scholarships are offered annually to recognize scholastic merit. The Career Advancement Scholarship has been established to encourage students to pursue career goals and although academic performance is part of the selection criteria, recipients need not be a high ranking honor student to receive the award. Need is not considered for either scholarship.

Application should be made to the financial aid office.

Departmental scholarships are offered each year through the art, music and speech (forensics) departments and are based upon performance, merit, skill and ability. Specific information and application requirements may be obtained by contacting the particular department chair of the scholarship area in which the student is interested.

The Noel Scholarship is available to students through generous gifts from Ellen and the late Bill Noel. The award is restricted to children of employees of Rexene Corporation in amounts intended to cover tuition, fees and books.

The Permian Honor Scholarship Foundation invites graduating high school seniors who rank in the top 25 percent of their class to apply for a Permian Honor Scholarship. If selected, a student is granted \$250 per semester for eight consecutive. full-time semesters; four semesters are applicable at Odessa College while the remaining four semesters are available at the University of Texas of the Permian Basin. Students must complete each semester with a minimum of 12 credit hours and with a 2.50 grade point average to maintain their eligibility. Applications are available from the foundation or from area high school counselors.

Other scholarships

In addition to the scholarships described on the previous page are also available to students attending Odessa College. Many individuals and organizations cooperate with Odessa College in their search for scholarship recipients. These awards are not controlled by, nor are selections made by the college, but every attempt is made to provide applications to these parties within the framework of applicable restrictions. Since some organizations do not contribute annually and other contributors are not known at print time, it is not possible to catalog and list each donor.

Veterans

Veterans interested in taking advantage of their benefits to pursue or further their education are encouraged to contact the Veteran's Officer at Odessa College. As with the other programs described above, students are strongly encouraged to inquire into the possible benefits of the Veterans Administration as far in advance of the semester of planned attendance as possible. This procedure facilitates the coordination of educational claims for benefits between Odessa College and the regional VA office and avoids delays that could occur in the award cycle. The veterans office is a component of the Financial Aid Office located in Room 203 of the Student Union Building. Veteran students are responsible for following all regulations of the VA and for notifying both the regional VA office in Waco and the Odessa College veterans office of any change in enrollment that may affect their educational benefits.



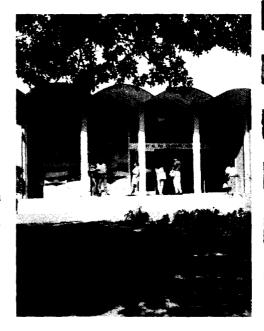
Academic Guidelines

That all students receive the best education possible is the primary goal of Odessa College. Whether they intend to transfer to other institutions after completing their studies at Odessa College or whether they intend to put their learning to immediate use in the job market, students are assured that they will obtain quality education at Odessa College. They will receive an education that will be meaningful in all areas of their lives.

Academic needs of all students are important at Odessa College. Programs have been initiated for students who need basic instruction to raise their proficiency in a particular subject area. Similarly, special programs are offered for students who excel. The college has well-equipped facilities for its reading and writing laboratories, its computer-assisted instruction center and its health sciences learning center. In addition, laboratories to assist in instruction in physical and natural science are provided. Also on an individualized basis, personal development courses are available. But perhaps the most important factor of all is a concerned faculty and staff who want to help students succeed. As a result, Odessa College practices its belief that quality instruction and academic excellence must not be compromised.

University-parallel programs at Odessa College focus on academic excellence. Students who intend to transfer from Odessa College to other institutions build solid foundations for their educational pursuits. More often than not, their performance on the senior college level equals or surpasses that of those students who attend their selected senior college or university beginning with the freshman year.

Technical programs at Odessa College educate students who, upon completion, will then exhibit outstanding proficiency with onthe-job skills. Program directors, supervisors and faculty work closely with advisory committees from business and industry to assure that students learn the skills they will need on the job. As a result, students who complete these programs receive both practical education and professional skills that contribute to their success in their respective careers.



To make college instruction even more accessible to more people, some programs offer open-entry classes. This procedure allows students to enroll in some courses at almost any time during a long semester rather than having to wait until a regular term begins. In addition, innovative instructional approaches and scheduling in some departments allow students to complete a three-semester-hour course in some subjects in only eight weeks. The instructional staff at Odessa College constantly searches for ways to better serve students without compromising instructional quality.

All instructional programs are reinforced by strong support services. A Learning Resources Center, which houses the library, provides rich resources to supplement classroom instruction. Faculty members also use the Learning Resources Center and the instructional media program to enrich their accumulated resources and to enhance their proven teaching methods.

Learning Resources Center

The essential objective of the Murry H. Fly Learning Resources Center (LRC) is to support and enhance curriculum programs and classroom research needs. Utilizing the concept of an independent learning laboratory and classroom adjunct, the LRC proves a wide assortment of services and resources of more than 70,000 books, 525 current periodicals, 10 daily or weekly state and national newspapers and 4,000 audiovisual holdings. In addition, numerous multimedia and computer-assisted instructional programs are available for particular disciplines, as well as extensive files of thousands of pamphlets, articles, reprints, etc. of information not otherwise accessible. The technical services department works closely with the faculty and staff in selecting and acquiring books and audiovisual materials to serve the instructional and support programs of the college.

Access to information on the LRC's circulating collection is available on an online catalog along with other information sources. The campus also uses the on-line catalog for access to Internet, the nation's information highway. Use of the system is available both on campus and at extension sites. Additionally, computer technology is used for several reference tools such as Expanded Academic Index, Health Reference Center on CD-ROM, MLA, StatBank, World Book and Grolier's Electronic Encyclopedia. A specialized resource, Newsbank, a monthly compilation by subject of data from more than 2,000 U.S. and Canadian newspapers and journals, also is available. A comprehensive collection of U.S. college catalogs is also maintained. Several microcomputers with printers are available for use with an extensive software collection containing the more popular word processing, database management and spreadsheet systems.

To further enhance readily available resources, the LRC contracts with a national database vendor for direct access to over 80 major educational-industrial commercial databases holding in excess of 50 million records. A reference interview is required to determine actual needs. The Public Services Department provides both general and



specific instruction in the effective use of the LRC. Classroom instruction is also available upon request. The Media/Computer Services Department provides viewing areas and assistance with all media formats. General classroom instruction efforts are assisted by scheduled delivery/pickup and maintenance of equipment. Suggestions and comments regarding materials or services are continually and seriously invited.

Instructional Television

Telecourses, college-credit classes taught with the aid of television, are offered throughout the year. Courses offered vary each semester and are applicable toward several degree plans. All telecourses are identified in class schedules published each semester.

For those students who have work schedules that conflict with on-campus instructional times or who have difficulty commuting to campus, telecourses provide the opportunity to select a class time compatible with almost everyone's obligations. While telecourses are more convenient than on-campus classes, they are not easier than on-campus classes.

Telecourses combine televised lessons with related reading and writing assignments in addition to on-campus sessions for orientation, review and examination.

All course components are supervised by a faculty member available to students by telephone during predetermined hours.

KOCV-TV/Channel 36, a member of the Public Broadcasting Service, broadcasts individual lessons at least once during the week and again on weekends. Typically there are 30 one-half hour tapes in a course. KOCV's signal can be received in an approximate 30-mile radius of Odessa. Cable companies in Andrews, Crane, Midland, Monahans, Odessa, Stanton and other surrounding communities also carry the signal. Copies of all the telecourse videotapes are available in the Learning Resources Center for students who miss a broadcast.

Students may register for the telecourses during all regularly scheduled registration periods both on campus and at all off-campus registration sites. Tuition and fees for telecourses are the same as for oncampus instruction.

Course Load

The normal course load that full-time students may carry during a regular semester will vary with the particular courses for which they have enrolled. Students are classified as full-time when they are enrolled in 12 or more semester hours, but students will normally enroll in 15 to 18 hours each semester as outlined in their course of study or degree plan. Students will not be permitted to take more than six courses of three or more semester hours in one semester without written approval from the Registrar's Office unless a particular course of study for an associate's degree, a Certificate of Technology, or a Certificate of Completion specifies a total semester-hour load exceeding 18 hours.

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 sessions is 14 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 students enrolled in evening classes depends on individual circumstances and ability of the students. The normal load for evening students who have full-time employment is six semester hours or two courses.

Students who are employed while attending classes or who have experienced difficulty previously in academic work should plan course loads in such a way that ample time can be given to all these demands. Usually, three hours of preparation time are needed for each hour of classroom time. Therefore, an average student should plan on investing nine hours of preparation time outside of class each week for each three-hour course taken. Students are encouraged to consult a college counselor or faculty advisor to determine the best program possible.

Open-entry/Open-exit Program

Open-entry/open-exit classes are available in Cosmetology. This area of instruction features continuous registration and admissions throughout the school year. This intensive program is designed to fit the individual needs of persons interested in learning a new skill or updating existing ones as quickly as possible.

A special advantage of this program is that students may register at any time and may begin classes immediately instead of waiting for the beginning of a term or semester. Skilled instructors who have many years of professional experience in their teaching field closely supervise students in their classes.

Information about this open-entry/openexit program is available from the specific program director, the Counseling Center, the Admissions Office or the News and Information Office.

Flexible-entry Opportunities

Flexible-entry classes are also offered in the following academic and occupational programs: Emergency Medical Technology, English, Mathematics, Office Systems Technology, Automotive Technology, Photography, Reading, and Refrigeration/Air Conditioning. Students may register for these classes at various times during the semester. The program director or the Admissions Office should be contacted for information.

Student Classification

Students who have completed 29 semester hours or fewer will be classified as freshmen. Students with more than 29 semester hours will be classified as sophomores.

Students will be classified as full-time if they are enrolled in 12 or more semester hours. Students enrolled in fewer than 12 hours will be classified as part-time.

Grades

Grading measures the ability of students to master specific objectives within a given course. A grade is based upon the level of performance in examinations, term papers, reports, class discussion and the final examination in the course or project. Odessa College uses the following grade and grade point system:

Grade

		Points
		Per
		Semester
<u>Grade</u>	<u>Description</u>	<u>Hour</u>
Α	Excellent	4
В	Above average	3
Č	Average	
_		
D	Passing, but poor	1
1	Incomplete	
	(will be calculated as	
	an F for GPA)	0
Р	In progress/	
Г		•
_	grade not reported	0
Z	No grade assessed;	
	requires re-enrollment	t0
F	Failure	
N	Audit	
14		•
	(not taken for credit)	
W	Official withdrawal	0
S	Advanced Standing	
_	(credit by examination) O
т	Transfer credit	
ı	Hansler Credit	U

Note: If a course is repeated, the latest grade will be computed in the GPA if the student requests this option in the Registrar's Office. Some schools to which the student might transfer may not exclude the first grade when calculating the student's GPA.

Students are obligated to know their standing and rating in college classes during the semester and to secure these ratings before registering for the next semester. Students are expected to be familiar with their scholastic status at all times. Advisors and counselors are available and will confer with students during and at the end of the semester concerning unsatisfactory work. Such conferences should help determine the cause of unsatisfactory work, and the counseling staff will advise students on ways to improve their performance and will offer any assistance which the faculty and staff can provide.

Grade Point Average and Semester Hours

There are two bases for computing the grade point average (GPA): the semester grade point average and the cumulative grade point average. The GPA 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 attempted for that period. Incomplete grades are included in calculations of grade averages as an "F" when the final grades for that semester have been recorded. When the course is completed and a grade is assigned by the instructor, the grade point average is correspondingly recalculated. Grades of "W" are not included in the GPA calculation.

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 semesters.

Scholastic Standards

Odessa College is dedicated to providing students with opportunities for success in their course work and with support services. The college recognizes, however, that some students may encounter scholastic difficulties. Consequently, the college has designed a system of scholastic probation and scholastic suspension to identify students with scholastic problems and to provide a mechanism to aid them in recognizing and solving such problems.

All Odessa College degree and certificate plans require that students have a GPA of 2.0 or higher for graduation; therefore, students are considered to be in good standing as long as they maintain a GPA of 2.0 or higher on a semester or cumulative basis.

Scholastic Probation

At the end of each long semester, academic records of all students will be evaluated according to the following criteria:

- The grade point average for the semester will be computed. If the GPA is 2.0 or higher, the student is considered to be in good standing.
- If the GPA is less than 2.0, the cumulative GPA will be examined. If the cumulative GPA is 2.0 or higher, the student is still considered to be in good standing. If the cumulative GPA is less than 2.0, the student will be put on scholastic probation.

Scholastic probation warns students that they need to pay careful attention to academic progress. They will be given the opportunity to take advantage of special study-skills counseling through the Odessa College Counseling Center and appropriate assistance from the Developmental Studies Department.

Removal from Scholastic Probation

Students on scholastic probation return to good standing status by earning a GPA of 2.0 or higher the next long semester of enrollment at Odessa College or by having a cumulative GPA of 2.0 or higher at the end of the next semester. A GPA of 2.0 for either the semester or on a cumulative basis will remove students from scholastic probation.

Scholastic Suspension

Students who are on scholastic probation and who do not earn a GPA of 2.0 for the next long semester of enrollment at Odessa College or who do not earn a cumulative GPA of 2.0 by the end of the semester will be placed on scholastic suspension. Students in this category will not be allowed to enroll at Odessa College the next long semester.

Appeal of Scholastic Suspension

Students placed on scholastic suspension may appeal their status to the Director of Admissions. Extenuating circumstances may allow such students to enroll under continued scholastic probation with specified conditions. Students not in good standing at the end of the continued probation semester must withdraw for the next long semester.

Enrollment After Scholastic Suspension

Students who serve the designated semester of scholastic suspension may enroll for the next long semester. They are, however, still on scholastic probation. At the end of the semester, their GPA will be examined both on a semester and a cumulative basis to determine whether they have returned to good standing.

If their GPA meets minimum requirements, students may continue to enroll without special conditions. If, however, students do not meet minimum GPA requirements, they will again be placed on scholastic suspension. When scholastic suspension occurs a second time, the period of enforced withdrawal will be two long semesters. Following a two-semester enforced withdrawal, students must make a request in writing to the Director of Admissions for readmission on scholastic probation.

Special Conditions

Students on scholastic probation who enroll in summer school at Odessa College will not have their academic status altered as a result of summer school grades. Students on scholastic suspension who enroll in summer school at Odessa College, who earn a summer GPA of 2.0 or higher

and who pass a minimum of nine semester hours for both sessions may petition the Director of Admissions for permission to enroll for the fall semester on a continued scholastic probation basis.

Transfer students who are on scholastic probation or the equivalent from the last institution attended and who apply for admission to Odessa College will be required to submit an official transcript for evaluation by the Director of Admissions. Students who would be eligible to enroll according to Odessa College standards will be admitted and enrolled on scholastic probation for the first semester. Their future academic standing will be determined in the same manner as for other Odessa College students.

Repetition of Courses

All courses, including repeated courses, in which a student is registered on the official day of record will be listed on the official transcript and will appear on the student's permanent academic record. If a course is repeated, the last grade earned will be the grade calculated in the cumulative grade point average when requested by the student in the Registrar's Office. Withdrawals and incompletes, however, may not be used to replace an earned grade. This is not an automatic process. A student must request the change to be made in the Registrar's Office.

Incomplete Grades

The conditional grade of "I" means that students have not completed required work for a course, except in flexible entry classes. The grade may not be given unless students (1) have passed all work completed and (2) have completed a minimum of three-fourths of the required course work.

An "I" grade will not be assigned until conditions for completion of the course work are agreed upon by both the instructor and the student. Whenever possible, such an agreement should be in writing and should be signed by both the instructor and the student. The final decision as to whether a grade of "I" will be assigned rests with the instructor. When an "I" grade is assigned, incomplete work must be completed in the long semester immediately following the one in which the grade was assigned.

Grade Changes

All grade changes must be made by the end of the long semester following the one in which the original grade was assigned. For example, student requests for change of grade to "W" for an "F" received in the fall semester must make the request during the spring semester immediately following. Students wanting a grade change in a course taken during a summer session have until the end of the fall semester to effect the change. Any "I" grade not completed by the student and not changed by the instructor within the one-semester time limit will be computed as an "F" for grade point average purposes. Although an "I" is computed as an "F", the "I" remains on the student's record until the instructor completes a grade change. All grade changes are at the discretion of the instructor or, if the instructor is no longer available, the department chair.

Students are not routinely notified by the college when a grade change has been processed. Students should contact the instructor for the information or should request a new copy of their college transcript.

Withdrawal

So that all records are left in proper order, students who leave Odessa College before the end of a semester or before the end of a class for which they are registered must follow the official withdrawal procedure, which students themselves initiate in the Registrar's Office. Students who wish to withdraw should appear in person unless there are extenuating circumstances. When an individual other than the student initiates a withdrawal, that individual must be identified and verified for the student's protection. Students who stop attending class without officially dropping will receive an "F" in the class for the semester.

Students who drop classes or withdraw prior to the official census day for the semester will not be assigned a grade for the class or classes dropped. No record of the class will appear on their permanent academic records.

Grades of "W" will be assigned to all students who withdraw or drop semester-length classes during the official withdrawal period of any semester. Students who withdraw or drop classes will be responsible for contacting their instructors as a routine

part of the withdrawal process. The instructor will assign a grade of "W" and sign the withdrawal form. Students will then return the form to the Registrar's Office. A grade of "W" is assigned through the official withdrawal period for any semester.

The college reserves the right to withdraw students from any one or all of their classes if, in the judgment of college officials, such withdrawal is in the best interests of the students or the student body.

Class Attendance

Students are expected regularly to attend all classes in which they are enrolled. Records of student absences are kept by instructors; when students are absent from class, they are responsible for consulting with the instructor regarding the absence.

Students who plan to be absent to observe religious holy days must submit such notification in writing in person to the instructor of each class. Each instructor will date and sign an acknowledgment of receipt of the notification. The procedure may be handled in writing, in person or by certified mail with return receipt requested. Such notification to instructors must be made no later than the 15th day after the first day of the semester in which the absence is expected to occur. Within a reasonable time after students return to class following observance of religious holy days, they will be allowed to make-up examinations or to complete assignments scheduled during their absence.

Schedule Changes

At the beginning of each semester, the college designates a time for students to change their schedules by adding and/or dropping classes. These dates and times are specified in the class schedule for the semester. A schedule change fee of \$5 will be charged for all changes except those caused by the college or those in which a student is only adding hours to the existing schedule.

Advanced Standing and Credit by Examination

Odessa College is an open testing center for College Level Examination Program (CLEP) and will administer those examinations to anyone making application, subject only to restrictions established by the Educational Testing Service and the College Entrance Examination Board. Advanced standing and/or credit may be awarded in some areas by Advanced Placement (AP) exams taken at the high school level. Departmental examinations are administered in most areas in which CLEP examinations are not used at Odessa College. Specific information about CLEP examinations may be obtained in the Testing Center. Department chairs should be contacted regarding applications for advanced standing examinations, credit by departmental exam, or advanced standing and/or credit through AP exams.

Odessa College will accept a total of 15 semester hours of advanced standing credit awarded either by the College Level Examination Program subject examinations, through credit awarded through Advanced Placement (AP) exams, or by approved Odessa College departmental examinations (exceptions for additional hours may be granted in some specialized programs such as law enforcement, nursing, and cosmetology or special circumstances which have been approved by the appropriate Division Dean). Students must complete in residence credits equal to the number received by examination before credit by CLEP, AP, or departmental examination will be noted on the student's permanent record card (exceptions may be granted in law enforcement or special circumstances which have been approved by the appropriate division dean).

Students who do not pass a departmental advanced standing examination may retake the test after a period of six months has elapsed, but they must receive permission from the respective department chair in order to do so. No departmental examination may be repeated more than once.

Students who receive advanced standing credit in a course may not apply for advanced standing in prerequisite courses or courses otherwise considered lower in level than the one for which they currently have credit or are currently enrolled. Exceptions would be approved by the respective division dean.

Examinees should check with senior institutions of their choice concerning the acceptance of credit earned by advanced standing examinations. Transcripts will record credit given by examination but will not list a specific grade. Hours earned by examination will not be included in computing grade point averages, scholastic hours, residence requirements for graduation, or credit load requirements for Social Security or Veterans Administration benefits.

Concurrent Enrollment

In the concurrent enrollment program, high school students may earn both credit for a high school course and college credit for enrollment in a college course. For example, a high school student might enroll in an approved history course at Odessa College, attend only the college history course and be granted credit at both the high school and college levels.

To participate in the program, high school students must have the approval of their principal. Students must have or exceed an overall grade point average of 3.0 in the semester immediately preceding enrollment in a college course or have scored at or above the 90th percentile on the achievement subtest in the content area for which the students wish to enroll.

Any high school student wishing to participate in the concurrent enrollment program must apply to his or her high school counselor who will determine the student's eligibility for the program and the course load.

The high school counselor will work with the Odessa College director of admissions to ensure the availability of courses. In addition, the high school counselor will coordinate the student's concurrent schedules.

Concurrent enrollment students must submit to Odessa College the prescribed documentation signed by a parent or guardian, their high school counselor and the high school principal. The concurrent enrollment program has special regulations, and students participating in the concurrent enrollment program are responsible for following those regulations.

Further information on the concurrent enrollment program is available from the Odessa College admissions office and the high school counselors.

Early Admissions Program

The Early Admissions Program enables high school seniors to enroll simultaneously 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, high school seniors must be within four units or 12 quarter credits of graduation and have the recommendation of their high school counselor, their high school principal and the approval of their parents. They may then enroll in the regular manner at Odessa College.

Students in the Early Admissions Program may enroll in as many as two courses each semester. They will be expected to adhere to all policies of the college as well as those of their respective high school while in the program.

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 Director of Admissions or from
counselors at participating high schools.

Honor Roll

Students enrolled in 12 semester hours or more during a long semester and making a grade of "A" in all courses are listed on the Summa Cum Laude Honor Roll. Full-time students who make no grade lower than "B" are listed on the 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 students enrolled in two or more courses totaling six semester hours or more with no grade lower than "B" are listed on the Part-time Cum Laude Honor Roll.

Graduation Requirements

Students completing degree requirements during the summer or in December are encouraged to participate in spring graduation ceremonies. Students who complete requirements at the end of the spring semester will be expected to participate unless unusual circumstances prevent such participation.

To receive an associate's degree from Odessa College, students must complete degree requirements as set forth in the catalog and complete a degree application in the Registrar's Office by the deadline specified in the official college calendar. Summer graduates should observe the deadline for fall graduates.

Odessa College does not charge a graduation participation fee or a diploma fee. The cost for these items is paid by the college. Fees for caps and gowns and invitations are paid by students.

Graduation with Honors

A candidate for the associate's degree who has completed at least 30 semester hours in residence at Odessa College will be eligible for graduation with honors. A student with a grade point average of 3.5 to 3.699 will be graduated cum laude, a student with a grade point average of 3.7 to 3.899 will be graduated magna cum laude, and a student with a grade point average of 3.99 to 4.0 will be graduated summa cum laude.

Transcript of Record

The transcript of record is an official copy of the student's permanent record. Copies will be supplied upon written request. Students may instruct the registrar's office to mail official transcripts to colleges or universities to which they are applying or to prospective employers, etc. The first copy of a transcript is provided at no cost. A charge of \$1 will be made for all subsequent copies.

To protect student records, Odessa College adheres to the conditions by which information about students can be released as set forth in The Family Educational Rights and Privacy Act of 1974, as amended.

Military Experience

Odessa College does not routinely give academic credit for military experience. If individuals have acquired skills normally learned in a course or in courses in their degree plan, they are encouraged to utilize the credit by examination option. Odessa College does award credit for physical education activity courses when a DD-214 is properly submitted to the Registrar's Office.

Students who have passed military CLEP examinations may have those results evaluated as if the testing were done under Odessa College guidelines. Credit will be awarded only if credit would be awarded on the basis of examinations taken at Odessa College.

If military credit has been awarded on an official transfer transcript from an institution accredited by the appropriate regional accrediting association, that credit will be evaluated in the same manner as any other transfer work.

Transfer Credit from Another Institution

Previous course work satisfactorily completed at regionally accredited institutions of higher education will be evaluated for transfer and may be applied toward a degree program at Odessa College.

A transcript will be evaluated after a student has registered for Odessa College credit classes and it will be evaluated only upon the request of the student. An official transcript is required from each college attended. The request for an evaluation should be made through the Registrar's Office, Room 202 of the Student Union Building.

When the evaluation is complete, the number of transferred hours will be recorded for degree audit purposes only and will be posted to the Odessa College transcript at graduation when the student has satisfied all degree requirements. Only those transfer courses accepted and listed on the student's degree plan will be posted to the Odessa College transcript.

If Odessa College does not accept lower division, academic course credit earned by a student at another Texas public institution of higher education, Odessa College shall give written notice to the student and the other institution that the transfer of the academic course credit is denied. The two institutions and the student

shall attempt to resolve the transfer of the academic course credit in accordance with Texas High Education Coordinating Board rules and/or guidelines. If the transfer dispute is not resolved to the satisfaction of the student or the institution at which the credit was earned within 45 days after the date the student received written notice of the denial, the party who is not satisfied shall notify the Commissioner of Higher Education or the commissioner's designee, who shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the dtermination to the involved student and institutions. Students shall be aware that this provision was intended to apply to general academic courses such as English, biology, history, government, math and other such courses intended for transfer among Texas public institutions of higher education and may not apply to occupational or technical courses which often vary greatly in content.

Transfer to Another Institution

Courses taken at Odessa College normally transfer to all other accredited institutions at face value. Grades earned at one college cannot be lowered by another college or university. However, courses taken that are not required for graduation at the senior college or university will not apply and therefore should not be taken at this institution. Before registering, students should contact a counselor or advisor at Odessa College for maximum assistance in planning a program.

Senior colleges vary in their recognition of a grade of "D" in a course. Some senior institutions accept a grade of "D" 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 enrolling at Odessa College, or before if possible, students should select the senior institution to which they want to transfer after leaving Odessa College. They should become familiar with transfer requirements by contacting the senior institution and then design a suitable course of study to follow while at Odessa College. Counselors and advisors will assist.

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

When students at Odessa College transfer to another institution, no transcripts will be released until all records at Odessa College have been cleared.

If another Texas public institution of higher education does not accept lower division, academic course credit earned by a student at Odessa College, that institution is obligated by the Texas Higher Education Coordinating Board to give written notice to the student and Odessa College that the transfer of the academic course credit is denied. The two institutions and the student shall attempt to resolve the transfer of the academic course credit in accordance with Texas Higher Education Coordinating Board rules and/or guidelines. If the transfer dispute is not resolved to the satisfaction of the student or Odessa College within 45 days after the date the student received written notice of the denial, the party or parties who is/are not satisfied shall notify the Commissioner of Higher Education or the commissioner's designee who shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions. Students should be aware that this provision was intended to apply to general academic courses such as English, biology, history, government, math and other such courses intended for transfer among Texas public institutions of high education and may not apply to occupational or technical courses which often vary greatly in content.

Technical Programs

Odessa College offers a wide variety of technical 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 were established only after studies verified that employment opportunities will exist at the time students complete the program. The community's manpower requirements are matched with the ambitions and goals of the student. This realistic approach to technical education is

made possible by the excellent cooperation of local industry, businesses and public agencies that look to the community colleges for skilled personnel.

Odessa College maintains continuous liaison with prospective employers to assist in placement of graduates and to keep programs up-to-date with current job requirements. Essential occupational skills are taught in these classes by faculty who have years of working experience, as well as appropriate academic credentials.

Based on community studies that identify additional occupational needs that can be met by Odessa College, recommendations for adding new programs to the college offerings will be made periodically.

Technical courses carry college credit leading to an Associate in Applied Science degree, a Certificate of Technology or a Certificate of Completion.

Tech-Prep Program

Odessa College is an active participant in Tech-Prep activities at the national, state and local levels. Designed primarily to insure that high school students are prepared to meet the challenges of today's technology in the work environment, Tech-Prep programs offer students the work place skills and technical training to place them into good jobs in their selected field or to go on to additional education.

Local public schools and Odessa
College work closely together in Tech-Prep
programs to be sure that students are
prepared for high level classes and to be
certain that students do not have to repeat
work they have mastered in high school
when they enter college. OC awards college
credit to Tech-Prep students for courses
(approved in each program) they have taken
in high school.

Approved Tech-Prep programs are available in the following areas: Law Enforcement, Nursing and Office Systems Technology. Other programs are being developed. Students who are interested in Tech-Prep programs should contact their high school counselor or a counselor at Odessa College for more information.

Articulation

An articulation agreement between Odessa College and the Ector County Independent School District provides the opportunity for advanced placement in Odessa College for Ector County Independent School District students enrolled in technical programs offered at Odessa College.

This agreement permits students to move directly into advanced courses upon presentation of evidence of skill mastery determined by appropriate documentation.

Information regarding the articulation policy can be obtained from the Odessa College Admissions Office, Odessa College counselors or Ector County Independent School District high school counselors.

Developmental Studies

Many students enter Odessa College lacking some of the basic skills necessary for college level reading, writing and mathematics. The Developmental Studies Program offers courses and activities designed to help students overcome such deficiencies.

To discover the level of his or her abilities, the student may go the Testing Center where diagnostic and placement tests are used to identify which basic skills the student needs to acquire and determine which courses he or she needs to take.

Developmental Studies courses and activities are available in basic English, basic mathematics, reading and study skills improvement. All courses listed in this program grant from one to three credit hours, but these credit hours do not satisfy the requirements of any degree plan at Odessa College, nor will they transfer to another college or university.

In addition to the courses offered, the program maintains a Tutoring Center where any student can receive assistance with course work or skill development from either a more advanced fellow student or an instructor. The student who needs help with coursework or study skills should come to the center and request assistance at any time it is open. The Tutoring Center is located in the Electronics Technology Building, Room 120.

Evening Classes

Evening classes represent an extension of curricula offered during the day and are an integral part of the total educational program. Primarily, evening courses accommodate those individuals of the community who want to carry less than a full college course load because they are employed full-time during the day. A wide variety of courses is offered for those individuals who want to broaden their educational backgrounds.

Students may complete requirements for an associate's 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.

<u>Summer Session</u>

The summer session consists of two terms of 5-1/2 weeks each, although some programs may have courses that are shorter or longer, depending upon the need. Classes are held Monday through Thursday, both during day and evening hours. Students may enroll in as many as seven semester hours in each 5-1/2 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.

Midwinter Session

Odessa College offers a special shortterm session to accommodate students who want to complete a course during the interim period between regularly-scheduled semesters. A midwinter interim session is held following the end 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.

Radio and Television Stations

Odessa College owns and operates both a public FM radio station and a public television station. KOCV-FM, 91.3, has been on the air since 1963 and serves not only as an alternative listening source for area residents but also is used to train students in the radio field. Since 1989 KOCV-FM has been affiliated with the Nation Public Radio network. KOCV-TV, Channel 36, is the public television station for the Permian Basin and has been on the air since March 1986.

Continuing Education

Odessa College offers a wide variety of short-term, non-credit courses for members of the community who want to broaden their educational experiences but who are not interested in obtaining college credit. These courses may range from a one-day workshop to a full nine-month program, but typically their duration is shorter than the regular semester. Many professionals do obtain continuing education units (CEUs) through the program for certification and recertification requirements.

Non-credit short courses, seminars, teleconferences and workshops offer a wide range of activities intended to accommodate individuals of all ages. During the year, Odessa College will plan credit-free courses, seminars, teleconferences and workshops in cooperation with business, industry, individuals and organizations in the community. There are no entrance requirements for most continuing education courses; any individual who can profit from them may enroll. Extension classes in area cities also are offered.

Almost any course that is of public interest can be organized if enough students ask to be enrolled, provided that a competent instructor and suitable facilities are available. A schedule of adult vocational and community service courses may be obtained from the Continuing Education Office, the drive-through registration booth, or the News and Information Office.

Business Training Center

Continuing Education's Business
Training Center opened in 1989 to provide
customized programs and serves as a
resource and referral service to the Permian
Basin's business community. The center's
staff designs courses for companies with
specific instructional needs and uses college
faculty and staff, as well as experts from the
community, to conduct the sessions. The
center is located on the Odessa College
campus.

Business Incubator

The Odessa College Business Incubator, located at Noel Center in downtown Odessa, opened in November 1990. Designed to help small businesses in their start-up phase, the incubator is a

flexible program meant to encourage the businesses' development and the enhancement of the local economy by diversifying and broadening the business base. Small Business Administration loan counseling is also available.

In general, incubators are facilities in which a number of new and growing businesses operate under one roof with affordable rents, on-site business counseling and advisement, shared services and equipment, and access to a wide range of professional, technical and financial programs.

As businesses mature and become profitable, they move into private sector facilities that they lease or purchase on the open market. The time limit set for tenant occupancy in the OC Business Incubator is generally three years.

The mission of the OC incubator is: to stimulate creation of jobs and to help in retaining area employment opportunities by providing an environment conducive to the start up and growth of small businesses; to provide essential skills to incubator tenants to increase their potential for success; and to realize a return on the college's investment through jobs, diversification of the local economy, increased student enrollment, an expanded tax base and new opportunities for business investment.

Those interested in learning more about the OC Business Incubator are invited to call the Incubator Manager at 333-7409 or come by 619 N. Grant Avenue for a tour.

Community Recreation

Odessa College has developed a community recreation program designed to serve all area citizens, from children through senior citizens. Participants are categorized by age groups. The program includes special classes in tennis, gymnastics, exercise, aerobics, dance and jogging. The college also conducts a series of summer camp programs.

Adult Basic Education

Odessa College offers basic education classes for adults who have not completed high school. Classes range from level one instruction to teach adults to read and write to classes that prepare adults to successfully complete the state-administered high school equivalency General Education Development (GED) test. Classes are free, and textbooks are provided. During a typical school year, enrollment in Adult Basic Education classes averages 2,500 students.

The five major subject areas are math, English, social studies, natural science and writing (literature and the arts). Life skills and functional skills relating to careers and personal development also are available. Morning, afternoon and evening classes are available at the Noel Adult Learning Center, 619 N. Grant Ave.; and afternoon and evening classes are available at numerous sites in Odessa. Adult Basic Education classes are sponsored not only in Ector County but also in Andrews, Brewster, Culberson, Jeff Davis, Pecos, Presidio, Reeves, Terrell, Ward and Winkler counties.

Classes for literacy, preparation for the U.S. citizenship exam and English as a Second Language are available. Classes are self-paced, and instruction is directed toward individual needs. Odessa College has computer-assisted instruction for all levels and subjects taught at Noel Center and at the Fort Stockton, Pecos and Andrews learning centers.

In addition to GED test preparation classes, Odessa College also sponsors a competency-based program in cooperation with the Ector County Independent School District to allow adults with less than a high school education the opportunity to earn a high school diploma. These students must be at least 19 years of age, officially withdrawn from public school and need no more than three credits for graduation.

Assessment, counseling and orientation sessions are scheduled to begin at three-week intervals. The official GED pre-test is administered Tuesday through Thursday at no charge to adults to determine if they are prepared to successfully complete the GED test or if they would benefit from classes.

For more information on class locations and times, call the Adult Basic Education Office at Noel Center, 619 N. Grant Ave., 332-9477.

Extension Centers

The Regional Extension Center at Pyote (RECAP) provides night classes leading to an associate's degree in certain areas through part-time study. Registration is held in Pyote prior to registration on the main campus. Announcement of dates and times will be made through the Student Services Office at Odessa College. Area newspapers usually carry notices of registration dates and times, as well as a list of courses to be offered.

Odessa College also offers many regular classes at extension sites located in Andrews, Crane, Kermit, Pecos, Pyote, Seminole, Wink and other sites, as well as at Odessa High and Permian High schools. Registration is conducted in each city during the week prior to registration on campus.

Information about extension centers can be obtained from the Director of Off-Campus Programs at 335-6661.

Accreditation

Odessa College is accredited by the Southern Association of Colleges and Schools. Prospective students and interested parties who wish to view the accreditation documents and/ or the institutional self-study may inquire at the circulation desk of the Murry H. Fly Learning Resources Center (LRC) where a copy is available for reference.

The number of agencies and associations that have given accreditation and membership privileges to Odessa College acknowledges the quality of education provided. The college is approved or accredited by the following professional organizations and agencies:

American Red Cross

American Heart Association Advanced Cardiac Life Support

Training Center

American Nurse Credentialing Center -Commission on Accreditation

Association of Texas Colleges and Universities

Commission on Accreditation for Physical Therapy Education

Committee on Allied Health Education and Accreditation of the American Medical Association

Regulations Subject to Change

Information and regulations printed in this catalog are subject to change. The Board of Trustees and the administrative staff may revise programs, courses, tuition, fees or any other information stated in this publication. Anyone having questions regarding such information and changes thereto should check with the appropriate office, department or division for current information.

More Information

For more information about Odessa College, its admission procedures, instructional programs and counseling services contact the Counseling Center in Room 204 of the Student Union Building.

Prospective students interested in enrolling at Odessa College should send their application and transcripts to Director of Admissions, Odessa College, 201 West University, Odessa, Texas 79764.

Council on Medical Education of American Medical Association Federal Aviation Administration National Association of Schools of Music National Council on Student Development National League for Nursing Radiologic Technology Association of America

Southern Association of Colleges and Schools

Texas Board of Private Investigators and Private Security Officers

Texas Education Agency

Texas Commission on Fire Protection
Personnel Standards and Education

Texas Commission on Law Enforcement Officers Standards and Education (TCLEOSE)

Texas Department of Health Professional Licensing and Certification Program

- Nurse Aide Registry Program
Texas Department of Health Medication
Administration Permit Program

Texas Higher Education Coordinating Board, Community Colleges and Technical Institutes Division

Texas State Board of Examiners of Professional Counselors Odessa College is a member of the following organizations:

American Association of Collegiate Registrars and Admissions Officers American Association of Community and Junior Colleges American Association of University **Administrators** American Library Association American Public Radio (APR) Associate Degree Council of Agency Members Associated Press

Association of College Unions International Association of Community College Trustees Association of Texas Colleges and Universities

Association of Texas Junior College **Board Members and Administrators** Board of Nurse Examiners for the State of Texas

Board of Vocational Nurse Examiners College Placement Council Council for the Advancement and Support of Education Great Plains Regional Honors Council

Health Science Consortium National Association for Foreign Student **Affairs**

National Association of College and **University Business Officers** National Association of Collegiate

Directors of Athletics National Association of Student Financial Aid Administrators

National Association of Vocational-Technical Education Communicators National Collegiate Honors Council

National Council for Marketing and **Public Relations** National Entertainment and Campus

Activities Association National Junior College Athletic Association National League for Nursing

National Restaurant Association

National Rifle Association National Public Radio (NPR) Permian Basin Advertising Federation Permian Basin District Firefighters **Association**

Public Broadcasting Service (PBS) Regional Education Board of the Council on Collegiate Education for Nursing Rocky Mountain College Press Association Southern Association of College and **University Business Officers** Southern Association of Collegiate Registrars and Admissions Officers Southern Association of Junior Colleges Southern Educational Communications

Texas Administrators of Continuing Education/Community and Junior Colleges Texas Association of Alcoholism and **Drug Abuse Counselors**

Texas Association of Collegiate Registrars and Admissions Office Texas Association of Community Service and Continuing Education Texas Association of Intercollegiate

Association

Athletics for Women

Texas Association of Junior Colleges Texas Association of Music Schools Texas Association of Public Junior Colleges

Texas Association of Public Junior College Business Officers

Texas Association of Schools of Art Texas Chef's Association

Texas Consortium for Educational Telecommunications

Texas Department of Health **Texas School Food Service Association** Texas State Firemen's and Fire

Marshals' Association **Texas Restaurant Association** Texas Junior College Teachers Association

Texas Music Educators Association Texas Public Broadcasting Association Video Tape Network

Western Junior College Athletic Conference

Degree/Certificate Planning and Applying for Degree/Certificate

Students working toward a degree or certificate from Odessa College should consult a counselor or faculty advisor early in their academic career to ensure that all required courses are being completed. Students should complete written degree/ certificate plans well in advance of anticipated graduation with the assistance of the appropriate department chair, division dean or with an Odessa College counselor. The student will file a written, signed copy of the plan with the Registrar's Office.

Catalog Applicability

Students may graduate under the catalog that was in effect at the time they first entered Odessa College so long as no more than seven years have elapsed since their initial registration. If the time limit has passed and students still wish to be certified on the basis of the requirements of the catalog under which they first entered, they must petition for such certification to the appropriate department chair.

Graduating students also have the option of graduating under the catalog in effect at the time of completion. The decision as to which catalog will apply for graduation should be made only after consultation with the appropriate academic advisor.

Second Degrees

Students who have earned a degree at Odessa College may apply for a second degree after all stated degree requirements for the second degree have been completed, including a minimum of 15 semester hours taken in residence at Odessa College after the initial degree has been awarded.

Deadline for Degree and Certificate Applications

Students must complete a degree or certificate application within 12 months after completion of their degree or certificate requirements. Applications received after the designated time limit will be reviewed and evaluated by the Director of Admissions and Registrar.

Degree Requirements

Residency Requirements: Associate's Degree

To receive an Associate's Degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 48 semester credit hours at Odessa College; and, if the degree is in a technical or vocational program, complete at least 12 semester hours in the major field at Odessa College.

Option 2: Complete a minimum of 15 semester credit hours at Odessa College, at least 12 of which must be the last hours taken before the degree is granted; and, if the degree is in a technical or vocational program, complete at least 12 semester hours in the major field at Odessa College.

Residency Requirements: Certificates of Technology or Certificates of Completion

To receive a Certificate of Technology or a Certificate of Completion, a student must meet the following residency requirements:

A minimum of 60 percent of the total certificate requirements must have been completed in residence at Odessa College; also, a minimum of 60 percent of the technical and/or vocational program courses required for the certificate must have been completed in residence at Odessa College.

Residency Requirements: Award of Institutional Recognition

An Award of Institutional Recognition that consist of less than 15 semester credit hours may be given in certain technical or vocational programs. To be eligible to receive an Award of Institutional Recognition, the student must complete all courses required for that Award of Recognition in residence at Odessa College.

Associate in Arts Degree

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

- English: ENGL 1301 and ENGL 1302 and six hours of sophomore English
- Speech: Three semester hours
- Foreign Language or Mathematics or Science: One year (six to eight semester hours in same discipline)
- Government: GOVT 2301 and 2302
- History: HIST 1301 and 1302 (HIST 2301 may be substituted for either course)
- Physical Education:
- Two one-hour activity classes*

 Elective outside the major area:
- A three semester hour minimum
- A minimum of 63 semester hours.
- A minimum average of "C" (2.0) in all work. Transfer students must also have an average of "C" (2.0) in all work taken at Odessa College.
- A minimum of 15 semester hours of sophomore courses, six semester hours of which must be in the same discipline.
- Either (1) a minimum of 48 semester hours completed at Odessa College or (2) a minimum of 15 semester hours with at least 12 semester hours completed immediately prior to the granting of the degree.
- Students who are not exempt from the provisions of TASP must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.
- Veterans who have two years active service credit may satisfy the PHED requirement by submitting a copy of Form DD-214 to the Registrar's Office.

Associate in Science Degree

To qualify for the Associate in Science degree (A.S.), students must complete the following requirements:

- English: ENGL 1301 and 1302 and three hours of sophomore English
- Speech: Three semester hours
- Government: GOVT 2301 and 2302
- History: 1301 and 1302 (HIST 2301 may be substituted for either course)
- Mathematics: One year (six semester hours)

- Physical Education: Two one-hour activity classes*
- Science: A minimum of 12 semester hours
- Elective outside the major area:
- A three semester hour minimum

 A minimum of 63 semester hours.
- A minimum average of "C" (2.0) in all work. Transfer students must also have an average of "C" (2.0) in all work taken at Odessa College.
- A minimum of 15 semester hours of sophomore courses, six semester hours of which must be in the same discipline.
- Either (1) a minimum of 48 semester hours completed at Odessa College or (2) a minimum of 15 semester hours with at least 12 semester hours completed immediately prior to the granting of the degree.
- granting of the degree.

 Students who are not exempt from the provisions of TASP must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.
- Veterans who have two years active service credit may satisfy the PHED requirement by submitting a copy of Form DD-214 to the Registrar's Office.

Associate in Applied Science Degree

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

- English and Speech: Six semester hours as specified in each program
- Government: Three semester hours as specified in each program
- Mathematics: Three semester hours as specified in each program
- Physical Education: Two one-hour activity classes*
- Science: As specified in each program
- Major concentration and electives As specified in each program
- A minimum of 63 semester hours.
- A minimum average of "C" (2.0) in all work. Transfer students must also have an average of "C" (2.0) in all work taken at Odessa College.
- A minimum of 15 semester hours of sophomore courses, six semester hours of which must be in the same discipline.
- Either (1) a minimum of 48 semester hours completed at Odessa College or

(2) a minimum of 15 semester hours with at least 12 semester hours completed immediately prior to the granting of the degree.

A minimum of 12 semester hours in the major field must be completed at

Odessa College

A minimum of 60 percent of both technical or vocational program requirements and 60 percent of the total certificate requirements must be completed at Odessa College.

Students who are not exempt from the provisions of TASP must pass all three sections and have scores reported to

Odessa College.

Discharge of all financial obligations to Odessa College prior to graduation.

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

<u>Certificates of Technology</u>

Certificates of Technology are awarded for completion of program requirements with a minimum average of "C" (2.0) in all work in certain occupational and technical curricula as prescribed in the Odessa College catalog or as approved by the respective division dean.

A minimum of 60 percent of the technical and vocational program course requirements and 60 percent of the total certificate requirements must be completed at Odessa College.

Students who are not exempt from the provisions of TASP must pass all three sections and have scores reported to

Odessa College.

Discharge of all financial obligations to Odessa College prior to graduation.

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

Certificates of Completion

Certificates of Completion are awarded for completion of program requirements with a minimum average of "C" (2.0) in all work in certain occupational and technical curricula that concentrate on a specific job skill, licensure requirement or subject matter mastery as prescribed in the Odessa College catalog or as approved by the respective division dean.

Check with the respective program or department chair for information on these certificates.

A minimum of 60 percent of the technical and vocational program course requirements and 60 percent of the total certificate requirements must be completed at Odessa College

Students who are not exempt from the provisions of TASP must pass all three sections and have scores reported to

Odessa College.

Discharge of all financial obligations to

Odessa College prior to graduation. Veterans who have two years active service credit may satisfy PHED requirement, if any, by submitting a copy of Form DD-214 to the registrar's office.

Institutional Recognition

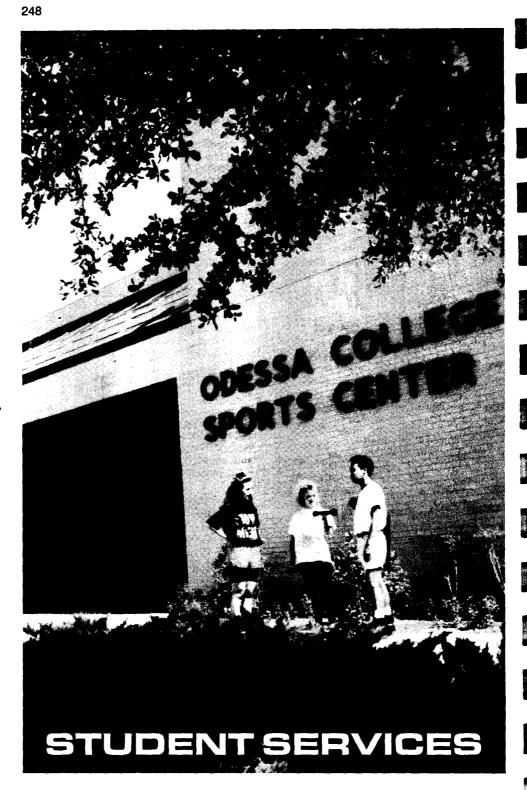
Awards of Institutional Recognition that consist of 15 or fewer semester credit hours may be given in certain technical or vocational programs. To be eligible for an Institutional Award of Recognition the student must complete all courses required for that Award at Odessa College

Regional Extension Center at Pvote

Courses offered at the Regional Extension Center at Pyote are designed to meet associate's degree requirements at Odessa College. One of the options for the Pyote center is an Associate of Arts Degree for students completing the following courses:

	Semester
Course and Number	Hours
ENGL 1301, 1302	
and two sophomore-level courses	12
GOVT 2301, 2302	
HIST 1301, 1302	
*PHED	
(any two one-hour activity courses)2
BIOL or GEOL	,
(any two sequential laboratory cou	rses).8
MATH 1314 or more advanced	
PSYC 2301	3
SOCI 1301	
Major Concentration and/or Electiv	
BUSI 1301, BUSI 2301, ACCT 240	1. ACCT
2402, SPCH 1311, 1321, SOCI 13	
2326, ECON 2301, 2302	
Total Hours	63

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



Student Development

Odessa College encourages the growth and awareness of self and others through a comprehensive Student Development Program. The college tries to create a climate which will allow all its students an opportunity to enhance their perception of worth, while increasing their ability to cope within a changing society. The college hopes to provide all students an opportunity to examine thoroughly their potential and to offer opportunities for realizing that potential through the learning experiences offered by the college.

Counseling Center

The Counseling Center exists to help students make decisions and solve problems. Some of the services available to students are academic advisement. admissions/transfer information, crisis intervention, individual or group counseling

and vocational guidance.

Assistance is free and confidential. Any problem or concern that interferes with the attainment of academic, vocational or personal goals can be discussed with a counselor of the student's choice. Students who have visited the Counseling Center have received help in clarifying educational and personal goals, selecting careers and college courses, reducing stress and worry, improving family and other relationships and improving communications and decisionmaking skills.

Counseling at Odessa College includes many programs designed to promote the success and well-being of students. The staff also welcomes requests for help or information from community members.

The center is located in Room 204 of the Student Union Building. Students may drop by or schedule an appointment to see a counselor. Periodically, special activities, programs and structured group experiences will be offered as well.

Testing Center

The Testing Center is in Room 220 of the Student Union Building. Ability, career interest and interpersonal tests are offered to students who wish to achieve greater self awareness or identify strengths for the purpose of decision-making. The GED (General Education Development) test is administered on a regular basis to individuals who want to demonstrate mastery of high school subjects. Other

national group tests, such as the Medical College Admission Test, are offered as a service to the community. Entrance examinations for special programs, including nursing and law enforcement academy, are scheduled. The ASSET placement test is administered during registration periods and monthly for students enrolling in math or English. Testing and assessment services can be organized for individuals or groups who need specific guidance data. Contact the Director of Testing at 335-6620 for additional information, test dates or an individual appointment.

Career Services Center

The Odessa College Career Services Center is located in Room 205 of the Student Union Building. Several careerrelated services are available for any student enrolled in credit-hour courses of the college. Instruction in and assistance with interview skill development, resume writing and off-campus employment is available. Referral is made to other Student Development offices for assistance in obtaining occupational information, career counseling and degree planning.

Students with marketable skills are encouraged to register with the skills bank in the Career Services Center. The skills bank can provide local and area employers with information concerning skills and talents possessed by Odessa College students.

Another service available through the Career Services Center is a current listing of jobs available from the local office of the Texas Employment Commission. This list is updated several times each week.

Student Housing

Odessa College currently provides housing only for athletes on scholarship. Such housing is assigned by the athletic department. Information regarding the availability of housing can be obtained by calling or writing the office of the Dean of Student Services.

Student Food Service

The Student Union Cafeteria at Odessa College serves short orders as well as balanced meals. Meal tickets are available at discounted rates. A variety of restaurants are also available within walking distance of the college.

Campus Parking

Parking permits are available in the Business Office from 8 a.m. to 7:30 p.m., Monday through Thursday, and from 8 a.m. to 12 noon and 1 to 5 p.m. Friday, during the fall and spring terms. Summer hours, limited to Monday through Thursday, will be announced.

A permit is required for each vehicle (including motorcycles and mopeds) parked on campus. Extra permits are available for 50 cents each. Additional parking information can be obtained in the Business Office or in the Campus Police Office, located in Parker-Downs Hall.

Security

The Odessa College Campus Police Office, located in Parker-Downs Hall, serves the student body of the college by helping to maintain the safety and security of all students and their possessions while they are on campus. Campus police personnel are available to assist students and visitors with problems, such as vehicles with dead batteries and cars with keys locked inside. Police officers are available on a 24-hour basis for emergencies on campus.

Disabled Students

In accordance with federal laws and regulations, Odessa College does not discriminate on the basis of disability in the recruitment and admission of students, the employment of faculty and staff and the operation of any of its programs and activities. The Dean of Student Services is designated coordinator for college compliance with Section 504 of Rehabilitation Act of 1973 and with the Americans with Disabilities Act of 1990.

Disabled students should contact the Odessa College Counseling Center or the Dean of Student Services for information regarding services available.

The college strives to provide a complete range of services for students with special needs such as class arrangement, tutoring, personal counseling, health services and reserved parking.

Health Services

Health Services, a student-oriented program of preventive medicine and health education, is located in Room 107 of the Student Union Building. The director, a registered nurse, provides emergency medical care, preventive health education and a referral system for community agencies. Throughout the year, specialized programs are offered at a minimal or no cost to students, faculty or staff. TB skin tests, diphtheria-tetanus and rubella immunizations and other tests are available. Student insurance information also is available.

Health Services seeks to establish sound health practices that will enhance students' growth and development not only while they are at Odessa College but also after they leave the institution.

Children's Center

The Odessa College Children's Center opened in the fall of 1976 with 14 children enrolled. The center now provides daytime care for some 50 to 60 children of community residents. The center accepts children from birth to six years. It is open year round from 7:30 a.m. to 5:30 p.m. Monday through Friday, except on regular college holidays. While providing a child care service for the community, the Children's Center also serves as a learning laboratory for students in the Odessa College Child Development Program and in child psychology classes.

Student Activities

The college maintains the philosophy that classroom learning is only one part of its students' education. Almost all students feel some need to learn more about themselves. The opportunity for them to grow as individuals is made possible through social and personal experiences, as well as through academic pursuits. Student activities contribute to personal development through educational and social programming and through student organizations.

The interactions of students with each other and with the faculty on an informal basis can provide insights and understanding for students about their society and can enrich the quality of their lives. Information about a wide range of student extracurricular opportunities may be obtained from the Student Activities Office.

Student Activities provides a full schedule of campus-based events designed to be both educational and entertaining. These events are available to the student at no charge through the student activity fee. Information regarding specific events is available from the Student Activities Office.

Opportunities for students to participate in student activities include the following groups:

Clubs and organizations More than nine student organizations are active on campus. Many of these groups are service organizations that relate to academic pursuits, such as nursing or chemistry, while others are honorary societies or special interest groups. A list of currently active student organizations may be found in the Student Activities Office.

Student Congress The Student
Congress at Odessa College is the voice of
the students. It plays an important role in
influencing the directions of the college on
many issues, in addition to sponsoring
projects for the welfare of the student body.
Students may use the Student Congress to
express opinions about the operation of the
college based on their individual needs.
Students enrolled at Odessa College are
encouraged to run for office as well as to
vote for the congressmen. Requirements for
congressional positions and campaigning
are outlined in the student handbook.

Student Intramurals and game room
A well-planned program of intramural
activities is offered each semester at
Odessa College. Information regarding the
intramural schedule can be obtained from
the Intramural Office, located in Room 204
of the Sports Center. A game room for
student use is located on the second floor of
the Student Union Building, where
numerous games are available.

Ping-pong, cards, backgammon, checkers and chess are popular choices.

Forensics Odessa College forensics teams enjoy a national reputation. During the past 15 years, the forensics teams have placed among the top 10 in national tournaments. In four of those years, the college debate teams have won the National Junior College Forensics tournament. The forensics team travels nationally and competes successfully with teams on the senior college and university level.

Choir and Band Odessa College's A Cappella Choir and Madrigal Singers have gained international recognition for their musical abilities. The college also has an active jazz band that performs regularly on campus and in the community. Annually, the jazz band participates in international festivals that are usually held in major Mexican cities such as Mexico City, Acapulco and Guadalajara. The department of music also sponsors a community band as well as a community choir for area citizens who maintain an interest in performing.

Campus radio station KOCV-FM, the college-owned and operated radio station, is an educational, non-commercial station. Radio programs are designed and hosted by students, and the station is operated by students, under the supervision of a professionally trained and experienced instructor. KOCV-FM began broadcasting National

Public Radio programs in February 1989.

Campus television station KOCV-TV, like KOCV-FM, is college-owned and operated. Student-produced programs are supervised by a professionally experienced and academically-trained instructor. Student programming also is carried on Channel 10 of the local cable television company.

Art Shows A function of the Art
Department is to provide students with the
opportunity to exhibit their own work and to
see work of professional artists each year
through student and traveling art exhibits.

Athletics

Odessa College athletic teams hold 42 national titles. The institution has earned a national reputation for its outstanding athletic programs. More than 500 athletes from Odessa College have won National Junior College All-American honors. Currently, the athletic program includes teams in women's basketball, track and rodeo. Men's teams compete in baseball, basketball, golf, track and rodeo.

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 the athletic teams compete in national tournaments (NJCAA) every year. Some of the honors and titles won by Odessa College

athletic teams include:

Men's 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 1979, WJCAC champions in 1989 and Region V champions in 1988, 1989, and 1990. The 1989-1990 team finished eighth at the national junior college tournament. Three players have been designated All-American.

Women's Basketball: The Lady Wranglers have won the conference championship six times 1979-80, 1983-84, 1984-85, 1985-86, 1988-89 and 1990-91; the regional championship five times 1979-80, 1984-85, 1985-86, 1988-89 and 1990-They finished second in the 1985 national tournament and won the NJCAA National Championship in 1986 and 1991. They have produced 16 All-Americans, more than 50 All-Conference players and 38 All-Region players. For 16 consecutive years, they have been nationally ranked. Four times they were ranked No. 1 in the nation From 1984-86, the Lady Wranglers recorded 79 regular season games without a loss. The Lady Wranglers' coach has received numerous honors, including being named the Converse Coach of the Year for 1984-1985 and the NJCAA Coach of the Year in 1986 and 1991

Golf: In 1959, Odessa College hosted the first National Junior College Golf Championship. 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 17 times and have had 33 All-Americans in golf. Again in 1979 and 1987, Odessa College hosted the NJCAA National Championship tournament. In 1991

the team finished eighth in the national tournament. OC won regional championships in 1988 and 1990 and the conference championship in 1989.

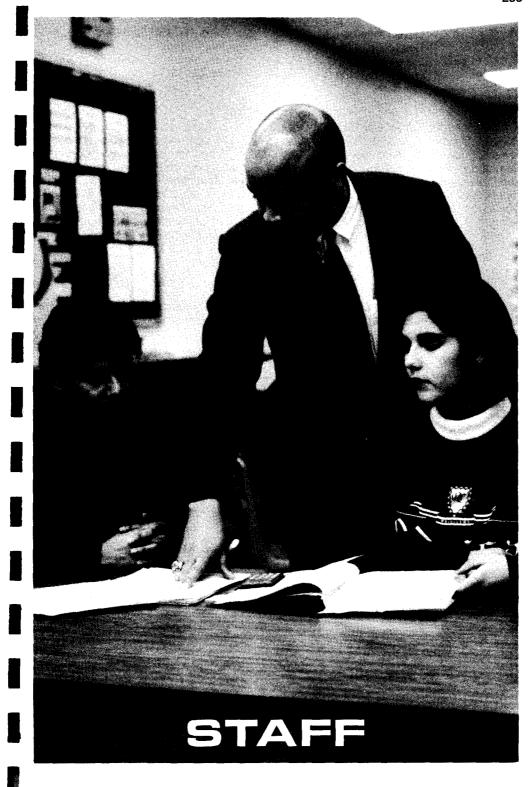
Rodeo: For the first two years, OC had only a men's team; in 1986, a women's team was added. Members of the men's teams qualified for the college national finals in 1985, 1986, 1987, 1989, 1990 and 1991. The men's teams have won 11 regional event titles, two regional team championships, eight national event titles and the national team championship in 1989. Members of the men's team brought home a first place in national competition in bull riding in 1986 and first place in calf roping in 1989 and 1990. Odessa College is recognized as a power rodeo school in the Southwest Region of the National Intercollegiate Rodeo Association, a region which has 22 competing universities and colleges

Men's Track: Odessa College track teams have won more than 60 championships. In 1971, the track team placed second at the National Junior College Championship and won third in 1975. In 1979, the tracksters won the conference regional and state track championships. In 1980, they placed third at both the National Junior College outdoor and indoor meets. In 1981, 1982, 1983, 1984 and 1985, the Odessa College track team won back-toback National Junior College outdoor and indoor championships. Since 1965, more than 300 members of the Odessa College track teams have been named All-American by the National Junior College Athletic

Association.

Women's Track: In 1989, a women's track team was added to the OC athletic program and the team won the NJCAA national championship its first year out. The 1990-91 team finished third at the NJCAA national indoor meet and fourth at the NJCAA national outdoor meet.

Men's Baseball: Odessa College began competing in baseball in 1990-91 for the first time since 1969. The team advanced to the state tournament its first year and was both conference and Region V champion in 1991-92. The team has competed in two district tournaments. It had 12 players either drafted or signed to professional contracts in its first two years. The team's two year record was 86-42, the best two-year start for a new program for the NJCAA. The baseball team had the school's first All-American in baseball in 1992.



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College Services

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Cam H. Stone, A.A., B.A. Director of Admissions/Registrar

Cam H. Stone, A.A., B.A. Assistant Director of Admissions

Athletics

Ameucs	
James Segrest, B.S., M.Ed	Director of Athletics
James C. Carlson, B.S., M.Ed	Athletic Trainer
Karin Carlson, B.S	Tennis Coach
Ken Hefner, B.A	Women's Basketball Coach
Dennis Helms, A.A., B.S.,	M.Ed. Men's Basketball Coach
Kyle Howard, B.S	Golf Coach
Herbert Que McMaster, B.S	Intramural Director and Track Coach
Kristi Munoz, B.A	Men's Basketball Academic Advisor
Orlando Ontiveroz, B.S	Assistant Men's Basketball Coach
Wayne Turley, B.S	Assistant Sports Center Director and Aquatic Coordinator
Jim Watkins, B.S	Rodeo Coach
Rick Zimmerman, M.S	Baseball Coach

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Lois Castellon	ESL Aide
	Director, Food Service & Homemaking Programs
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Betty Fredrickson-Sorrells, B.S	Director, Community Recreation
	Manager, Business Incubator
	ABE Lead Instructor/District
	JOBS Lead Instructor
Jerra Kitzmiller, B.B.A	ABE Lead Instructor/Odessa
	Director, Community Service Programs
	Director, Business Training Center
	Director, Allied Health and Special Programs
Teddena Poor	
Nancy Stout, B.A.A.S.	Director, Occupational Programs
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		Bookstore Manager
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	Alfredo Fonseca	Campus Security Chief
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	Children's Center	Conditionate of Obildrenia Contac
	Maryln Hair, B.S., M.S.	
	Maryln Hair, B.S., M.S.	Co-director of Children's CenterCo-director of Children's Center
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Curriculum Ronald P. Kem, B.S., M.A., Ph.D Patricia R. Walker, B.A	Director of CurriculaAssistant Director of Curricula
Developmental Studies Program Ned Pilcher, B.A., M.A	Director of Developmental Studies Lab Coordinator of Developmental Studies
Instructional Television Clayton Alred, B.S., M.Ed., Ph.D	Coordinator
KOCV-FM/TV Public Broadcasting John B. McCarroll, B.S., M.A. Jesus Berzoza Gregg Bowington Doug Cole Cheri Dalton, B.A. Al Harris Tom Hughes, B.A. Russell McBride Mark Phillips Pamela Six, B.M.E. Marilyn Smith Delores Stokes Tracy Lee Taylor, B.A., M.A. Kay Witcher	Switcher/Production Assistant Switcher/Production Assistant Radio Operations Coordinator Administrative Assistant Chief Engineer Television Station Manager Traffic Director Switcher/Production Assistant Development Director Switcher/Production Assistant Programming and Production Director Radio Station Manager
Learning Resources Center Clayton Alred, B.S., M.Ed., Ph.D	ssociate Dean, Learning Resources Center Head of Technical Services Instructional Design and Media Specialist Learning Resources Specialist Head of Public Services
Physical Plant Norman Witcher AAS BSOE MA	
Norman Witcher, A.A.S., B.S.O.E., M.A. Bob Chastain Everisto Cortez Lionel Loya Max White, B.S.	Mechanic ForemanAssistant Director of Physical FacilitiesCustodial Manager
Planning and Research Thomas K. Martin, B.A., M.A., Ph.D	Director of Planning and Research
President's Office Wanda Gregory	Assistant to the President
Special Services Lydia Evaro-Torres	Special Assistant to the President
Tech-Prep Sue J. Blair, B.S., M.Ed., Ed.D.	Coordinator of Tech-Prep

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-	

Faculty

E. Maurice Alfred

Professor of Vocal Music (Ret.), B.S., Hardin-Simmons University; M.Mu.Ed., Texas Tech University; Ph.D., Texas Tech University

Juanita K. Backer

Instructor of Nursing, B.S.N., M.S.N., West Virginia University

Danny Bailey

Department Chair and Assistant Professor of Electrical/Electronics Technology, B.S., Wayland Baptist University

Mary W. Barker

Professor of Psychology (Ret.), B.S., M.Ed., Sul Ross State University

Gail Barry

Instructor of Nursing, B.S.N., Old Dominion University

James K. Bates

Department Chair and Associate Professor of Heating, Ventilation and Air Conditioning and Maintenance Technology, A.A.S., Odessa College; B.S.O.E., Wayland Baptist College

George M. Baucum

Professor of Law Enforcement/Criminal Justice, A.A.S., Odessa College; B.A., M.A., University of Texas of the Permian Basin

Sylvia Blain

Associate Professor of Cosmetology, A.A.S., Odessa College

Sue J. Blair

Department Chair and Professor of Business Administration and Tech-Prep Coordinator, B.S., M.Ed., Southwest Texas State University; Ed.D., Texas Tech University

Carol Boswell

Assistant Professor of Nursing, B.S.N., Texas Tech University; M.S.N., Texas Tech University

Jay Box

Department Chair and Assistant Professor of Physical Education, A.A., Howard College; B.S., Southwest Texas State University; M.Ed., Texas Tech University

John D. Bray

Medical Director of Respiratory Therapy Program, B.S., M.D., University of Miami

George W. Brewer

Department Chair and Associate Professor of Mathematics, B.S., Southeastern Oklahoma State University; M.S., Oklahoma State University

Phyllis Brunner

Department Chair and Associate Professor, Respiratory Care, A.S., Delgado College; B.S., University of Texas of the Permian Basin

Joe C. Buice

Professor of English (Ret.), B.A., Baylor University; M.A., University of Colorado; M.A. University of Texas; Ph.D., East Texas State University

Mary Kay Buinger

Assistant Professor of History, B.A., Fort Hays Kansas State College; M.A., University of Missouri

Weldon Butler

Medical Director of Emergency Medical Technology, B.S., Eastern New Mexico University; M.D., University of New Mexico

James Camp

Assistant Professor of Business Administration and Mathematics, B.A., M.S., North Texas State University

James Carlson

Athletic Trainer and Instructor of Physical Education, B.S., M.Ed., The University of Texas at Austin

Karin Carlson

Instructor of Physical Education, B.S. University of North Texas

Kris Challapalli

Director of Medical Laboratory Technology, B.S., M.D., Guntur Medical College, A.P. India

Patty Chapman

Instructor of Nursing, A.A.S., Odessa College; B.S.N., Texas Tech University

Lonnie Clark

Instructor of Music, B.M.E., West Texas State University; M.A., West Texas State University

Vincent J. Coffey

Professor of Biology, B.S., Norwich University; M.S., University of Iowa; Ph.D., University of Georgia

Raymond L. Cone

Assistant Professor of Computer Science, B.S., M.B.A. Eastern New Mexico University

Dorothy F. Cook

Assistant Professor of Nursing, A.A.S., Odessa College; B.S.N., West Texas State University; M.S.N., University of Texas Medical Branch at Galveston

Ladona Cook

Assistant Professor of Nursing, A.S., Odessa College; B.S.N. Angelo State University; M.S.N. University of Texas at El Paso

Eloisa Corbell

Medical Laboratory Technology Paraprofessional, A.A.S., Odessa College

Judith A. Cornes

Professor of English, B.A., M.A., University of Missouri; Ph.D., Southern Illinois University

Roger B. Corzine

Professor of Biology (Ret.), B.S., University of Oklahoma; M.A., University of Colorado at Boulder; M.S., Michigan State University

Jerome Crane

Instructor of Sociology, B.S., M.A., M.Ed., Northern Arizona University

Jack B. Culberson

Department Chair and Assistant Professor of Fire Protection, A.A.S., Odessa College

S. Lynn Dammann

Department Chair and Associate Professor of Physical Therapist Assistant, B.S., University of Texas Medical Branch School of Allied Health Sciences - Galveston

Jurl O. Davis

Department Chair of Automotive Technology and Diesel Mechanics and Associate Professor of Automotive Technology, A.S., Angelina College; B.S., Wayland Baptist University

Wanda Davis

Instructor of Nursing, A.A.S., Odessa College; B.S.N., Texas Tech University Health Science Center of the Permian Basin; M.S.N., University of Texas at El Paso

Brian K. Dille

Professor of Government, B.A., Illinois State University; M.A., University of Texas at Austin; Ed.D., Texas Tech University

Jeffrey R. Dombeck

Assistant Professor of Culinary Arts, A.A.S., Milwaukee Area Technical College; A.S., Culinary Institute of America

Norma Drennon

Department Chair and Assistant Professor of Vocational Nursing in Kermit, B.S.N., Texas Tech University Health Science Center of the Permian Basin; M.S.N., University of Texas at El Paso

Billie B. Duncan

Associate Professor of Office Education, A.A.S., Odessa College; B.S., M.Ed., Sul Ross State University

Lawrence H. Duval, Jr.

Instructor of Business Administration, B.B.A., M.B.A., University of Texas of the Permian Basin

Daphne A. Eastman

Instructor of Government, B.S., M.A., Northern Arizona University

Darlyne Ervin

Department Chair and Instructor of Speech, B.A., M.A. Texas Tech University

Jack R. Felts

Associate Professor of Business Administration, B.B.A., M.B.A., University of Texas of the Permian Basin

James M. Fields

Professor of Mathematics, B.S., West Texas State University; M.S., Michigan State University; Ed.D., Nova University

Clinton W. Forbes

Associate Professor of Management (Ret.), B.S., Wayland Baptist College; M.A. University of Texas of the Permian Basin

Imogene Freer

Professor of Reading (Ret.), B.S., Southwestern Oklahoma State University; M.S., Oklahoma State University; Ph.D., Michigan State University

Linda Fry

Assistant Professor of Computer Information Systems, B.S., M.B.A., University of Texas of the Permian Basin

Elizabeth K. Gillette

Professor of English (Ret.), B.S., M.S., Texas A&I University; Ph.D., East Texas State University

Gordon E. Gillette

Professor of Psychology and Sociology (Ret.), B.A., Lycoming College; M.S., George Williams College

Steven Goff

Assistant Professor of Photography, B.F.A., M.F.A., Ohio University

Terry Gouley

Assistant Professor of Culinary Arts, A.A.S., Odessa College

Maryln Hair

Director of Children's Center, Department Chair and Assistant Professor of Child Development, B.S., North Texas State University; M.S., Texas Woman's University

Mary Joyce Harding

Professor of Child Development, B.S., Texas Woman's University; M.S., Texas Tech University

Nancy Harris

Instructor of Nursing, A.A.S., Odessa College: B.S.N., Texas Tech University Health Science Center of the Permian Basin; M.S.N., University of Texas at El Paso

Gloria Hearne

Instructor of Respiratory Care, A.A.S., Odessa College

Kenneth E. Hefner

Instructor of Physical Education and Women's Basketball Coach, B.A. University of Texas of the Permian Basin

Thomas J. Heiting

Professor of History and Government, B.A., Marquette University; M.A., New Mexico Highlands University; Ph.D., Texas Tech University

Dennis Helms

Instructor of Physical Education and Men's Basketball Coach, B.S., University of Upper Iowa; M.Ed., Drake University

Delmos L. Hickmott

Department Chair and Professor of Art, B.S., North Texas State University; M.F.A., Instituto Mexico University

Truett L. Hilliard

Professor of History and Philosophy, B.A., M.A., Eastern New Mexico University

Kenneth Hines

Instructor Physical Education and Wellness Director, B.S., Lubbock Christian University; M.Ed., Texas Tech University

Lou Ann Hitt

Professor of Cosmetology, B.S.O.E., Wayland Baptist College, M.S., East Texas State University

Patricia L. Hodges

Instructor of Physical Education and Community Recreation, B.F.A., M.F.A., Southern Methodist University

Aija Hoover

Professor of English, B.A., M.A., University of Jyvaskyla; M.A., Ph.D., Ball State University

Larry Hoover

Instructor of Spanish, B.A., M.A., Ball State University

Kathryn Hoppe

Department Chair and Professor of Music, B.Mus., M.Mus., Indiana University, Ph.D., University of Texas at Austin

Kyle Howard

Instructor of Physical Education and Golf Coach, B.S., Memphis State University

Phyllis Howard

Associate Professor of Emergency Medical Technology, A.A.S., Odessa College; B.S.N. West Texas State University

Betty Jo Hudson

Assistant Professor of Physical Education, B.S., Texas A&I University; M.A., Sul Ross State University

Tom Hughes

Instructor of Radio/Television, B.A., University of Texas of the Permian Basin

Rita M. Hurst

Department Chair and Professor of Office Education, B.S., M.Ed., East Texas State University; Ed.D., Nova University

Wallace R. Jackson

Associate Professor of Speech and Radio (Ret.), B.A., Abilene Christian College; M.A., Northwestern University

Don Jacobs

Department Chair and Instructor of Psychology, B.S., M.L.A, Southern Methodist University

James O. Johnson

Assistant Professor of Biology, B.A., B.S., Texas Lutheran College; M.S., University of North Texas

Nancy Johnson

Department Chair and Assistant Professor of Nursing, A.A.S., Odessa College; B.S.N., Texas Tech University Health Science Center of the Permian Basin; M.S.N., University of Texas at El Paso

Wayne Johnson

Assistant Professor of English, B.A., East Central Oklahoma; M.A., Texas Tech University

James P. Jordan

Department Chair of Human Services and Assistant Professor of Computer Information Systems, B.A., Angelo State University; M.P.A., Angelo State University

Mark Jordan

Assistant Professor of English, B.A., University of Texas at Austin; M.A., University of Houston

Ulrike Kalt

Associate Professor of English, M.A., Johannes Gutenberg University; M.A., York University

Robert J. Keating

Assistant Professor of Mathematics and Engineering, B.S., University of Pittsburg; M.S., University of Texas at Austin

Dick K. Kennedy

Department Chair and Professor of Economics and Government, B.S., M.A., West Texas State University; Ed.D., Nova University

Ronald P. Kern

Professor of Computer Information Systems, B.S., Central State University; M.A., University of Texas at San Antonio; Ph.D., University of North Texas

Stephanie Kern

Associate Professor of Mathematics, B.S., Central State University; M.T., University of Arizona

Ashok Khosla

Professor of Physics, B.S., Delhi University; M.S., Purdue University; Ph.D., Rensselaer Polytechnic Institute

Jack E. Kitzmiller

Assistant Professor of Government, B.A., North Texas State University; M.A., University of Texas at Arlington

Daryl Lane

Professor of English, B.A., University of San Francisco, M.A., University of Wisconsin at Milwaukee; Ph.D., University of New Mexico

Billy J. Lawrence

Assistant Professor of Physical Education (Ret.), A.A., Tyler Junior College; B.S., Baylor University; M.Ed., East Texas State University

Carolyn Sue Leach

Department Chair and Associate Professor of Radiologic Technology, A.A.S., Odessa College; B.S., Midwestern University; (A.A.R.T.)

Carol L. Lemen

Assistant Professor of Office Education, B.B.E., M.B.E., West Texas State University

John Lesmeister

Associate Professor of Biology, B.S., Montana State University; M.S., Montana State University; Ph.D., University of Nebraska

Peter Lewis

Department Chair and Associate Professor of Culinary Arts, Diploma in Culinary Arts, Culinary Institute of America; B.A., University of Maryland; M.E., Sam Houston State University

Annie Littlefield

Law Enforcement/Criminal Justice Paraprofessional, A.A., A.S., Odessa College

Johnnie Luttrell

Instructor of Cosmetology, A.A.S., Odessa College

Sidney Lyle

Department Chair and Professor of Law Enforcement/Criminal Justice, A.A., Odessa College; B.A., University of Texas of the Permian Basin

Rosana Carpio Maldonado

Instructor of Mathematics, B.S., Instituto Pedagogico Nacional, Lima, Peru; M.S., Texas Tech University

Peggy Manning

Associate Professor of Physical Therapist Assistant, B.S., University of North Carolina

Steve Mapes

Associate Professor of Automotive Technology and Diesel Mechanics, A.A.S., Odessa College; B.S., Wayland Baptist University

Lee Don Martin

Department Chair and Instructor of Emergency Medical Technology, A.A.S., Odessa College

Eva M. Mauldin

Assistant Professor of Nursing, B.S.N., Northwestern State University; M.A., University of Texas of the Permian Basin

G. Brent McAfee

Department Chair and Associate Professor of Geology, A.A., Odessa College; B.S., M.A., Sul Ross State University

John McCarroll

General Manager of KOCV-TV and KOCV-FM and Department Chair of Mass Communication, B.S., Texas A & M University; M.A., University of Texas of the Permian Basin

Jean M. McColloch

Associate Professor of Reading, B.A., Baylor University; M.Ed., University of Arizona

James E. McKown

Assistant Professor of Law Enforcement/ Criminal Justice, A.A., Eastern Arizona College

Herbert Que McMaster

Men's Track Coach and Instructor of Physical Education, B.S., Sul Ross State University

Annette McMinn

Associate Professor of Clinical Laboratory Sciences, B.S., Texas Tech University; M.S., University of Texas of the Permian Basin

James McPherson

Department Chair and Assistant Professor of Drafting Technology, B.S., M.S. East Texas State University

Rochelle I. Mears

Instructor of Computer Information Systems, A.A., Lansing Community College; B.A., Western Michigan University

Willard J. Mears

Associate Professor of Computer Information Systems, B.S., Texas Tech University; M.S., University of Houston

Stan Middleton

Associate Professor of Respiratory Care and Director of Clinical Education, A.A.S., Midland College; B.S., University of Texas of the Permian Basin

DeAnna Moore

Instructor of Nursing, A.D.N., El Centro College

Faye Morgan

Department Chair and Associate Professor of Cosmetology, Vocational Certificate, East Texas State University; B.S., Wayland Baptist University

Elloui Moseley

Department Chair and Assistant Professor of Reading, B.S.Ed., University of Oklahoma; M.A., University of Tulsa

Robert M. Munoz

Department Chair and Instructor of Management, A.A.S., Odessa College; B.S. University of Texas at El Paso

Dan Neagle

Department Chair and Associate Professor of Business Administration, B.A., University of Northern Iowa; M.Ed., University of Texas at Tyler; M.S., East Texas State University; C.P.A.

Molly Neiers

Instructor of Physical Therapist Assistant, B.S., St. Louis University

Connie Nichols

Instructor of Management, B.B.A., Texas Tech University

Duane L. Nobles

Department Chair and Professor of Welding Technology and Machine Technology, A.A.S., Odessa College; B.S.O.E., Wayland Baptist College; M.A., University of Texas of the Permian Basin

Yancy Nunez

Instructor of Mathematics, B.S., M.S., Texas Tech University

Karen Paterno

Department Chair and Associate Professor of Vocational Nursing in Andrews, B.S.N., Florida State University; M.S.N., University of Florida

Edwin Barry Phillips, Jr.

Professor of Art, B.S., M.Ed., Texas Tech University

Edwin Barry Phillips III

Instructor of Art, B.A., Texas Tech University; M.F.A., East Texas State University

Janet R. Phillips

Assistant Professor of Nursing, R.N., B.S., Texas Woman's University; M.A., University of Texas of the Permian Basin

R. Sven Phillips

Instructor of Radiologic Technology, A.A.S., Odessa College; B.S., Texas Tech University

Imogene Pilcher

Department Chair and Associate Professor of English, A.A., Odessa College; B.A., M.A., Texas Tech University

Ned Pilcher

Associate Professor of English and Director of Developmental Studies, B.A., Texas Tech University; M.A., West Texas State University

Robert B. Porter

Professor of History and Sociology, B.S., M.A., Eastern New Mexico University

Ivanov Reyez

Assistant Professor of English, B.A., Texas A&I University; M.A., University of Texas of the Permian Basin

Patricia C. Ritchey

Assistant Professor of Nursing, A.A.S., Odessa College; B.S.N., M.S.N., University of Texas at Arlington

James D. Roberts

Associate Professor of Petroleum Technology, A.S., Grayson County College; B.S., Texas A & M University

Robbie Rogers

Assistant Professor of Nursing, R.N.,A.A.S., Odessa College; B.S.N., West Texas State University; M.A., University of Texas of the Permian Basin

Jeanne V. Russell

Professor of Chemistry, B.A., Southern Illinois University; Ph.D., University of Colorado

Kay Rutherford

Instructor of Office Education (Ret.), B.S., Southwest Texas State University

William Rutherford

Assistant Professor of Government and Economics, B.A., Howard Payne College; M.A., University of Texas of the Permian Basin

Leola K. Rutledge

Department Chair and Associate Professor of Surgical Technology, A.A.S., Odessa College; B.S.N., Texas Tech University

Sonny Sansom, R.R.T.

Lecturer of Respiratory Therapy

James Sheehan, M.D.

Medical Director of Radiologic Technology, B.A., Loyola College, Montreal, Quebec, Canada; M.D., McGill University, Montreal, Quebec, Canada

Mitch Slusher

Department Chair and Associate Professor of Computer Science and Computer Information Systems, B.S., University of Texas of the Permian Basin; M.S., Texas A & M University

Clyde F. Smith

Department Chair and Professor of Biology, B.S., M.S., University of Illinois; Ph.D., Cornell University

Donna C. Smith

Assistant Professor of English, B.A., Texas Tech University; M.A., University of Texas at Austin

Joel D. Smith

Department Chair and Associate Professor of Clinical Laboratory Sciences, B.A., M.T. (A.S.C.P.), University of Texas at Austin

Steve Sofge

Instructor of Biology, A.S., Odessa College; B.S., Texas Tech University; M.S., University of Texas of the Permian Basin

Glynna Strait

Professor of Mathematics, B.S., Sul Ross State University; M.S., Texas Tech University; Ed.D., Texas Tech University

Nancy Sturges

Associate Professor of Office Education, B.A., Wheaton College; M.S., California State University at Fullerton

Robert P. Sturges

Professor of History, B.A., University of Redlands; M.A., Chapman College; Ed.D., Nova University

Linda Sullivan

Associate Professor of Cosmetology, A.A.S., Odessa College; B.S.O.E., Wayland Baptist University

Charles E. Sweatt

Professor of Mathematics, B.S., M.S., West Texas State University; Ed.D., Nova University

Randy Talley

Choral Director and Instructor of Music, B.M.E., M.M., West Texas State University

E. Don Taylor

Department Chair and Professor of Chemistry, B.S., University of Texas at Austin; Ph.D., Texas Tech University

Tracy Lee Taylor

Instructor of Radio/Television, B.A., Aquinas College; M.A., Ohio University

Paul G. Tittle

Associate Professor of Management (Ret.), B.A., Sam Houston State University; M.A., University of Texas of the Permian Basin

Naomi Warren

Assistant Professor of Nursing, A.A.S., Arkansas State University; B.S.N., University of Texas at Arlington; M.S., Texas Woman's University

Maureen Watson

Instructor of Vocational Nursing in Kermit, B.S., Madison College

Caria Wells

Assistant Professor of Psychology, B.S., University of Texas at Austin; M.S., Texas Woman's University

Georgann Wemple

Assistant Professor of Psychology (Ret.), B.A., University of Houston; M.A., St. Mary's University

Charlotte Whitaker

Associate Professor of Music, B.M.E., M.M.E., Ph.D., Texas Tech University

Michael White

Professor of English, B.A., M.A.T., Angelo State University; Ph.D., North Texas State University

Virginia Lynn Whitson

Instructor of English, B.A., M.A., University of Texas of the Permian Basin

Thomas D. Wilburn

Department Chair and Professor of Building Trades, B.S., M.S., Northern Montana College

Gregory D. Williams

Associate Professor of Psychology, B.A., M.A., University of Texas of the Permian Basin

Stanley C. Williams

Assistant Professor of English, B.A., M.Th., M.L.A., Southern Methodist University; M.A., Brown University

Pamela R. Williamson

Reading Paraprofessional, B.A., University of Texas at El Paso

Joseph A. Willis

Instructor of Speech, B.A., Eastern New Mexico University; M.A., Texas Tech University

Anna F. Winn

Professor of Nursing, R.N., B.S., University of Houston; M.S., University of Colorado; Ed.D., Nova University

Kenneth D. Yeilding

Professor of History and Government, B.S., Hardin-Simmons University; M.A., University of Texas at El Paso; Ph.D., Texas Tech University

Rick Zimmerman

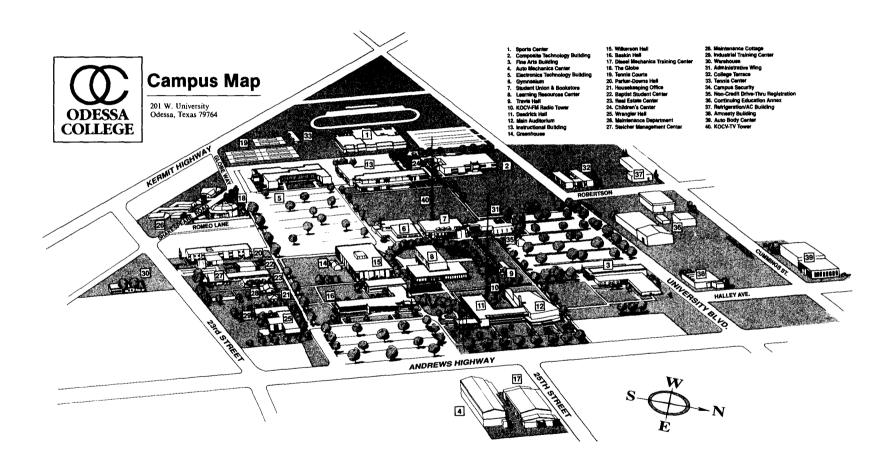
Instructor of Physical Education and Baseball Coach, B.S., M.S., Fort Hays, Kansas State College



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NOTES

APPLICATION FOR ADMISSION



Maiden

First

Admissions Office

201 W. University Odessa, Texas 79764

OF	FICE USE ONLY	
Res	Classification	VISA

	Last	<u> </u>	First	Midd	ie	Maiden
Other name(s)		(2)	Phone () Home	()	Work
Social Security Number	ا لـــاــا ا	!!_				
Permanent Address Street or P.O. Bo	·Y	City		County	State	Zip Code
How long have you lived at your permanent		•	Months	County	0.0.0	2.p 0000
Local Address						
Street or P.O. Bo List addresses last 24 months (two years		City		County	State	Zip Code
Address	City		State	Zip	From (date) to (date)
Address	City		State	Zip	From (date) to (date)
Address	City		State	Zip	From (date) to (date)
Date of Birth/_ / Age	Place of Birtl	h				
Ethnic Background (Requested in complia	☐ (2) Bla	ack - Non-His	spanic origin	٠.) Hispanic	
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Odessa College does not discriminate against any student or employee in regard to age, sex, color, race, handicap or national origin and answers concerning this information are voluntary. Answers are not used in admissions decisions.

I certify that all answers given are complete and accurate to the best of my knowledge, and upon admission I agree to abide by all rules and regulations of Odessa College.

TASP INFORMATION

- All students must take the TASP test prior to completing nine hours of non-remedial coursework. Students may not enroll in non-remedial coursework beyond the ninth semester hour without having taken the TASP test. Failure to do so will result in complete withdrawal from school.
- 2. Students must have all TASP scores sent to Odessa College from National Evaluation Systems.
- 3. Students who fail any portion of the TASP test must enroll in and participate in a remedial class in at least one of the areas failed. Failure to do so will result in complete withdrawal from school.
- 4. Concurrent Enrollment/Early Admissions students who take the TASP test and fail any part of the test may not enroll in courses at Odessa College.

I understand the TASP state regulations regarding the credit hour limit and remediation required, if necessary, as indicated by my test scores.

I also understand the consequence of non-compliance with state TASP requirements.

Signature:	Date:

Residency Issues

1.	(a)	Are you a U.S. Citizen?	Yes	☐ No	Coth of Book	
	(b)	If not a citizen, do you hold Permaner	nt Residence status		6. Oath of Resid	iency
	•	for the U.S.?	Yes	☐ No	I understand that information so be relied upon by college/university	
		If yes, date permanent resident card i			determine my status for admission a eligibility. I authorize the college/uni	and residency
		Number:			information I have provided. I agree	to notify the proper
2.	Are	you claiming Texas residence statu	e for tuition purpos	2227	information provided. I certify that the this application is complete and corrections.	he information on
			Yes	that the submission of false informat rejection of my application, withdraw	tion is grounds for	
	•	NO, GO TO NO. 6)	acceptance, cancellation of enrollmed disciplinary action.			
		NO, YOU WILL BE CHARGED OUT-O	·			-ttresided out
	-	YES, YOU WILL BE ELIGIBLE TO BE		NOTE: If you have attended so of state, additional proof of residence	y may be required.	
3.	Upo	on whom are you basing your claim of Self	of residence status	Military personnel/dependents must or dependent's card and proof of mil Texas at each enrollment. Permane	litary assignment in ent resident aliens	
		Parent			and foreign students must submit co and/or visas.	pies of permits
		Legal Guardian (Guardianship papers	s must be provided)			
		Active duty military based in Texas				
		Dependent of active duty service men	mber based in Texas	3	Signature	Date
4.	lf yc	our claim of residence status is base	∍d upon self, answ∈	NOTE: In order to change you classification you must submit a com		
	(a)	How long have you resided in Texas?	?Years and _	Months	for Residency Reclassification prior to census day of the relevant semester	to the official
	(b)	Previous state or country of residence	e:	way, ,	torious day of the following summers	•
	(c)	If you came here within the past 5 year why did you move to Texas?	ars,			
		Education Employment	Other:			
5.		our claim for residence status is bas ase answer the following questions:				
	(a)	Name of person upon whom claim is	based:			
	(b)	Relationship to self: parent	legal guardia	an		
	(c)	How long has this person resided in T	Γexas?Years ε	andMonths		
	(d)	Previous state or country of residence	e:		[
	(e)	If this person came here within the pa why did this person move to Texas?	ast 5 years,			
		☐ Education ☐ Employment	Other:			
					FOR OFFICE US	 GE
	(f)	Is this person a U.S. citizen?	es 🗖 No		Remarks	
	(g)	Has parent or legal guardian claimed purposes for the tax year preceding y		t for U.S. federal income tax		
		•	Yes	☐ No		
	(h)	Will this person claim you for the curr	rent tax year?		Approved Texas resident	s 🖵 No

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			<u>.</u> .	i wasan in	 			

