





	nts	onte	С	
College Cale				
Campus Di				
Statement o			1.00	
City of Odes				
Equal Oppo				
Accreditatio				
School Year				
Admissions				
Money Matt				
Academic a				
Instructional				
Campus Fa				
Gen		: :		•
Info				

•

General Information

Printed in Canada

4

1998

1998-	.99	OD	FSS	Α
1000	55			La

SUMMER 1998

During the summer, Odessa College operates on a four-day week and closes on Friday.

Summer I

For Advance Registration dates, consult current class schedule.

Registration	May 20 & 21 (Wed & Thurs)
Holiday (Memorial Day)	
Classes Begin	
Late Registration/Schedule Changes .	
Last Day to Drop With a "W"	
Last Class Day	July 1 (Wed)
Final Exams, End of Term	July 2 (Thurs)

Summer II

For Advance Registration dates, consult current class schedule.

Registration	July 6 (Mon)
Classes Begin	July 7 (Tues)
Late Registration/Schedule Changes	July 7 (Tues)
Last Day to Drop or Withdraw With a "W"	Aug 4 (Tues)
Last Class Day	Aug 11 (Tues)
Final Exams, End of Term	Aug 12 (Wed)

FALL 1998

For Advance Registration dates, consult current class schedule.

Nine Month Faculty Return	Aug 24 (Mon)
Registration	
(M-Z)	
(A-L)	
(All)	Aug 26 (Wed)
Classes Begin at 5 p.m	Aug 26 (Wed)
Late Registration/Schedule Changes A	ug 27-Sept 8 (Mon-Tues)
Last Day to Register for a Full Load	
Late Register for No More Than 2 Classes	
Holiday (Labor Day)	
Twelfth Class Day	Sept 11 (Fri)
Deadline for Fall Degree Application	Sept 25 (Fri)
Staff Development (Offices Closed/No Clas	sses) Oct 16 (Fri)
Last Day to Drop or Withdraw with a "W"	Nov 13 (Fri)
Thanksgiving Holiday	Nov 25-28 (Wed-Sat)
Last Class Day	Dec 11 (Fri)
Final Exams	. Dec 14-17 (Mon-Thurs)
Fall Graduation	Dec 17 (Thurs)
End of Semester	Dec 18 (Fri)
College Offices Closed	Dec 19-Jan 2 (Sat-Sat)

WEEKEND COLLEGE FALL 1998

Weekend College students may also register on any of the regular registration days for the fall semester.

obsoluti A a D negistration	
8:30 a.m6 p.m	Aug 27 (Thurs)
8:30 a.m2 p.m	Aug 28 (Fri)
Session A Classes Begin	Aug 29 (Sat)
Session B Registration	
8:30 a.m6 p.m	Nov 3 & 4 (Tues & Wed)
8:30 a.m2 p.m	Nov 5 (Thurs)
Session B Classes Begin	Nov 6 (Eri)
Session A Final Exams, End of Term	Oct 10 (Sat)
Session B Final Exams, End of Term	Dec 12 (Sat)

			-	May	,		
	S	M	т	w	т	F 1	S 2
	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30
			•	Jun	e		
	S 7 14 21 28	M 1 15 22 29	T 2 9 16 23 30	W 3 10 17 24	T 4 11 18 25	5 12 19 26	S 6 13 20 27
			,	July	/		
	S	м	т	W 1	Т 2	F 3	S 4
	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24 31	11 18 25
			A	ugu	st		
	s	M	т	w	т	F	S 1
	2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29
			Sep	tem	be	r	
	6 13 20 27	M 7 14 21 28	T 1 15 22 29	W 9 16 23 30	T 3 10 17 24	F 4 11 18 25	5 12 19 26
ĺ			00	ctob	ber		
	s	М	т	w	Т 1	F 2	s 3
	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24 31
			Nov	vem	be	r	
	\$ 1 15 22 29	M 9 16 23 30	Т 3 10 17 24	W 4 11 18 25	T 5 12 19 26	F 6 13 20 27	S 7 14 21 28
			Dec	em	ber	•	
	6 13 20 27	M 14 21 28	T 8 15 22 29	¥ 9 16 23 30	T 3 10 17 24 31	F 4 11 18 25	S 5 12 19 26

COLLEGE CALENDAR

MIDWINTER 1998-99

Registration 8-10 a.m.	Dec 28 (Mon)
First Class Day (Classes begin at 1 p.m.)	
Holiday (New Year's Day)	Jan 1 (Fri)
Last Day to Drop or Withdraw With a "W"	Jan 5 (Tues)
Final Exams, End of Term	

SPRING 1999

For Advance Registration dates, consult current class schedule.
Offices Open/12-Month Employees ReturnJan 4 (Mon)
Nine-Month Faculty ReturnJan 11 (Mon)
RegistrationJan 12-14 (Tues-Thurs)
(A-L) Jan 12 (Tues)
(M-Z) Jan 13 (Wed)
(All) Jan 14 (Thurs)
Holiday (Martin Luther King Day)Jan 18 (Mon)
Classes Begin Jan 19 (Tues)
Late Registration/Schedule Changes Jan 19-25 (Tues-Mon)
Last Day to Register for a Full Load Jan 22 (Fri)
Late Register for No More Than 2 Classes Jan 25 (Mon)
Deadline for Spring Degree Application Feb 19 (Fri)
Spring Break Mar 8-12 (Mon-Fri)
Holiday (Good Friday) Apr 2 (Fri)
Last Day to Drop or Withdraw With a "W" Apr 15 (Thurs)
Last Class Day May 7 (Fri)
Final Exams May 10-13 (Mon-Thurs)
Graduation Day May 14 (Fri)

SUMMER 1999

<u>Summer I</u>

For Advance Registration dates, consult current class schedule.

Registration	May 25-27 (Tues-Thurs)
Holiday (Memorial Day)	
Classes Begin	June 1 (Tues)
Late Registration	June 1 & 2 (Tues & Wed)
Last Day for Schedule Changes	June 1 & 2 (Tues & Wed)
Last Day to Drop With a "W"	June 23 (Wed)
Last Class Day	June 30 (Wed)
Final Exams, End of Term	

Summer II

Registration	. June 29 & 30 (Tues & Wed
Classes Begin	
Late Registration	
Last Day for Schedule Changes	
Last Day to Drop or Withdraw With a "V	
Last Class Day	Aug 3 (Tues
Final Exams, End of Term	Aug 4 (Wed

1000								
1999 January								
SMTWTFS								
3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30		
		Fe	bru	iary	1			
S 14 21 28	M 1 15 22	T 2 9 16 23	W 3 10 17 24	T 4 11 18 25	F 5 12 19 26	6 13 20 27		
		ł	Mar	ch				
S 7 14 21 28	M 8 15 22 29	T 9 16 23 30	W 3 10 17 24 31	T 4 11 18 25	F 5 12 19 26	6 13 20 27		
			Арі	ril				
S	м	т	w	T 1	F 2	S 3		
4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24		
			Ма	у				
s	М	т	W	т	F	S 1		
2 9 16 23 30	3 10 17 24 31	4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29		
			Jur	e				
6 13 20 27	M 14 21 28	T 1 15 22 29	¥ 9 16 23 30	T 3 10 17 24	F 4 11 18 25	5 12 19 26		
			Jul	у				
S	м	т	w	Т 1	F 2	S 3		
4 11 18 25	5 12 19 26	6 13 20 27	7 14 21 28	8 15 22 29	9 16 23 30	10 17 24 31		
		A	ug	ust				
\$ 1 15 22 29	M 9 16 23 30	T 3 10 17 24 31	W 4 11 18 25	T 5 12 19 26	F 6 13 20 27	S 7 14 21 28		

6 Campus Directory

Hours are subject to change. Hours vary during registration, special sessions and school holidays. * These offices close during the lunch hour.

Office	Phone	Location	Regular Hours	Summer Hours
Admissions Office	335-6432	SUB 107	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Adult Basic Education (GED, ESOL classes)	332-9477	Noel Center 619 N. Grant	M-Th 8 a.m9 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m 9 p.m. F 7:30 a.m5 p.m.
Bookstore	335-6655	SUB 102	M &Th 7:45 a.m5 p.m. T&W 7:45 a.m7 p.m. F 7:45 a.m3 p.m.	M-Th 7:30 a.m6 p.m.
Business Incubator	333-7409	Noel Center 619 N. Grant	M-F 8 a.m5 p.m.	M-F 8 a.m5 p.m.
Business Office (tuition, fees, IDs, parking stickers)	335-6419	ADM 101	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Cafeteria	335-6435	SUB 103	M-F 7:30 a.m7 p.m.	M-Th 7:15 a.m1:30 p.m.
Campus Police	335-6666 528-1974 (after hours)	GYM 107	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Career Services	335-6890	SUB 205	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m.*
Children's Center	335-6480	SH 121	M-F 7:30 a.m5:30 p.m.	M-F 7:30 a.m5:30 p.m.
Computer Lab	335-6612	LRC 301-303	M-Th 8 a.m10 p.m. F 8 a.m5 p.m.,Sun 2-5 p.m.	Call for hours
Continuing Education	335-6580	DH 101	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Continuing Education Drive-Thru Booth	335-6580	Parking Lot	M-Th 8:30 a.m7 p.m. F 8:30 a.m4 p.m.	M-Th 8 a.m7 p.m.
Counseling Center	335-6433	SUB 204	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Dean of Arts, Humanities & Distance Education	335-6412	CT 100	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m.*
Dean of Learning Resources & Developmental Education	335-6611	LRC 119	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m.*
Dean of Science & Health	335-6446	CT 100	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m.*
Dean of Technical Studies	335-6409	ET 152	M-F 8 a.m5 p.m.*	 M-Th 7:30 a.m5:30 p.m.*
Director of Intercollegiate Athletics	335-6567	SC 213A	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m.*

Campus Directory 7

Hours are subject to change. Hours vary during registration, special sessions and school holidays. * These offices close during the lunch hour.

Ĵ

Office	Phone	Location	Regular Hours	Summer Hours
Executive Vice President for Instruction	335-6413	ADM 202	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.n
General Information	335-6400	ADM	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Learning Resources Center	335-6639	LRC	M-Th 7:45 a.m10 p.m. F7:45am-5pm Sun2-5pm	M-Th 7:30 a.m9 p.m.
Media Relations and Publications (catalogs, schedules)	335-6416	ADM 211	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m
Off-Campus Programs	335-6661	CT 122	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
President's Office	335-6410	ADM 201	M-F 8 a.m 5 p.m.*	M-Th 7:30 a.m 5:30 p.r
Registrar	335-6404	SUB 202	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Special Projects	335-6578	SUB 204	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m
Sports Center & Community Recreation	335-6348	Sports Center	M-Th 6 a.m9 p.m. F 6 a.m7 p.m. Sat 9 a.m1 p.m.	M-Th 6 a.m9 p.m. F 6 a.m7 p.m. Sat 9 a.m1 p.m.
Student Activities	335-6403	Student Activity Center-Travis Hall	M-Th 8 a.m8 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Student Financial Services (loans, grants, scholarships, jobs for students, veterans)	335-6429	SUB 203	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Student Information Center	335-6432	SUB 107	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Telecourses	335-6412	CT 100B	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.m
Testing Center	335-6620	GYM 200	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.r
Tutoring Center	335-6612	LRC 200A	M-Th 8 a.m8 p.m. F 8 a.m5 p.m.	Call for hours
Upward Bound	335-6311	SUB 220	M-F 8 a.m5 p.m.* Sat 10 a.m3 p.m.	M-Th 7:30a.m5:30 p.m Sun-Th 6-week residentia program
Vice President for Business Affairs	335-6415	ADM 203	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.n
Vice President for Student Life (housing, insurance)	335-6684	ADM 212	M-F 8 a.m5 p.m.*	M-Th 7:30 a.m5:30 p.r

Odessa College Statement of Purpose

The Board of Trustees of the Odessa Junior College District (bereinafter called OC), in compliance with the Criteria for Accreditation of the Southern Association of Colleges and Schools, formalizes the beliefs, philosophy, goals, and objectives of OC with approval and publication of this document. This formal Statement of Purpose provides the core around which all institutional programs are built. Institutional planning and evaluation processes demonstrate a commitment from Board members, administration, faculty, and staff to the tenets expressed in this statement.

HISTORICAL BACKGROUND

8

The past of Odessa College, which celebrated its 50th anniversary during the 1996-97 school year, is interwoven with growth and progress. A review of its history 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, OC has grown steadily through the last 52 years. Approximately 5,000 students are enrolled in university-parallel and occupational/technical credit courses. During a year, almost 11,000 individuals also enroll in one or more Adult Basic Education, Continuing Education or Community Recreation courses.

Many university-parallel courses are offered for students planning to complete four-year degrees at senior colleges or universities and are freely transferable. Former OC 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 also are offered, and additional ones are planned to meet the needs of citizens who want to learn new or improve existing skills. With an average of forty-five percent of our students enrolled in



occupational/technical programs, OC continues to fulfill the workforce demands of our community.

Initially housed in temporary quarters in the old Odessa High School, OC's first classes 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.

The campus grew to 15 buildings on a 35acre plot by 1960. Today, the \$55 million campus spreads over 80 acres and includes some 25 buildings that house more than 150 classrooms, laboratories and other facilities.

OC boasts a \$7 million Sports Center with more than 110,000 square feet of floor space that houses athletics, physical education and community recreation activities. The college also is home to public television station KOCV-TV and public radio station KOCV-FM.

Odessa College has not only expanded its facilities, but has also expanded its educational services to much of West Texas. The OC service area now covers over 20,000 square miles, making it the largest service area for any community

college in Texas. OC offers extension courses and/or Adult Basic Education courses in thirteen towns as well as offering concurrent classes in six area high schools. As the college has grown, so has its effectiveness. Quality education and academic excellence have long been its hallmarks. As our community and service area needs change, Odessa College will restructure its programs to better serve its constituents.

VISION

Odessa College will become an institution that is student centered, both in its philosophy and its operation. All components of the institution will focus on how best to serve the needs of the student — traditional, non-traditional, on-campus, or off-campus. The institution will accept a student at whatever level he/she enters and will assist the student to advance as far along the learning spectrum as the student desires.

MISSION AND PURPOSE

Odessa College is a comprehensive community college. Our mission as trustees, administrators, faculty, and staff at Odessa College is to provide the finest educational opportunities possible for all residents of our fourteen-county service area who have the desire and ability to learn.

In accordance with our mission, OC's educational programs and services are designed to help people achieve their individual potential, to enrich their lives, and to become responsible and productive members of society. Thus, Odessa College exists for the following purposes:

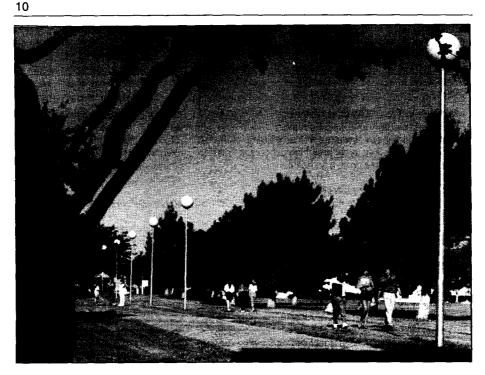
to provide the first two years of higher education and preprofessional programs for those students preparing to transfer for further education;

- to provide occupational/ technical training for those students desiring to obtain the comprehensive skills and knowledge required in specialized fields;
- to provide general and developmental education to prepare students for effective involvement in society;
- to provide continuing education that is a response to various community needs and desires; and
- to provide opportunities for personal enrichment.

PHILOSOPHY

Odessa College exists for students. The college, with its faculty and staff, is committed to excellence in its services, programs, and practices. It affirms equal access to all aspects of the institution for the diverse population it serves. The institution approaches all endeavors with the highest standards of ethics and professionalism.





City of 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 University Health Sciences Center is adjacent to Medical Center Hospital, providing additional health opportunities.

Odessa boasts a daily newspaper, five television stations, 20 radio stations and more than 150 churches. Numerous cultural, intellectual and recreational activities are available for the area's citizens.

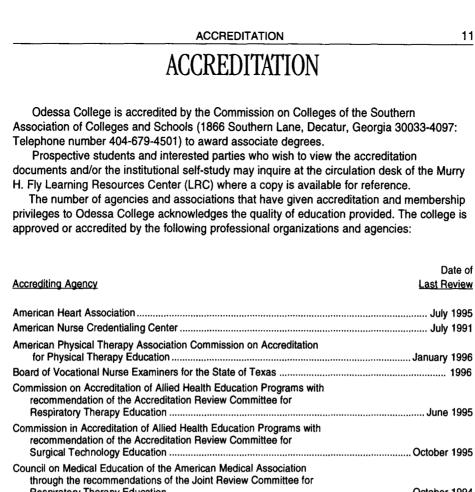
Odessa is a growing, progressive city where friendly people heartily support Odessa College and its efforts. Newcomers find Odessa a good place to live and to raise a family, as well as an enjoyable place to study and to work.

Equal Opportunity at Odessa College

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, OC will admit as students any persons who can benefit from the instructional programs offered. In addition, OC will strive to meet post-secondary educational needs of its students by restructuring current programs and by creating new programs when these actions will benefit 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 OC Human Resources Office, or to the Assistant Secretary for Civil Rights at the Department of Education, Washington, D.C. 20202.



Surgical Technology Education	October 1995
Council on Medical Education of the American Medical Association through the recommendations of the Joint Review Committee for Respiratory Therapy Education	October 1994
Federal Aviation Administration	
Joint Review Committee on Education in Radiologic Technology	October 1994
National Accrediting Agency for Clinical Laboratory Sciences with recommendations to the Committee on Allied Health Education and Accreditation	October 1992
National Association of Schools of Music	1991
National Certification Council for Activity Professionals	October 1994
National League for Nursing	
Southern Association of Colleges and Schools	
Texas Board of Private Investigators and Private Security Officers	1995
Texas Commission on Fire Protection Personnel Standards and Education	1995
Texas Commission on Law Enforcement Officers Standards and Education	January 31, 1995
Texas Department of Health, Division of Food and Drugs	
Texas Department of Health, Emergency Medical Services Division	
Texas Department of Human Services — Long Term Care Division, Medication Aide Program	
Texas Real Estate Commission	
Texas State Board of Examiners of Professional Counselors	•
Texas State Board of Social Worker Examiners	1995

Date of

SCHOOL YEAR

Fall Semester

Classes for the fall semester begin the middle to latter part of August and conclude before Christmas. Grade and scholastic standing reports are made available to students late in December. Formal winter graduation ceremonies are held at the end of the fall semester.

Spring Semester

Classes for the spring semester begin the middle part of January and conclude in early May. Formal graduation ceremonies are held at the end of the spring semester.

Summer Session

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 OC Counseling Center.

Midwinter Session

OC offers a special short-term 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, three or four-semester hour course during this special session.

Weekend College

In the Weekend College, all courses parallel those offered in the regular term except that they are compressed into a shorter time span. Full academic recognition is given these courses, and the time spent and the credit earned is equivalent to that of a regular session.

LEARNING OPTIONS

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 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.

Distance Education

Odessa College offers an extensive distance learning program. The college offers traditional instruction at numerous off-campus sites. In addition, instruction is offered using various distance learning technologies. These include an interactive, two-way audio-video network, telecourse instruction broadcast over the college licensed PBS station, KOCV-TV, computer modem and the Internet.

Extension Centers

The Regional Extension Center at Pyote (RECAP) provides many of the college courses offered on the Odessa College campus. Registration for any extension class can be completed at extension sites or at OC. Dates and times will be developed through the Student Services Office at Odessa College. Area newspapers usually carry notices of registration dates, times and a list of course offerings.

OC also offers classes at extension sites located in Andrews, Crane, Kermit, Monahans, Pecos, Seminole, Wink, McCamey, Imperial and other sites, as well as at Odessa High School, Permian High School and the Ector County Independent School District Career Center.

Information concerning extension centers can be obtained from the director of off-campus programs.

Interactive Two-Way Audio-Video Network (OC Net)

Classes are offered to Pecos, Wink and McCamey through a two-way compressed video system which allows students to see, hear and interact with their instructor via a large TV screen. Students use individual microphones in the classroom to talk with the instructor. Evening extension, dual credit and continuing education courses are offered via the network. Interactive classrooms are located in the high schools at Pecos, Wink and McCamey. Students may register for these classes on the OC campus during registration or at the off-campus sites during extension registration. Local newspapers publish registration dates, times, locations and lists of course offerings.

Modem/Internet Courses

Odessa College offers classes via the Internet and computer modem.

Students may take computer modem courses by using a computer modem to dial into the college's bulletin board system, the Flatlander. Students also may access the bulletin board via the Internet. Communication between teacher and student is done on the computer via electronic mail (e-mail), and students seldom meet face-toface with their instructor except for orientation, depending on the instructor's syllabus. Any student registering for this type of course must own or have access to a computer and a modem. Anyone who has a computer with access to

Anyone who has a computer with access the Internet and the technology to access the World Wide Web may take Internet courses.

Internet and computer modem courses may be useful for students who are distant from campus, have work schedules that conflict with class schedules, or for other reasons are unable to come regularly to campus. Modem-access and Internet courses are convenient and offer flexibility for students; however, these classes require more self-discipline than traditional

classes because they do not physically meet on a regular basis.

Students may register for these online courses during all regularly scheduled registration periods both on campus and at all off-campus sites.

TELECOURSES

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.

Students may register for the telecourses during all regularly scheduled registration periods both on campus and at all off-campus registration sites.

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 National 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.

Technical Programs

Odessa College offers a wide variety of technical programs designed to enable a student to enter his or her 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.

OC 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 OC, 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.

Continuing Education

Odessa College offers a wide variety of noncredit 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 obtain continuing education units (CEUs) through the program for certification and licensure requirements.

Non-credit courses, seminars, teleconferences and workshops offer a wide range of activities intended to accommodate individuals of all ages. During the year, OC will plan activities 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 benefit from these courses may enroll. Extension classes in area cities also are offered. Any student enrolled for non-credit in a credit course may apply for credit by examination where applicable.

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 Continuing Education courses may be obtained from the Continuing Education Office or the Drivethru Registration Booth or by calling the Continuing Education Office.

TRAINING FOR BUSINESS AND INDUSTRY

Continuing Education works with business and industry to provide education and training for employees. Contracts can range from billing for tuition for an individual enrolling in any course to providing a course for a company's employees on campus or at the business site. Customized training also is available.

BUSINESS INCUBATOR

The Odessa College Business Incubator is located at Noel Center, 619 N. Grant Ave., in downtown Odessa. 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.

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.

Those interested in learning more about the OC Business Incubator are invited to call the incubator manager or come to Noel Center for a tour.

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 stateadministered 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 3,000 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 and English for Speakers of Other Languages 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 and Andrews learning centers.

Assessment, counseling and orientation sessions are scheduled to begin at three-week intervals. The official GED pretest 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 Adult Basic Education. Adult Basic Education class schedules also are included in the Continuing Education Schedule.

Community Recreation

Classes offered through the college's Community Recreation program allow people of all ages to learn or improve in a number of lifetime activities. Classes include step and water aerobics, golf, gymnastics, racquetball, scuba, swimming, lifeguard training, country and western dance, and hunter safety.

Community residents also can choose from several types of memberships to the OC Sports Center, one of the finest recreational facilities in the Permian Basin. The facility features a Fitness Center/Super Circuit, heated indoor swimming pool, indoor track, weightrooms and racquetball courts. To enroll for a course or purchase a membership, come to the Sports Center. You also may register at the Drive-Thru Booth located to the east of the Administrative Wing of the Student Union Building.

Upward Bound

Upward Bound is a federally-funded project for high school students who have the potential to succeed in education beyond high school and need a broad base of support — academics, enrichment, motivation, career counseling and pre-college skills development — to accomplish their goals.

Students served by Upward Bound must meet be potential first generation college students and meet income guidelines. Eligible students are selected from a targeted high school in OC's service area.

During the school year, the Upward Bound participants receive academic and career services and come to the OC campus on Saturdays for enrichment classes and field trips.

During the summer, students participate in a six-week residential program. Students live on the OC campus in supervised residence halls and take classes in math, science, foreign language, English composition and literature. They also participate in cultural and other educational activities during the summer session.

For more information, contact Upward Bound.

ADMISSION REQUIREMENTS AND PROCEDURES

Odessa College has an open door admissions policy. Entrance examinations are not required; however, placement tests may be required. All applications, transcripts and other documentation should be completed and submitted a minimum of two weeks prior to the announced date of advance registration.

Admission to the college does not automatically admit students to all programs. Information regarding admission to or continuation in specific programs may be obtained from a counselor or department chair.

Requirements for Admission to the College

Admission to credit courses is based on a completed application form and criteria in one of the following categories:

HIGH SCHOOL GRADUATES

Submit an official high school transcript to the Admissions Office. This is required for all students who have never attended a post-secondary institution. Graduates of non-accredited high schools must present an official record of the high school work completed, the date of course completion, and must agree to limitations or conditions of admission established by the college.

GENERAL EDUCATIONAL DEVELOPMENT (GED) TEST RECIPIENTS

Submit an official report of test results to the Admissions Office.

TRANSFER STUDENTS

Students who have attended another college or university are eligible for admission. Submit to the Admissions Office an official transcript from all colleges or universities previously attended and a report of your Texas Academic Skills Program (TASP) Test scores, if required, prior to enrollment. If, because of time constraints, a student cannot submit a complete transcript prior to admission and enrollment, the student may submit an incomplete transcript or current grade report until an official transcript can be requested by the student.

STUDENTS ADMITTED BY INDIVIDUAL APPROVAL

Individuals who are 18 years of age or older and who do not qualify for admission under one of the other admission categories may be admitted on individual approval by the director of admissions if it is determined the person can benefit from study at the college.

RETURNING STUDENTS

Students in good standing who have attended OC but have not taken classes within the last calendar year must complete a reapplication for admission form in the Registrar's Office.

INTERNATIONAL STUDENTS (F-1 VISA)

Any individual from outside the United States may attend OC by meeting regular admissions standards, special admission requirements and deadlines for international students. In addition, international students must agree to comply with all international student regulations in order to remain enrolled. In order to be admitted, such students must submit:

a. A \$50 (U.S. currency) non-refundable application fee.

b. A deposit of \$1,500 (U.S. currency) (approximately equivalent to tuition and fees for two semesters) to be held in escrow. The deposit will be returned to the student during his or her last semester at OC.

c. An official transcript, in English, of all previous academic work and an educational summary work sheet of all previous education.

d. An official score report on the Test of English as a Foreign Language (TOEFL) with a minimum score of 525.

e. A physician's statement showing proof of immunization against diphtheria and tetanus within the last 10 years, a negative result on a tuberculosis test and evidence of good physical health.

f. A statement of financial ability to cover educational and living expenses for the expected time of enrollment. Students should expect to pay a minimum of \$8,000 per calendar year for these expenses excluding the cost of transportation. International students are not eligible for any financial aid through the Odessa College Student Financial Services Office. (Please note: On campus housing facilities are not available.)

g. Proof of medical insurance prior to admission. Verification of medical insurance is required for each subsequent semester of enrollment.

Dual Credit and Early Admissions

The Dual Credit Program allows high school junior and senior students the opportunity to earn college credit through OC. High school seniors also have the opportunity to earn college credits at OC through the Early Admissions Program.

To be eligible for the Dual Credit Program, students must have an overall grade point average of 3.0 in the semester immediately preceding enrollment in a college course or have scored above the 90th percentile on the achievement subtest in the content area for which the student wishes to enroll. The high school principal or the principal's designee must make any exceptions to this requirement.

High school students should contact their high school counselor who will assist in course selection and with the Dual Credit schedule. A student may take a maximum of two college classes in any semester.

The Early Admissions Program allows high school seniors the opportunity to earn college credit while completing requirements for high school graduation. Credits earned through the Early Admissions Program count only toward college credit.

To be eligible for the Early Admissions Program, high school seniors must be within four units or 12 quarter credits of graduation and be recommended by their high school principal or the principal's designee. Students may enroll for a maximum of two classes each semester under the Early Admissions Program.

High school seniors may participate in both the Dual Credit Program and the Early Admissions Program at the same time. However, students may take a maximum of two classes each semester whether they participate in one or both programs.

All Dual Credit Program and Early Admissions Program students must meet admissions requirements set forth for all OC students. Dual Credit students must also adhere to special policies regarding Dual Credit classes. All OC admissions, Dual Credit and Early Admission Program forms may be obtained from the high school counselor.

TASP—Texas Academic Skills Program Requirements

All students who enter a public institution of higher education in the fall of 1989 and thereafter must be tested for reading, writing and mathematics skills. This test is required prior to enrollment in college level classes with the exception of certain certificate programs.

Performance on the test will not be used as

a condition of admission. The test fee will be paid by the student.

Some students may be exempt from taking the TASP. Students may be exempt based on high TAAS, ACT or SAT scores. A list of exemptions for TASP can be found in the TASP registration bulletin available in the OC Testing Center and the OC Student Development (Counseling) Center.

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.

- 1. In-district resident: Students who are 18 years or older must be 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 younger than 18, their parents or legal guardian 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 younger than 18, their parents or legal guardian 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 younger than 18, their family's residence for the prior 12 months determines whether they are out-of-state residents.
- Foreign students: Foreign students are considered out-of-state residents.

WAIVER OF RESIDENCE REQUIREMENTS:

OC 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 OC according to guidelines pursuant to Title 2, Texas Education Code and Rules and Regulations for determining residence status as established by the Texas Higher Education Coordinating Board.

Copies of these guidelines are available for inspection in the Admissions Office. 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 OC or until they petition for and receive approval for change of status. Students who have been classified as nonresidents may petition for a change in their residency status after residing in Texas for 12 consecutive months.

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.

Special Programs and Requirements

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 the 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 OC 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.

SPECIAL ADMISSIONS REQUIREMENTS FOR SELECTED PROGRAMS

Admission to OC does not automatically include admission to all programs at the college. The following programs have selective admissions criteria. If a student anticipates enrolling in one of these programs, he or she should check with a counselor or department representative about program admission requirements:

> Clinical laboratory sciences Emergency medical technology (second year) Fire Academy Law Enforcement Academy Nursing Physical therapist assistant Radiologic technology Respiratory care State prison guard Surgical technology

TECH-PREP STUDENTS

Students who come to Odessa College from recognized tech-prep programs should make a counselor aware of that status to insure proper credit and placement.

ORIENTATION REQUIREMENT

ORIE 1100, Orientation to Odessa College, is required for first-time students who are taking six or more credit hours. Exempted from this requirement are Dual Credit and Early Admissions students and certain other students under special conditions. All other first-time students should enroll in ORIE 1100 during their first semester at OC. The course covers policies, rules and regulations and academic skills. Students receive one credit that counts toward total enrollment hours for the semester. The credit does not transfer or count towards graduation.

OC EXPERIENCE

All students new to Odessa College are encouraged to participate in OC Experience, a program designed with the new student in mind. Participants will have an opportunity to acquaint themselves with the campus, as well as services available to students once classes begin. OC Experience activities include placement testing (if needed), information sessions, a campus tour, academic advisement and the opportunity to register early. To sign up for OC Experience or for more information, please contact the Student Information Center.

MORE INFORMATION

For more information about Odessa College, contact the Student Information Center, Room 107 of the Student Union Building. Applications and transcripts should be submitted to the Director of Admissions, Odessa College, 201 West University, Odessa, Texas 79764.

REGISTRATION PROCESS

Odessa College offers a variety of opportunities for students to register for classes and activities. Individuals registering for credit classes have the following options:

Academic Advising and Scholastic Planning

An important part of the registration process takes place well in advance of actual registration. Each student has a reason for attending Odessa College and should plan his or her course of study accordingly. Counselors and faculty advisors are available to assist students in academic planning. Specifically, these professionals can help with meeting prerequisites for courses, testing requirements, credit by examination, transferring courses, etc. Each student should meet with an appropriate advisor to work out a course of study or degree plan as early as possible. This meeting should be initiated by the student and should occur before the first registration at OC.

Students who have a TASP liability are required to have their schedule of classes approved by an OC counselor each semester. All students must have a final sign off by a counselor or faculty advisor before proceeding to the final data entry point in the registration process.

Advance Registration

The college designates specific dates and times for advance registration for upcoming semesters. For a fall semester, these times occur during the summer months. Advance registration for spring semesters is set for the last of November or the first part of December. For summer sessions, advance registration is in late April or early May. Exact dates and times are published in the schedule of credit classes for each semester.

New students (first time in college or transfer students) and returning students who have not enrolled for classes at OC within the last calendar year should complete the application or reapplication process at least two weeks prior to the beginning of designated advance registration times.

Students who are enrolled at OC or who have been enrolled within the past calendar year are automatically eligible to participate in advance registration activities. All fees due for advance registration must be paid in full at the time designated for each semester in the class schedule to be maintained.

Regular Registration

Two or three days are designated at the beginning of each semester for student registration for credit classes. Students who have not participated in advance registration or who may not have paid their advance registration bill register alphabetically at the time designated. New students may also register at this time. Faculty advisors, counselors and other OC staff members are available to work with students during these regular registration times.

Late Registration

After the first day of classes, students may still register for credit classes for a specified period of time. Students who register late have the responsibility of making up any work missed prior to their first time to attend. The college reserves the right to limit the class load for students who register late. No late registration is permitted after the 12th class day for fall and spring semesters or after the fourth class day for a summer session. A late registration fee of \$10 is charged.

Extension and Other Off-Campus Registration

Students who attend classes at extension centers or concurrent enrollment classes at area high schools will have an opportunity to register at those sites. Dates and times are designated in the schedule of credit classes for each semester. Students who miss these times may come to campus to register at other designated registration times.

Non-Credit Registration

Students registering for continuing education classes may do so on an ongoing basis. This process takes place at the Continuing Education Office on the second floor of the Student Union Building. Mail-in registration and telephone registration with a credit card also are available.

OC also offers drive-up registration for noncredit continuing education classes. Please stop at the Drive-thru Booth at the end of the main drive entrance off West University Boulevard.

Sports activity and recreation classes are offered through Community Recreation at the Sports Center. Students may sign up at that facility during regular hours of operation. These opportunities are available both to students and community members.

18

Audit of Credit Classes

Students who want to register for a regular credit class on an audit basis must adhere to the following regulations:

- A student may not register for an audit until after the first class day.
- 2. 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.
- 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.
- Charges for auditing a course are the same as for regular registration.

Identification Cards

Odessa College requires photo identification cards for all on-campus, credit-hour students. ID cards are used for admission to Student Activities events, athletic events and fine arts presentations, for 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, in the Administrative Wing of the Student Union

Parking on Campus

Building.

A permit is required for each vehicle (including motorcycles and mopeds) parked on campus. Students may purchase a permit during registration or at other times during the year. Payments are made at the Business Office during regular office hours. A copy of parking regulations is available at the Business Office or from the Campus Police Office.

Continuing Education students will be provided a courtesy parking sticker when they register for non-credit classes.

Vehicles parked on campus without a permit displayed will be ticketed. Failure to pay fines assessed by tickets will result in holds placed on registration and transcripts.

STUDENT RECORDS Accuracy of Student Records

Each student is responsible for keeping his or her record accurate and up to date. Changes in name, social security number, address, telephone number, etc., must be submitted in writing and signed by the student. The Registrar's Office processes changes.

Directory Information

OC 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 each semester with the Registrar's Office.

Money Matters

TUITION AND FEES

Please note that the following tables reflect the 1997-98 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.

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

Parking fees and other course fees may be applicable.

LAB FEES PRIVATE INSTRUCTION FEES TRAVEL FEES TESTING FEES MISCELLANEOUS FEES

on pages 22, 23 for additional charges.

IN-DISTRICT TEXAS RESIDENT:

Semester Hours	Tuition	Reg Fee Non- Refundable	Building Use Fee	Activity Fee	ID Fee Non- Refundable	Computer Fee	**TOTAL BEFORE PARKING & OTHER FEES
1	42.00	15.00	12.00	10.00	1.00	1.00	81.00
2	42.00	15.00	24.00	10.00	1.00	2.00	94.00
3	42.00	15.00	36.00	10.00	1.00	3.00	107.00
4	56.00	15.00	48.00	10.00	1.00	4.00	134.00
5	70.00	15.00	60.00	10.00	1.00	5.00	161.00
6	84.00	15.00	72.00	10.00	1.00	6.00	188.00
7	98.00	15.00	84.00	11.00	1.00	7.00	216.00
8	112.00	15.00	96.00	12.00	1.00	8.00	244.00
9	126.00	15.00	108.00	13.00	1.00	9.00	272.00
10	140.00	15.00	120.00	14.00	1.00	10.00	300.00
11	154.00	15.00	132.00	15.00	1.00	11.00	328.00
12	168.00	15.00	144.00	16.00	1.00	12.00	356.00
13	182.00	15.00	156.00	17.00	1.00	13.00	384.00
14	196.00	15.00	162.00	18.00	1.00	14.00	406.00
15	210.00	15.00	168.00	19.00	1.00	15.00	428.00
16	224.00	15.00	174.00	20.00	1.00	16.00	450.00
17	238.00	15.00	180.00	21.00	1.00	17.00	472.00
18	252.00	15.00	186.00	22.00	1.00	18.00	494.00
19	266.00	15.00	192.00	23.00	1.00	19.00	516.00
20	280.00	15.00	198.00	24.00	1.00	20.00	538.00
21	294.00	15.00	204.00	25.00	1.00	21.00	560.00
22	308.00	15.00	210.00	26.00	1.00	22.00	582.00
23	322.00	15.00	216.00	27.00	1.00	23.00	604.00
24	336.00	15.00	222.00	28.00	1.00	24.00	626.00
25	350.00	15.00	228.00	29.00	1.00	25.00	648.00

See:

MONEY MATTERS

21

OUT-OI	-DISTRIC	T TEXAS RES	DENT:				**TOTAL
Semester Hours	Tuition	Reg Fee Non- Refundable	Building Use Fee	Activity Fee	ID Fee Non- Refundable	Computer Fee	BEFORE PARKING & OTHER FEES
1	57.00	15.00	12.00	10.00	1.00	1.00	96.0
2	57.00	15.00	24.00	10.00	1.00	2.00	109.0
3	57.00	15.00	36.00	10.00	1.00	3.00	122.0
4	76.00	15.00	48.00	10.00	1.00	4.00	154.0
5	95.00	15.00	60.00	10.00	1.00	5.00	186.0
6	114.00	15.00	72.00	10.00	1.00	6.00	218.0
7	133.00	15.00	84.00	11.00	1.00	7.00	251.0
8	152.00	15.00	96.00	12.00	1.00	8.00	284.0
9	171.00	15.00	108.00	13.00	1.00	9.00	317.0
10	190.00	15.00	120.00	14.00	1.00	10.00	350.0
11	209.00	15.00	132.00	15.00	1.00	11.00	383.0
12	228.00	15.00	144.00	16.00	1.00	12.00	416.0
13	247.00	15.00	156.00	17.00	1.00	13.00	449.0
14	266.00	15.00	162.00	18.00	1.00	14.00	476.0
15	285.00	15.00	168.00	19.00	1.00	15.00	503.0
16	304.00	15.00	174.00	20.00	1.00	16.00	530.0
17	323.00	15.00	180.00	21.00	1.00	17.00	557.0
18	342.00	15.00	186.00	22.00	1.00	18.00	584.0
19	361.00	15.00	192.00	23.00	1.00	19.00	611.0
20	380.00	15.00	198.00	24.00	1.00	20.00	638.0
21	399.00	15.00	204.00	25.00	1.00	21.00	665.0
22	418.00	15.00	210.00	26.00	1.00	22.00	692.0
23	437.00	15.00	216.00	27.00	1.00	23.00	719.0
24	456.00	15.00	222.00	28.00	1.00	24.00	746.0
25	475.00	15.00	228.00	29.00	1.00	25.00	773.0
OUT-O	F-STATE (OR FOREIGN	:				
Semester		Reg Fee Non-	Building	A chining	ID Fee Non-	Computer	**TOTAL BEFORE
Hours	Tuition	Refundable	Use Fee	Activity Fee	Refundable	Computer Fee	PARKING & OTHER FEES
1	207.00	15.00	12.00	10.00	1.00	1.00	246.0
2	207.00	15.00	24.00	10.00	1.00	2.00	259.0
3	207.00	15.00	36.00	10.00	1.00	3.00	272.0
4	226.00	15.00	48.00	10.00	1.00	4.00	304.0
5	245.00	15.00	60.00	10.00	1.00	5.00	336.0
6	264.00	15.00	72.00	10.00	1.00	6.00	368.0
7	283.00	15.00	84.00	11.00	1.00	7.00	401.0
8	302.00	15.00	96.00	12.00	1.00	8.00	434.0
9	321.00	15.00	108.00	13.00	1.00	9.00	467.0
10	340.00	15.00	120.00	14.00	1.00	10.00	500.0
11	359.00	15.00	132.00	15.00	1.00	11.00	533.0
12	378.00	15.00	144.00	16.00	1.00	12.00	566.0
13	397.00	15.00	156.00	17.00	1.00	13.00	599.0
14	410.00	15.00	160.00	10.00	1.00	14.00	606.0

14 15

16

17

18

19

20

21

22

23

24

25

416.00

435.00

454.00

473.00

492.00

511.00

530.00

549.00

568.00

587.00

606.00

625.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

15.00

162.00

168.00

174.00

180.00

186.00

192.00

198.00

204.00

210.00

216.00

222.00

228.00

18.00

19.00

20.00

21.00

22.00

23.00

24.00

25.00

26.00

27.00

28.00

29.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

1.00

14.00

15.00

16.00

17.00

18.00

19.00

20.00

21.00

22.00 23.00

24.00

25.00

626.00

653.00

680.00

707.00 734.00

761.00

788.00

815.00

842.00 869.00

896.00

923.00

٣

<u>.</u>

No.

AB FEES	
griculture (AGRI 1309)	
rt-Basic Photography (ARTS 2356, 2357)	10.00
\rt-Pottery (ARTS 2346, 2347)	
Art-Sculpture (ARTS 2326, 2327)	
Automotive Technology (Except AUTO 1301, 2377)	
Biology (Except BIOL 1170, 2306, 2470)	
Biology (BIOL 2470)	
Building Trades (Except BLDG 2377)	
Business Computer Info Systems (Except 1200, 2377)	
Chemistry (1105,1111,1112, 2101, 2123, 2125)	
Child Development (CDEC1311,1318,1319,1356,1357,1358,1359,1413,2421)	
Clinical Laboratory Science (CLSC 1211, 1212, 1500, 2211, 2212)	
Computer Science (All Courses)	
Culinary Arts (CULI 1201, 1202, 1203, 1206, 1207, 1208, 2210, 2211, 2212)	20.00
Culinary Arts (CULI 2215,2216,2217))	
Diesel Mechanics (Except DESL 1377, 2377)	24.00
Drafting (Except DFTG 1405, 1409, 1452, 2381)	5.00
Drafting (DFTG 1409, 1452)	24.00
Elect. & Electronics (Except ELEC 2205, 2302, 2305, 2377, 2414)	24.00
Elect. & Electronics (ELEC 2414)	15.00
Emergency Medical Technology (EMED 1501, 2601, 2801, 2802)	15.00
English (ENGL 0171, 0172, 0173, 0174 Word Processing)	5.00
Inglish (ENGL 0370,1301, 1312, 2311 Word Processing)	
ire Technology (FIRE 1204, 1402, 1503)	24.00
Foreign Language (All 1411 and 1412 courses)	10.00
Geology (GEOL 1403, 1404)	15.00
leating, Vent, Air Conditioning (Except HVAC 2302, 2305, 2377)	24.00
aw Enforcement/Criminal Justice (CRIJ 2370)	
aw Enforcement/Criminal Justice (CRIJ 2471)	
aw Enforcement Academy (CRIJ 2475)	
aw Enforcement Academy (CRIJ 2476)	
Machine Technology (Except MCHN 2381)	
Maintenance Technology (Except MAIN 2377)	
Mass Communication (COMM 1316, 1318, 1319)	
Ausic, Class Instruction (MUSI 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177))	20.00
Nursing (Except NURS 1201, 1611, 1613, 2344)	15.00
Dccupational Safety/Health Technology (OSHA 1310,1320,2395,2396)	10.00
Office Education (OFST Except 1200,1324, 1401, 1402, 1515, 2101, 2377, 2420)	10.00
Office Education (OFST 1200, 1401, 2101)	5.00
Petroleum Technology (PETR 1380)	15.00
Photography (Except PHOT 2370, 2377, 2390)	10.00
Photography (PHOT 2390)	
Physical Education (Except PHED 1100, 1107, 1108, 1109, 1117, 1119, 1136, 1137, 1138,	
1139, 1141, 1152, 1238, 1301, 1304, 1306, 1346, 2136, 2137, 2138, 2139, 2141, 2278, 2376).	5.00
Physical Education (PHED 1100, 1107, 1306)	
Physical Education (PHED 1108, 1109, 1117, 1119, 1152)	
Physics (All Courses)	
Radiologic Technology (XRAY 1111, 1112, 1314, 1402)	
Reading (All courses per semester hour)	
Respiratory Care (RESP 1115, 1301, 1310, 1332, 1400, 1405, 2315, 2320, 2364)	
Surgical Technology (SURG 1411)	
Velding (Except WLDG 2381)	

PRIVATE INSTRUCTION FEES

	Applied Music, Private Instruction (1/2 hour) 20.00	
ali da	Applied Music, Private Instruction (1 hour) 40.00	

TRAVEL FEES

 Courses which necessitate student travel such as SPAN 1370, Intensive Spanish Practicum, BIOL 2470, Marine Ecology, or PHED 1123, Skiing will have additional fees for travel expense. Check with the course instructor or department chair for details.

TESTING FEES

-	Course	No. Test	Cost per Test	Total
۱	NURS 1611			10.00
-				
	NURS 1615			
ف	NURS 1615	1		
-	NURS 1821			
فينتن	NURS 2808	1		
	RESP 1333			
	RESP 2362			

MISCELLANEOUS FEES

	Advanced Standing Examination	
ی ا	Diesel Technology (Uniform Fee-DESL 1501)	
	Diesel Technology (Uniform Cleaning Fee-DESL 1503, DESL 2510, DESL 2511)	16.00
	Fire Academy (Equipment & Books, Estimated)	190.00
	General Property Deposit (Refundable by request)	10.00
•	Late registration Fee	10.00
and the second	Law Enforcement Academy (Equipment and Books)	
-	Law Enforcement/Criminal Justice-State Prison Guard Skills (CRIJ 1373)	44.00
	Legal Assistant Access Fee (Except LEGL 2377)	
and the	LVN Nursing (Andrews & Monahans Equipment Fee-NURS 1611)	180.00
	LVN, Nursing (Andrews & Monahans State License Fee/Review Course Fee-NURS 1	615) 261.00
فتشتعه	Red Cross Certification Fee (PHED 1306)	5.00
-	Respiratory Care (Equipment Fee RESP 1111)	
	Schedule Change Fee	5.00
	Student Identification Fee (Each Semester, Non-Refundable)	1.00
	*Student Liability Insurance (Fall and Spring Semester)	8.00
فتنفص	*Student Liability Insurance (Summer I and II)	6.00
	*Student Liability Insurance (Cosmetology Students - per course)	5.00
(100 mil)	Transcript Requested from OC, Official Copy	
-	Transcript From Another Institution	
.	**Vehicle Registration, Fall and Spring Semester	4.00
outroite	**Vehicle Registration, Summer I and II	
النقات	-	

*Student liability insurance or proof of comparable coverage is required for students enrolled in child development, clinical laboratory sciences, cosmetology, emergency medical technology, nursing, physical therapist assistant, radiologic technology, respiratory care, student trainer and surgical technology.

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

Estimated Cost Per Semester

Students must purchase their own textbooks, workbooks and supplies such as paper and pencils. Some courses also require the purchase of special supplies.

Estimated In-District Student Expe	nse			
Semester Hours	3	9	15	
Required Tuition and Fees	\$107	\$272	\$428	2
Parking Fee (optional)	4	4	4	
Property Deposit	10	10	10	é
Lab Fee (average \$15 per course)	15	30	30	
Books (based on \$60 per book)	60	180	300	Í
Total Per Semester	\$196	\$496	\$772	
Estimated Out-of-District Student E	xpense			
(Non-Resident of the College District)	-	•	45	í.
Semester Hours	3	9	15	
Required Tuition and Fees	\$122	\$317	\$503	
Parking Fee (optional)	4	4	4	
Property Deposit	10	10	10	
Lab Fee (average \$15 per course)	15	30	30	
Books (based on \$60 per book)	60	180	300	(
Total Per Semester	\$211	\$541	\$847	,

PAYMENT AND REFUND POLICIES

Payment by check

Positive identification (driver license preferred) is required for any payment to OC. 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.

Installment Payments

Installment payment plans are offered for payment of tuition and fees. Students pay in three installments, the first a down payment of one-half of the tuition and fees plus \$5 of a \$15 processing fee. The balance is paid in two payments, each for one-fourth of the tuition and fees plus \$5 for processing.

Schedule Change Fee

A schedule change fee of \$5 will be charged for classes added during the first 12 class days of a regular semester or during the first four class days of a summer session except when the change is for the convenience of the college, a change in class time, a 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.

Returned Check Policy

All returned checks are collected through Checks Inc. A returned check fee of \$27.06 is charged per check by Checks Inc. Returned checks should be paid within five days of the date notification is mailed to the student. Checks returned for tuition and fees may result in the student's automatic withdrawal from the college and all college records may be withheld. The student may reenroll upon payment of all tuition and fees due. Odessa College reserves the right to require payment in cash from individuals with a history of returned checks.

Students attempting to drop classes by stopping payment of their check instead of initiating approved drop procedures through the Registrar's Office shall be subject to the normal returned check penalties.

Debts Owed the College

All forms of indebtedness to the college, including tuition, fees, fines, institutional loans, returned checks, property loss and property damage, must be paid before a student may re-enroll or have a transcript request honored. Failure to pay an outstanding account can result in the student being withdrawn from classes.

Dropping a Course or Withdrawing From College

A student wishing to drop a course or withdraw from college should obtain a drop or withdrawal form from the Registrar's Office. Students are encouraged to consult with instructors and must see a counselor prior to withdrawal.

The student must withdraw either in person or by written or faxed information to the Registar's Office. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule.

No longer attending class does not automatically constitute withdrawal from that class, nor does a student's notification to an instructor that the student wishes to be dropped. Failure of a student to officially drop a class will result in a grade of "F."

Refund Policy

The refund policy for both complete withdrawals and dropped classes is as follows:

Refunds Before First Day of Classes

1. A 100% refund for complete withdrawals (less any non-refundable fees).

2. A 100% refund for dropped classes.

Refunds on/or After First Day of Classes

		0.0000
	For Dropped Classes	For Complete Withdrawals From College
Fall and Spring Semesters		
During the first 15 class days	100%	75%
During the 16th through 20th		
class days	25%	25%
After the 20th class day	None	None
Summer Semesters		
During the first five class days	100%	75%
During the sixth through seventh		
class days	25%	25%
After the seventh class day	None	None

Canceled Classes

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

Other Than Semester-Length Courses

Refund of tuition and fees will be calculated on varying scales, depending on the course length.

Method of Calculating Class Days

For purposes of the refund policy, a class day is defined as a day during which college classes are conducted. The count begins with the first day classes are held in the term and includes each consecutive day thereafter. The count in not just of days a particular class meets.

Refunds will be processed after the last class day to withdraw for each semester. Allow two to three weeks for receipt of refund check after the processing date. Odessa College reserves the right to deduct from the refund any outstanding financial obligations to the college.

STUDENT FINANCIAL SERVICES

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 Student Financial Services 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 OC Student Financial Services. 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 four 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 threefourths of a full-time award; (3) enrollment in six to eight semester hours for one-half of a full-time award; and (4) enrollment in less than six hours.

Application for a Pell Grant is made by completing a FAFSA. Students will receive a Student Aid Report (SAR) from the Pell Grant processing center as a result of their application.

The Federal Supplemental Educational Opportunity Grant (SEOG) is for students with high financial need who are enrolled in at least six semester hours. It 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. These

students should be enrolled in at least six credit hours. It 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. Because not all financial institutions participate in the program, students may not be able to use their regular banking institution. The Student Financial Services Office will assist in trying to locate a lender if the student is unable to find one.

Application requirements include a FAFSA and an institutional aid application because the FFELP is completely need-based. This program is fully described in the Financial Aid Bulletin.

Federal Stafford Loans are available to dependent, independent and graduate students. Recipients should be enrolled in at least six credit hours and demonstrate financial need as indicated by the FAFSA. Interest rates and payment schedules are available in the Student Financial Services Office.

The **Unsubsidized Federal Stafford Loan Program** is intended to provide loans primarily to independent 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.

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 usually begin 60 days after disbursement. Parents do not have to fill out the FAFSA. Dependent students may borrow an unsubsidized Stafford if their parents do qualify for a PLUS.

Short-term institutional loans are made by OC to assist students with registration costs. A student attempting to enroll at OC is eligible to apply if the student has at least a 2.00 GPA, is 18 years or older and 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. Students repay these loans in three installments, the first a down payment of at least 10 percent, or a minimum of \$25, plus \$5 of a \$15 processing fee. The balance is paid in two payments, each of which includes \$5 for processing. 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 more than 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 annually awards more than \$150,000 in academic scholarships to recognize scholastic merit. Some scholarships have no residency requirements. Others are designated for individuals from Ector County and 14 other West Texas counties: Andrews, Brewster, Crane,

Culberson, Gaines, Jeff Davis, Loving, Pecos, Presidio, Reeves, Terrell, Upton, Winkler and Ward. These scholarships are awarded based on varying levels of academic achievement.

Please note: A list of scholarships, amounts of each, number awarded each year and requirements is available from OC Student Financial Services.

Scholarships awarded by Student Financial Services: June 15 is the deadline to apply for academic scholarships awarded by OC for the fall semester. These include the M.L. Mangrum, Half Century, Leland Croft, L.M. Adair, Odessa College Academic, Parker Endowment, Property Deposit, Davidson, Mary and Travis Simpson, Slaton-Bassett, and Trigger Vance Phillips scholarships. Students apply to the Student Financial Services Office.

Academic scholarship applicants must submit a completed scholarship application and high school and college transcripts to the Student Financial Services Office. Applications are ranked according to the students' grade point averages, with some consideration given to an essay and completed coursework. A committee appointed by the director of Student Financial Services selects academic scholarship recipients. The committee awards scholarships to the highest ranking students until funds are depleted. Students must reapply each academic year.

Departmental scholarships are offered each year through the art and music departments and are awarded based on performance, merit, skill and ability. Other departments that award scholarships are cosmetology, nursing, petroleum, photography and social sciences. 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 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 OC 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 3.0 grade point average to maintain their eligibility. Applications are available from the foundation or from area high school courselors.

Other scholarships: In addition to the scholarships described above, others are available to students attending Odessa College. Many individuals and organizations cooperate with OC 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.

Tuition Tax Credits

Beginning January 1, 1998, taxpayers may be eligible to claim a Hope Scholarship Credit against their federal income taxes. The Hope Scholarship Credit may be claimed for the qualified tuition and related expenses of each student in the taxpayer's family who is enrolled at least half-time in one of the first two years of college. You may claim 100 percent of the first \$1,000 of the taxpayer's out-of-pocket expenses, plus 50 percent of the second \$1,000 of the taxpayer's expenses. The amount a taxpayer may claim as a Hope Scholarship Credit may be reduced according to annual income. Please ask your tax advisor if you qualify for the credit.

The Lifetime Learning Credit will be available July 1, 1998, and is a credit against federal income taxes. The credit is equal to 20 percent of the taxpayer's first \$5,000 of out-ofpocket expenses for qualified tuition and related expenses for all the students in the family.

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 because their top-ranking status is certainly worthy of consideration for other awards.

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 previously, students are strongly encouraged to inquire into the possible benefits of the Department of Veterans Affairs as far in advance of the semester of planned attendance as possible. This procedure facilitates the coordination of educational claims for benefits between OC and the regional VA office and avoids delays that could occur in the award cycle. The Veteran's Office is a component of the Student Financial Services 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 OC Veteran's Office of any change in enrollment that may affect their educational benefits.

Academic and Class Information

ACADEMIC INFORMATION AND STANDARDS

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.

Class Attendance

Students are expected to attend all classes in which they are enrolled. The college requires instructors to keep accurate student attendance records; therefore, any student who must be absent from class for any reason should immediately consult with his or her instructor regarding the absence.

Students should understand that being absent from class seriously jeopardizes the possibility of success in a course. Any student who misses as much as 20 percent of scheduled class time in any semester should review his or her standing in the class with the instructor and determine whether to continue in the class or withdraw. If a student decides to withdraw from a class, he or she must comply with the deadlines published in the college's calendar.

Students enrolled in developmental courses in English, mathematics and reading because of scores on the TASP test should understand that attendance in those classes is mandatory under state law. A student in a developmental course who exceeds the number of absences listed below will be withdrawn from all classes in which he or she is registered. The student will be withdrawn after:

 nine (9) absences in a class that meets three times per week,

 six (6) absences in a class that meets two times per week,

• three (3) absences in a class that meets one time per week, or

 failure to attend and achieve progress in an individualized course of study which is assigned in lieu of enrollment in a scheduled developmental class.

Withdrawal

So that all records are left in proper order, students who leave OC 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 Load

The normal class 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 classes 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 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 fulltime 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 threehour course taken. Students are encouraged to consult a college counselor or faculty advisor to determine the best program possible.

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 credit 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 the 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 OC. 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 OC 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 Affairs benefits.

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 who 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 with Honors

A candidate for the associate 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 3.90 to 4.0 will be graduated summa cum laude.

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
فت	<u>Grade</u>	Description	Hour
	Α	Excellent	4
	В	Above average	
	С	Average	
	D	Passing, but poor	1
ent rein	F	Failure	0
	The follow	ing grades are not used for C	BPA
فلأرقف	calculation	าร:	
	Grade	Description	
i da la composición de la composición d	PA	Passing	
	l	Incomplete	
inc.in	Р	In Progress	
	Z	No grade assessed;	
فسنك		requires re-enrollment.	
		Restricted to developmental	l
Stail 1		courses.	
	Ν	Audit	
	W	Withdrawn	
as' -a	S	Advanced Standing	
		(credit by examination)	
ia da	Т	Transfer credit	

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. 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 OC 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:

I. 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.

2. 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 OC Counseling Center and appropriate assistance from the developmental education program.

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 OC 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 OC the next long semester.

Appeal of Scholastic Suspension

Students who are placed on scholastic suspension may appeal their status to the director of admissions. Extenuating circumstances may allow such students to enroll under special conditions. Students on scholastic suspension may contact the Admission Office for appeal procedures.

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 OC, 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 OC 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 OC 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, students requesting a 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 end of the long semester immediately following the one in which
 the grade was assigned automatically will be changed to a grade of "F" by the college. 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.

Transferring Credit

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 OC 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. The evaluated courses will be used to complete graduation degree requirements. The courses are not 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, OC 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 determination 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 of Odessa College Credit to Another Institution

With the adoption of the Common Course Numbering System, transferring among Texas colleges and universities has become easier. This system allows students to take courses at OC that are numbered the same at many Texas public colleges and universities.

Courses taken at OC 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 OC 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 OC, 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 OC. 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 practices 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 OC have been cleared.

If another Texas public institution of higher education does not accept lower division academic course credit earned by a student at OC, that institution is obligated by the Texas Higher Education Coordinating Board to give written notice to the student and OC 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.

Military Experience and College Credit

While Odessa College does not routinely give academic credit for military experience, individuals are encouraged to utilize the credit by examination option if appropriate. Skills acquired in the military may be demonstrated on a departmental exam and credit awarded on the student's OC transcript. OC does award credit for physical education activity courses when a DD-214 is properly submitted to the Registrar's Office.

Students who passed the CLEP examinations while in the military may have their results evaluated under OC guidelines for awarding CLEP credit. Credit will be awarded if the college's standard for accepting CLEP credit is met. If military or CLEP credit has been awarded on an official transcript from another institution accredited by the appropriate regional accrediting association, that credit will be evaluated in the same manner as any other transfer work.

Odessa College is a Servicemen's Opportunity College and participates in ConAp, a program that admits new soldiers to the college at the time of their enlistment in the U.S. Army, Army Reserve or Army National Guard.

Articulation with Area High Schools

Articulation agreements between Odessa College and area school districts provide the opportunity for advanced placement in Odessa College for students enrolled in technical programs offered at Odessa College.

These agreements permit students to move directly into advanced courses upon presentation of evidence of skill mastery determined by appropriate documentation.

Information regarding these articulation agreements can be obtained from the Odessa College Admissions Office, Odessa College counselors or high school counselors.

Tech-Prep Programs

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 prepare them 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: child development, 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 an OC counselor for more information.

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. A \$3 charge will be made for all copies. Transcripts become the property of OC and cannot be returned to the student. Transcripts will be kept on file for one year and will be destroyed if the student has not enrolled.

A transcript of continuing education units earned in a non-credit course is available through the Continuing Education Office.

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.

PLANNING AND APPLYING FOR DEGREES AND CERTIFICATES

Students working toward a degree or certificate 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 OC counselor. The student will file a written, signed copy of the plan with the Registrar's Office.

Preparation for Degree Study

The Texas Higher Education Coordinating Board recommends that high school students who plan to seek a four-year college degree follow the advanced or the advanced honors diploma option. Students who plan on earning a technical degree (A.A.S.) should follow a tech-prep plan when possible. If a tech-prep program does not exist in the desired field, a student should follow the advanced or advanced honors diploma option and take electives in the field of interest. Students who graduate with the regular high school diploma are still admitted to OC but may find themselves needing to take courses that are not in the degree plan in order to prepare them for the higher-level courses or degree study.

Adults who have been out of the educational system for a period of time or who may not have earned a high school diploma or GED are encouraged to pursue degree options. Career exploration opportunities are available and placement tests may be given to help determine what preparation, if any, a student may need in order to succeed in degree courses.

Graduate Guarantee

In April of 1992, the Odessa College Board of Trustees adopted a resolution which guarantees, with certain limitations, the associate degrees and certificates awarded by OC. The guarantee refers to the transferability of academic credits and technical job skills. Specific details concerning this guarantee may be obtained through the Office of the Executive Vice President for Instruction.

Catalog Applicability

Students may graduate under the catalog in effect when they first entered OC 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.

Applying for Graduation

Students completing degree requirements during the summer or in December are encouraged to participate in the winter 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 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.

OC charges a \$15 graduation fee. Students also pay fees for caps and gowns and invitations.

Second Degrees

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

Instructional Support Services

Odessa College makes available to students and community members a variety of programs and services. These offerings support the instructional mission of the college and offer enrichment opportunities to participants.

Student Information Center

Every new student who attends Odessa College begins the admission process in the Student Information Center, which is the hub of the Enrollment Management division. The Student Information Center provides information about getting started in college. The center also sponsors lectures, workshops, facilitates the admissions process, provides general OC information and offers campus tours. The Student Information Center staff is available to help potential, current and existing students with college forms, questions and information about college in general.

Counseling and Academic Advising

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 family and other relationships and improving communications and decision-making 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.

Learning Assistance

Students who come to Odessa College with diagnosed conditions which may interfere with learning can receive special assistance. Accommodations for learning disabilities and/or ADD/ADHD may be provided when a student requests them. A Request for Accommodations form and guidelines for beginning the request process are available in the Counseling Center.

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 vice president for Student Life 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 Office of the Vice President for Student Life 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.

Special Projects

The Special Projects Office provides services to technical-vocational students who meet project guidelines. Assistance may include textbook loans, child care, transportation, financial aid referrals, advisement and workshops for eligible single parents, displaced homemakers or participants in designated non-traditional programs. Services are contingent on available federal funds.

Career Services

The Career Services Center is located in Room 205 of the Student Union Building. Careerrelated services are available to credit and noncredit students and graduates. Occupational information, career counseling and degree planning are available as well as computerized career assessments and referral for traditional career testing. Seminars on interviewing skills, resume writing, career and college choices and job hunting skills are offered throughout the year. The center maintains a career resource library for student use.

The center also maintains a job bank of both part-time and full-time employment. Information on local, state and national job openings is available. OC sponsors a career/job fair each year during the spring semester.

Students who have not yet decided on a major, need career information, referral to other services, college transfer information or job placement assistance should contact the Career Services Center.

Student Support Services

Student Support Services (SSS) is a federally-funded program which provides ongoing support for Odessa College students accepted in the SSS program. Students in the program benefit from a variety of intensive, one-on-one services and participate in various social and cultural special events. The major activities of the SSS project focus on providing counseling and academic support to participants to ensure their success in college and on providing opportunities for interaction with faculty, staff and other students to create a climate for educational success. Other activities include assessment of academic needs, personal success plans, instruction and tutoring, advising, counseling, mentoring, and continuous monitoring.

SSS participants must be either low-income, first generation college students, or disabled. Participants are selected based on information provided in a program application and are interviewed by SSS staff. Students interested in applying for the SSS program should contact the SSS office on the second floor of the Student Union Building.

Testing Center

The Testing Center, located in Room 200 of the Gymnasium, offers a variety of testing and assessment services designed to help students set and meet educational and career goals. Placement testing for students enrolling in English, math and/or biology is scheduled during registration periods and on a regular monthly basis. The Testing Center also schedules entrance examinations for specific programs such as nursing, surgical technology, physical therapy assistant and the law enforcement academy.

Ability, career, interest and interpersonal inventories are offered to students who are seeking increased self-awareness for career and educational decisions. A small fee is charged for these tests. The center is the testing site for telecourse students or those who are in special testing situations. Students who use the services of the Testing Center must provide picture identification.

OC is an approved testing site for standardized state and national exams such as TASP, ACT, SAT and GED, which are associated with college admissions and placement. Registration booklets and schedules of fees for these exams are available on campus or from local high school counselors. Students also may take CLEP exams through the OC Testing Center.

Learning Resources Center

The Murry H. Fly Learning Resources Center (LRC) supports the college's curriculum resulting in a primary emphasis on each student's individual study and research needs. The faculty and staff work with the LRC's Technical Services and Public Services Departments in choosing materials to support all college programs. More than 81,991 books, 395 current periodicals, eight daily, weekly and national newspapers, and 6,828 media holdings are available to enhance the educational process.

Students can take advantage of research services by attending orientations or instructional class tours. Emphasis is placed on identification of sources, retrieval of information, quality judgment and use of research tools such as the online public access catalog and CD-ROM and First Search Internet databases. Brochures and handouts are available for more complete information. In addition, there is a large reserve collection for specific assignments which provides supplemental materials for students.

The LRC's Media Services Department delivers and maintains audiovisual equipment for classroom instruction as well as campus functions. Graphic design also is offered to assist classroom and campus needs.

The LRC seeks to provide the finest informational services possible. Suggestions and comments to improve all areas of the LRC are continually and seriously are invited.

Developmental Education

Many students enter Odessa College lacking some of the basic skills necessary for college level reading, writing and mathematics. The Developmental Education 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 education courses and activities are available in basic English, basic mathematics, reading and study skills improvement. All courses listed in this program grant one or three credit hours. These credit hours do not satisfy the requirements of any degree plan at OC, and they may not 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 peer tutors. 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 Learning Resources Center, Room 200A.

TASP Requirements

The Texas State Education Code requires that all students who enter public institutions of higher education after the fall of 1989 be tested for reading, writing and mathematics skills. This includes all full-time and part-time students enrolled in a TASP-liable certificate or degree program. Performance on the test will not be used as a condition of admission. The test fee will be paid by the student.

Some students may be exempt from taking the TASP. A list of exemptions for TASP can be found in the TASP registration bulletin available in the OC Testing Center or Counseling Center. Vocational/technical students may be able to temporarily avoid taking the TASP if they are enrolled in an approved TASP-waived certificate program. Students should check with an OC counselor if they think they may be exempt or temporarily waived from the TASP requirements.

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

Campus Facilities and Life

CAMPUS FACILITIES

Bookstore

The Odessa College Bookstore is an auxiliary enterprise owned by operated by the college as a service to students, faculty, staff and the community. The Bookstore's objective is to provide all the necessary and supplementary materials needed for student success. Textbooks, school supplies and novelty items are among the items sold. Profits generated by the Bookstore are used to provide scholarships for OC students.

Student Housing

Students who compete for OC in intercollegiate athletics are required to live in oncampus housing facilities if they are unmarried and are not living with their parent or legal guardian. Priority also is given to other students on competitive scholarships for on-campus housing. If space is available after all student athletes and other competitive scholarship students are accommodated, the spaces may be reserved by other students. A \$100 deposit is required before a student is placed on a priority list for a room in an OC resident hall. Contact the Office of the Vice President for Student Life for information.

Cafeteria

The college cafeteria is located on the first floor of the Student Union Building. Students who live in campus residence halls participate in a meal plan, and food service is also available to all students, faculty and staff on a cash basis. Nonresident students may purchase a meal plan or a cash card for meals. Contact the food service director or the OC Business Office for more information.

Children's Center

The Odessa College Children's Center provides daytime care for some 50 to 60 children of community residents and students and operates a Head Start satellite center for 36 children. The Children's Center accepts children from birth to 6 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.

Sports Center

This 110,000 square-foot recreational complex located on the Odessa College campus is home to the OC Wrangler and Lady Wrangler basketball teams. In addition there are racquetball courts, two gymnasiums (one for competition and one for community activities), indoor and outdoor tracks, weight training facilities, a Fitness Center/ Super Circuit training room, a dance room and an indoor pool.

Students and community members all benefit from the classes and activities centralized at the Sports Center. Students who present a valid identification card have access to the facility and recreational equipment. Use of the Super Circuit is limited to individuals who are enrolled for use of that area.

The public is invited to be a part of the Sports Center. Activity cards may be purchased by non-students, and a variety of activity membership options are available. Individuals or groups also may rent the facility for special events or parties.

Meeting Facilities

Odessa College has meeting rooms available to both non-profit clubs and organizations and to businesses on a spaceavailable basis. There is no charge for non-profit organizations. Businesses may pay a fee depending on the type of event scheduled. Food service is also available through the OC Cafeteria. Also available for community organizations is the recently renovated 750-seat Deaderick Auditorium. Contact the following offices for more information about booking these facilities:

- Community Room, Special Events Room, Electronics Technology Building Room 130—Vice President for Business Affairs
- •Fine Arts Auditorium—Lonnie Clark, Instructor of Music
- •Deaderick Auditorium—Dean of Arts, Humanities and Distance Education

 Continuing Education Annex B or C— Continuing Education Office

Campus Police

The Odessa College Campus Police Office 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 may be contacted on a 24-hour basis for emergencies on campus. The office is located on the westside of the Gymnasium, Room 107.

Emergency Messages

Students should notify their parents, spouses and friends that the college staff will not interrupt classes to deliver a message unless there is a medical emergency (as deemed by college officials) or a death in the family.

Under federal law students' schedules cannot be given to a third party in either verbal or written form without the students' written permission.

Between 8 a.m.-5 p.m. weekdays, emergency messages for students should be directed to the Office of the Vice President for Student Life.

CAMPUS LIFE

Student Activities

Odessa 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 contributes to personal development through educational and social programming and through leadership in student organizations.

The interactions of students with each other and with the faculty on an informal basis can provide students with insights and understanding about their society and can enrich the quality of students' 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 free or for a minimal charge through the student activity fee. Information regarding specific events is available from the Student Activities Office.

The Student Activities Office is located in the Student Activity Center—Travis Hall. The Student Activity Center offers free pool, ping-pong and other games to students with a current OC ID. Student Activities also offers pool and ping-pong in the Sports Center.

Opportunities for students to participate in student activities include the following:

Clubs and Organizations

A number of diverse 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 Government Association

The Student Government Association (SGA) is designed to provide student input for information and decision making. It is a diverse body composed of current students selected from all components of the college. Student input groups provide a variety of perspectives to the administration as it makes decisions related to the welfare and interests of the student body. In addition, students are involved in the public relations and recruitment functions of the college. The composition, selection and direction of SGA will be determined by the Student Life administration of the college.

Intramurais

A program of intramural activities is offered each semester at Odessa College. The program is a function of Student Activities and operates out of the OC Sports Center, Room 204.

Choir and band

Odessa College's A Cappella Choir and Vocal Ensemble have gained international recognition for their musical abilities. Recent performances for the OC Choir have included ones for the Texas Music Educators Association in 1995 and tours to New York City, Austria and Switzerland. The college also has an active jazz band that performs regularly on campus and in the community. The jazz band has traveled to various locations in the United States and Mexico. The Music Department also sponsors a community band as well as a community choir for area citizens who maintain an interest in performing.

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 43 national titles. The institution has earned a national reputation for its outstanding athletic programs. More than 500 athletes from OC have won National Junior College All-American honors. The athletic program includes teams in women's basketball, cross country, track and rodeo. Men's teams compete in baseball, basketball, golf 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 Junior College Athletic Association tournaments every year. Some of the honors and titles won by OC 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 conference cochampions in 1979, conference champions in 1989, 1993 and 1994, and regional champions in 1988, 1989, 1990 and 1993. The 1993 team also won the state championship. Since 1992 four players have been designated All-American.

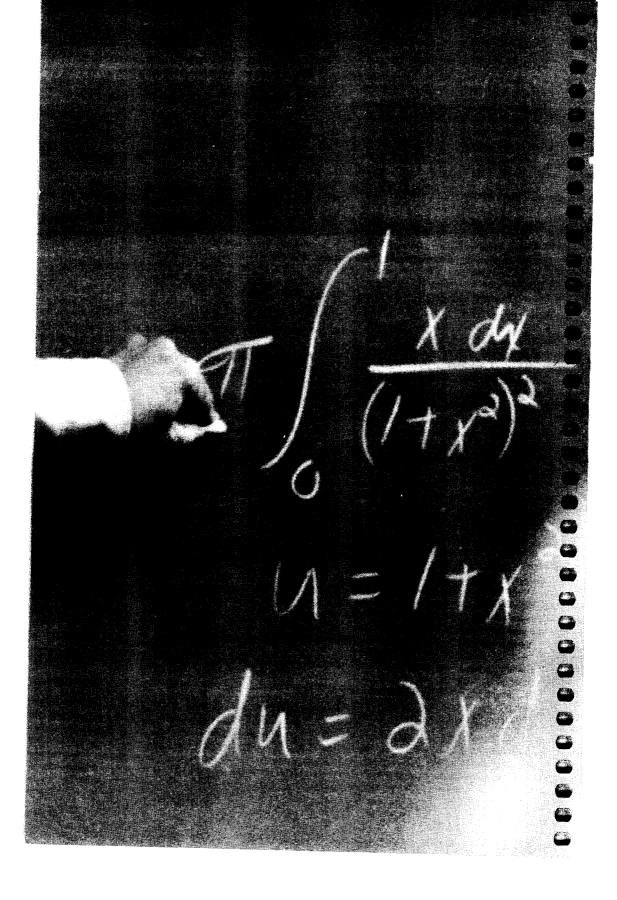
Women's Basketball: The Lady Wranglers have won the conference championship six times, in 1980, 1984, 1985, 1986, 1989 and 1991; and the regional championship five times, in 1980, 1985, 1986, 1989 and 1991. They finished second in the 1985 national tournament and won the NJCAA national championship in 1986 and 1991. They have produced 17 All-Americans, more than 50 All-Conference players and more than 40 All-Region players. For 16 consecutive years, they were 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.

Golf: In 1959, OC hosted the first National Junior College Golf Championship. OC won the national title in 1959, 1960, 1961, 1962, 1963 and 1965. The Wranglers have captured the conference title 17 times and have had 37 All-Americans in golf. OC won regional championships in 1988 and 1990 and finished eighth in the national tournament in 1991. The 1995 team finished seventh at nationals.

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, 1991 and 1994. Members of the women's team also qualified for the national finals in 1993 and 1994. The men's teams have won 12 regional event titles, two regional team championships, nine national event titles and the National Intercollegiate Rodeo Association 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. OC is recognized as a power rodeo school in the NIRA's Southwest Region.

Women's Track: In 1989, a women's track team was added to the OC athletic program and the team won the NJCAA national outdoor championship its first year out. The 1991 team finished third at the NJCAA national indoor meet and fourth at the NJCAA national outdoor meet. The 1994 team captured the NJCAA indoor national championship. The 1995 team finished fourth at both the indoor and outdoor meets. The women's cross country team finished sixth in the 1996 NJCAA national meet.

Men's Baseball: OC began competing in baseball in 1990 for the first time since 1969. The team advanced to the state tournament its first year and was both conference and regional champion in 1992. 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 and another All-American in 1994. A team member also was named an Academic All-American in 1994. The Wranglers were the conference champions in 1993 and the conference and regional runner-ups in 1994. In 1995 the Wranglers finished third in the nation in the JUCO World Series, with several team members winning national honors.





contents

Degrees and Certificates	44
Degree Requirements	47
Key to Course Description	50
Courses	51

Degrees and Instructional Programs 43

Degrees and Instructional Programs

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 Options) English Foreign Language Humanities (Art Option) Legal Assistant Mass Communication (Broadcasting/ Mass Communication Options) Music Psychology Sociology Social Science (Economics/Government/ History Options) Speech

*Please refer to page 47 of this catalog for degree requirements.

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:

Agriculture
Biology
Chemistry
Computer Science
Geology
Mathematics
Physical Education
(Exercise and Sport Science/
Athletic Training Options)
Physics
Psychology
Sociology

*Please refer to page 47 of this catalog for degree requirements.

Associate in Science in General Studies*

The Associate in Science in General Studies Degree, known as the A.S.G.S., is designed to allow the student to select from a wide range of courses that fulfill the requirement of a generalized education.

This degree will have most, if not all, courses that will transfer to senior institutions. 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.

*Please refer to page 48 of this catalog for degree requirements.

Pre-Professional Courses of Study

In those areas classified as pre-professionaldentistry, 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. OC awards the A.A.S. degree in the following areas: Automotive Technology **Building Trades** Child and Parent Development **Clinical Laboratory Sciences (Medical** Laboratory Technology) **Computer Information Systems** (Business Programming/PC Support Specialist Options) Cosmetology (Operator/Instructor Options) Culinary Arts **Diesel Technology** Drafting Technology Electrical and Electronics Technology **Emergency Medical Technology** Fire Technology Heating, Ventilation and Air Conditioning Human Services (Alcohol and Drug Abuse) Law Enforcement/Criminal Justice (Law Enforcement/Criminal Justice and Law Enforcement/Corrections Options) Legal Assistant Maintenance Technology Management Metal Trades Technologies (Industrial Machinist/ Industrial Welding Options) Nursing (RN) Occupational Safety and Health Technology Office Systems Technology (Office Systems/ Medical Emphasis/Legal Emphasis Options) Petroleum Technology Photography Physical Therapist Assistant

Radiologic Technology Respiratory Therapy Surgical Technology

*Please refer to page 49 of this catalog for degree requirements.

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, OC awards a Certificate of Technology in the following fields (refer to individual departmental sections for specific course and semester hour requirements):

Automotive Technology Air Conditioning and Heating Chassis Drivability Automotive Electronics Service Technician Manager **Diesel Technology** Heavy Equipment Specialist **Diesel Truck Specialist** Service Manager **Diesel Technician Building Maintenance** Basic Carpenter Helper **Basic Construction Technician Basic Cabinetmaker Technician** Advanced Construction Technician **Construction Estimator Drafting Technology** Architectural Detailer Machine Drafting Detailer Structural Drafting Detailer **Pipe Drafting Detailer Technical Illustrator** Electrical/Electronics Technology (Technician/Advanced Technician Options) Fire Technology **Fire Protection** Fire Technology Heating, Ventilation and Air Conditioning HVAC Technician (Basic/Advanced Options) Sheet Metal Technician **Commercial Refrigeration Maintenance** Technician **HVAC Shop Manager** Management General Management (General Management/Marketing/ Small Business Options) Industrial Supervision Management Advanced Skills

Metal Trades Technologies Machinist Machine Shop Foreman Computerized Numerical Control Programmer Milling Machine Operator Engine Lathe Operator General Welder Fitter Welder Certified Welder Pipe Welding Foreman Welding Machine Operator Occupational Safety and Health Technology Office Systems Technology Office Clerk Office Assistant Office Management Specialist Medical Office Clerk Medical Office Assistant Legal Office Clerk Legal Office Assistant Legal Office Specialist Medical Office Technology Specialist Petroleum Technology Safety and Environmental Technician Well Head Pumper Gas Compressor Operator Gas Plant Operator **Refinery Panel Operator**

Please refer to page 49 of this catalog for certificate requirements.

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. OC awards a Certificate of Completion in the following vocational fields (refer to individual departmental sections for specific course and semester hour requirements):

Child and Parent Development	
Child Care/Preschool Assistant Teacher	i
Child Development Associate (CDA)	
Child Care Management	
Child Care Aide	
Cosmetology	
Instructor	
Operator	ł
Culinary Arts	
Food Preparation Cook	
Food Production Cook	
Emergency Medical Technician	
Basic/Intermediate/Advanced Options	
Human Services (Drug and Alcohol Abuse)	
Law Enforcement/Criminal Justice	,
County Correctional Officer	
State Prison Guard	
Emergency Telecommunications/	
Dispatcher	
Texas Peace Officer	
Basic Law Enforcement Academy	
Advanced Peace Officer Skills	
Legal Assistant	1
(Legal Assistant/Advanced Legal	
Assistant Options)	
Phlebotomy	
Photography	
Photo Lab Assistant	
Commercial Studio Assistant	
Portrait Studio Assistant	,
Respiratory Therapy Technician	
Surgical Technology	,
Vocational Nursing (LVN)	

Please refer to page 49 of this catalog for certificate requirements.

DEGREE REQUIREMENTS

Residency Requirements:

Associate Degree

To receive an associate 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:

Over 50 percent of the total certificate hours must have been completed in residence at Odessa College. Also, over 50 percent of the technical/vocational program courses required for the certificate must have been completed in residence at Odessa OC.

Residency Requirements:

Award of Institutional Recognition An award of institutional recognition that

consists 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 OC.

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).

- Computer Science: A three-semester-hour minimum from COSC 1301, COSC 1415 or BCIS 1401.
 - 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. Veterans who have one year active service credit may satisfy the PHED requirement by submitting a copy of Form DD-214 to the Registrar's Office.
- 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.
 *Business administration A.A. degree requires three hours of sophomore English.

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.

Veterans who have one year active service credit may satisfy the PHED requirement by submitting a copy of Form DD-214 to the Registrar's Office.

- Science: A minimum of 12 semester hours. -
- Computer Science: A three-semester-hour minimum from COSC 1301, COSC 1415, BCIS 1401 or AGRI 1309.
- 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.

Associate in Science in **General Studies Degree**

To qualify for the associate of science in general studies degree (A.S.G.S.), students must complete the following requirements:

- A minimum of 63 semester hours and meet residency requirements.
- A minimum average of "C" (2.0) in all work taken at Odessa College.
- A minimum of 15 semester hours of sophomore courses.
- Students who are not TASP exempt must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.
- Complete the following requirements:

Semester Hrs

- Math and Science* 9 See Course Selection List that follows.)
- Social and Behavioral Science* 9 (See Course Selection List that follows.)
- Communication Science* 12 (See Course Selection List that follows.)
- Life Enrichment Electives* 9 (See Course Selection List that follows.)
- Other electives* 24 (See Course Selection List that follows.)

Total Semester Hours Required 63

* Course Selection List for Associate in Science in General Studies Degree Math and Science (nine semester hours required)

- Mathematics (three semester hours required): 1314, 1316, 1332, 1333, 1342, 1348, 2313, 2314, 2315, 2318, 2320
- Chemistry: 1311, 1312, 2301, 2323, 2325
- Biology: 1406, 1407, 1408, 2306 Geology: 1403, 1404

- Ability 1401, 1402 Agriculture: 1407, 1413, 1415, 1419, 2317 Social and Behavioral Science (nine semester hours required)
- History (three semester hours required): 1301, 1302
- Government (three semester hours required): 2301, 2302
- History: 2301, 2311, 2312, 2381
- Psychology: 2301, 2302, 2308, 2315, 2319 Sociology: 1301, 1306, 2301, 2306, 2326, 2371'
- Anthropology: 2301, 2351
- Geography: 1301, 1302
- Communication Science (12 semester hours required)
- English (six semester hours required): 1301, 1302, 1312, 2307, 2311, 2322, 2323, 2327, 2328, 2332, 2333
- Speech (three semester hours required): 1311, 1315, 1321, 2341
- Spanish: 1300, 1310, 1411, 1412, 2311, 2312, 2321, 2322
- French: 1411, 1412, 2311, 2312
- German: 1411, 1412, 2311, 2312
- Mass Communication: 1307, 1335, 1336, 2303, 2331
- Life Enrichment Electives (nine semester hours required)
- Computer Science (three semester hours required): COSC 1301 or COSC 1415, BCIS 1200*, BCIS 1401*, COSC 1418, COSC 2418
- Arts 1301, 1303, 1304
- Business Administration: 2301
- Child Development: 1311* (1302), 1318* (1311), 2341* (2303), 2421* (1408) Culinary Arts: 1201*, 1202*, 1203*, 1206*
- Engineering: 1304
- Management: 1301*, 1321*, 2322*, 2330* Music: 1301 (1370),1306, 1308
- Philosophy: 1301, 2306 Office Systems Technology: 1200*, 1402*, 1404*, 1406*, 1424*, 1421*, 1422*, 2410* (2304)
- Physical Education: (all courses)
- Mass Communication: 1316, 1318, 1319, and Photography: 2370*
- Other Electives (24 semester hours required) Any 24 semester hours from the preceding options with no more than 12 semester hours permitted from each option.

*Students should consult the catalog of the college or university they wish to transfer to prior to selecting courses from the preceding categories.

Associate in

Applied Science Degree

To qualify for the associate in applied science degree (A.A.S.), students must complete the following requirements:

- English: ENGL 1301
- Speech: SPCH 1315 or SPCH 1321 as specified in each program.
- Government: GOVT 2301 or GOVT 2302 as specified in each program.
- Computer Science: COSC 1301 or BCIS 1401 as specified in each program.*
- Mathematics: Three semester hours of college-level math as specified in each program.
 - Physical Education: Two one-hour activity classes.

Veterans who have one year active service credit may satisfy the PHED requirement by submitting a copy of Form DD-214 to the Registrar's Office.

- Philosophy/Fine Arts: Three hours as specified in each program. The Texas Higher Education Coordinating Board has determined that ENGL 1302 or courses with the course prefixes ARTS, COMM, FREN, GERM, LATI, MUAP, MUSI, PHIL, SPAN, or
 - SPCH will satisfy this requirement
- 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.
- 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.
- *Completion of the clinical laboratory sciences program or a passing score on the COSC 1301 competency-skills test, given by the computer science department, will satisfy this requirement.

Certificates of Technology

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.

- Over 50 percent of the total certificate hours must have been completed in residence at Odessa College. Also, over 50 percent of the technical/vocational program courses required for the certificate must have been completed in residence at Odessa College.
- Students who are not exempt from the provisions of TASP or not in a TASP-waived certificate program 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 one year 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. (See requirements under "Certificates of Technology.")

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.

KEY TO SCANS 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 have 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 work place 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)
- INTERPERSONAL DEVELOPMENT (such as working as member of a team, serving clients and customers, negotiation, leadership, and working with diversity)

- INFORMATION SKILLS (such as acquiring, evaluating, organizing, maintaining, interpreting, communicating, and using computers to process information)
- SYSTEMS AND OTHER COMPLEX INTERRELATIONSHIPS (such as understanding organizational systems, working within social and technological groups, distinguishing and improving the systems design)
- 8. SELECTING, APPLYING, AND MAINTAINING A VARIETY OF TECHNOLOGIES
- 9. CREATIVE THINKING, PROBLEM SOLVING, AND DECISION MAKING
- 10. DEVELOPING PERSONAL QUALITIES (such as responsibility, self-esteem, sociability, self-management, integrity and honesty)
- 11. LISTENING AND SPEAKING
- NOTE: Students enrolling in courses with a SCANS rating of 1, 2 or 3 should have a competency at the high school diploma or equivalency level or satisfactory placement score on an appropriate placement exam. Dual credit and early admission students in high school must have the approval of their high school principal or designee. Additional course prerequisites/corequisites may be found at the end of each course description.

Accounting (see Business Administration)

Agriculture

Faculty: Dr. T G Thomas.

Courses offered in the agriculture department are directed toward providing the student majoring in an agriculture science or a related field with a broad and sound foundation for advanced study at an upper-level institution or pre-professional preparation in veterinary medicine or wildlife management.

Course of Study for Associate in Science Degree Agriculture

General Education Requirements	Semesters H
BIOL 1406 General Biology I	•••••••••••••••••••••••••••••••••••••••
BIOL 1407 General Biology II	•••••••••••••••••••••••••••••••••••••••
CHEM 1311/1111 Gen. Inorganic Chemistry/Fundamentals of Chem La	
CHEM 1312/1112 Gen. Inorganic Chemistry/Fundamentals of Chem La	
ENGL 1301 Composition and Rhetoric	V II
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	
HIGT 1301 U.S. HISIORY to 1677	
HIST 1302 U.S. History from 1877	
MATH 1314 College Algebra or More Advanced	
MATH 1316 Plane Trigonometry or More Advanced	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking	
Major Requirements	
AGRI 1131 The Agricultural Industry	
AGRI 1419 Animal Science	
AGRI 1407 Agronomy	
**AGRI Elective	

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

**Second-year requirements for agriculture electives may be fulfilled by taking any combination of the following courses: AGRI 1413, AGRI 1415, and AGRI 2317. Choice of any elective may depend upon the students' plans for future study. Students should consult with the agriculture faculty for information regarding these courses.

Associate in Science Degree Agriculture—Equine Emphasis

Through the generous contribution of a prominent West Texas businessman, Odessa College has one of the largest and best-equipped equine facilities in the nation. Expressly donated for the development of the Odessa College rodeo team and students majoring in agriculture with an emphasis in equine science, this facility offers OC students a unique opportunity. The various components of the equine and related agricultural industries have been incorporated into an associate of science degree transferable to several senior institutions. Students should contact the coach of the Odessa College rodeo team and/or director of the Odessa College Rodeo and Agriculture Complex—Graham Center for information concerning scholarships and work-study jobs as well as stable for horses.

AGRICULTURE Course of Study for Associate in Science Degree Agriculture-Equine Emphasis **Semesters Hrs** BIOL 1406 General Biology I 4 BIOL 1407 General Biology II 4 CHEM 1311/1111 Gen. Inorganic Chemistry/Fundamentals of Chem Lab I 4 AGRI 1231 The Agricultural Industry 2 PHED 1114, PHED 1115, PHED 2116 Beginning, Intermediate and Advanced Horsemanship 3 **Agriculture Courses** AGRI 1131 The Agriculture Industry (01.0103.5221) (1-0)..... 1 hour An introductory course to the field of agriculture to aid in the understanding of the relationship of sciences and other fields of agriculture. Students will be required to read and comprehend extensive agricultural terminology. (SCANS 1) Prerequisite: None. AGRI 1231 The Agriculture Industry (01.0103.5221) An introduction of the basic components of the agricultural industry in the United States with a special consideration for changing economic focus of the equine industry. (SCANS 1) Prerequisite: None.

AGRI 1309 Computers in Agriculture (01.0101.5121)

Introductory course in the application of microcomputers in the agricultural environment. Students will be encouraged to develop a management system in some aspect of the care of horses or other animals associated with the program. Lab fee required. (SCANS 1, 2, 3, 5, 6, 8, 9) Prerequisite; None.

AGRI 1407 Agronomy (02.0402.5121)

A basic study of the classification and distribution of farm crops. Students will be required to evaluate and interpret information as it pertains to the study of the importance of good varieties and good seed. crop improvement, seed bed preparation, soils, soil erosion and conservation techniques, commercial fertilizers, crop rotation, crop tillage, harvesting, meadow and pasture management, pesticides, weeds and grasses, and irrigation systems. Decision-making and reasoning skills will be used in the proper application of agronomy principles. (SCANS 6, 9) Prerequisite: None.

_	AGRICULTURE - ANTHROPOLOGY 5
A	GRI 1413 Economic Entomology (02.0408.5121)
	(3-3)
A	GRI 1415 Horticulture (01.0601.5121) (3-3)
	This course familiarizes the student with the fields of horticulture and the place of horticulture is American agriculture. Students will be required to evaluate and interpret information as it pertains to the study of the structure, growth and development of horticulture plants. Reasoning skills will be use in decisions concerning control of environment and plant growth with considerations of biologic competition and progressive improvement of crops. Principles of propagation, greenhouse production of horticultural crops, pruning, pest control and landscaping are included. (SCANS 6, 9) Prerequisite None.
¢,	GRI 1419 Animal Science (02.0201.5121)
	(3-3)
Ą,	GRI 2317 Agriculture Economics (01.0103.5121)
	(3-3)
ŀ	GRI 2321 Livestock Evaluation I (02.0201.5221)
	(3-3)
ŀ	GRI 2322 Livestock Evaluation II (02.0201.5221)
	(3-3)
Þ	Anthropology (see Geology, Anthropology, and Geography)

Art

Faculty: Barry Phillips, III, chair; Barry Phillips, Steve Goff.

The Odessa College art department exists to provide quality art education for all members of the community. A professionally active faculty maintains labs for design, drawing, painting, printmaking, photography, sculpture, and pottery. Art students learn to create and evaluate visual images in order to develop a critical awareness of the visual environment. The department welcomes all students who are interested in learning about visual art and sponsors scholarships for students considering art as a major.

The following curriculum has been designed as a guide for those students wishing to prepare for a bachelor's degree in art education, studio art, or commercial art.

Course of Study for Associate in Arts Degree

Art

	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level) .	
**Foreign Language, Math, or Science	
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	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	

	Semester Hrs
Major Requirements ARTS 1303 Art History I	
ARTS 1303 Art History I	
ARTS 1304 Art History II	
ARTS 1311 Design I	3
ARTS 1312 Design Ił	
ARTS 1316 Drawing I	
ARTS 1317 Drawing II	
***Approved electives	
Fotal Semester Hours	
PHED 1100 should be the first course taken in physical education.	
*Six to eight semester hours in same discipline.	
***Any three sophomore level ARTS courses .	

Develops the ability to enjoy visual art and understand its importance. Introduces basic art theory, forms, and history. (SCANS 6, 9) Prerequisites: None.

ARTS 1303 Art History I (50.0703.5230)

Builds knowledge of the world's great civilizations, their art and artists, and the 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, 9) Prerequisites: None.

5	ART
	RTS 1304 Art History II (50.0703.5230)
3 hour	(3-0)
	Builds knowledge of the world's great civilizations, their art and artists, and the culture from the 1300s to the present. Develops the ability to identify, describ works in the history of visual art. (SCANS 6, 9) Prerequisites: None.
	NRTS 1311 Design I (50.0401.5330)
age, and photographi concepts, technique	(2-4) Develops the skill to create two-dimensional designs using drawing, painting, colla media. Introduces the principles/elements of two dimensional design, plus basic and and media essential to the organization and understanding of visual information. (SCA None.
	NRTS 1312 Design II (50.0401.5330)
3 hou	(2-4)
e-dimensional design	Develops the skill to create three-dimensional designs using wood, clay, and met plaster investment bronze casting. Introduces the principles/elements of three plus basic art concepts, techniques, and media essential to the organization visual information. (SCANS 6, 9) Prerequisites: None.
0.1	RTS 1316 Drawing I (50.0705.5230)
onment. Emphasize epts, techniques, an	(2-4) Develops the skill to create drawings from careful observation of the visual envir line and value drawings in pencil, charcoal, and ink. Introduces basic art conce media essential to the organization and understanding of visual information. (SCA None.
2 hou	ARTS 1317 Drawing II (50.0705.5230) (2-4)
il and pastels.Require epts, techniques, ar	Develops the skill to create expressive drawings. Emphasizes the use of color penci creative thinking in order to develop original images. Presents basic art conc media essential to the organization and understanding of visual information. (SCA ARTS 1316.
0 hour	ARTS 2316 Painting I (50.0708.5230) (2-4)
vlic paint and prope echniques, and medi	(2-4) Develops the skill to create expressive paintings. Emphasizes use of acry preparation of canvas and wooden supports. Presents advanced art concepts, to essential to the organization and understanding of visual information. (SCAN ARTS 1316 and ARTS 1311 or instructor approval.
	ARTS 2317 Painting II (50.0708.5230)
ion. Requires creative echniques, and med	(2-4) Develops the skill to create a series of paintings emphasizing individual express thinking in order to develop original images. Presents advanced art concepts, to essential to the organization and understanding of visual information. (SCAN ARTS 2316.
0 have	ARTS 2323 Figure Drawing I (50.0705.5330)
volume, anatomy an s, and media essenti	(2-4) Develops skill in drawing the human figure. Emphasizes handling of gesture, v proportion using a variety of media. Presents advanced art concepts, techniques to the organization and understanding of visual information. (SCANS 6, 9) Prer or instructor approval.
equisites: ARTS 13	
	ARTS 2324 Figure Drawing II (50.0705.5330) (2-4)

	ART
ARTS 2326 Sculpture	e I (50.0709.5130)
Develops the sk plaster investme to the organiza	3 hours cill to create expressive sculpture using clay, wood, and metals, including lost-wax ent bronze casting. Presents advanced art concepts, techniques, and media essential tion and understanding of visual information. Lab fee required. (SCANS 6, 9) RTS 1312 or instructor approval.
ARTS 2327 Sculpture	e II (50.0709.5130)
Develops the sl sculpture mediu Presents advanc	kill to create a sculpture series emphasizing individual expression in a particular im and technique. Requires creative thinking in order to develop original images ed art concepts, techniques, and media essential to the organization and understanding ation. Lab fee required. (SCANS 6, 9) Prerequisites: ARTS 2326.
ARTS 2333 Printmak	ting I (50.0710.5130)
Develops the sk advanced art co	kill to create original prints using relief, intaglio, and screen techniques. Presents oncepts, techniques, and media essential to the organization and understanding of on. (SCANS 6, 9) Prerequisites: ARTS 1316 or instructor approval.
	king II (50.0710.5130)
Develops the sl printmaking med Presents advanc	kill to create a series of prints emphasizing individual expression in a particula dium and technique. Requires creative thinking in order to develop original images red art concepts, techniques, and media essential to the organization and understanding ation. (SCANS 6, 9) Prerequisites: ARTS 2333.
ARTS 2346 Pottery I	
Develops the sk glaze, sawdust,	ill to create original pottery using coil, slab, and wheel techniques. Includes bisque, and raku firings. Presents advanced art concepts, technique, and media essential to and understanding of visual information. Lab fee required. (SCANS 6, 9) Prerequisites.
ARTS 2347 Pottery I	l (50.0711.5130)
Develops the sk order to develop	ill to create pottery emphasizing individual expression. Requires creative thinking ir o original images. Presents advanced art concepts, techniques, and media essentia tion and understanding of visual information. Lab fee required. (SCANS 6, 9)
ARTS 2356 Photogra	aphy I (50.0605.5130)
Introduces basic equipment, supp filters and printir	3 hours c applied and aesthetic aspects of photography. The student will assess and select plies and techniques to incorporate basic theories of film, exposure, development, ng. Lab fee required. (Scans 4, 8, 9) Prerequisites: TASP competency in reading, n or consent of the instructor.
-	aphy II (50.0605.5230)
A continuation of	f ARTS 2356. Designed for additional experience in the photographic medium. Lab fee IS 4, 8, 9) Prerequisites: ARTS 2356.
ARTS 2366 Watercol	
Develops the ski	

ARTS 2367 Watercolor II (50.0708.5330)

Automotive Technology

Faculty: Jurl Davis, chair.

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

	Semester Hrs
eneral Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
ajor Requirements	
AUTO 1502 Introduction to Automotive Engine Maintenance and Rebuilding	
AUTO 1503 Transmissions and Power Trains	
AUTO 1504 The Automotive Chassis	
AUTO 2377 Cooperative Work Experience	
AUTO 2501 Automotive Electrical Systems	
AUTO 2502 Heating and Air Conditioning	
AUTO 2503 Automotive Fuel and Emissions	
AUTO 2504 Automotive/Diesel Electronics I	
AUTO 2505 Automotive/Diesel Electronics II	
**AUTO elective (minimum 3 semester hours)	3

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

**AUTO 1301 Specialized Electronics Mathematics or AUTO 1505 Automotive Diesel

AUTOMOTIVE TECHNOLOGY	
Certificates of technology are available in the following job-specific See the program chair for course requirements and Permian Basin job of Level I certificates are TASP-waived.	fields. oportunities.
Automotive Technology Certificates of Techr	nology
Level I - Air Conditioning and Heating	
	Semester Hrs
AUTO 2501 Automotive Electrical Systems	
AUTO 2502 Heating and Air Conditioning	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
al Semester Hours	16
Level I - Chassis	
	Semester Hrs
AUTO 1502 Introduction to Automotive Engine or	
AUTO 1505 Automotive Diesel	5
AUTO 1504 The Automotive Chassis	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
I Semester Hours	
<u>Level I - Drivability</u>	Semester Hrs
AUTO 2503 Automotive Fuel and Emissions	5
AUTO 2504 Automotive/Diesel Electronics I	5
AUTO 2505 Automotive/Diesel Electronics II or	
AUTO 1503 Transmissions and Power Trains	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
Il Semester Hours	
Level I - Automotive Electronics Technician	
AUTO 1301 Specialized Electronics Math	Semester Hrs
AUTO 2501 Automotive Electrical Systems	
AUTO 2504 Automotive/Diesel Electronics I	
AUTO 2505 Automotive/Diesel Electronics II or	
AUTO 2377 Cooperative Work Experience plus 2 hrs approved credit	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
al Semester Hours	
Course of Study for Advanced Skills Certificate	
Level III - Service Manager Certificate	
May only be awarded along with or following completion of	
associate or higher-level degree.	Semester Hrs
eneral Education Requirements	
BCIS 1302 PC Operating Systems MGMT 1301 Introduction to Management	

Automotive Courses

	(3-0)
	Designed to provide an understanding of mathematics principles, formulate electronic theories an 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. La exercises are designed for students to use their reasoning ability to solve problems and mak decisions. (SCANS 3, 6, 7, 9) Prerequisite: Fundamental knowledge of mathematics or consent of the students to be a student of the student
ALIA	department chair.
701	(4-4)
	Presents theory and practice in basic principles of repair and maintenance of internal combustio engines. Includes study of engine designs and materials and proper use of hand and special tools use
	in the repair and maintenance of the automotive engine and its supporting systems. Students will us service manuals to organize technical information used to rebuild engines and maintain suppor systems. Students will use reasoning ability to recognize component failures. Students will learn t
	read and use precision measuring equipment and calculate clearances. The reading of technica material is required. Lab fee required. (SCANS 1, 3, 4, 6, 7, 8, 9) Prerequisite: None.
AUT	O 1503 Transmissions and Power Trains
	(4-4)
	transmission symptoms. Decision making and reasoning ability will be developed in lab exercises. Th reading of technical materials is required. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 8, 9, 10) Prerequisite None.
AUT	O 1504 The Automotive Chassis
	(4-4)
	related to brakes, front-end alignment and suspension systems. The student will use brake lathes computer aligning equipment and non-computer aligners. The student will calculate alignmer measures in degrees, fractions, and metrics. Lab exercises are designed to develop reasoning an decision-making abilities and improve self-esteem regarding alignment problems. The reading of
	technical materials is required. Lab fee required. (SCANS 3, 5, 6, 7, 9, 10, 11) Prerequisite: None
AUI	7 O 1505 Automotive Diesel (4-4)
	Includes theory and practice in principles for repair and maintenance of the automotive diesel engine Students will use manuals to assist in diagnosis of component failures and engine rebuilding. Precisic measuring equipment will be used to restore engines to specifications. Group work in the lab w develop reasoning abilities, team qualities, and communication skills. The reading of technic materials is required. Lab fee required. (SCANS 3, 5, 6, 8, 9, 11) Prerequisite: None.
AUI	TO 2377 Cooperative Work Experience (1-20)
	A capstone course designed to interrelate academic and vocational course lectures and labs wi
	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 skill Weekly lectures will address key workplace competencies to enhance the employability of a technical
	competent graduate. The reading of technical materials is required. (SCANS 5, 7, 9, 10, 1

AUTO 2501 Automotive Electrical Systems

AUTO 2502 Heating and Air Conditioning

AUTO 2503 Automotive Fuel and Emissions

AUTO 2504 Automotive/Diesel Electronics I

AUTO 2505 Automotive/Diesel Electronics II

Bible (see Social Sciences)

Biology

Faculty: Rebecca Hennig, chair; Carolyn Amiet, Dr. Chet Cooper, 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 upperlevel 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

فسنة	Semester Hr	'S
	General Education Requirements	0
۳	CHEM 1311/1111 General Inorganic Chemistry I/ Fundamentals of Chemistry Laboratory I	4
a in	CHEM 1312/1112 General Inorganic Chemistry II/ Fundamentals of Chemistry Laboratory II	
	CHEM 2323/2123 Organic Chemistry I/ Organic Chemistry Lab 1	
Sec.13	CHEM 2325/2125 Organic Chemistry II/ Organic Chemistry Lab II	
	COSC 1415 Introduction to Computer Science	
فأستعص	ENGL 1301 Composition and Rhetoric	
•	ENGL 1302 Composition and Literature	3
فلنتخل	ENGL (Sophomore Level)	
-	GOVT 2301 U.S. and Texas Government	3
أتسفخ	GOVT 2302 American National Government	3
-	HIST 1301 U.S. History to 1877	
فشعف	HIST 1302 U.S. History from 1877	3
	MATH 1314 College Algebra or More Advanced	3
ک	MATH 1316 Plane Trigonometry or More Advanced	3
	*PHED (any two one-hour activity courses)	2
نین	PHYS 1401 College Physics I	
si n	PHYS 1402 College Physics II	4
-	SPCH 1315 Public Speaking	3
فحفا	Major Requirements	~
		-
۳	BIOL 1406 General Biology I BIOL 1407 General Biology II	
	**Biology Electives	
۳	Blology Electives	D
-	Total Semester Hours	3
فنقة	*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	s:
.	BIOL 2306 General Ecology; BIOL 2470 Marine Ecology; BIOL 2420 Microbiology or BIOL 2428 Comparativ	
	Anatomy. Choice of an elective may depend upon students' plans for future study. Students should consult	
ک	with the biology faculty for information regarding these courses.	
6		

Biology Courses

BIOL 0371 Developmental Science (32.0106.5139)

This is a compensatory, non-transferable science course designed to improve basic knowledge of the biological sciences, develop critical thinking skills and teach students 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 and 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 and anatomy. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite: None.

BIOL 1170 Medical Terminology

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 (26.0101.5124)

BIOL 1407 General Biology II (26.0101.5124)

BIOL 1408 Principles of Biology (26.0101.5124)

BIOL 2306 General Ecology (03.0102.5124)

(3-3)

BIOL 2401 Anatomy & Physiology I (26.0706.5124)

This is the first semester of a two-semester course in which anatomy and physiology are integrally presented. Students learn anatomic and physiologic terminology, the principles of the relationships between form and function and basic mathematical calculations converting between the metric and English systems of measurement. Students also learn specific information about and concepts of basic chemistry, cell structure and chemistry, cell reproduction and tissue structure. The anatomy and physiology of four of the body's 11 systems are also presented. In laboratory investigations students acquire knowledge about bones, muscular function and microscopic examination of tissues. Lab fee is required. (SCANS 1, 3, 6, 9) Prerequisite: CHEM 1111 and CHEM 1311 or demonstration of basic competence in biology either by passing a placement exam or credit with a grade of "C" or better in one semester of BIOL 0371 or consent of the instructor. Credit in Biology 1170 and/or 2470 does not fulfill the prerequisite.

BIOL 2402 Anatomy & Physiology II (26.0706.5124)

•

4 hours

BIOL 2404 Human Anatomy & Physiology (26.0706.5124)

BIOL 2420 Microbiology (26.0501.5124)

BIOL 2428 Comparative Anatomy (26.0701.5324)

BIOL 2470 Marine Ecology (03.0102.7139)

Building Trades

Faculty: Jim Bates.

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.

BUILDING TRADES

Course of Study for Associate in Applied Science Degree Building Trades

Callin.

Building trades	
and Files share Demoissing and	Semester Hrs
neral Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1372 Technical College Algebra	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Sp	eech
ctive	
hnical Core	
MAIN 2404 Structural Repair	
ELEC 2410 National Electrical Code	
HVAC 1401 Refrigeration Theory	
MAIN 1402 Plumbing Fundamentals	
Iding Maintenance Specialist Option BLDG 1601 Construction Principles I	
BLDG 1602 Carpentry I BLDG 1603 Construction Principles II	
BLDG 1604 Carpentry II BLDG 2377 Cooperative Work Experience	
BLDG 23/7 Cooperative work Experience	
al Semester Hours	0
	······································
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech	nology
HED 1100 should be the first course taken in physical education.	nology
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived.	nology
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. <u>Level I Basic Carpenter Helper</u>	nology ific fields. o opportunities. Semester Hr.
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived.	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. <u>Level I Basic Carpenter Helper</u>	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. <u>Level I Basic Carpenter Helper</u> BLDG 1601 Construction Principles I	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1602 Carpentry I BLDG 1604 Carpentry II	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1602 Carpentry I BLDG 1604 Carpentry II	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1602 Carpentry I BLDG 1604 Carpentry II	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options)	nology ific fields. o opportunities. Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1602 Carpentry I BLDG 1604 Carpentry I PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours	nology ific fields. o opportunities. Semester Hr 2 Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry I PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I	nology ific fields. o opportunities. Semester Hr 2 Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1602 Carpentry I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1601 Construction Principles I BLDG 1601 Construction Principles I BLDG 1601 Construction Principles I BLDG 1601 Construction Principles I	nology ific fields. o opportunities. Semester Hr Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry I PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry	nology ific fields. o opportunities. Semester Hr 2 Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry I PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry I BLDG 1604 Carpent	nology ific fields. o opportunities. Semester Hr Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry I BLDG 1604 Carp	nology ific fields. o opportunities. Semester Hr Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry I	nology ific fields. o opportunities. Semester Hr Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry I BLDG 1604 Carp	nology ific fields. o opportunities. Semester Hr Semester Hr
HED 1100 should be the first course taken in physical education. Building Maintenance Certificates of Tech Certificates of technology are available in the following job-speci See the program chair for course requirements and Permian Basin job Level I certificates are TASP -waived. Level I Basic Carpenter Helper BLDG 1601 Construction Principles I BLDG 1604 Carpentry II PSYC 2302 Applied Psychology Approved Elective (See department chair for options) al Semester Hours Level I Basic Construction Technician BLDG 1601 Construction Principles I BLDG 1604 Carpentry I	nology ific fields. o opportunities. Semester Hr Semester Hr

BUILDING TRAI	DES
---------------	-----

Level I Basic Cabinetmaker Technician

	Semester Hrs
BLDG 2603 Cabinet Making I	6
BLDG 2607 Cabinet Making II	
PSYC 2302 Applied Psychology	
Approved Elective (See department chair for options)	
Total Semester Hours	

Level I Advanced Construction Technician

	Semester mis
BLDG 1601 Construction Principles 1	
BLDG 1602 Carpentry I	
BLDG 1603 Construction Principles II	
BLDG 1604 Carpentry II	
ELEC 2410 National Electrical Code	
MAIN 1402 Plumbing Fundamentals	
PSYC 2302 Applied Psychology	
Approved Elective (See department chair for options)	
Total Semester Hours	

Level II Construction Estimator

	Semester H
LDG 1601 Construction Principles I	
LDG 1602 Carpentry I	
LDG 1603 Construction Principles II	
LDG 1604 Carpentry II	
LDG 2601 Construction Principles III	
LDG 2603 Cabinet Making I	
OSC 1301 Introduction to Computer Systems	
SYC 2302 Applied Psychology	
pproved Elective (See department chair for options)	

Building Trades Courses

BLDG 1601 Construction Principles I

BLDG 1602 Carpentry I

Compositor Uno

BLDG 1603 Construction Principles II

.....6 hours (4-6) 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

(4-6) 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

(1-20) A capstone course designed to interrelate 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 2601 Construction Principles III

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

Includes principles of cabinet construction. Competencies include plan making, estimating, layout, wood selection, joints, machine practices, techniques and safety, door and drawer construction, sanding and finishing. Lab fee required. (SCANS 1, 2, 4, 8, 9) Prerequisite: None.

BLDG 2607 Cabinet Making II

(4-6).

...... 6 hours A continuation of BLDG 2603. Competencies include kitchen design and planning, material estimation, advanced machine operation and door and drawer construction. Emphasizes basic skills learning, laminate laying and customer and coworkers' relations. Lab fee required. (SCANS 4, 5, 8, 10) Prerequisite: BLDG 2603.

Broadcasting (See Mass Communication)

Business Administration

Faculty: Robert Muñoz, chair; 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	
General Education Requirements	
ECON 2301 Principles of Economics I (Macro)	
ECON 2302 Principles of Economics II (Micro)	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore Level)	3
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
*PHED (any two one-hour activity courses)	2
Science (two sequential semesters of a lab science in Biology, Chemistry, Geology or Physics)	8
SPCH 1321 Business and Professional Speech	3
BCIS 1401 Introduction to Computer Information Systems or	
a more advanced BCIS course or COSC 1301 Introduction to Computer Systems	3
MATH 1324 Mathematical Analysis for Business I	
MATH 1325 Mathematical Analysis for Business II	
MATH 1442 Business Statistics	4
Aajor Requirements	12
ACCT 2301 Principles of Accounting I	
ACCT 2302 Principles of Accounting II	
BUSI 1301 Introduction to Business	-
+BUSI 2301 Business Law I	3
Total Semester Hours	65
*PHED 1100 should be the first course taken in physical education.	
+May not be accepted by all four-year or upper-level institutions because of the level at which t institutions offer the course. The student and the department advisor may then agree on a substitutions offer the course.	
Business Administration core curriculum leading to degrees Accounting, Finance, Personnel, Management, Marketing, etc.	in

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 (52.0101.5125)

BUSI 2301 Business Law I (22.0101.5125)

BUSI 2302 Business Law II (22.0101.5225)

BUSI 2379 Spreadsheet Applications for Decision Making (52.0301.5125)

Accounting Courses

ACCT 1370 Introduction to College Accounting (52.0301.5125)

experience in bookkeeping or accounting. Introduces basic theory of double-entry accounting for sole proprietorships. Uses both manual and technological means to emphasize the complete accounting cycle, including accrual and deferral adjustments. Other topics include financial statement preparation, accounting for cash, merchandising, payroll, receivables and payables. Practice set may be required. (SCANS 3, 4, 6, 8, 9) Prerequisite: Math competency based on TASP.

ACCT 2301 Principles of Accounting I (52.0301.5125)

ACCT 2302 Principles of Accounting II (52.0301.5125)

Chemistry

Faculty: Dr. E. Don Taylor, chair; Darren Shelton, paraprofessional.

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, premedicine, 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 Hrs
General Education Requirements	
COSC 1415 Introduction to Computer Science	
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 1348 Analytic Geometry	
MATH 2313 Calculus I	
*PHED (any two one-hour activity courses)	2
**PHYS 2425 Engineering Physics I	
**PHYS 2426 Engineering Physics II	4
SPCH 1315 Public Speaking	
	40
Major Requirements	
CHEM 1311/1111 General Inorganic Chemistry I/ Fundamentals of Chemistry	
CHEM 1312/1112 General Inorganic Chemistry II/ Fundamentals of Chemistr CHEM 2271 Organic Nomenclature	
CHEM 222/1 Organic Nomenciature CHEM 2323/2123 Organic Chemistry I/Organic Chemistry Lab I	
CHEM 2325/2125 Organic Chemistry II/Organic Chemistry Lab II	
***Approved Electives	3-4
Total Semester Hours	65-66
*PHED 1100 should be the first course taken in physical education.	
**PHYS 1401 and PHYS 1402 satisfy the Odessa College requirement for an premedical students, but only PHYS 2425 and PHYS 2426 will transfer to satisfy a	associate degree for science requirement.
***Approved electives: CHEM 1204, CHEM 2301 and CHEM 2101; FREN 1411 ar	nd FREN 1412; GERM

1411 and GERM 1412; MATH 2314.

Eline

Chemistry Courses

	atory course that illustrates and reinforces principles and concepts of CHEM 1305 by use of
quantit	ative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling ic equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 1305.
	Fundamentals of Chemistry Laboratory I (40.0501.5239)
À laboi quantit	ratory course that illustrates and reinforces principles and concepts of CHEM 1311 by use of ative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling ic equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 1311
	Fundamentals of Chemistry Laboratory II (40.0501.5239)
A labor qualita facility	ratory course that illustrates and reinforces principles and concepts of CHEM 1312 by use of tive and quantitative experiments. Emphasizes interpreting and reporting of data. Stresses in handling scientific equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite of uisite: CHEM 1312.
CHEM 1204	Chemical Calculations (40.0502.5239)
A lectu Involve and an	Ire course that emphasizes the problem-solving techniques that are used in CHEM 1312 as reading problems and using critical thinking skills and mathematics to organize the information rive at an answer. Can be used to fulfill the 10-hour freshman chemistry course or chemica ering calculations course taught at some senior colleges. (SCANS 1, 3, 6, 9) Prerequisite
	Introductory Chemistry (40.0501.5139)
A lectu introdu- solutior thinking writing Prerequ	re course in elementary chemistry. Primarily for non-majors or people desiring a one-semester ctory chemistry course. Includes terminology, nomenclature, stoichiometry, states of matter ns, equilibria, etc. The student will be involved in reading information or problems and using critica g skills and mathematics to organize the information or to arrive at an answer; also requires student skills in order to communicate the information acquired in a written format. (SCANS 1, 3, 6, 9) uisite: Passed all sections of the TASP exam. An understanding of basic mathematics, including algebra. (Credit probably not transferable until CHEM 1105 successfully completed.)
	General Inorganic Chemistry I (40.0501.5239)
A lectu physica equatic using c require (SCAN	The course designed as a first college-transfer course for students with some background in al science. Covers such topics as chemical stoichiometry, atomic structure, bonding, formulas, ons, gas laws, solutions, etc. The student will be involved in reading information or problems and critical thinking skills and mathematics to organize the information or to arrive at an answer; also as student writing skills in order to communicate the information acquired in a written format. IS 1, 3, 6, 9) Prerequisite: Passed all sections of the TASP exam and be eligible to take College a. (Credit probably not transferable until CHEM 1111 is successfully completed.)
	General Inorganic Chemistry II (40.0501.5239)
A lectu bases, organio thinking studen	3 hours re course that is a continuation of CHEM 1311. Includes solutions, chemical kinetics, acids and equilibrium, electrochemistry, thermodynamics, coordination chemistry, nuclear chemistry, chemistry, etc. The student will be involved in reading information or problems and using critical g skills and mathematics to organize the information or to arrive at an answer; also requires t writing skills in order to communicate the information acquired in a written format. (SCANS 1,) Prerequisite: Math 1314 and a minimum grade of "C" in CHEM 1311. (Credit probably not

	CHEMISTRY 7
CHE	EM 2101 Analytical Chemistry Laboratory I (40.0502.5139)
	(0-4)
	A laboratory course that illustrates and reinforces principles and concepts of CHEM 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 individue laboratory project with a formal written report over the project. Lab fee required. (SCANS 1, 3, 6, 8, 5) Corequisite or prerequisite: CHEM 2301.
CHE	EM 2123 Organic Chemistry Laboratory I (40.0504.5239)
	(0-4)
CHE	EM 2125 Organic Chemistry Laboratory II (40.0504.5239)
	(0-4)
CHE	EM 2271 Organic Nomenclature (40.0504.7239)
	(2-0)
CHE	EM 2301 Analytical Chemistry (40.0502.5139) (3-0)
	(3-0)
CHE	EM 2323 Organic Chemistry I (40.0504.5239)
	(3-0)
CHE	EM 2325 Organic Chemistry II (40.0504.5239)
	(3-0)

ť

Child and Parent Development/Tech Prep

Faculty: Lucinda Hurlbut, chair; Mary Hanson.

The field of child and parent 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 degree program in child and parent development will provide an opportunity for an indepth 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 department chair for information on tech-prep options.

Course of Study for Associate in Applied Science Degree Child and Parent Development

Semester Hrs

نفنة

General Education Requirements	17
*COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
MATH 1332 Structures of College Mathematics I or higher level math	
**PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech or SPCH 1315 Public Speaking	
Aajor Requirements	45
CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	
CDEC 1319 Child Guidance (CHLD 1307)	3
CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	
CDEC 1356 Emergent Literacy for Early Childhood (CHLD 2305)	3
CDEC 1357 Math and Science for Early Childhood (CHLD 2306)	
CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	
CDEC 1359 Children With Special Needs (CHLD 2304)	3
CDEC 1393 Special Topics in Family Living and Parenthood (Abuse and Neglect) (CHLD 13	
CDEC 1403 Family and the Community (CHLD 1150)	
CDEC 1413 Curriculum Resources for Early Childhood Programs (CHLD 2403)	
CDEC 2341 The School Age Child (CHLD 2303)	3
CDEC 2384 Cooperative Education in Child Development (CHLD 2377)	
CDEC 2421 Infant and Toddler (CHLD 1408)	0 A
CHLD 2301 Personal and Family Management	3
lelated Requirements	6
PHED 1306 First Aid	3
	3
PSYC 2308 Child Psychology	

CHILD AND PARENT DEVELOPMENT/TECH PREP

Certificates of completion are available in the following fields. Level I certificates are TASP -waived.

Level I Certificate - Child Care Aide

	Semester Hrs
General Education Requirements	
*COSC 1301 Introduction to Computer Systems	
Major Requirements	
*CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	
*CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	
*CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	
*CDEC 1403 Family and the Community (CHLD 1150)	
Related Requirements	
PHED 1306 First Aid	
Total Semester Hours	
*Indicates courses which may be articulated by tech-prep agreement with high s	chool.

Level I Certificate — Child Development Associate (CDA)

	Level i Certificate — Clinic Development Associate (C	
<i>.</i>		Semester Hrs
Ĵ.	General Education Requirements	
	*COSC 1301 Introduction to Computer Systems	3
	Major Requirements	
Ú.	CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	
-	CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	
ð	CDEC 1319 Child Guidance (CHLD 1307)	
-	CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	
Ì	CDEC 1403 Family and the Community (CHLD 1150)	
1	Related Requirements	
	PHED 1306 First Aid	
Ď	Total Semester Hours	

*Indicates courses which may be articulated by tech-prep agreement with high school.

Level II Certificate - Child Care/Preschool Assistant Teacher

	Semester	nrs
the state	General Education Requirements	12
_	COSC 1301 Introduction to Computer Systems	
iiii	ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
_	MATH 1332 Structures of College Mathematics I or higher level math	3
فسن	PSYC 2308 Child Psychology	
منينة. من الم	Major Requirements	35
	CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	3
فأشده	CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	
	CDEC 1319 Child Guidance (CHLD 1307)	
ini an	CDEC 1356 Emergent Literacy for Early Childhood (CHLD 2305)	3
	CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	3
فتسفيه	CDEC 1359 Children With Special Needs (CHLD 2304)	3
	CDEC 1393 Special Topics in Family Living and Parenthood (Abuse and Neglect) (CHLD 130	4).3
فننغم	CDEC 1403 Family and the Community (CHLD 1150)	
	CHLD 2301 Personal and Family Management	
(increase)	CDEC 2384 Cooperative Education in Child Development (CHLD 2377)	3
	CDEC 2421 Infant and Toddler (CHLD 1408)	
الأمزرهم		
-	Related Requirements	3
	PHED 1306 First Aid	3
	Total Semester Hours	50
کن	*Indicates courses which may be articulated by tech-prep agreement with high school.	

Level III Certificate - Child Care Management (Advanced Skills Certificate)	
(Advanced Skiils Certificate) May only be awarded along with or following completion	of
associate or a higher-level degree.	01
associate of a higher-level degree.	Semester Hrs
ajor Requirements	6
CDEC 2326 Administration of Programs for Children I (CHLD 2120, 2130,	2135) 3
CDEC 2328 Administration of Programs for Children II (CHLD 2111, 2115,	2125) 3
elated Requirements	
MGMT 1301 Introduction to Management	
MGMT 2304 Personnel and Human Relations or MGMT 2330 Entrepreneu	irial issues
tal Semester Hours	
hild Development Courses	
DEC 1311 Introduction to Early Childhood Education [formerly CHLD 1303 (2-3)	
An introduction to the profession of early childhood education, focusing on dev practices, types of programs, historical perspectives, ethics and current issues. theorists, the four areas of development, the ages and stages of developmen and implement appropriate activities. Lab assignments are designed to al reasoning ability to solve problems, make decisions and interpret obse	velopmentally appropriat Presents the developmer t as well as how to choos
required. (SCANS 1, 4, 9) Prerequisite: None.	rvational forms. Lab fe
required. (SCANS 1, 4, 9) Prerequisite: None. DEC 1318 Nutrition, Health and Safety [formerly CHLD 1311] (20.0201) (2-3) A study of nutrition, health, safety and related activities, including skill devi- of issues, guidelines and practices in nutrition, as well as community health, implications. Integration of these principles applied to a variety of settings. Re and implementing food, health and safety activities with children. Lab fee Prerequisite: None. DEC 1319 Child Guidance [formerly CHLD 1307] (20.0201)	
required. (SCANS 1, 4, 9) Prerequisite: None. DEC 1318 Nutrition, Health and Safety [formerly CHLD 1311] (20.0201) (2-3) A study of nutrition, health, safety and related activities, including skill devi of issues, guidelines and practices in nutrition, as well as community health, implications. Integration of these principles applied to a variety of settings. Re and implementing food, health and safety activities with children. Lab fee Prerequisite: None.	
required. (SCANS 1, 4, 9) Prerequisite: None. DEC 1318 Nutrition, Health and Safety [formerly CHLD 1311] (20.0201) (2-3)	

 CDEC 1357 Math and Science for Early Childhood [formerly CHLD 2306] (20.0201) (2-3)	CHILD AND PARENT DEVELOPMENT/TECH PREP
An exploration of principles, methods and materials for teaching young children math and science concepts through discovery and play. Applies scientific approach of problem solving and creating thinking to a child's world. Includes how to make or select inexpensive, simple science and/or math activities or subjects such as animals, plants, electricity, the five senses, measurements, shapes, sizes, number symbols, etc. Also, includes criteria for arranging a science/discovery learning area in a classroom. La fee required. (SCANS 1, 3, 4, 9) Prerequisite: None. CDEC 1358 Creative Arts for Early Childhood [formerly CHLD 1305] (20.0201) (2-3) 3 hour An exploration of principles, methods and materials for teaching young children music, movement visual arts and dramatic play through process-oriented experiences to support divergent thinkin Creative activities will be planned and presented for all activity areas, including art, movement, musi language, science, mathematics and social studies, in addition to holiday and seasonal activities or appropriate use of all resources, including time, materiata are facilities, as they apply to creative thinking. Lab fee required. (SCANS 4, 6, 9) Prerequisite: None. CDEC 1359 Children With Special Needs [formerly CHLD 2304] (20.0201) (2-3) 4 survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, educational intervention, available resources, referral processe and the advocacy role and legislative issues. Presents techniques to identify and serve children with special needs to function to their maximum abilities within the group structure. Stressy ways of working with parents of special children to bring out maximum home-center coordination. Life required. (SCANS 5, 6, 10, 11) Prerequisite: None. CDEC 1393 Special Topics in Family Living and Parenthood [formerly CHLD 1304] (20.0107) (3-0) 4 osurvey of orking with parents of special children to bring out maximum home-center coordination. Life requined.	
 (2-3)	n of principles, methods and materials for teaching young children math and scie ugh discovery and play. Applies scientific approach of problem solving and creat child's world. Includes how to make or select inexpensive, simple science and/or m phasizes how to write and present age appropriate science and/or math activities as animals, plants, electricity, the five senses, measurements, shapes, sizes, numb Also, includes criteria for arranging a science/discovery learning area in a classroom.
An exploration of principles, methods and materials for teaching young children music, movement visual arts and dramatic play through process-oriented experiences to support divergent thinkin Creative activities will be planned and presented for all activity areas, including art, movement, musicanguage, science, mathematics and social studies, in addition to holiday and seasonal activities f young children. Emphasis is placed on appropriate use of all resources, including time, materials are facilities, as they apply to creative thinking. Lab fee required. (SCANS 4, 6, 9) Prerequisite: None: BDEC 1359 Children With Special Needs [formerly CHLD 2304] (20.0201) (2-3)	
 (2-3)	n of principles, methods and materials for teaching young children music, movem d dramatic play through process-oriented experiences to support divergent think ities will be planned and presented for all activity areas, including art, movement, mu ence, mathematics and social studies, in addition to holiday and seasonal activities n. Emphasis is placed on appropriate use of all resources, including time, materials
À survey of information regarding children with special needs including possible causes ar characteristics of exceptionalities, educational intervention, available resources, referral processe and the advocacy role and legislative issues. Presents techniques to identify and serve children wi special needs. Includes studies of physical, emotional, language and/or mental disabilities. Als presents needs of gifted and talented children. Emphasizes constructing environment to enab children with special needs to function to their maximum abilities within the group structure. Stresse ways of working with parents of special children to bring out maximum home-center coordination. La fee required. (SCANS 5, 6, 10, 11) Prerequisite: None. DEC 1393 Special Topics in Family Living and Parenthood [formerly CHLD 1304] (20.0107) (3-0)	
 (3-0)	information regarding children with special needs including possible causes s of exceptionalities, educational intervention, available resources, referral process cacy role and legislative issues. Presents techniques to identify and serve children as Includes studies of physical, emotional, language and/or mental disabilities. A ds of gifted and talented children. Emphasizes constructing environment to ena special needs to function to their maximum abilities within the group structure. Stress ng with parents of special children to bring out maximum home-center coordination.
Topics address recently identified current events, skills, knowledge and/or attitudes and behavior pertinent to the technology or occupation and relevant to the professional development of the studer Designed to educate individuals in all aspects of child maltreatment including procedures for observations, documentation and interpretation of policies. Utilizes outside resource persons, as we as films, lectures, etc. Includes classroom activities to encourage problem-solving and decisior making techniques for situational problems. Reviews current federal, state and local child abuse law including Texas licensing standards. (SCANS 1, 6, 9, 10) Prerequisite: None. DEC 1403 Family and the Community [formerly CHLD 1150 and 2310] (20.0107) (3-1)	
 (3-1)	s recently identified current events, skills, knowledge and/or attitudes and behav e technology or occupation and relevant to the professional development of the stud educate individuals in all aspects of child maltreatment including procedures documentation and interpretation of policies. Utilizes outside resource persons, as ures, etc. Includes classroom activities to encourage problem-solving and decis ques for situational problems. Reviews current federal, state and local child abuse la
A study of the relationship between the child, the family, the community and early childhood educator including a study of parent education, family and community lifestyles, child abuse and current issue Effective listening and spoken techniques in parent/teacher conferences are developed along wi communicating skills. Child care situations and resources are explained and written report example are developed. The intellectual and emotional growth of children and parents will be taught as well a learning how to develop strategies for managing stressful situations. Lab fee required. (SCANS 2, 5, 7, 9, 10, 11) Prerequisites: None. DEC 1413 Curriculum Resources for Early Childhood Programs [formerly CHLD 2403] (20.0201) (3-3)	
(3-3)	relationship between the child, the family, the community and early childhood educat ody of parent education, family and community lifestyles, child abuse and current issun ning and spoken techniques in parent/teacher conferences are developed along g skills. Child care situations and resources are explained and written report example. The intellectual and emotional growth of children and parents will be taught as we to develop strategies for managing stressful situations. Lab fee required. (SCANS 2
Fundamentals of curriculum design and implementation in developmentally appropriate program	
age. Includes assessing children's developmental level by use of written observation technique and planning and implementation of developmental level by use of written observation technique appropriate equipment such as computer programs and videos. Also, presents techniques f parent involvement and interpersonal communication, creation of appropriate physical environmen and classroom management. Lab fee required. (SCANS 5, 7, 9, 10) Prerequisite: CDEC 131 CDEC 1319 and a minimum of two of the following courses: CDEC 1318, CDEC 1356, CDEC 135 CDEC 1358 or consent of the department chair.	s of curriculum design and implementation in developmentally appropriate progra Idren. Emphasizes planning and teaching curriculum for children birth to 5 year assessing children's developmental level by use of written observation techniq and implementation of developmentally appropriate curricula which includes selec equipment such as computer programs and videos. Also, presents techniques ement and interpersonal communication, creation of appropriate physical environme m management. Lab fee required. (SCANS 5, 7, 9, 10) Prerequisite: CDEC 13 and a minimum of two of the following courses: CDEC 1318, CDEC 1356, CDEC 135

CHILD AND PARENT DEVELOPMENT/TECH PREP

CDEC 2326 Administration of Programs for Children I [formerly CHLD 2120, 2130, 2135] (20.0203)

CDEC 2328 Administration of Programs for Children II [formerly CHLD 2111, 2115, 2125] (20.0203)

CDEC 2341 The School Age Child [formerly CHLD 2303] (20.0202)

CDEC 2384 Cooperative Education in Child Development [formerly CHLD 2377] (19.0706)

CDEC 2421 Infant and Toddler [formerly CHLD 1408] (20.0202)

(3-2) 4 hours A study of appropriate infant and toddler (birth to 3 years) programs, including an overview of development, quality caregiving routines, appropriate environments, materials and activities, and teaching/guidance techniques. Emphasizes development processes and environmental factors that can affect physical growth, shape personality and achievement from conception to 3 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. Lab fee required. (SCANS 1, 6, 9) Prerequisite: None.

CHLD 2301 Personal and Family Management

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 in applied science degree. The Odessa College MLT program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (next programmatic review: April 1998). Laboratory practicums are under the full-time supervision of a qualified education coordinator at affiliated clinical laboratories. 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 placement 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 clinical laboratory science course to continue the program.

Students seeking additional information should contact the chair, clinical laboratory sciences department. Applications for the associate 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 Medical Laboratory Technology

First Year

	Semester Hrs
Summer Session II	
CLSC 1304 Urinalysis and Body Fluids	
MATH 1332 Structures of College Mathematics I or higher level math	3
Fall Semester	
CHEM 1111 Fundamentals of Chemistry Laboratory I	1
CHEM 1311 General Inorganic Chemistry I	
CLSC 1211 Urinalysis, Hematology & Hemostasis Lab	2
CLSC 1601 Hematology & Hemostasis	
ENGL 1301 Composition & Rhetoric	3
Spring Semester	
BIOL 1406 General Biology I	
CLSC 1212 Immunology & Immunohematology Lab	
CLSC 1602 Immunology & Immunohematology	
SPCH 1321 Business and Professional Speech	
Summer Session I	
COSC 1301 Introduction to Computer Systems	
HIST 1301 United States History to 1877 or HIST 1302 United States History	
······································	,

Second Year	Semester Hrs
Summer Session II GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	remont 2
GOVT 2301 0.5. and Texas Government of GOVT 2502 American National Gove	ennien
Fall Semester	
CLSC 2211 Clinical Microbiology Laboratory	
CLSC 2321 Clinical Practicum	
CLSC 2601 Clinical Microbiology	6
PHED 1100 Lifestyle Assessment and Modification	1
Spring Semester	
CLSC 2212 Clinical Chemistry Laboratory	2
CLSC 2322 Clinical Practicum	
CLSC 2602 Clinical Chemistry	6
*PHED one-hour activity course	1
*PHED 1100 should be the first course taken in physical education.	

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 clinicals are under the full-time supervision of a certified medical technologist, certified medical laboratory technician or certified phlebotomist.

Because clinical 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 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 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 Hrs
CLSC 1220 Phlebotomy Clinical	2
CLSC 1500 Phlebotomy	

Clinical Laboratory Science Courses

CLSC 1211 Urinalysis, Hematology & Hemostasis Lab

CLSC 1212 Immunology and Immunohematology Lab	. b a
(0-8)	rinciples antibody ematical bnormal or donor safety is
CLSC 1220 Phlebotomy Clinical	
(0-7)	nder the ation of ructions rements abotomy
CLSC 1304 Urinalysis and Body Fluids	
(3-0) Introduces fundamentals of medical laboratory technology and professional ethics essential to the laboratory. Emphasizes theory and practical application of urinalysis procedures, calculation of re- data, their interpretation and correlation to disease processes, and the examination of body selected laboratory procedures for the diagnosis and monitoring of disease processes. (SCANS 1 7, 9) Prerequisite: Admission to the medical laboratory technology program and consent of the dep chair.	e clinical portable fluids by I, 3, 5, 6,
CLSC 1500 Phlebotomy (5-0)	5 houre
Introduces fundamentals of phlebotomy. Emphasizes theories and principles of biological sp collection. Includes laboratory organization, anticoagulant action, specimen requirements, ac and reporting procedures, interpersonal relationships, professional ethics, and procedures to sa against the acquisition or spread of pathogenic agents. Completion of course partially fulfills requi for certificate of completion in phlebotomy and eligibility for certification by examination phlebotomy technician. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 9, 10, 11) Prerequisite: Act to phlebotomy program and consent of department chair. Corequisite: CLSC 1220.	pecimen quisition afeguard irements on as a
CLSC 1601 Hematology and Hemostasis	
(6-0) Consists of study of the formed elements of blood and the cellular, vascular, and plasma component hemostasis. Emphasizes theory and practical application of hematology and hemostasis/coar procedures, their selection and calculation, and their interpretation and correlation to disease pro (SCANS 1, 3, 6, 7, 9, 10, 11) Prerequisite: CLSC 1304 and consent of the department chair. Con CLSC 1211.	onents of agulation ocesses.
CLSC 1602 Immunology and Immunohematology	C h a
(6-0) Consists of study of immunology and immunohematology. Emphasizes study of antigen- reactions and their use in serological testing and blood banking procedures. Requires ability to appropriate test procedure to perform; calculation of dilutions and application to the related	antibody indicate

CLSC 2211 Clinical Microbiology Lab

(0-8) 2 hours Illustrates and reinforces content of CLSC 2601, Emphasizes understanding of theories, principles and procedures of selected techniques employed in clinical microbiology for the isolation and identification of microorganisms pathogenic to man. Laboratory exercises are performed following written procedures and require selection, performance and interpretation of stains and biochemical tests appropriate for the identification of a microorganism; compilation and correlation of generated data; and submission of narrative and form reports. Laboratory safety is stressed. Lab fee required. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 10) Prerequisite: Consent of department chair. Corequisite: CLSC 2601.

CLSC 2212 Clinical Chemistry Lab

Illustrates and reinforces content of CLSC 2602. Emphasizes understanding of theories and principles of selected techniques for diagnosing and/or monitoring of disease processes of a metabolic nature and monitoring of drug therapies. Laboratory exercises are performed following written procedures and require the preparation of reagent solutions; graphs and/or mathematical calculations on generated data; interpretation and correlation of results to normal or abnormal metabolism; determination of appropriate or inappropriate therapeutic drug concentrations; and submission of written or computer generated reports. Lab safety is stressed. Lab fee required. (SCANS 1, 2, 3, 6, 7, 8, 9) Prerequisite: Consent of department chair. Corequisite: CLSC 2602.

CLSC 2321 Clinical Practicum

Consists of 30 hours per week in an assigned department of an affiliated clinical laboratory performing procedures under the supervision of a medical technologist and a pathologist. Requires acquisition of appropriate specimens for requested procedures; operation and maintenance of automated instruments; calculation of report values from generated data; recognition of obtained values as being expected or abnormal; correlation of obtained values with disease or pathology; and preparation of final laboratory reports for manual or computer posting. Specific procedures to be performed are a function of the assigned department(s). (SCANS 1, 2, 3, 4, 8) Liability insurance and proof of health insurance are required. Prerequisite: Consent of department chair. Corequisite: CLSC 2601.

CLSC 2322 Clinical Practicum

Consists of 30 hours per week in an assigned department of an affiliated clinical laboratory performing procedures under the supervision of a medical technologist and a pathologist. Requires acquisition of appropriate specimens for requested procedures; operation and maintenance of automated instruments; calculation of report values from generated data; recognition of obtained values as being expected or abnormal; correlation of obtained values with disease or pathology; and preparation of final laboratory reports for manual or computer posting. Specific procedures to be performed are a function of the assigned department(s). (SCANS 1, 2, 3, 4, 8) Liability insurance and proof of health insurance are required. Prerequisite: CLSC 2321 and consent of department chair. Corequisite: CLSC 2602.

CLSC 2601 Clinical Microbiology

Consists of study of microorganisms of medical importance to man. Includes study of bacteriology, mycology and parasitology. Emphasizes specimen requirements, isolation and culture techniques. staining characteristics and biochemical tests used in identifying pathogenic microorganisms; their selection and performance; and their interpretation and correlation to human infections. (SCANS 1, 2, 4, 6, 7, 8, 9, 11) Stresses safety measures to prevent spread of infection. Prerequisite: Consent of the department chair. Corequisite: CLSC 2211.

CLSC 2602 Clinical Chemistry

Consists of the study of clinical chemistry. Briefly reviews general chemistry, chemical calculations and reagent preparation. Emphasizes theory and practical application of clinical chemistry procedures; the selection of appropriate tests; and the interpretation and correlation of laboratory data to disease conditions. Includes discussion and comparison of manual and automated chemistry procedures. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 11) Prerequisites: CLSC 2601 and consent of the department chair. Corequisite: CLSC 2212.

Computer Information Systems

Faculty: Ray Cone, chair; Bobby Davis, Brenda Gardner, Mitch Slusher, Dale Stacy.

The computer information systems curriculum provides students with practical, job-related 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 Hrs
General Education Requirements	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National	
HIST 1301 U.S. History to 1877 or HIST 1302 U.S. History from 1877	
MATH 1324 Mathematical Analysis for Business I	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1321 Business and Professional Speech	
lective	
lajor Requirements	
BCIS 1200 Programming Logic	
BCIS 1302 PC Operating Systems	
BCIS 1401 Introduction to Computer Information Systems	
BCIS 2305 Systems Analysis Methods	
BCIS 2377 Cooperative Work Experience	
and the second sec	
Total Semester Hours	
Total Semester Hours *PHED 1100 should be the first course taken in physical education. **Major Emphasis Options:	
**Major Emphasis (Select either option I or II below) Total Semester Hours *PHED 1100 should be the first course taken in physical education. **Major Emphasis Options: <u>Option I - Business Programming</u> *	
Total Semester Hours *PHED 1100 should be the first course taken in physical education. **Major Emphasis Options: Option I - Business Programming*	65 Semester Hrs
Total Semester Hours *PHED 1100 should be the first course taken in physical education. **Major Emphasis Options: Option I - Business Programming*	65 Semester Hrs
Total Semester Hours PHED 1100 should be the first course taken in physical education. "Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u>	65 Semester Hrs 3
Total Semester Hours PHED 1100 should be the first course taken in physical education. Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u>	65 Semester Hrs 3
Total Semester Hours PHED 1100 should be the first course taken in physical education. Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u> BCIS 2220 Spreadsheets <u>and</u> OFST 1200 Basic Keyboarding Skills	65 Semester Hrs 3
Total Semester Hours PHED 1100 should be the first course taken in physical education. "Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u> BCIS 2220 Spreadsheets <u>and</u> OFST 1200 Basic Keyboarding Skills BCIS 1320 AS/400 File Processing	
Total Semester Hours PHED 1100 should be the first course taken in physical education. "Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u> BCIS 2220 Spreadsheets <u>and</u> OFST 1200 Basic Keyboarding Skills BCIS 1320 AS/400 File Processing BCIS 1403 COBOL Programming	Semester Hrs
Total Semester Hours PHED 1100 should be the first course taken in physical education. Option I - Business Programming* ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u> BCIS 2220 Spreadsheets <u>and</u> OFST 1200 Basic Keyboarding Skills BCIS 1320 AS/400 File Processing BCIS 1403 COBOL Programming BCIS 1419 RPG/400 Programming	Semester Hrs 3-4 3-4 4
Total Semester Hours PHED 1100 should be the first course taken in physical education. "Major Emphasis Options: <u>Option I - Business Programming*</u> ACCT 1370 Introduction to College Accounting BUSI 2379 Spreadsheet Applications for Decision Making <u>or</u> BCIS 2220 Spreadsheets <u>and</u> OFST 1200 Basic Keyboarding Skills BCIS 1320 AS/400 File Processing BCIS 1403 COBOL Programming	Semester Hrs 3-4 3-4 4 4 4 4 4

Option II - PC Support Specialist*

Option II - PC Support Specialist	Semester Hrs
BCIS 1303 PC Hardware/Software	
BCIS 1300 To hardward commandement I	3
BCIS 1404 Programming in Pascal	
BCIS 2215 Word Processing	
BCIS 2220 Spreadsheets	
BCIS 2302 Network Operating Systems	
BCIS 2310 Database Management Systems II	
BCIS 2415 Advanced Pascal/Data Structures	
Total Semester Hours	
*Minimal Entry Requirements: Keyboarding Skills, College Level Reading/Writing	
Course of Study for Certificate of Technolo	gy 🕯
Level I certificates are TASP -waived.	<u> </u>
<u>Level I - Business Programming</u>	•
General Education Requirements	Semester Hrs
ACCT 1370 Introduction to College Accounting	
ENGL 1301 Composition and Rhetoric	
MATH 1324 Mathematical Analysis for Business I	
SPCH 1321 Business and Professional Speech	
SFOR TOZT Dusiness and Frotessional opeech	
Major Requirements	23
BCIS 1200 Programming Logic	
BCIS 1320 AS/400 File Processing	
BCIS 1401 Introduction to Computer Information Systems	
BCIS 1419 RPG/400 Programming	4
BCIS 2305 Systems Analysis Methods	
BCIS 2320 AS/400 Operating Systems	
BCIS 2419 Advanced RPG/400 Programming	
Total Semester Hours	
Level I - PC Support Specialist	
General Education Requirements	Semester Hrs 🛰
ENGL 1301 Composition and Rhetoric	
MATH 1324 Mathematical Analysis for Business I	
SPCH 1321 Business and Professional Speech	
Major Requirements	
BCIS 1200 Programming Logic	
BCIS 1302 PC Operating Systems	
BCIS 1303 PC Hardware/Software	
BCIS 1310 Database Management Systems I	
BCIS 1401 Introduction to Computer Information Systems	
BCIS 1404 Programming in Pascal	
BCIS 2215 Word Processing	
BCIS 2220 Spreadsheets BCIS 2302 Network Operating Systems	
BCIS 2302 Network Operating Systems BCIS 2310 Database Management Systems II	
Total Semester Hours	

Computer Information Systems Courses

BCIS 1200 Programming Logic

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 (52.1202.5227)

84 COMPUTER INFORMATION SYSTEMS
BCIS 1403 COBOL Programming (3-3)
(3-3)
BCIS 1404 Pascal Programming (3-3)
Introduces programming concepts using the PASCAL language. Through structured techniques, studen learn industry-based methodologies to evaluate, organize, design, create, improve, maintain and docume computer-based problems of elementary- and intermediate-level complexity. This includes beginning da structures through arrays, text files and records. Competencies also include the interpersonal, probler solving and advanced reasoning skills needed to apply programming principles to diverse programmin needs of clients and customers in business and industry. Spring only. Lab fee required. (SCANS 5, 6, 8, 9) Prerequisite: BCIS 1200 and BCIS 1401 or instructor approval.
BCIS 1419 RPG/400 Programming
(3-3)
BCIS 2215 Word Processing
(2-1)
BCIS 2220 Spreadsheets
(2-1)
BCIS 2302 Network Operating Systems
(3-0)
BCIS 2305 Systems Analysis Methods
(3-0)

÷ -

.

6 a de la (the same . ۳

aiùa

Stands:

in and in

É. Contraction of the local division of the loc

6

-

فحنجة --

نفيها

-1

÷ (in the second second

COMPUTER INFORMATION SYSTEMS - COMPUTER SCIENC	COMPUTER	INFORMATION	SYSTEMS -	COMPUTE	ER SCIENC
------------------------------------------------	----------	-------------	-----------	---------	-----------

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

Lab fee required. (SCANS 1, 6, 7, 8, 9) Prerequisite: BCIS 1419 and BCIS 1320 or instructor approval.

Computer Science

Faculty: Ray Cone, chair; Brenda Gardner, Mitch Slusher.

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

Computer Science	Somester Hrs
General Education Requirements	Semester Hrs 44
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (any sophomore level literature)	
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	
Lab Science Sequence in Chemistry or Engineering Physics	8
Lab Science Elective	
*MATH 1314 College Algebra	
*MATH 1316 Trigonometry	
**PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech	3
Elective (must be outside the major area)	
Major Requirements	20
COSC 1415 Introduction to Computer Science	
COSC 1418 Programming Concepts I	
COSC 2418 Programming Concepts I	
COSC 2420 Programming Structures in C	
COSC 2425 Organization and Assembly Language	
Total Semester hours	67
 * MATH 1348, MATH 2313 or MATH 2314 may be substituted. Because upper level advanced math courses, taking additional math courses in your degree plan is recommended with the state of the first course taken in physical education. NOTE: Computer science majors should consult the degree requirements of the university of attend before selecting electives or specific general education courses. 	nended.
Computer Science Courses	
•	
COSC 1301 Introduction to Computer Systems (11.0101.5227) (3-0)	3 hours
Presents extensive vocabulary, concepts and techniques needed to begin study of hardware/software fundamentals, history, information systems concepts and societ is placed on using the computer to process text and numeric information. By using including a word processor, electronic spreadsheet, database management sys Windows, the student is able to identify and select the correct hardware/software problem. Lab exercises are designed to allow students to use their reasoning abilit and make decisions. Not for computer science majors or BCIS majors. Lab fee re 2, 3, 6, 8, 9) Prerequisite: None.	altrends. Emphasis software packages tem and MS-DOS/ to apply to a given y to solve problems
COSC 1415 Introduction to Computer Science (11.0201.5227)	4 h a
(3-3)	guage or computer including hardware, tured programming tware to apply to a to process textual MS-DOS/Windows inchniques using the d interpret written

COMPUTER SCIENCE - COSMETOLOGY

COSC 1418 Programming Concepts I (11.0201.5227)

COSC 2418 Programming Concepts II (11.0201.5327)

COSC 2420 Programming Structures in "C" (11.0201.5327)

COSC 2425 Computer Organization and Assembly Language (11.0201.5427)

Cosmetology

Faculty: Linda Sullivan, chair; Sylvia Blain, Lou Ann Hitt, Theresa Vaughn.

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, and sending a \$25 fee and one 1 1/2-inch-square picture 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. New students may start cosmetology

The program is designed around an open-entry and -exit concept. New students may start cosmetology classes any Monday instead of waiting for the beginning of the term or semester. 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

An advanced standing procedure is available for those individuals who hold a valid 1 exas 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 COSM 2601 and COSM 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 division dean.**

Student liability insurance is required for students enrolled in cosmetology.

COSMETOLOGY

Course of Study for Associate in Applied Science Degree Cosmetology

07	Semester Hrs
General Education Requirements for all Cosmetology Degrees	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Retearch	
GOVI 2301 0.3. aliu rekas Government	······································
MATH 1332 Structures of College Mathematics I or higher level math	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	

In addition to the 20 hours listed, students must select one of the following options.

Cosmetology Operator Option

	Semester Hrs
Major Requirements (1536 Clock Hours)	
(Classes meet eight hours per day, Monday through Thursday)	
COSM 2601 Introduction to Cosmetology	6
COSM 2602 Cosmetology Skills Development	6
COSM 2603 Cosmetology Procedures I	6
COSM 2604 Cosmetology Procedures II	6
COSM 2605 Cosmetology Procedures III	(
COSM 2606 Cosmetology Procedures IV	6
Elective (must be outside the major area)	
Related Required Courses	6
BUSI 2301 Business Law I	
MGMT 2304 Personnel and Human Relations	
MGMT 1321 Principles of Marketing or MGMT 2331 Introduction to Small Busin	ess Management 3
Total Semester Hours	68
Note: Student not desiring the associate in applied science degree may receive a ce	ortificate of completion
operator option. Cosmetology Instructor Option	
	Semester Hrs

Major Requirements (768 Clock Hours) 32 COSM 2811 Lesson Plan Development and Supervision 8 COSM 2812 Management and Assessment Skills 8 COSM 2813 Classroom Teaching Skills 8 COSM 2814 State Licensure Exam Skills 8 Elective 3 Related Required Courses 9 BUSI 2301 Business Law I 3 MGMT 2304 Personnel and Human Relations 3 MGMT 1321 Principles of Marketing or MGMT 2331 Introduction to Small Business Management 3 Total Semester Hours 64

Note: Student not desiring the associate in applied science degree may receive a *certificate of completion* instructor option.

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

	COSMETOLOGY	89
	Course of Study for Certificate Options	
	Level I certificates are TASP -waived.	
	Level I - Certificate of Completion – Operator Option	_
Maior F	Requirements (1536 Clock Hours)	Semester Hrs
	OSM 2601 Introduction to Cosmetology	
	OSM 2602 Cosmetology Skills Development	
	OSM 2603 Cosmetology Procedures I	
	OSM 2604 Cosmetology Procedures II	
	OSM 2605 Cosmetology Procedures III	
	OSM 2606 Cosmetology Procedures IV	
	I Education Requirements	
C	OSC 1301 Introduction to Computer Science	
P	SYC 2302 Applied Psychology	3
Fotal S	emester Hours	42
	Level I - Certificate of Completion – Instructor Option	
Malas F	Requirements (768 Clock Hours)	Semester Hrs
	OSM 2811 Lesson Plan Development and Supervision OSM 2812 Management and Assessment Skills	
	OSM 2812 Management and Assessment Skills	
	OSM 2813 Classicolin reaching Skills	o
0	USINI 2014 State Licensule Exam Skills	
Genera	I Education Requirements	6
C	OSC 1301 Introduction to Computer Science	
P	SYC 2302 Applied Psychology	
Total S	emester Hours	
	Cosmetology Courses	
COSM	2601 Introduction to Cosmetology	
(2	-14)	6 hours
in	troduces field of cosmetology by presenting terminology, concepts and technique: dustry. Emphasizes basic principles and practices involving hairdressing, personali sual poise, time management and sanitation/safety habits. (SCANS 1, 4, 8, 10) Pre	ty development,
	2602 Cosmetology Skills Development	
	-14)	
cc	evelops fundamental knowledge and understanding of related sciences and mathem osmetology. Teaches time management, safety and systematic procedures. (S rerequisite or corequisite: COSM 2601.	
	2603 Cosmetology Procedures I	6 hours
(2	-14) rovides instruction of manipulative skills, knowledge and desirable attitudes to	nours
er St	nployment. Emphasizes sociability and communication skills to maintain custom tresses rules, regulations and preparation for the Texas Cosmetology Commissio SCANS 5, 9, 10, 11) Prerequisite or corequisite: COSM 2602.	er relationships.
	2604 Cosmetology Procedures II	
Pi ha	-14) rovides manipulative skills for rendering personal beauty services. Includes all sk airdressing, nail care and skin care in conjunction with a time schedule. Emphasizes oper use of commercial products and equipment. (SCANS 4, 8, 9) Prerequisite: COS	ills pertaining to select care and
þi		2000.

90	COSMETOLOGY
COSM 2605 Cos	smetology Procedures III
Presents ba	6 hours asic chemical characteristics of cosmetics used in beauty salons. Stresses basic principles y essential to straighten, curl, color and bleach hair. Teaches customer relations, time int and decision making. (SCANS 4, 5, 8, 9) Prerequisite or corequisite: COSM 2604.
COSM 2606 Cos	smetology Procedures IV
Introduces installation requiremen writing an e	6 hours principles used in designing and planning a salon. Stresses location, space allotment and costs as well as financial aspects of salon operation. Includes insurance needs and legal its regarding wages, working hours, working conditions and customer relations as well as employee guideline manual. (SCANS 2, 3, 4, 5) Prerequisite or corequisite: COSM 2605, 1 and PSYC 2302.
COSM 2811 Les	sson Plan Development and Supervision
Develops t	8 hours eaching skills, methods and techniques. Emphasizes basic unit planning and daily lesson int. (SCANS 9, 10) Prerequisite: Current Texas cosmetology operator's license.
COSM 2812 Ma	nagement and Assessment Skills
Develops situations.	8 hours practical clinic management techniques. Includes supervision of students in classroom allocation of student load pertaining to facilities and materials as well as development of t tools. (SCANS 4, 5, 8, 9). Prerequisite or corequisite: COSM 2811.
COSM 2813 Cla	assroom Teaching Skills
Develops n self-manag	nethods and techniques of teaching informational theory and resource allocation. Emphasizes gement, oral and written communication, creative thinking and leadership skills. (SCANS 2, 11) Prerequisite or corequisite: COSM 2812.
COSM 2814 Sta	Ite Licensure Exam Skills
Designed t cosmetolo	to prepare students to pass Texas Cosmetology Commission examination for licensure or gy instructors. Emphasizes organization of information for developing and presenting a . (SCANS 2, 5, 6, 11) Prerequisite or corequisite: COSM 2813, PSYC 2302 and COSC 1301
	Specialization Programs
	Facial Specialist Program
and facial manip	facial specialist is authorized to practice facials, which entail application of facial cosmetics oulations. Includes licensed salon work such as eye tabs, arches, lash and brow tints and val of facial hair.
COSM 1703 Fa	cial Specialization I
Prepares s specialist. with the s application	7 hours student to pass exam for state licensure with knowledge and skills needed as a facia Furnishes students with knowledge to allocate and follow a time schedule which coincides tudent/customer relationship. Emphasizes related technology selection necessary for of cosmetics and facial manipulations. Includes eye tabs, arches, lash and brow tints and removal of facial hair. (SCANS 4, 5, 8) Prerequisite: None.
	cial Specialization II
state licen schedule	
	Shampoo-Conditioning Specialist Program
	I shampoo specialist is authorized to render shampoos, scalp manipulations and scalp authorizes the application of conditioners, rinses and shampoos in a licensed beauty salon
	ampoo and Conditioning Specialist
Teachess student/cu scalp. Con	A nours hampooing and conditioning as a responsible salon team member. Emphasizes professiona stomer relationship. Includes chemistry, histology, disorders and treatments of the skin and npletion qualifies student to test for state licensure as a shampoo-conditioning specialist. , 9, 10) Prerequisite: None.

÷

Culinary Arts

Faculty: Peter Lewis, chair; Terry Gouley.

Odessa College offers an associate in applied science degree program in the 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 an opportunity to pursue and obtain advancement in their chosen profession.

Course of Study for Associate in Applied Science Degree Culinary Arts

Seme General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
MATH 1332 Structures of College Mathematics	
MGMT 1301 Introduction to Management	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Elective	
Major Requirements	
CULI 1201 Food Preparation and Production	
CULI 1202 Soups and Sauces	
CULI 1203 Pantry and Short-Order Cooking	
CULI 1206 Introduction to Baking	
CULI 1207 Patisserie	
CULI 1208 Classical Desserts	
CULI 1320 Sanitation Principles and Practices	
CULI 2210 A La Carte Cooking	
CULI 2211 International Cuisine	
CULI 2212 American Regional Cuisine	
CULI 2215 Food Sculpture and Design	
CULI 2216 Charcuterie	
CULI 2217 Buffet Theory and Production	
CULI 2377 Cooperative Work Experience	
Related Required Courses	
CULI 1221 Tableservice and Mixology	
CULI 1321 Stewarding	
CULI 1322 Nutrition	
CULI 2223 Food Service Management	
CULI 2224 Menu Design and Layout	
Total Semester Hours	
*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 employment 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 take major or related courses in the degree sequence.

-

Course of Study for Certificate of Completion

Level I certificates are TASP-waived.

Level I - Food Preparation Cook

General Education Requirements	
COSC 1301 Introduction to Computer Science	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Sp	eech
lajor Requirements	
CULI 1201 Food Preparation and Production	
CULI 1202 Soups and Sauces	
CULI 1203 Pantry and Short Order Cooking	
CULI 1320 Sanitation Principles and Practices	
CULI 1321 Stewarding	

Level I - Food Production Cook

	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Science	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional	
Major Requirements	20
CULI 1201 Food Preparation and Production	
CULI 1202 Soups and Sauces	
CULI 1203 Pantry and Short Order Cooking	
CULI 1221 Tableservice and Mixology	
CULI 1320 Sanitation Principles and Practices	
CULI 1321 Stewarding	
CULI 2210 A La Carte Cooking	
CULI 2211 International Cuisine	
CULI 2212 American Regional Cuisine	
	-
Total Semester Hours	
Student Equipment Requirements for Major Courses CULI 1201, 1202 and	d 1203
Two chef's uniforms consisting of long-sleeved jackets, checkered pants and	aprons.
Basic chef's tool kit consisting of the following:	· • · · · • ·
A. French knife 8" or 10" blade	
B. Paring knife 3 1/2" blade	
C. Vegetable peeler	
D. Cook's fork	
E. Boning knife-5 1/2" rigid blade	
F. Metal measuring spoons	
G. French whip	
····· r	

CULI 1206, 1207 and 1208

- Two chef's uniforms consisting of long-sleeved jackets, checkered pants and aprons. Basic Tool Kit consisting of the following:
 - A. French knife 8" or 10" blade
 - B. Paring knife 3 1/2" blade
 - C. Vegetable peeler
 - D. French whip
 - E. Two icing spatulas 8" or 10"
 - F. One Wilton decorating kit
 - G. One serrated meat slicer

CULI 2210, 2211 and 2212

Uniforms and tool kit identified in CA 1201, 1202 and 1203.

CULI 2215, 2216 and 2217

- Uniforms and tool kit identified in CA 1201, 1202 and 1203 and:
 - 1 set of 1/2" aspic cutters
 - 1 Exacto knife
 - 1 set of butter sculpture tools

Culinary Arts Courses

CULI 1201 Food Preparation and Production

CULI 1202 Soups and Sauces

CULI 1203 Pantry and Short-Order Cooking

CULI 1206 Introduction to Baking

CULI 1207 Patisserie

CULI 1208 Classical Desserts

CULI 1221 Tableservice and Mixology

CULI 1320 Sanitation Principles and Practices

CULI 1321 Stewarding

CULI 1322 Nutrition

CULI 2210 A La Carte Cooking

CULI 2211 International Cuisine

CULI 2212 American Regional Cuisine

CULI 2215 Food Sculpture and Design

CULI 2216 Charcuterie

CULI 2217 Buffet Theory & Production

CULINARY ARTS - DEVELOPMENTAL EDUCATION

CULI 2223 Food Service Management

(2-0) Introduces the student to the principle concepts and topics of food service management and examines the issues, concerns and systems employed to ensure a successful food service operation. The student will be able to interpret policy manuals and procedures, communicate with others, both verbally and in writing, the policies and procedures, project income, expenditures and profits, prioritize activities, acquire and evaluate information and monitor and correct the performance of other employees. The student will also understand the importance of a team strategy, generate new ideas, project a professional work ethic and be able to listen and respond effectively. (SCANS 1, 2, 3, 4, 5, 6, 7, 9, 10, 11) Prerequisite: None. Corequisite: None.

CULI 2224 Menu Design and Layout

Introduces a variety of menu strategies which are employed in the construction of menus. The student will be able to select and develop four types of menu strategies, develop a menu layout using printing technology and write copy, calculate menu selling prices, reconcile the fixed and variable costs with profit margins and expectations, and acquire, interpret and evaluate menu sales. The student will also understand the importance of a menu in relationship to the organization of the kitchen and dining room, service to patrons and the skills required of a professional staff. (SCANS 1, 2, 3, 4, 5, 6, 8, 9) Prerequisite: None. Corequisite: None.

CULI 2377 Cooperative Work Experience

A capstone course designed to interrelate academic and technical course lectures and labs with onthe-iob business problems, modern business practices, human relations and job-finding techniques. 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: Consent of the department chair.

Developmental Education

Staff: Dr. Shirley Payne, dean.

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

Developmental Science Course

BIOL 0371 Developmental Science (32.0106.5139)

(3-3) 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, mathematical calculations involved in converting between the English and metric systems of measurement, and 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 required. (SCANS 1, 3, 6, 9) Prerequisite: None.

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 (32.0108.5335)

A compensatory course designed to improve basic thinking and writing skills. Emphasizes essay development and use of conventional English. Requires essays composed in response to various prompts. Prepares student for ENGL 1301. Credit probably not transferable. This course does not satisfy requirements for any degree plan at Odessa College. The student must attain a "C" or better before enrolling in ENGL 1301. (SCANS 2, 9) Lab fee required for ENGL 0370 WP (Word Processing). Prerequisite: None. Corequisite: Students who have not taken and passed the reading section of TASP must enroll in a reading class.

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 (32.0108.5335)

A compensatory self-paced lab course designed to improve basic thinking and writing skills. Emphasizes techniques for creating concise and effective sentence structures. 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. Lab fee required. (SCANS 2, 9) Prerequisite: None.

ENGL 0172 Focus and Unity (32.0108.5335)

A compensatory self-paced lab course designed to improve basic thinking and writing skills. Emphasizes recognition of purpose and audience and techniques of maintaining 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. Lab fee required. (SCANS 2, 9) Prerequisite: None.

ENGL 0173 Organization and Development (32.0108.5335)

A compensatory self-paced lab course designed to improve basic thinking and writing skills. Emphasizes paragraph organization, cohesion and sequencing of ideas 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. Lab fee required. (SCANS 2, 9) Prerequisite: None.

ENGL 0174 Usage (32.0108.5335)

A compensatory self-paced lab course designed to improve basic thinking and writing skills. Emphasizes recognition and incorporation of standard usage in sentence composition, focusing on verb and pronoun usage, standard punctuation, modifier usage, plural and possessive conventions, and precise and appropriate word choice 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. Lab fee required. Prerequisite: None.

DEVELOPMENTAL EDUCATION

The Tutoring Center, located in the Learning Resources Center, Room 200A, 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 for Odessa College students.

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 may not be accepted in transfer to other colleges and universities. Students may be guided into the courses on the basis of optional diagnostic pre-tests that are available in the Testing Center on the second floor of the Student Union Building.

MATH 0371 Basic Mathematics (32.0104.5137)

MATH 0372 Introductory Algebra (32.0104.5137)

MATH 0375 Intermediate Algebra (32.0104.5237)

The Tutoring Center, located in Room 200A of the Learning Resources Center, 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 free to students wishing to review mathematical concepts related to vocational course work.

The four one-hour lab courses follow. Students may be guided into these courses according to their performance on the TASP test or on optional placement tests administered in the Testing Center, located on the second floor of the Student Union Building.

MATH 0171 Fundamental Math (32.0104.5137)

MATH 0172 Algebra — Graphing and Equations (32.0104.5137)

MATH 0173 Algebra — Operations and Quadratics (32.0104.5137)

MATH 0174 Geometry and Problem Solving (32.0104.5137)

Reading Courses and the Reading Lab

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 the reading program is an investment in self. No matter what a person's reading ability, reading skills can be improved.

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. Students who enroll for Basic English (0370) and have not taken and passed the reading section of the TASP must enroll in a reading class. Students should check their TASP liability before enrolling in reading.

READ 0371 Basic Reading (32.0108.5235)

DEVELOPMENTAL EDUCATION - DIESEL TECHNOLOGY

READ 0372 College Reading (32.0108.5235)

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 individual reading strengths and weaknesses for placement in multilevel course that includes computer exercises, timed reading practices and vocabulary study. Lab fee required. (SCANS 1, 9, 10) Prerequisite: None, satisfactory placement score or placement by counselor.

READ 0373 Advanced College Reading (32.0108.5235)

College Reading Techniques

The college reading techniques course taught on the third floor of the Learning Resources Center, Room 309, provides an alternative reading program with structured, individualized, self-paced instruction.

Registration is open to those who have completed the fifth grade and beyond, and these students may enroll for one or three semester hours of credit or non credit. 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 Learning Resources Center, Room 309.

Students should consult with the lab instructor in person during the first week of classes to arrange their class schedule.

READ 0171 Improving Reading Skills (32.0108.5235)

Diesel Technology

Faculty: James McCutcheon.

The diesel technology program has been redeveloped to fit industry-specific needs. This fast growing field offers excellent career opportunities for qualified technicians and specialists. Completion of this program will offer students the opportunity to apply for an entry level career as a technician and one of several service specialist options.

Course of Study for Associate in Applied Science Degree

	emester Hrs
General Education Requirements	17
COSC 1301 Introduction to Computer Systems	3
ENGL 1312 Report Writing or ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Governmen	t3
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
* PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	

	101
Aajor Requirements	
DESL 1377 Diesel Practicum	
DESL 1501 Principles of Diesel Engines	
DESL 1502 Caterpillar Diesel Engines	
DESL 1503 Electrical Systems and Control Circuits	
DESL 1504 Fuel and Emissions Systems	
DESL 2377 Cooperative Work Experience	
DESL 2501 Transmissions, Power Trains and Accessories or	
DESL 2512 Powershifts, Drives and Transmissions	
DESL 2507 The Diesel Chassis or DESL 2511 Advanced Fluid Power	••••••
DESL 2510 Advanced Engine Technology	
DESL 2520 Diesel Electronics.	••••••
Related Requirements	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
fotal Semester Hours	
PHED 1100 should be the first course taken in physical education.	
Diesel Mechanics Certificates of Technology	/
Certificates of technology are available in the following job-specific-field	ls.
Level I certificate is TASP-waived.	
Level L. Discel Technician	
<u>Level I - Diesel Technician</u>	
	C
COCC 1201 Introduction to Computer Suptame	Semester Hr
COSC 1301 Introduction to Computer Systems	
DESL 1377 Diesel Practicum	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems ENGL 1312 Report Writing or ENGL 1301 Composition and Rhetoric	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems ENGL 1312 Report Writing <u>or</u> ENGL 1301 Composition and Rhetoric WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems ENGL 1312 Report Writing or ENGL 1301 Composition and Rhetoric	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems ENGL 1312 Report Writing <u>or</u> ENGL 1301 Composition and Rhetoric WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
DESL 1377 Diesel Practicum DESL 1501 Principles of Diesel Engines DESL 1502 Caterpillar Diesel Engines DESL 1503 Electrical Systems and Control Circuits DESL 1504 Fuel Emissions Systems ENGL 1312 Report Writing <u>or</u> ENGL 1301 Composition and Rhetoric WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	

Semester Hrs

DESI 2377 Cooperative Work Experience

Total Semester Hours	56
DESL 2520 Diesel Electronics	5
DESL 2512 Powershifts, Drives and Transmissions	
DESL 2511 Advanced Fluid Power	
DESL 2510 Advanced Engine Technology	5
DESL 2377 Cooperative Work Experience	3

Level II - Option II Diesel Truck Specialist

The 33 hours specified in level I certificate plus the following courses:

فعو

۳ فننف الن

	Semester Hrs
DESL 2377 Cooperative Work Experience	
DESL 2501 Transmissions, Power Trains and Accessories	5
DESL 2507 The Diesel Chassis	5
DESL 2510 Advanced Engine Technology	
DESL 2520 Diesel Electronics	5
Total Semester Hours	56

Level III - Service Manager Certificate

May only be awarded along with or following completion of associate or higher-level degree

	Semester Hrs	
General Education Requirements	9	
ACCT 1370 Introduction to College Accounting	3	- Ý
MGMT 1301 Introduction to Management		
MGMT 2304 Personnel and Human Relations	3	ĺ.
Total Semester Hours	9	ĺ

Diesel Courses DESL 1377 Diesel Practicum Capstone course designed for certificate completers to interrelate academic and vocational course lectures and labs with business and industry work experience. Under supervision of college faculty and a workplace supervisor, the students will achieve agreed upon workplace goals and objectives that will enhance the student's competency attainment in the areas of personal, interpersonal and problemsolving skills. Weekly lectures will address key workplace competencies to enhance the employability of a technically competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: DESL 1504 or consent of department chair. **DESL 1501 Principles of Diesel Engines** Student teams 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 engine systems. The reading of technical materials is required. Lab fee required. (SCANS 1, 2, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None. **DESL 1502 Caterpillar Diesel Engines** Student teams will learn the theory of operation, terminology and proper repair procedures through extensive lab and classroom instruction. Reading and interpretation of service manuals and bulletins will be necessary to facilitate understanding, diagnostic materials, and repair of the Caterpillar diesel engine. Listening, speaking and responsibility skills are emphasized. Lab fee required. (SCANS 1, 4, 5, 6, 8, 10, 11) Prerequisite: None. **DESL 1503 Electrical Systems and Control Circuits** Student teams 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 diagnosis and repair of various components in the automotive electrical system. Listening, speaking and responsibility skills are emphasized. Lab fee required. (SCANS 1, 3, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None. **DESL 1504 Fuel and Emissions Systems** Student teams will learn the purpose, theory and terminology of modern emission control systems. Reading and interpretation of service manuals and schematic diagrams will be required. Current technologies will be utilized to diagnose, troubleshoot and repair these systems. Listening, speaking and responsibility skills are emphasized. Lab fee required. (SCANS 1, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.

DIESEL TECHNOL	.OGY	
----------------	------	--

DESL 2377 Cooperative Work Experience

DESL 2501 Transmissions, Power Trains and Accessories

DESL 2507 The Diesel Chassis

DESL 2510 Advanced Engine Technology

DESL 2511 Advanced Fluid Power

DESL 2512 Powershifts, Drives and Transmissions

DESL 2520 Diesel Electronics

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 Hrs GOVT 2301 U.S. and Texas Government 3 MATH 1314 College Algebra or MATH 1372 Technical College Algebra 3 *PHED (any two one-hour activity courses) 2 DFTG 1405 Technical Drafting (DRAF 1401) 4 DFTG 1409 Basic Computer-Aided Drafting (DRAF 2408) 4 DFTG 1417 Architectural Drafting-Residential (DRAF 2401) 4 DFTG 1433 Mechanical Drafting (DRAF 2402) 4 DFTG 1444 Pipe Drafting (DRAF 2404) 4 DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418) 4 DFTG 2381 Cooperative Education-Drafting (DRAF 2377) 3 DFTG 2410 Structural Drafting (DRAF 2406) 4 DFTG 2412 Technical Illustration (DRAF 2403) 4 Related Requirements MCHN 1438 Basic Machine Shop I (MACH 1401) 4 WLDG 1421 Introduction to Welding Fundamentals (WELD 1401) 4 *PHED 1100 should be the first course taken in physical education. Certificates of Technology Level I certificates are TASP-waived Architectural Detailer (Level I) **General Education Core Technical Core** DFTG 1405 Technical Drafting (DRAF 1401) 4 DFTG 1417 Architectural Drafting-Residential (DRAF 2401) 4 DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418) 4 DFTG 2381 Cooperative Education-Drafting (DRAF 2377) 3 OSHA 2395 Industrial Safety 3

105
4
4
4
3
4
4
Semester Hrs
4
4
4
4
-
3 3 28
Semester Hrs
Semester Hrs

06	DRAFTING TECHNOLOGY
	Drafting Technology Courses
OFTG 1405 Technic	al Drafting [formerly DRAF 1401] (48.0101)
Introduction to shape descrip	the principles of drafting to include terminology and fundamentals, including size and tions, projection methods, geometric construction, sections, auxiliary views and rocesses. (SCANS 1, 2, 3, 4, 7, 8) Prerequisite: None.
	computer-Aided Drafting [formerly DRAF 2408] (48.0101)
An introduction modifying geor adding text and	to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and netry; storing and retrieving predefined shapes; placing, rotating and scaling objects I dimensions, using layers, coordinating systems; as well as input and output devices d. (SCANS 1, 3, 5, 8, 9, 10) Prerequisite: DFTG 1405.
	ctural Drafting-Residential [formerly DRAF 2401] (48.0102)
Architectural d drawings for res	A hou
	ical Drafting [formerly DRAF 2402] (48.0105)
An intermediate techniques, con	4 hou course covering detail drawings with proper dimensioning and tolerances, use of sectioning mon fasteners, isometrics and oblique drawings, including bill of materials and geometric b fee required. (SCANS 1, 3, 5, 8,9) Prerequisite: DFTG 1405.
OFTG 1444 Piping	Drafting [formerly DRAF 2404] (48.0101)
A study of pipe application will plans, elevation	4 hou fittings, symbols, specifications and their applications to a piping process system. This be demonstrated through the creation of symbols and their usage in flow diagrams and isometrics. Offered spring semester even numbered years. Lab fee required 5, 8, 9) Prerequisite: DFTG 1405.
OFTG 1452 Interme	diate Computer-Aided Drafting [formerly DRAF 2418] (48.0101)
A continuation files, scripted	4 hou of practices and techniques used in basic computer-aided drafting emphasizing batched files, customized program menus, and extracted attributes. Introduction to three afting. Lab fee required. (SCANS 2, 6, 8, 9) Prerequisite: DFTG 1409.
OFTG 1454 Archite	ctural Drafting—Commercial [formerly DRAF 2411] (48.0102)
Architectural dr drawings for a c	afting procedures, practices and symbols including the preparation of detailed working commercial building, with emphasis on commercial construction methods. Fall only. Lat SCANS 3, 6, 9, 11) Prerequisite: DFTG 1417.
(2-4)	Topics in Drafting: Advanced Technical Illustration [formerly DRAF 2413] (48.0101
Emphasizes th	of DFTG 2412. Competencies include inking, shading and rendering methods e use of correct procedure, creative thinking and self-management. Lab fee required (0) Prerequisite: DFTG 2412.
OFTG 2381 Cooper	ative Education—Drafting [formerly DRAF 2377] (48.0101)
Career-related cooperative ag and the employ a technical disc This course ma	3 hou activities encountered in the student's area of specialization are offered through a reement between the college, employer and student. Under supervision of the college rer, the student combines classroom learning with work experience. Directly related to ipline, specific learning objectives guide the student through the paid work experience y be repeated if topics and learning outcomes vary. (SCANS 5, 7, 9, 10, 11) Prerequisite inding and consent of the department chair.

DRAFTING TECHNOLOGY - EDUCATION	10
FG 2402 Machine Drafting [formerly DRAF 2412] (48.0105)	
(2-4) Production of detail and assembly drawings of machines, threads, gears, cams, tolera dimensioning, surface finishes, and precision drawings. Lab fee required. (SCANS 2 Prerequisite: DFTG 1433.	ances and lim
FG 2410 Structural Drafting [formerly DRAF 2406] (48.0101) (2-4)	4 ho
Discussion of detail drawing of structural shapes for fabrication with emphasis on fram connectors and beam and column detailing. Designed to meet the standards of America Steel Construction, including units on concrete detailing conforming to American Con standards. Offered spring semester odd numbered years. Lab fee required. (SCAN Prerequisite: DFTG 1405.	ed and seate can Institute ncrete Institu
FG 2412 Technical Illustration [formerly DRAF 2403] (48.0101)	4 6 6
(2-4) Topics include pictorial drawing including isometrics, obliques, perspectives, charts shading and transfer lettering; and use of different media. Lab fee required. SC/ Prerequisite: DFTG 1405.	s and graph
CONOMICS (see Social Sciences)	
ducation	
visor: Don Jacobs	
Course of Study for Associate in Arts Degree Education Majors	
Education Majors	Semester H
Education Majors	
Education Majors	
Education Majors Heral Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric	
Education Majors Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 Composition and Literature	
Education Majors COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 Composition and Literature ENGL (Sophomore level)	
Education Majors COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 Composition and Literature ENGL (Sophomore level) GOVT 2301 U.S. and Texas Government	
Education Majors COSC 1301 Introduction to Computer Systems 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	
Education Majors COSC 1301 Introduction to Computer Systems 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 United States History to 1877	
Education Majors COSC 1301 Introduction to Computer Systems 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 United States History to 1877 HIST 1302 United States History from 1877	
Education Majors Description Pequirements COSC 1301 Introduction to Computer Systems 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or 1	
Education Majors Description Requirements	
Education Majors Description Pequirements COSC 1301 Introduction to Computer Systems 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or 1	
Education Majors meral Education Requirements COSC 1301 Introduction to Computer Systems 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or, MATH 1315 Structures of College Mathematics or higher level math SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech *PHED (any two one-hour activity courses) PSYC 2308 Child Psychology	
Education Majors Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or, MATH 1332 Structures of College Mathematics or higher level math SPCH 1321 Business and Professional Speech *PHED (any two one-hour activity courses) PSYC 2308 Child Psychology **An additional college level math or laboratory science	
Education Majors Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or, MATH 1314 College Algebra or, MATH 1312 Structures of College Mathematics or higher level math SPCH 1321 Business and Professional Speech *PHED (any two one-hour activity courses) PSYC 2308 Child Psychology **An additional college level math or laboratory science Any four-hour laboratory science	
Education Majors Education Majors COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 Composition and Rhetoric ENGL 1302 Composition and Literature ENGL (Sophomore level) GOVT 2301 U.S. and Texas Government. GOVT 2301 U.S. and Texas Government. GOVT 2302 American National Government. HIST 1301 United States History to 1877 MATH 1314 College Algebra or , MATH 1332 Structures of College Mathematics or higher level math SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech **An additional college level math or laboratory science Any four-hour laboratory science Any three-hour fine arts course	
Education Majors Build Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or 1 MATH 1332 Structures of College Mathematics or higher level math SPCH 1321 Business and Professional Speech **An additional college level math or laboratory science Any three-hour laboratory science Any three-hour fine arts course	
Education Majors Education Majors COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric ENGL 1302 Composition and Rhetoric ENGL 1302 Composition and Literature ENGL (Sophomore level) GOVT 2301 U.S. and Texas Government. GOVT 2301 U.S. and Texas Government. GOVT 2302 American National Government. HIST 1301 United States History to 1877 MATH 1314 College Algebra or , MATH 1332 Structures of College Mathematics or higher level math SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech **An additional college level math or laboratory science Any four-hour laboratory science Any three-hour fine arts course	
Education Majors meral Education Requirements COSC 1301 Introduction to Computer Systems 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 United States History to 1877 HIST 1302 United States History from 1877 MATH 1314 College Algebra or 1 SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech *PHED (any two one-hour activity courses) PSYC 2308 Child Psychology ***An additional college level math or laboratory science Any three-hour fine arts course Elementary Education ctives (Should be selected from social science, natural science, mathematics, foreign languages and fine arts) Secondary Education	
Education Majors Build States History to 1877 COSC 1301 Introduction to Computer Systems 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 United States History to 1877 MATH 1314 College Algebra or 1 MATH 1332 Structures of College Mathematics or higher level math SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech **An additional college level math or laboratory science Any four-hour laboratory science Any three-hour fine arts course Elementary Education Cives (Should be selected from social science, natural science, mathematics, foreign languages and fine arts)	
Education Majors Mathematics of the selected from freshman and sophomore courses which will count toward Engl Education Meteoric 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 United States History to 1877 MATH 1314 College Algebra or 1 MATH 1332 Structures of College Mathematics or higher level math SPCH 1315 Public Spedking or SPCH 1321 Business and Professional Speech **An additional college level math or laboratory science Any three-hour laboratory science Any three-hour fine arts course Elementary Education Citives (Should be selected from social science, natural science, mathematics, foreign languages and fine arts) Secondary Education	

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 Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Elective	3
Technical Core	
MAIN 2404 Structural Repair	
ELEC 2410 National Electrical Code	
HVAC 1401 Refrigeration Theory	
MAIN 1402 Plumbing	
Major Requirements	
ELEC 1401 D.C. Circuits	
ELEC 1404 Electronics I ELEC 2302 Electrical Power Technology	
ELEC 2302 Electrical Power Technology	ປ
ELEC 2377 Cooperative work Experience	
ELEC 2400 Electrical Machinery and Controls	
ELEC 2404 Electrical Machinery and controls	
Total Semester Hours	
*PHED 1100 should be the first course taken in physical education. Credit for ELEC courses may be awarded by passing an advanced standing examination training or experience who wish to apply for advanced standing should contact the de	
Certificates in Electrical Technology	
Level I certificates are TASP-waived.	
Level I certificates are TASP-waived. Level I Electrical Technician	Semester Hrs

ELECTRICAL/ELECTRONICS TECHNOLOGY	109
Technical Core	<u></u>
ELEC 1401 D.C. Circuits	4
ELEC 2404 Electrical Machinery and Controls	
ELEC 2410 National Electrical Code	
Total Hours	18
Level II Advanced Electrical Technician	
Semeste	er Hrs
General Education Core	
COSC 1301 Introduction to Computer Systems	
PSYC 2302 Applied Psychology	
TMTH 1370 Technical College Mathematics or higher level math	3
Fechnical Core	
ELEC 1401 D.C. Circuits	4
ELEC 1404 Electronics I	4
ELEC 2205 Electronic Instruments	2
ELEC 2302 Electrical Power Technology	3
ELEC 2305 Electrical Business Operations	3
ELEC 2377 Cooperative Work Experience	
ELEC 2400 Electronics II	
ELEC 2404 Electrical Machinery and Controls	
ELEC 2410 National Electrical Code	4
ELEC 2411 Programmable Logic Controllers	4
Total Hours	44
Course of Study for Associate in Applied Science Degree	
Electronics Technology	
Semester	Hrs

rements	
ion to Computer Sustame	

General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra <u>or</u>	
MATH 1372 Technical College Algebra	
PSYC 2302 Applied Psychology	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	
Elective	
Elective	3
	_
	_
Elective	
Major Requirements	
Major Requirements	
Major Requirements ELEC 1401 D.C. Circuits ELEC 1402 Computer Circuits I ELEC 1403 A.C. Circuits I ELEC 1404 Electronics I	
Major Requirements	
Major Requirements ELEC 1401 D.C. Circuits ELEC 1402 Computer Circuits I ELEC 1403 A.C. Circuits	
Major Requirements	
Major Requirements 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 2377 Cooperative Work Experience ELEC 2400 Electronics I ELEC 2400 Electronics I ELEC 2401 Two Way Radio	
Major Requirements 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 2377 Cooperative Work Experience ELEC 2400 Electronics II	
Major Requirements 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 2377 Cooperative Work Experience ELEC 2400 Electronics I ELEC 2400 Electronics I ELEC 2401 Two Way Radio	

ELECTRICAL/ELECTRONICS TECHNOLOGY

telated Requirements	
elated Dequirements	
elated Dednitetites	4
DFTG 1405 Technical Drafting (DRAF 1401)	4
otal Semester Hours	66
PHED 1100 should be the first course taken in physical education.	
Credit for ELEC courses may be awarded by passing an advanced standing examination. Students with raining or experience who wish to apply for advanced standing should contact the department chair.	prior
Certificates in Electronics Technology	
Level I certificates are TASP-waived.	
Level I Certificate for Electronics Technician	
General Education Core Semester	Hrs
TMTH 1370 Technical College Math or higher level math	3
Fechnical Core	
ELEC 1401 D.C. Circuits	4
ELEC 1402 Computer Circuits I	4
ELEC 1403 A.C. Circuits	
ELEC 1404 Electronics I ELEC 1408 Computer Circuits II	
	•••••
otal Semester Hours	23
Level II Certificate for Advanced Electronics Technician	
General Education Core Semester	Hrs
COSC 1301 Introduction to Computer Systems	
ENGL 1312 Report Writing TMTH 1370 Technical College Math <u>or</u> higher level math	
· · ·	
Fechnical Core ELEC 1401 D.C. Circuits	
ELEC 1401 D.C. Circuits	
ELEC 1403 A.C. Circuits	
ELEC 1404 Electronics I	
ELEC 1408 Computer Circuits II	4
ELEC 2400 Electronics II	
ELEC 2401 Two-way Radio	
ELEC 2408 Computer Circuits III ELEC 2414 Circuit Analysis	
•	
oral Selliester Hours	45
ELEC 2414 Circuit Analysis	

Electronics Technology Courses

ELEC 1401 D. C. Circuits

ELEC 1402 Computer Circuits I

Ú.

ELEC 1403 A.C. Circuits

ELEC 1404 Electronics I

ELEC 1408 Computer Circuits II

ELEC 2205 Electronic Instruments

ELEC 2302 Electrical Power Technology

Presents methods and equipment for generation, transmission and distribution of electrical power. Emphasis is placed on the past, present, and future of electrical power technology including power consumption, power supplies, and alternative power supplies. The student is able to identify electrical power techniques by researching and presenting a written report on a related subject. (SCANS 6, 10, 11) Prerequisite: None.

ELEC 2305 Electrical/Electronics Business Operations

Introduces basic understanding of setting up and operating a small business. By designing a small business and preparing a budget for that business, the student is able to identify: types of ownership, types of loans, accounting techniques, marketing techniques, cash flow, legal aspects, material control, and equipment control. (SCANS 3, 4, 6, 7, 9, 10) Prerequisite: None.

ELEC 2377 Cooperative Work Experience

A capstone course designed to interrelate 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

A continuation of ELEC 1404. Includes devices such as operational amplifiers, oscillators, multivibrators, UJTs, SCRs, Diacs, Triacs, varactors and RF amplifiers. Emphasis is placed on designing and troubleshooting solid state systems such as oscillators, filters, solid state motor controls, and comparators. The electronics lab will enable the student, along with a lab partner, to choose the material, tools, equipment, and procedures necessary to identify, construct, and troubleshoot solid state circuitry. Lab fee required. (SCANS 5, 7, 8, 9) Prerequisite: ELEC 1404 or consent of the department chair.

ELEC 2401 Two-way Radio

Presents principles of amplitude and frequency modulation, antennas and RF detection. Includes single sideband, automatic frequency and gain devices, as well as noise suppression, RF frequency. power measurements and adjustments. Emphasis is placed on services and troubleshooting communication equipment such as two-way radios. The electronics lab will enable the student, along with a lab partner, to choose the material, tools, equipment, and procedures necessary to identify, construct and troubleshoot communication systems. Lab fee required. (SCANS 5, 7, 8, 9) Prerequisite: ELEC 2400 or consent of the department chair.

ELEC 2404 Electrical Machinery and Controls

Presents principles, applications and peripherals of control circuitry. Includes electrical motors transformers, relays, contactors, starters, and ladder logic. Emphasis is placed on designing, constructing, and troubleshooting motor control systems. The electrical lab will enable the student, along with a lab partner, to choose the material, tools, equipment, and procedures necessary to identify, construct and troubleshoot electrical control circuitry. Lab fee required. (SCANS 5, 8, 9) Prerequisite: None.

ELEC 2408 Computer Circuits III

Presents terminology and principles of computer repair. Includes topics on operating systems, bus structures, disk drives, monitors, modems, and printers. The computer lab will enable the student to choose the procedure and equipment necessary to troubleshoot and repair modern computers and their peripheral devices. Lab fee required. (SCANS 5, 8, 9) Prerequisite: ELEC 1408.

.

ELEC 2410 National Electrical Code

ELEC 2411 Programmable Logic Controllers

ELEC 2414 Circuit Analysis

Emergency Medical Technology

Faculty: LeeDon Martin, chair; Michael Nunnelee, 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.

Students considering enrolling in EMED 1501 and EMED 1301 must have approval from department chair before enrolling.

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.

In addition to the student liability, the student will be responsible for other necessary equipment as well. This equipment is mandatory for class and the student should be aware of the extra costs involved. The student should contact the department chair or one of the faculty members before enrolling in the class to get a list of the necessary equipment.

Ì

tin.

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

First Year

First Semester	0
EMED 1301 Clinical Procedures	Semester Hrs
EMED 1501 Basic Emergency Care	
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or higher-level math	3
*PHED 1100 Lifestyle Assessment and Modification	
Second Semester	
BIOL 1170 Medical Terminology	
BIOL 2404 Human Anatomy and Physiology	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National G	
*PHED (any one-hour activity course) SPCH 1321 Business and Professional Speech	
First Summer Session	
EMED 2201 Electrocardiography and Prehospital Pharmacology	
Second Year	
Third Semester	
COSC 1301 Introduction to Computer Science	
EMED 2801 Paramedic Development I	
+Guided Elective(s)	
Fourth Semester	
EMED 2802 Paramedic Development II	
PSYC 2301 Introduction to Psychology	
Elective	
Total Semester Hours	
+Guided electives are chosen by students from the following courses:	
EMED 2601 Intermediate Emergency Care	
OSHA 2396 Hazardous Waste and Emergency Response	
PHED 2376 Prevention and Care of Athletic Injuries	
SPAN 1300 Conversational Spanish	
*PHED 1100 should be the first course taken in physical education.	
Course of Study for Certificate of Completi	ion
Level I certificates are TASP-waived.	
Level I Basic Emergency Medical Technician	
First Semester	
EMED 1301 Clinical Procedures	
EMED 1501 Basic Emergency Care	
*PHED (any one-hour activity course)	
Second Semester	
COSC 1301 Introduction to Computer Science	a
SPCH 1321 Business and Professional Speech	
•	
Total Semester Hours	

EMERGENCY MEDICAL TECHNOLOGY	115
Level I Intermediate Emergency Medical Technicia	n
First Semester	_
EMED 1301 Clinical Procedures	
EMED 1501 Basic Emergency Care	
SPCH 1321 Business and Professional Speech	
econd Semester	
COSC 1301 Introduction to Computer Science	
EMED 2401 Intermediate Clinical Procedures	
EMED 2601 Intermediate Emergency Care	
*PHED (any one-hour activity course)	
lotal Semester Hours	
Level I Advanced Emergency Medical Technician	
First Semester	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	
irst Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care *PHED (any one-hour activity course)	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	
First Semester COSC 1301 Introduction to Computer Science EMED 1301 Clinical Procedures EMED 1501 Basic Emergency Care	2

Emergency Medical Technology Courses

EMED 1301 Clinical Procedures

EMED 1501 Basic Emergency Care

116	
EME	D 2201 Electrocardiography and Prehospital Pharmacology (2-0) [6 weeks]
	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) * Prerequisite: None.
EME	D 2400 Advanced Paramedic Review
	(4-0)
EME	D 2401 Intermediate Clinical Procedures
	(0-10)
EME	ED 2601 Intermediate Emergency Care
	(4-8)
EME	ED 2801 Paramedic Development I
	(4-12) 8 hours Presents terminology, concepts, and techniques needed to care for the acutely ill. Students learn to read, write and interpret data and learn basic drug calculations, as well as learn to prioritize time and tasks and enhance their interpersonal team communications. Students learn advance skill techniques, and how to become part of the ambulance and hospital systems. Lab fee required. (SCANS 1, 2, 3, 4, 5, 7, 8, 9, 11) Prerequisite: BIOL 2404, EMED 2201, EMT certification and consent of the department chair.
EM	ED 2802 Paramedic Development II
	(4-12)

pediatrics, rescue techniques, communication and management of emotionally disturbed. Students will be part of the ambulance and hospital teams and will be responsible for total patient care decisions. Students will learn independent thinking and decision-making techniques. At the completion of the course, students may take the EMT-paramedic state certification examination. Lab fee required. (SCANS 1, 2, 3, 5, 8, 9, 10, 11) State exam fee required. Prerequisite: EMED 2801 and consent of the department chair.

ی ا

9 -

Engineering

Faculty: Yancy Nuñez, chair.

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

	Semester Hrs
General Education Requirements	
ENGL 1301 Composition and Rhetoric	
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 1348 Analytic Geometry	
MATH 2313 Calculus I	
*PHED (any two one-hour activity courses)	
PHYS 2425 Engineering Physics I	
PHYS 2426 Engineering Physics II	
SPCH 1321 Business and Professional Speech	
Major Requirements	
ENGR 1304 Engineering Drawing	
ENGR 2301 Mechanics I	
ENGR 2302 Mechanics II	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2320 Differential Equations	
Related Requirements	
CHEM 1111 Fundamentals of Chemistry Lab I	••••••••••••••••••••••••••••••••••••
CHEM 1112 Fundamentals of Chemistry Lab II	
CHEM 1311 General Inorganic Chemistry I	
CHEM 1312 General Inorganic Chemistry II	
COSC 1415 Introduction to Computer Science	
Total Semester Hours	
*PHED 1100 should be the first course taken in physical education	

*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 (48.0101.5129)

118

ENGINEERING - ENGLISH AND FOREIGN LANGUAGES

ENGR 2301 Mechanics I (14.1101.5229)

ENGR 2302 Mechanics II (14.1101.5329)

English and Foreign Languages

Faculty: Donna Smith, chair; I-Fan Chen, Dr. Judith Cornes, Beverly Forsyth, Wayne Johnson, Mark Jordan, Kathryn Keen, Dr. Daryl Lane, Dr. Bob Mobley, Dr. David Mulry, Ivan Reyez, Dr. Michael White, Lynn Whitson.

English

Language makes us human, not only raising us above a mere animal-like existence but also allowing us to create societies and culture by shaping and controlling our thought. Language is fundamental not only to our survival and progress but also to the form of our literary creations; it reflects the heritage and dignity of the human condition. The English Department, therefore, is committed to providing comprehensive instruction in composition and literature and creating the finest educational opportunities possible for students who have the desire and ability to learn.

Specifically, it provides the first two years of English and pre-professional courses for transfer students, occupational/technical writing courses for students in specialized vocational fields, developmental and general education to prepare students for the TASP and higher level writing and critical thinking skills, courses to meet various community needs, and opportunities for personal enrichment. In sum, the English Department offers excellence in its courses, services and practices. It affirms equal access for all individuals within the diverse student population and approaches all endeavors with the highest standards of ethics and professionalism.

Tutoring Labs

Tutoring is available free of charge to OC students. A Tutoring Lab is located in the Learning Resources Center (LRC), Room 200A. This lab offers open access to both the PLATO computer lab on the third floor of the LRC and to the IBM-compatible computers in LRC 301. Additional writing labs, equipped with computers, are located in Wilkerson Hall 206 and Wilkerson Hall 213; log-in for both of these labs is in Wilkerson Hall 206.

All labs provide 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.

ENGLISH AND FOREIGN LANGUAGES

Course of Study for Associate in Arts Degree English Major

	English Major	
	Semes	
	ral Education Requirements	
	COSC 1301 Introduction to Computer Systems	
	Foreign Language (FREN, GERM or SPAN 1411 and 1412)	
	Foreign Language (sophomore level)	6
	GOVT 2301 U.S. and Texas Government	
(GOVT 2302 American National Government	3
- 1	HIST 1301 U.S. History to 1877	3
1	HIST 1302 U.S. History from 1877	
	**MATH (college level)	
	*PHED (any two one-hour activity courses)	
	Science (two sequential laboratory courses)	
	SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
	Requirements	
1	ENGL 1301 Composition and Rhetoric	3
- 1	ENGL 1302 Composition and Literature	3
1	ENGL 2322 Survey of British Literature I	
	ENGL 2323 Survey of British Literature II	
	·	
Appro	oved Electives (see department chair for options)	3
Total	Semester Hours	63
lotai	Semester hours	03
*DUE	D 1100 should be the first course taken in physical education	
Stude exami	D 1100 should be the first course taken in physical education. Ints who have some knowledge of a foreign language are advised to consider the advanced s ination program for credit by examination. Idents should check math requirement of designated senior institution.	standing
Stude exami	ents who have some knowledge of a foreign language are advised to consider the advanced in ination program for credit by examination.	standing
Stude exami ** Stu ENGL	ents who have some knowledge of a foreign language are advised to consider the advanced ination program for credit by examination. Indents should check math requirement of designated senior institution. English Courses - 0171 Sentence Structure (32.0108.5335)	
Stude exami ** Stu ENGL	ents who have some knowledge of a foreign language are advised to consider the advanced s ination program for credit by examination. Indents should check math requirement of designated senior institution. English Courses	1 hour hasizes e TASP se does
Stude exami ** Stu ENGL	ents who have some knowledge of a foreign language are advised to consider the advanced sination program for credit by examination. Indents should check math requirement of designated senior institution. English Courses - 0171 Sentence Structure (32.0108.5335) (0-1)	1 hou hasizes e TASF se does NS 2, 9
Stude exami ** Stu ENGL () ENGL	ents who have some knowledge of a foreign language are advised to consider the advanced sination program for credit by examination. Indents should check math requirement of designated senior institution. English Courses - 0171 Sentence Structure (32.0108.5335) (0-1) A compensatory self-paced lab course designed to improve basic thinking and writing skills. Empletechniques for creating concise and effective sentence structures. Prepares student for the examination and for ENGL 0370 and ENGL 1301. Credit probably not transferable. This cour not satisfy requirements for any degree plan at Odessa College. Lab fee required. (SCAt Prerequisite: None.	1 hou hasizes e TASF se does IS 2, 9 1 hou hasizes repares ably no
Stude exami ** Stu ENGL () 1 ENGL () 2 1 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ents who have some knowledge of a foreign language are advised to consider the advanced ination program for credit by examination. Idents should check math requirement of designated senior institution. English Courses 0171 Sentence Structure (32.0108.5335) (0-1)	1 hou hasizes e TASF se does NS 2, 9 1 hou hasizes repares ably no age. Lal

ENGL 0174 Usage (32.0108.5335)

ENGL 0370 Basic English (32.0108.5335)

ENGL 1301 Composition and Rhetoric (23.0401.5135)

ENGL 1302 Composition and Literature (23.0401.5135)

ENGL 1312 Report Writing (23.1101.5135)

ENGL 2307 Creative Writing (23.0501.5135)

ENGL 2311 Technical and Report Writing (23.1101.5135)

-

ENGL 2322 Survey of British Literature I (23.0801.5135)

ENGL 2323 Survey of British Literature II (23.0801.5135)

ENGL 2327 Survey of American Literature I (23.0701.5135)

ENGL 2328 Survey of American Literature II (23.0701.5135)

ENGL 2332 Survey of World Literature I (23.0301.5235)

ENGL 2333 Survey of World Literature II (23.0301.5235)

Options

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

Students have an alternative to the regular ENGL 1302 course listed above. The alternative is ENGL 1302-Science Fiction, which is based on science fiction and fantasy novels, stories and movies.

Students who are pursuing a certificate of technology or an associate in applied science degree in certain technical programs enroll in ENGL 1312-Report Writing and/or ENGL 2311-Technical and Report Writing instead of ENGL 1301-Composition and Rhetoric to meet the general education requirements in English for those technical programs.

On the sophomore level, the department offers an alternate method for completing ENGL 2327-Survey of American Literature I and ENGL 2328-Survey of American Literature II. 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

Foreign Language Major	
-	emester Hrs
General Education Requirements	43
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	6
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	
MATH (college level)	
*PHED (any two one-hour activity courses)	
Science (two sequential laboratory courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	22
Foreign Language 1411 and 1412	8
Foreign Language 1411 and 1412 (second language)	
Foreign Language (sophomore level)	
Approved Elective (see department chair for options)	
Total Semester Hours	
*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 advar	nced standing
examination program for credit by examination.	g
French	
FREN 1411 First Year French I (16.0901.5131)	

	ENGLISH AND FOREIGN LANGUAGES	123
FREN 1412 First Year Frencl	h II (16.0901.5131)	4 baying
A continuation of FREN	1411. Has same purposes and uses same techniques. ite: FREN 1411 or its equivalent.	
FREN 2311 Second Year Fre	ench I (16.0901.5231)	2 60.00
A continuation of FREN 1	1411 and FREN 1412. Conducted in French. Emphasizes of Includes grammar and composition. Individual help availa	onversation based
FREN 2312 Second Year Fre		
	V 2311. Has same purposes and uses same technique 1 or its equivalent.	
	German	
GERM 1411 First Year Germ		
A basic course conduct language. Emphasizes s grammar and compositio	ted in German for students without previous experienc simple conversation: pronunciation, fluency and vocabular n. May require up to two hours per week of individual practi- able. Lab fee required. (SCANS 2, 9) Prerequisite: None.	e in the German y. Presents basic
GERM 1412 First Year Germ	an II (16.0501.5131)	
A continuation of GERM	1 1411. Has same purposes and uses same techniques. ite: GERM 1411 or its equivalent.	
GERM 2311 Second Year Ge	erman I (16.0501.5231)	2 hours
A sequential continuation based on reading assign	n of GERM 1411 and 1412. Conducted in German. Emphas nments. Includes grammar and composition. Many cour vailable. (SCANS 2, 9) Prerequisite: GERM 1412 or its eq	sizes conversation se elements self-
GERM 2312 Second Year Ge	erman II (16.0501.5231)	
	M 2311. Has same purposes and uses same technique 1 or its equivalent.	
	Latin	
LATI 1411 First Year Latin I	· /	
An introductory study of I includes grammar, synta	Latin for those students with little or no previous knowledg ax and vocabulary with the aim of achieving a reading lected readings from Roman authors. Lab fee required	e of the language knowledge of the
LATI 1412 First Year Latin II		
		4 hours er with vocabulary

Spanish

	(3-0)
SPA	N 1310 Conversational Spanish II (16.0905.5431)
	(3-0)
	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.
SPA	N 1305 Intensive Spanish Practicum (16.0905.5131) (8-16)[2 weeks]
	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.
SPA	N 1411 First Year Spanish I (16.0905.5131)
	(3-2)
	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 elements self-paced. Lab fee required. (SCANS 2, 9) Prerequisite: None.
SPA	N 1412 First Year Spanish II (16.0905.5131)
	(3-2)
	pronunciation, fluency and vocabulary. Presents more advanced grammar and composition. May require up to two hours per week of individual practice in the language lab. Individual help available. Many elements self-paced. Lab fee required. (SCANS 2, 9) Prerequisite: SPAN 1411 or its equivalent.
SPA	N 2311 Second Year Spanish I (16.0905.5231)
	(3-0)
	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.
SPA	N 2312 Second Year Spanish II (16.0905.5231) (3-0)
	Conducted in Spanish, a continuation of Spanish 2311. Emphasizes conversation based on reading assignments. Includes grammar and composition. Many elements self-paced. (SCANS 2, 9) Prerequisite: SPAN 2311 or its equivalent.
SPA	N 2313 Spanish for Native Speakers of Spanish I (16.0905.5431) (3-0)
	Gives special attention to pronunciation, writing, reading and usage for students 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.
	N 2315 Spanish for Native Speakers of Spanish II (16.0905.5431) (3-0)
SPA	3 hours

ENGLISH AND FOREIGN LANGUAGES - FIRE TECHNOLOGY

SPAN 2321 Spanish Literature I (16.0905.5331) (3-0)

SPAN 2322 Spanish Literature II (16.0905.5331)

Environmental (see Occupational Safety and Health Technology)

Fire Technology

Faculty: LeeDon Martin, chair; Mike Nunnelee.

The fire technology program assists in the development of meaningful educational experiences for preservice and in-service firefighters. 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 First Year

First Semester	Semester Hrs
FIRE 1204 Fire Hydraulics and Equipment	2
FIRE 1401 Fire Safety	
FIRE 1402 Fire Protection	
FIRE 1503 Fire Tactics and Strategies	5
Second Semester	
EMED 1301 Clinical Procedures	
EMED 1501 Basic Emergency Care	5
FIRE 1107 Fire Skills	
FIRE 1306 Fire Prevention	
FIRE 1505 Hazardous Materials	

Second Year

ŵ

Third Semester	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
FIRE 2315 Advanced Fire Tactics and Strategies	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government .	
MATH 1332 Structures of College Mathematics I or	
MATH 1372 Technical College Algebra or higher-level math	3
OSHA 2396 Hazardous Waste and Emergency Response	
*PHED (any one-hour activity course)	1
Fourth Semester	•
COSC 1301 Introduction to Computer Systems	
FIRE 2307 Fire Safety Education	
FIRE 2377 Cooperative Work Experience	
PHED (any one-hour activity course)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Total Semester Hours	64
*PHED 1100 should be the first course taken in physical education.	
A contificate of technology may be carred by these who do not wish to pursue an according	tooroo hu
A certificate of technology may be earned by those who do not wish to pursue an associate of completing the course of study listed below.	legree by
completing the course of study listed below.	
Certificates of Technology	
Level I - Fire Protection	
Level I certificates are TASP-waived.	
	ester Hrs
FIRE 1204 Fire Hydraulics and Equipment	
FIRE 1401 Fire Safety	
FIRE 1402 Fire Protection	
FIRE 1503 Fire Tactics and Strategies	5
Second Semester	
EMED 1301 Clinical Procedures	3
EMED 1501 Basic Emergency Care	
FIRE 1107 Fire Skills	
FIRE 1306 Fire Prevention	
FIRE 1505 Hazardous Materials	
	•
Total Semester Hours	
Level III - Advanced Certificate	
May only be awarded along with or following completion	
of Associate or higher-level degree.	
First Semester Seme	ester Hrs
FIRE 2301 Fire and Arson Investigation	
FIRE 2302 Building Codes and Construction	
FIRE 2303 Fire Administration	
Total Hours	

Fire Technology Courses

FIRE 1107 Fire Skills

Students will understand the recognition of fire hazards and the objectives and view of inspections, fundamental principles, methods, techniques, and procedures of fire prevention administration. Will project the estimated expenditures and/or budget needs of fire prevention. Includes interpretation of fire prevention organizations, their public image and cooperation with the public. Considers legal aspects and insurance problems. Emphasizes development and implementation of a systematic and deliberate inspection program and the relative relationship between building inspection agencies and fire prevention organizations. Surveys local, state and national codes pertaining to fire prevention and related technology. Offers engineering as a solution to fire hazards. (SCANS 3, 7, 8, 9, 10) Prerequisite: None.

FIRE 1204 Fire Hydraulics and Equipment

Interprets the laws of mathematics and physics to properties of fluid states, force pressure and flow velocities. Students will perform basic calculations applying principles of hydraulics to fire fighting problems. Will select technology to evaluate water supply, flow requirements of standpipes, sprinklers, appliances and methods of determining available quantities of water for fire protection purposes. (SCANS 3, 6, 8) Lab fee required. Prerequisite: None.

FIRE 1306 Fire Prevention

(2-2) Students will understand the recognition of fire hazards and the objectives and views of administration. Will project the estimated expenditures and/or budget needs of fire prevention. Includes interpretation of fire prevention organization, public image and cooperation with the public. Considers legal aspects and insurance problems. Emphasizes development and implementation of a systematic and deliberate inspection program and the relative relationship between building inspection agencies and fire prevention organizations. Surveys local, state, and national codes pertaining to fire prevention and related technology. Offers engineering as a solution to fire hazards. (SCANS 7, 8, 9, 10) Prerequisite: None.

FIRE 1401 Fire Safety

Evaluates the many different physical, chemical and electrical hazards encountered by fire protection personnel. Students will interpret their relationship to loss of property and/or life. Presents detailed examination and study of the physical and psychological variables related to the occurrence of casualties. Stresses safety techniques while on the fire ground, at the fire station, and while driving emergency vehicles. (SCANS 6, 7, 8, 9, 11) Prerequisite: None.

FIRE 1402 Fire Protection

Presents history and philosophy of fire protection and reviews statistics of 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 catalog, 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

FIRE 1503 Fire Tactics and Strategy

(SCANS 1, 2, 6, 7, 8, 9) Prerequisite: None.

Participants will cover the essential elements in analyzing the nature of fire and determining the requirements for extinguishment, and will select the correct technology to produce efficient and effective utilization of manpower and equipment. Stresses efficient and effective utilization of manpower and equipment. Emphasizes pre-planning, study of conflagration phenomena, fire ground organization and problem solving related to decision making and attack strategy and tactics. Includes use of mutual aid and large scale command problems. Lab fee required. (SCANS 4, 7, 8, 9) Prerequisite: None.

investigation, fire prevention, hazardous materials and emergency medical service. Lab fee required.

FIRE 1505 Hazardous Materials

Student will understand and interpret the different chemical characteristics and behavior of various hazardous materials, including flammable liquids, combustible gases and solids. Emphasizes emergency situations and the most favorable methods of extinguishing, controlling and handling such substances. (SCANS 6, 8, 9) Prerequisite: None.

FIRE 2301 Eire and Arson Investigation

Deals with the problem of fire and arson in today's society. Introduces investigative theory, collection and preservation of evidence and sources of information. Students will be able to observe documents and other tangible items and determine their evidence quality, write reports on investigative findings, and learn to allocate resources, exercise leadership over activities, evaluate information and use creative thinking and deductive reasoning in the process of fire scene investigation. Students will become familiar with forensic sciences and processes for case preparation and trial procedures. (SCANS 2, 4, 5, 6, 7, 9) Prerequisite: None.

FIRE 2302 Building Codes and Construction

Considers and interprets fundamentals of building construction and design. Emphasizes fire resistance of building materials and assemblies, exposures and related data focused on fire protection concerns. Student will select the correct technology for fire suppression, ventilation and forcible entry. Reviews related statutory and suggested guidelines, both local and national. Reviews Model Building Codes and Life Safety Code. (SCANS 6, 8, 9) Prerequisite: None.

FIRE 2303 Fire Administration

Presents organization and management of fire departments. Includes budgeting, maintaining records and reports, and maintaining personnel. Also includes relation of various governmental agencies to fire protection areas. Views fire service leadership from the administrative position. (SCANS 6, 7, 9, 10) Prerequisite: None.

FIRE 2307 Fire Safety Education

Evaluates the many different physical, chemical and electrical hazards encountered by fire protection personnel. Students will interpret their relationship to loss of property and/or life. Presents detailed examination and study of the physical and psychological variables related to the occurrence of casualties. Stresses safety techniques while on the fire ground, at the fire station and while driving emergency vehicles. (SCANS 6, 7, 8, 9) Prerequisite: None.

FIRE 2315 Advanced Fire Tactics and Strategies

Participants will cover the essential elements in analyzing the nature of fire and determining the requirements for extinguishment. Will select the correct technology to produce efficient and effective utilization of manpower and equipment. Emphasizes preplanning, study of conflagration phenomena, fire ground organization and problem solving related to decision making and attack strategy and tactics. Includes use of mutual aid and large scale command problems. Fire scene operations will maintain the initial goal of safety and fire extinguishment. These technologies include assuming command, evaluating the situation, communicating, identifying strategies and developing plans, changes in command and total implementation. Emphasizes all aspects of the incident command system. (SCANS 6, 7, 8, 9) Prerequisite: FIRE 1402 or consent of the department chair.

FIRE 2377 Cooperative Work Experience

A capstone course designed to interrelate 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.

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 Hrs CHEM 1311 General Inorganic Chemistry I and CHEM 1312 General Inorganic Chemistry II and CHEM 1112 Fundamentals of Chemistry Laboratory II 4 PHYS 1401 College Physics I or PHYS 2425 Engineering Physics I 4 PHYS 1402 College Physics II or PHYS 2426 Engineering Physics II 4 BIOL 2470 Marine Ecology 4

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

GEOLOGY, ANTHROPOLOGY AND GEOGRAPHY

GEOL 1403 Physical Geology (40.0601.5139)

This course is a study of the physical aspects of the Earth's crust. Students will study the origin, occurrence, and classification of minerals, rocks, structures and landforms. Laboratory activities involve the students in organizing and processing data related to the classification of minerals and rocks and principles underlying the relationships between topographic maps and geological processes. Lab fee required. (SCANS 6, 9) Prerequisite: None.

GEOL 1404 Historical Geology (40.0601.5139)

Students study the chronological sequence of events in the physical history of the Earth and its life forms. Laboratory activities involve the students in acquiring and evaluating data related to fossils and their relationship to ancient environments. Students also organize and process data related to the classification of fossils and principles underlying the relationships between lithology, age, structure and geological map interpretation. Lab fee required. (SCANS 6, 9) Prerequisite: None.

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 (45.0301.5142)

This course is a study of the physical characteristics of man. Students will interpret data related to modern man, fossil man, and higher primates. Students organize and process data related to physical characteristics of modern man and analyze principles underlying the relationships between modern man and prehistoric man. (SCANS 6, 9) Prerequisite: GEOL 1403 or consent of the department chair.

ANTH 2351 Cultural Anthropology (45.0201.5342)

Students will study human culture in the historical perspective. Students also organize and process data related to the development of culture as well as comparing principles and relationships of present cultures. (SCANS 6, 9) Prerequisite: None.

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 (45.0701.5142)

Students are taught to understand and interpret physical and cultural geography of North and South American countries. Students also organize and process data related to geographic maps of the various countries. (SCANS 6) Prerequisite: None.

GEOG 1302 Principles of Geography II (45.0701.5142)

Students study the physical and cultural geography of Europe, Asia, Africa, Australia, and the more important island groups. Students also organize and process data related to geographic maps of the countries and island groups. (SCANS 6) Prerequisite: None.

German (see English and Foreign Languages)

Government (see Social Sciences)

Heating, Ventilation, Air Conditioning Technology

Faculty: James Bates, chair.

Heating, ventilation and air conditioning (HVAC) 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

General Education Requirements COSC 1301 Introduction to Computer Systems ENGL 1301 Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing	2(
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
*PHED (any two one-hour activity courses)	2
PSYC 2302 Applied Psychology	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
fechnical Core	16
ELEC 2410 National Electrical Code	
HVAC 1401 Refrigeration Theory	4
MAIN 1402 Plumbing Fundamentals	4
MAIN 2404 Structural Repair	4
Aajor Requirements	
ELEC 2404 Electrical Machinery and Controls	
HVAC 1400 Basic Control Theory	
HVAC 1403 Commercial Refrigeration	
HVAC 1404 Heating	
HVAC 1405 Fundamentals of Sheet Metal	
HVAC 2302 Air Conditioning Design	
HVAC 2377 Cooperative Work Experience	
HVAC 2405 Mechanical Code	4
Fotal Semester Hours	6€

Certificate of Technology	
Heating, Ventilation, Air Conditioning	
Certificates of technology are available in the following job-specific fields. See burse requirements.	the program chair for
Level I certificates are TASP-waived.	
Basic HVAC Technician (Level I)	Companya
COSC 1301 Introduction to Computer Systems	Semester Hrs
HVAC 1400 Basic Control Theory	······································
HVAC 1401 Refrigeration Theory	
HVAC 1404 Heating MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra	
PSYC 2302 Applied Psychology	
otal Semester Hours	
Ot and Madel Taskatalan (Lough I)	
<u>Sheet Metal Technician (Level I)</u>	Semester Hrs
COSC 1301 Introduction to Computer Systems	
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
HVAC 1405 Fundamentals of Sheet Metal Pattern Drafting and Layout	
HVAC 2302 Air Conditioning Design	
PSYC 2302 Applied Psychology	
otal Semester Hours	
Commercial Defineration Maintenance Technician (
Commercial Refrigeration Maintenance Technician (
COSC 1301 Introduction to Computer Systems	Semester Hrs
COSC 1301 Introduction to Computer Systems ELEC 2410 National Electrical Code	Semester Hrs
	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra PSYC 2302 Applied Psychology	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra PSYC 2302 Applied Psychology otal Semester Hours	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair MAIN 2404 Structural Repair MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra PSYC 2302 Applied Psychology	Semester Hrs
ELEC 2410 National Electrical Code HVAC 1400 Basic Control Theory HVAC 1401 Refrigeration Theory HVAC 1403 Commercial Refrigeration HVAC 2404 HVAC System Troubleshooting MAIN 1402 Plumbing Fundamentals MAIN 2404 Structural Repair MATH 1314 College Algebra <u>or</u> MATH 1372 Technical College Algebra PSYC 2302 Applied Psychology otal Semester Hours	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs
ELEC 2410 National Electrical Code	Semester Hrs

HEATING, VENTILATION, AIR CONDITIONING TECHNOLOGY

HVAC Shop Manager — Advanced Skills Certificate (Level III) May only be awarded along with or following completion

of Associate or higher-level degree.

	Semester Hrs
MGMT 1301 Introduction to Management	
MGMT 1302 Managerial Functions	
MGMT 2304 Personnel and Human Relations	
MGMT 2306 Human Resource Management	
ſotal Semester Hours	

Heating, Ventilation, Air Conditioning Technology Courses

HVAC 1400 Basic Control Theory

HVAC 1401 Refrigeration Theory

HVAC 1403 Commercial Refrigeration

HVAC 1404 Heating

HVAC 1405 Fundamentals of Sheet Metal Layout

HVAC 2302 Air Conditioning Design

HVAC 2305 Refrigeration and Air Conditioning Business Operations

HVAC 2377 Cooperative Work Experience

HVAC 2404 HVAC System Troubleshooting

HVAC 2405 Mechanical Code

HVAC 2409 Building Energy Audit Training

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

a second period with the period of the second se	
eneral Education Requirements	
CDEC 1393 Special Topics in Family Living and Parenthood (Abuse and Neglect) [for	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American Nationa	
MATH 1332 Structures of College Mathematics I or higher level math	
*PHED (any two one-hour activity courses)	
PSYC 2301 Introduction to Psychology	
PSYC 2302 Applied Psychology	
SOCI 1301 Principles of Sociology	
SOCI 1306 Social Problems	
SOCI 1306 Social Problems SOCI 2301 Sociology of the Family	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech ective ajor Requirements	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech ective ajor Requirements	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech ective ajor Requirements	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech	
SOCI 2301 Sociology of the Family SPCH 1321 Business and Professional Speech ajor Requirements HUMS 1301 Introduction to Chemical Dependency HUMS 1302 Issues in Chemical Dependency HUMS 1306 Basic Counseling Skills I	22

Students who wish only to qualify to take the TCADA licensure or TAADAC certification 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.

Level I ce	rtificates are	TASP	-waived
------------	----------------	------	---------

Course of Study for Certificate of Completion Level I - Alcohol and Drug Abuse

	Semester Hrs
General Education Requirement	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or higher level math	
SPCH 1321 Business and Professional Speech	
Major Requirements	
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	
Total Semester Hours	

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

Latin (see English and Foreign Languages)

Law Enforcement/Criminal Justice

Faculty: Jim McKown, chair; Sidney Lyle, Brad Miller, Geoffrey Schwende.

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 Degrees Law Enforcement/Criminal Justice Option

Semester Hrs
General Education Requirements
*COSC 1301 Introduction to Computer Systems
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government
MATH 1332 Structures of College Mathematics I or
MATH 1372 Technical College Algebra or higher level math
**PHED (any two one-hour activity courses)
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
Related Requirements
*OFST 1404 Beginning Word Processing or
*OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4
Major Requirements
*CRIJ 1301 Introduction to Criminal Justice
CRIJ 1306 The Courts and Criminal Procedure
*CRIJ 1307 Crime In America
CRIJ 1310 Fundamentals of Criminal Law
CRIJ 1318 Patrol Administration
CRIJ 1322 Traffic Law
CRIJ 1379 Law Enforcement Telecommunications
CRIJ 2314 Criminal Investigation
*CRIJ 2520 County Corrections
CRIJ 2323 Legal Aspects of Law Enforcement 3
CRIJ 2328 Police Systems and Practices
CRIJ 2331 Traffic Management and Supervision
AND any nine hours selected from the following pool of courses
CRIJ 1321 Probation and Parole
CRIJ 1390 Armed Private Security Investigator
CRIJ 2322 Juvenile Procedures
CRIJ 2325 Correction Systems and Practices
CRIJ 2330 Community Corrections and Rehabilitation
CRIJ 2370 Physical Evidence & Investigation Techniques
CRIJ 2374 Fundamentals of Interviewing
CRIJ 2385 Spanish for Law Enforcement and Emergency Workers 3
CRIJ 2471 Firearms Proficiency 4
CRIJ 2572 Introduction to Pre-Trial Release Services
CRIJ 2578 Human Behavior Patterns5
PSYC 2302 Applied Psychology 3
Total Semester Hours
*Denotes courses which may be articulated from high school based on articulation agreements between
Odessa College and an independent school district. Non-tech-prep students who desire to enroll in the
program at Odessa College must complete these courses along with other leveling or bridge courses as
indicated by assessment results and educational background.
**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, CRIJ2475 and CRIJ2476
for CRU 1310 and CRU 2471.
Students must complete 68 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.
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.

LAW ENFORCEMENT/CRIMINAL JUSTICE

Law Enforcement/Corrections Option

Consul Education Requirements	Semester
General Education Requirements	
*COSC 1301 Introduction to Computer Systems	•••••••••••••••••
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	
MATH 1332 Structures of College Mathematics I or	
MATH 1372 Technical College Algebra or higher level math	
**PHED (any two one-hour activity courses)	••••••••••••••••••••••••••••••
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	
Related Requirements	
*OFST 1404 Beginning Word Processing or	
*OFST 1421 Keyboarding and Document Preparation or	
OFST 1422 Business Productions	
Major Requirements	
*CRIJ 1301 Introduction to Criminal Justice	
CRIJ 1306 The Courts and Criminal Procedure	
*CRIJ 1307 Crime In America	
CRIJ 1310 Fundamentals of Criminal Law	
CRIJ 1321 Probation and Parole	
CRIJ 1379 Law Enforcement Telecommunications	
CRIJ 2314 Criminal Investigation	
CRIJ 2322 Juvenile Procedures	
CRIJ 2323 Legal Aspects of Law Enforcement	
CRIJ 2325 Correction Systems and Practice	
CRIJ 2330 Community Correction and Rehabilitation	
*CRIJ 2520 County Corrections	
AND any nine hours selected from the following pool of courses	
CRIJ 1318 Patrol Administration	
CRIJ 1322 Traffic Law	
CRIJ 1390 Armed Private Security Investigator	
CRIJ 2328 Police Systems and Practice	
CRIJ 2331 Traffic Management and Supervision	
CRIJ 2370 Physical Evidence and Investigation Techniques	
CRIJ 2374 Fundamentals of Interviewing	
CRIJ 2385 Spanish for Law Enforcement and Emergency Workers	
CRIJ 2471 Firearms Proficiency	
CRIJ 2572 Introduction to Pre-Trial Release Services	
CRIJ 2578 Human Behavior Patterns	
PSYC 2302 Applied Psychology	
Total Semester Hours	
*Denotes courses which may be articulated from high school based on articulation	
Odessa College and an independent school district. Non-tech-prep students who	desire to enroll ir
program at Odessa College must complete these courses along with other leveling	
indicated by assessment results and educational background.	

**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, CRIJ 2475 and CRIJ 2476 for CRIJ 1310 and CRIJ 2471.

Students must complete 68 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. 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.

40	LAW ENFORCEMENT/CRIMINAL JUSTICE
	Certificate of Completion in Law Enforcement
	Level I certificates are TASP-waived.
	Level I - County Correctional Officer
	Semester Hrs
	tion Requirements
	04 Beginning Word Processing <u>or</u>
	21 Keyboarding and Document Preparation or OFST 1422 Business Productions 4
aior Requiren	nents 11
	1 Introduction to Criminal Justice
*CRIJ 130	7 Crime In America
*CRIJ 252	0 County Corrections 5
tal Semester	Hours
	Level I - State Prison Guard
e following ce	asic program for persons interested in a career as a correctional officer (state prison guard). rtificate contains the training curriculum segments mandated by the Texas Department of , Institutional Division (TDCJ-ID).
	Semester Hrs
	tion Requirements
*OFST 140	1 Introduction to Criminal Justice or *COSC 1301 Introduction to Computer Systems 3 24 Beginning Word Processing or *CRIJ 1307 Crime In America or
*OFST 142	21 Keyboarding and Document Preparation or OFST 1422 Business Productions
or Requiren	nents
CRIJ 137	1 State Prison Guard Theory and Technique 3
	2 State Prison Guard Procedure 3
CRIJ 137	3 State Prison Guard Skills 3
al Samaetar	Hours
	on to the correctional officer program, applicants must be approved by the TDCJ-ID which
	owing qualifications:
1. Be at le	east 18 years of age.
	gh school graduate or possess a state GED.
3. Comple	te the TDCJ application with all attachments.
	e TDCJ entrance examination.
	e pre-employment interview.
6. Pass a	background check.
	Level I - Emergency Telecommunications/Dispatcher Semester Hrs
eneral Educa	tion Requirements
*COSC 13	01 Introduction to Computer Systems
ENGL 130	1 Composition and Rhetoric or ENGL 1312 Report Writing
*OFST 14(04 Beginning Word Processing or
	21 Keyboarding and Document Preparation or OFST 1422 Business Productions
3501 131	5 Public Speaking or SPCH 1321 Business and Professional Speaking

jor Requirements	
*CRIJ 1301 Introduction to Criminal Justice	
CRIJ 1306 The Courts and Criminal Procedure	
*CRIJ 1307 Crime In America	
CRIJ 1310 Fundamentals of Criminal Law	
CRIJ 1379 Law Enforcement Telecommunications	
CRIJ 2314 Criminal Investigation	
*CRIJ 2520 County Corrections	

*Denotes courses which may be articulated from high school based on articulation agreements between Odessa College and an independent school district. Non-tech-prep students who desire to enroll in the program at Odessa College must complete these courses along with other leveling or bridge courses as indicated by assessment results and educational background.

Odessa College Basic Law Enforcement Academy Certificate (Level I)

The basic academy 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 nine courses (30 semester hours) in the law enforcement curriculum. College credit for the nine 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

Individuals may enroll only in the peace officer sequence (CRIJ 2474, CRIJ 2475 and CRIJ 2476) if they can first show proof of having successfully completed the seven transfer courses.

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

	Semester Hrs
CRIJ 1301 Introduction to Criminal Justice	
CRIJ 1306 The Courts and Criminal Procedure	
CRIJ 1322 Traffic Law	
CRIJ 2314 Criminal Investigation	
CRIJ 2323 Legal Aspects of Law Enforcement	
CRIJ 2374 Fundamentals of Interviewing	
CRIJ 2474 Texas Peace Officer Law	
CRIJ 2475 Texas Peace Officer Procedures	
CRIJ 2476 Texas Peace Officer Skills	

Certificates of Completion in Law Enforcement Advanced Skills

Level III - Texas Peace Officer

May only be awarded along with or following completion of Associate or higher-level degree.

Ć C	CRIJ 2474 Texas Peace Officer Law	
-	CRIJ 2475 Texas Peace Officer Procedures	
С	CRIJ 2476 Texas Peace Officer Skills	

^{2.} A sworn personal history statement with all required attachments.

LAW ENFORCEMENT/CRIMINAL JUSTICE

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 CRIJ 2474, CRIJ 2475, and CRIJ 2476 (TCLEOSE sequence courses) and successful completion of the seven transfer courses (CRIJ 1301, CRIJ 1306, CRIJ 1307, CRIJ 1310, CRIJ 2314, CRIJ 2323, and CRIJ 2328) or
- 2. Successful completion of the law enforcement academy.

Upon successful completion of either method, students will be eligible to apply for peace officer licensure.

Level III - Texas Peace Officer Advanced Skills

CRIJ	2183 Use of Force	
CRIJ	2184 Arrest, Search and Seizure	
CRIJ	2280 Child Abuse Recognition	
CRIJ	2281 Crime Scene Search	
CRIJ	2282 Advanced Texas Peace Officer Skills	

Law Enforcement/Criminal Justice Courses

CRIJ 1301 Introduction to Criminal Justice

CRIJ 1306 The Courts and Criminal Procedure

CRIJ 1307 Crime in America

CRIJ 1310 Fundamentals of Criminal Law 3 h Students will understand and be able to apply the principles of law as it applies to the maintenamo order in a civilized society and list the penalties associated with the various offenses. The student acquire the skills needed to determine specific offenses based upon the recognition of the classificati and elements of crime and criminal responsibility, and will be able to identify specific charge offenses embodied in crime scene scenarios. The student will chart the occurrence of crime an prevention on a time continuum, and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: CRIJ 1301. CRIJ 1318 Patrol Administration 3 h (3-0) 3 h Introduces an overview of administration of the police patrol. Students will study distribution charts graphs in order to determine what is required in an adequate patrol function from the point of vie the patrol officer, first-line supervisor, and the administration, supervisory and manager responsibilites, and learn to apply primary thinking skills to problem solving. The administration responsibilities, and learn to encept of management skills and learn to integrate new for principles into their own operational format and communicate to others the most appropriate opt in the administration of the potol function. (SCANS 1, 4, 5, 6, 8, 9, 10, 11) Prerequisite: None. CRIJ 1321 Probation and Parole 3 h (3-0) 3 h The history and evolution of the probation and parole system, and will theorize about the future of a activities. The student will be able to relate to the needs and dulies of probation and parole and a problem-solving stech	143
Students will understand and be able to apply the principles of law as it applies to the maintenand order in a civilized society and list the penalties associated with the various offenses. The student acquire the skills needed to determine specific offenses based upon the recognition of the classificati and elements of crime and criminal responsibility, and will be able to identify specific charge offenses based upon the recognition of the classificati and elements of crime and criminal responsibility, and will be able to identify specific charge offenses based upon the recognition of the classificati and elements of crime and criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: CRIJ 1301. CRIJ 1318 Patrol Administration (3-0) 3 h (3-0) 3 h Introduces an overview of administration of the police patrol. Students will study distribution charts graphs in order to determine what is required in an adequate patrol function from the point of vie the patrol officer, first-line supervisor, and the administration, supervisory and manager responsibilities, and learn to apply primary thinking skills to problem solving. The administry process is in constant change requiring each student to demonstrate how the organization meets skills of applied technology in an ever changing environment. Students will demonstrate their abilite valuate and defend their own concept of management skills and learn to integrate new for principles into their own operational format and communicate to others the most appropriate opt in the administration of the patrol former, the administry and evolution of the patrol function. (SCANS 1, 4, 5, 6, 8, 9, 10, 11) Prerequisite: None. CRIJ 1321 Probation and Parole 3 h The history and evolution of the probation and parole function will be analyzed and evaluated o	
 (3-0)	ce of it will ions, eable id its
Introduces an overview of administration of the police patrol. Students will study distribution charts graphs in order to determine what is required in an adequate patrol function from the point of vie the patrol officer, first-line supervisor, and the administration, supervisory and manager responsibilities, and learn to apply primary thinking skills to problem solving. The administration of the organization meets skills of applied technology in an ever changing environment. Students will demonstrate their abilit evaluate and defend their own concept of management skills and learn to integrate new for principles into their own operational format and communicate to others the most appropriate opt in the administration of the patrol function. (SCANS 1, 4, 5, 6, 8, 9, 10, 11) Prerequisite: None. CRIJ 1321 Probation and Parole (3-0) 3 h The history and evolution of the probation and parole function will be analyzed and evaluated on a basis, both to the individual and to society. The student will submit written reports documenting successes and failures of the probation and parole system, and will theorize about the future of a activities. The student will be able to relate to the needs and duties of probation and parole and a problem-solving techniques to overcome short-term and long-term difficulties. (SCANS 2, 7, 9, Prerequisite: None. CRIJ 1322 Traffic Law (3-0) 3 h This class presents the basic principles of traffic control, traffic law enforcement, and traffic or procedure in the context of Texas traffic laws. Students will read and interpret traffic laws as prescriby the legislature and the courts, reconcile differences between strict enforcement and discretio enforcement of state traffic laws, apply problem-solving skills to traffic direction, and kinetic energy accident scene. (SCANS 3, 6, 9, 11) Prerequisite: None. CRIJ 1371 State Prison Guard Theory and Technique (3-0) 5 h This class requires the student to relate to the concepts associated with correction officer activity to be able to perform	
 (3-0)	and ew of ment ation s the ity to ound
 (3-0)	
 (3-0)	cost g the such apply
This class presents the basic principles of traffic control, traffic law enforcement, and traffic or procedure in the context of Texas traffic laws. Students will read and interpret traffic laws as preser by the legislature and the courts, reconcile differences between strict enforcement and discretion enforcement of state traffic laws, apply problem-solving skills to traffic direction and control, anticipate future changes. The student will apply measurement to the accident scene and qualitative mathematical formulas in order to determine speed, direction, and kinetic energy a accident scene. (SCANS 3, 6, 9, 11) Prerequisite: None. CRIJ 1371 State Prison Guard Theory and Technique (3-0)	
(3-0)	ribed nary and use
This class requires the student to relate to the concepts associated with correction officer activity to be able to perform the duties required by the Texas Department of Criminal Justice. Students research and understand the theory behind time management and the correctional system. The co	
familiarizes the student with the benefits and obligations covered under the rules of general con and the standards for inmate management through listening and directing others. (SCANS 1, 2, 7, 9, 11) Corequisites: CRIJ 1372 and CRIJ 1373.	v and s will ourse oduct
CRIJ 1372 State Prison Guard Procedure	
(3-0)	vices afety, Itural on for

-

CRIJ 1373 State Prison Guard Skills

CRIJ 1379 Law Enforcement Telecommunications

CRIJ 1390 Armed Private Security/Investigator

CRIJ 2183 Use of Force

CRIJ 2184 Arrest, Search and Seizure

CRIJ 2280 Child Abuse Recognition

CRIJ 2281 Crime Scene Search

CRIJ 2282 Advanced Texas Peace Officer Skills

CRIJ 2314 Criminal Investigation

CRIJ 2322 Juvenile Procedures

CRIJ 2323 Legal Aspects of Law Enforcement

CRIJ 2325 Correctional Systems and Practice

CRIJ 2328 Police Systems and Practices

CRIJ 2330 Community Correction and Rehabilitation

This course of study involves an in-depth look at community programs for adult and juvenile offenders and treatment modalities in various correctional settings. The evaluation of legal issues and implementation of up-to-date technologies and computer-generated statistical data will be used to enhance self-management skills. Students will discuss and debate future trends associated with community-based correction in America. (SCANS 6, 7, 9, 10, 11) Prerequisite: None.

CRIJ 2331 Traffic Management and Supervision

CRIJ 2370 Physical Evidence and Investigation Techniques

CRIJ 2374 Fundamentals of Interviewing

CRIJ 2385 Spanish for Law Enforcement and Emergency Workers

CRIJ 2471 Firearms Proficiency

CRIJ 2474 Texas Peace Officer Law

LAW ENFORCEMENT/CRIMINAL JUSTICE - LEGAL ASSISTANT

147

CRIJ 2475 Texas Peace Officer Procedures

CRIJ 2476 Texas Peace Officer Skills

CRIJ 2520 County Corrections (Jail Operation & Management)

CRIJ 2572 Introduction to Pre-Trial Release Services

CRIJ 2578 Human Behavior Patterns

ý 👘

Presents the dynamics of human behavior as it affects criminal activity. Students will list, catalog and be able to explain biological factors, the mentally disordered offender, human aggression and violence, juvenile delinquency and motives behind some types of behaviors and crimes. Students will be required to participate in lab time in a criminal justice agency. Lab is designed to provide students with an opportunity to apply academic training in practical situations. (SCANS 6, 7, 9, 10, 11) Prerequisite: CRIJ 2572, CRIJ 2374 or consent of the department chair.

Legal Assistant

Faculty: Nancy Stewart, chair; Cindy Casparis.

The legal assistant curriculum was developed to qualify men and women for positions as assistants or aides to the legal profession and to upgrade the qualifications of legal support personnel. Upon completion of this curriculum, the legal assistant graduate will qualify to work under the supervision of a lawyer and may perform such duties as case screening, investigation and evaluation, detail work pertaining to probate matters, income tax returns, searching public records and court files, office management, accounting, library service, preparation of legal memoranda, servicing and filing of legal documents and preparing legal forms.

LEGAL ASSISTANT

ð

ت ن

Course of Study for Associate in Arts Degree Legal Assistant

Legal Assistant	5
•	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL any sophomore-level literature	6 🕯
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 (six hours) or Science (six to eight hours) or	
Foreign Language (six to eight hours; Spanish preferred)	
*PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech	
	E.
Major Requirements	
LEGL 1301 Introduction to Legal Writing	
LEGL 1302 Introduction to Paralegalism	
LEGL 2301 Legal Drafting and Office Procedures	
LEGL 2302 Legal Research	
	6
AND any 18 hours selected from the following pool of courses	F. C. F.
LEGL 1304 Principles of Family Law	
LEGL 1305 Introduction to Civil Litigation	3 _E
LEGL 2311 Wills, Trusts, and Probate Administration	
LEGL 2312 Torts, Insurance, and Claims Investigation	
LEGL 2316 Technique of Litigation Practice/Procedure	
LEGL 2317 Administrative Law I	
LEGL 2350 Environmental Law	
LEGL 2355 Fundamentals of Criminal Law	
LEGL 2360 CLA Review	
BUSI 2301 Business Law	
OFST 2415 Legal Transcription	4
-	
Total Semester Hours	68
	4
*PHED 1100 should be the first course taken in physical education.	4.

Course of Study for Associate in Applied Science Degree Legal Assistant

	Semester Hrs
General Education Requirements	17 🖌
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	nent 3
MATH 1314 College Algebra or MATH 1372 Technical College Algebra or	
MATH 1324 Mathematical Analysis for Business I	
*PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech or SPCH 1315 Public Speaking	
· _ · · · · · · · · · · · · · · · · · ·	

3
11
3
4
•••••

Certificate of Completion Level I certificates are TASP-waived.

Samastar Hre

Level I - Legal Assistant

tion Requirements
11 Introduction to Computer Systems
1 Composition and Rhetoric
nents
Lintroduction to Legal Writing
2 Introduction to Paralegalism
2 Legal Research
7 Cooperative Work Experience
4 Beginning Word Processing
5 Legal Transcription

A total of 26 semester hours and a minimum grade point average of 2.0 are required for a level I—legal assistant—certificate. For a level II advanced legal assistant, the 26 semester hours specified in level I certificate—legal assistant—plus the following courses are required:

Level II - Advanced Legal Assistant

Level II - Advanced Legal Assistant	Semester Hrs
General Education Requirements	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	
LEGL 1304 Principles of Family Law	
LEGL 1305 Introduction to Civil Litigation	
LEGL 2301 Legal Drafting and Office Practice	
LEGL 2311 Wills. Trusts and Probate Administration	
LEGL 2312 Torts, Insurance and Claims Investigation	
LEGL 2316 Techniques of Litigation Practice/Procedures	
LEGL 2317 Administrative Law	
Total Semester Hours	5
National Association of Logal Assistants (NALA) — Upon completion of the ass	ociato doaroo (

National Association of Legal Assistants (NALA) —Upon completion of the associate degree or certificate program, students may become eligible to take the NALA Certified Legal Assistant Examination (CLA). Full-time students and/or those taking legal assistant courses may qualify for student membership in the national organization.

Legal Assistant Courses

LEGL 1301 Introduction to Legal Writing

LEGL 1302 Introduction to Paralegalism

LEGL 1304 Principles of Family Law

LEGL 1305 Introduction to Civil Litigation

LEGL 2301 Legal Drafting and Office Procedure

LEGL 2302 Legal Research

LEGL 2311 Wills, Trusts, and Probate Administration

LEGL 2312 Torts, Insurance, and Claims Investigation

6
Ű
۲
-
6
-
6
0
1

 (3-0)	LEG	L 2316 Technique of Litigation Practice/Procedure
a hypothetical court action. The student will draft pleadings, discovery documents, pre-trial motic The student will organize litigation documents and create and maintain a system of docket control is billing. (SCANS 2, 7) Prerequisite: LEGL 1305. LEGL 2317 Administrative Law (3-0)		(3-0)
The student will organize litigation documents and create and maintain a system of docket control is billing. (SCANS 2, 7) Prerequisite: LEGL 1305. LEGL 2317 Administrative Law (3-0)		
billing. (SCANS 2, 7) Prerequisite: LEGL 1305. LEGL 2317 Administrative Law (3-0) 3 hc The student will become familiar with the creation and operations of state and federal administrative agencies. The Administrative Procedure Act and the Texas Government Code will be studied in de The following substantive law areas, as they relate to administrative law, will also be discuss environmental regulation, consumer protection, oil and gas regulation, antitrust, and income regulation. (SCANS 6, 7) Prerequisite: LEGL 1305. LEGL 2350 Environmental Law 3 hc (3-0) 3 hc An examination and review of statutory, administrative and case law concerning the protection environmental quality in the United States. Basic principles, policies and procedures as embodie federal and state regulatory programs will be scrutinized. (SCANS 1, 2, 4, 7, 10) Prerequisite: LE 1305. LEGL 2355 Fundamentals of Criminal Law (3-0) 3 hc (3-0) 3 hc student will understand and be able to apply the principles of law as it applies to the maintenanc order in a civilized society and list the penalties associated with the various offenses. The student acquire the skills needed to determine specific offenses based upon the recognition of the classif tions and elements of crime and criminal responsibility, and will be able to identify specific charges offenses embodied in crime scene scenarios. The student will chart the occurrence of crime and prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the departi		
 (3-0)		
The student will become familiar with the creation and operations of state and federal administrat agencies. The Administrative Procedure Act and the Texas Government Code will be studied in de The following substantive law areas, as they relate to administrative law, will also be discuss environmental regulation, consumer protection, oil and gas regulation, antitrust, and income regulation. (SCANS 6, 7) Prerequisite: LEGL 1305. LEGL 2350 Environmental Law (3-0)	LEG	
agencies. The Administrative Procedure Act and the Texas Government Code will be studied in de The following substantive law areas, as they relate to administrative law, will also be discuss environmental regulation, consumer protection, oil and gas regulation, antitrust, and income regulation. (SCANS 6, 7) Prerequisite: LEGL 1305. LEGL 2350 Environmental Law (3-0)		
The following substantive law areas, as they relate to administrative law, will also be discuss environmental regulation, consumer protection, oil and gas regulation, antitrust, and income regulation. (SCANS 6, 7) Prerequisite: LEGL 1305. LEGL 2350 Environmental Law (3-0)		agencies. The Administrative Procedure Act and the Texas Government Code will be studied in deta
 (3-0)		The following substantive law areas, as they relate to administrative law, will also be discusse environmental regulation, consumer protection, oil and gas regulation, antitrust, and income to regulation. (SCANS 6, 7) Prerequisite: LEGL 1305.
An examination and review of statutory, administrative and case law concerning the protection environmental quality in the United States. Basic principles, policies and procedures as embodie federal and state regulatory programs will be scrutinized. (SCANS 1, 2, 4, 7, 10) Prerequisite: LE 1305. LEGL 2355 Fundamentals of Criminal Law (3-0)	LEG	
environmental quality in the United States. Basic principles, policies and procedures as embodie federal and state regulatory programs will be scrutinized. (SCANS 1, 2, 4, 7, 10) Prerequisite: LE 1305. LEGL 2355 Fundamentals of Criminal Law (3-0)		
federal and state regulatory programs will be scrutinized. (SCANS 1, 2, 4, 7, 10) Prerequisite: LE 1305. LEGL 2355 Fundamentals of Criminal Law (3-0)		environmental quality in the United States. Basic principles, policies and procedures as embodied
 (3-0)		federal and state regulatory programs will be scrutinized. (SCANS 1, 2, 4, 7, 10) Prerequisite: LEC
Student will understand and be able to apply the principles of law as it applies to the maintenance order in a civilized society and list the penalties associated with the various offenses. The student acquire the skills needed to determine specific offenses based upon the recognition of the classif tions and elements of crime and criminal responsibility, and will be able to identify specific charges offenses embodied in crime scene scenarios. The student will chart the occurrence of crime and prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department ch LEGL 2360 CLA Review (3-0)	LEG	
order in a civilized society and list the penalties associated with the various offenses. The student acquire the skills needed to determine specific offenses based upon the recognition of the classif tions and elements of crime and criminal responsibility, and will be able to identify specific charges offenses embodied in crime scene scenarios. The student will chart the occurrence of crime and prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department chart (3-0)		
acquire the skills needed to determine specific offenses based upon the recognition of the classif tions and elements of crime and criminal responsibility, and will be able to identify specific charges offenses embodied in crime scene scenarios. The student will chart the occurrence of crime and prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department ch LEGL 2360 CLA Review (3-0)		order in a civilized society and list the penalties associated with the various offenses. The student w
offenses embodied in crime scene scenarios. The student will chart the occurrence of crime and prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department charter (3-0)		acquire the skills needed to determine specific offenses based upon the recognition of the classific
prevention on a time continuum and demonstrate the allocation of resources as a tool for understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department ch (3-0)		
understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department ch LEGL 2360 CLA Review 3 ho (3-0) 3 ho An examination and review of the sections of the Certified Legal Assistants exam administrated by National Association of Legal Assistants (NALA). The goal of the course is to prepare students to knowledge gained in previous courses to successfully pass the CLA exam and obtain their natio certification. LEGL 2377 Cooperative Work Experience 3 ho (1-20) 3 ho A capstone course designed to interrelate academic and vocational course lectures and labs or business and industry work experiences. Under supervision of college faculty and workplace sup visor, the student will achieve agreed upon workplace goals and objectives that will enhance student's competency attainment in the areas of personal, interpersonal and problem-solving sk Weekly lectures will address key workplace competencies to enhance the employability of a technic competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		
 (3-0)		understanding of criminal law. (SCANS 1, 4, 6, 7, 9, 11) Prerequisite: Consent of the department cha
An examination and review of the sections of the Certified Legal Assistants exam administrated by National Association of Legal Assistants (NALA). The goal of the course is to prepare students to knowledge gained in previous courses to successfully pass the CLA exam and obtain their natio certification. LEGL 2377 Cooperative Work Experience (1-20)	LEG	
National Association of Legal Assistants (NALA). The goal of the course is to prepare students to knowledge gained in previous courses to successfully pass the CLA exam and obtain their nation certification. LEGL 2377 Cooperative Work Experience (1-20)		
certification. LEGL 2377 Cooperative Work Experience (1-20)		National Association of Legal Assistants (NALA). The goal of the course is to prepare students to u
LEGL 2377 Cooperative Work Experience (1-20)		knowledge gained in previous courses to successfully pass the CLA exam and obtain their nation certification
(1-20)	LEG	
business and industry work experiences. Under supervision of college faculty and workplace sup visor, the student will achieve agreed upon workplace goals and objectives that will enhance student's competency attainment in the areas of personal, interpersonal and problem-solving sk Weekly lectures will address key workplace competencies to enhance the employability of a technic competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		(1-20)
visor, the student will achieve agreed upon workplace goals and objectives that will enhance student's competency attainment in the areas of personal, interpersonal and problem-solving sk Weekly lectures will address key workplace competencies to enhance the employability of a technic competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		A capstone course designed to interrelate academic and vocational course lectures and labs w
student's competency attainment in the areas of personal, interpersonal and problem-solving sk Weekly lectures will address key workplace competencies to enhance the employability of a technic competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		business and industry work experiences. Under supervision of college faculty and workplace sup
Weekly lectures will address key workplace competencies to enhance the employability of a technic competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		
competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of		
department chair.		competent graduate. (SCANS 5, 7, 9, 10, 11) Prerequisite: Sophomore standing or consent of t
		department chair.
N and the T address in the	M	achine Technology (see Metal Trades Technology)

- Machine Technology (see Metal Trades Technology)
- نن ن
- Ö
- -
- فسنق

Maintenance Technology

Faculty: James Bates, chair; Danny Bailey.

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
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech .	
echnical Core	16
ELEC 2410 National Electrical Code	
HVAC 1401 Refrigeration Theory	
MAIN 1402 Plumbing Fundamentals	۲
MAIN 2404 Structural Repair	 /
·	
ieneral Maintenance	
BLDG 1602 Carpentry I	e
BLDG 1604 Carpentry II	e
ELEC 1401 D.C. Circuits	
HVAC 1404 Heating	
MAIN 2377 Cooperative Work Experience	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
otal Semester Hours	63

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

Maintenance Technology Courses

MAIN 1402 Plumbing Fundamentals

MAIN 2377 Cooperative Work Experience

MAIN 2404 Structural Repair

- Building Courses (See Building Trades)
- Electronics Courses (See Electronics Technology)
- HVAC Courses (See Heating, Ventilation, and Air Conditioning)

Management/Tech Prep

Faculty: Robert Muñoz, chair; Connie Nichols.

The primary objective of the management program is to prepare each student for full-time employment in supervision. Students not only gain the knowledge of the science of management, but also learn the art of management through class participation, group projects and situational simulations. Students gain insight and knowledge regarding the interpersonal skills required to be successful in today's ever changing marketplace.

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.

Students can earn an associate in applied science degree in management or can opt for one of four certificates of technology including general management, marketing, small business and industrial supervision.

Course of Study for Associate in Applied Science Degree Management

	Semester Hrs
General Education Requirements	23
ACCT 1370 Introduction to College Accounting	
BCIS 1401 Introduction to Computer Information Systems or	
**COSC 1301 Introduction to Computer Systems	
ECON 2301 Principles of Economics I (Macro) or ECON 2302 Principles of Econo	mics II (Micro)3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1324 Mathematical Analysis for Business I or any other college-level mathe	matics3
*PHED (any two one-hour activity courses)	
SPCH 1321 Business & Professional Speech	
Aajor Requirements for All Management Majors	
MGMT 1301 Introduction to Management	
MGMT 1302 Managerial Functions	
MGMT 1321 Principles of Marketing	
MGMT 2300 Management Issues	
MGMT 2301 Management Skills Development	
MGMT 2302 Leadership	
MGMT 2304 Personnel and Human Relations	
MGMT 2306 Human Resource Management	3
MGMT 2365 Introduction to Business Logistics	
MGMT 2377 Cooperative Work Experience	
MGMT (Approved management electives)	12
Total Semester Hours	65
*PHED 1100 should be the first course taken in physical education.	
**Indicates courses which may be articulated by tech-prep agreement with high school.	

A certificate of technology may be earned by those who do not wish to pursue an associate degree.

Somostor Hre

54	MANAGEMENT/TECH PREP	
Cer	tificates of Technology - General Manage	ement
	Level I certificates are TASP-waived.	
	Level I - General Management Option	
		Semester Hrs
BCIS 1401 Ir	troduction to Computer Information Systems or	
**COSC 13	01 Introduction to Computer Systems	
	Composition and Rhetoric or ENGL 1312 Report Writing	
	Introduction to Management	
	Managerial Functions	
	Management Issues	
	Leadership	
MGMT 2301	Management Skills Development	3
	Personnel and Human Relations	
	Human Resource Management	
	Cooperative Work Experience	
otal Semester H	ours	30
	Level I - Marketing Option	
		Semester Hrs
BCIS 1401 Ir	troduction to Computer Information Systems or	
**COSC 1	301 Introduction to Computer Systems	
ENGL 1301 (Composition and Rhetoric or ENGL 1312 Report Writing	
MGMT 1301	ntroduction to Management	
MGMT 1321 F	Principles of Marketing	
MGMT 1323 I	Principles of Personal Selling	
MGMT 1331	Principles of Retailing	
	Introduction to Public Relations	
	Internationalization of Business	
MGM1 2305	Marketing Issues or MGMT 2322 Marketing Management	
	Warkeling issues of warren to zozz warkeling wanagement	
MGMT 2320	Cooperative Work Experience	

Level I - Small Business Option

ACCT 1370 Introduction to College Accounting or	
5 5 5 -	
BCIS 1401 Introduction to Computer Information Systems or	
**COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
MGMT 1301 Introduction to Management	
MGMT 1302 Managerial Functions	
MGMT 1321 Principles of Marketing	
MGMT 2322 Marketing Management	
MGMT 2325 Effective Advertising	
MGMT 2331 Introduction to Small Business Management	
MGMT 2332 Entrepreneurship or **MGMT 2335 Entrepreneurial Issues	
MGMT 2377 Cooperative Work Experience	
Semester Hours	

-

	MANAGEMENT/TECH PREP	155
	Level I - Certificate of Technology - Industrial Supervision	
		Semester Hrs
	BCIS 1401 Introduction to Computer Information Systems or	
	**COSC 1301 Introduction to Computer Systems	3
	ENGL 1312 Report Writing	
	MGMT 1301 Introduction to Management	
	MGMT 1302 Managerial Functions	
	MGMT 1361 Principles of Production Supervision	
	MGMT 1362 Industrial Safety	
	MGMT 1371 Introduction to Purchasing Management	
	MGMT 2301 Management Skills Development	
	MGMT 2365 Introduction to Business Logistics	
	MGMT 2377 Cooperative Work Experience	3
	, ,	
Fotal S	Semester Hours	
**Indic	cates courses which may be articulated by tech-prep agreement with high school.	
	Lough III Monogement Advensed Skills Costificat	
	Level III - Management Advanced Skills Certificat	IC .
	May only be awarded along with or following completion	
	of Associate or higher-level degree.	.
_		Semester Hrs
	ENGL 2311 Technical and Report Writing	
E	BCIS 1302 PC Operating Systems.	
N	MGMT 2190 Advanced Management Issues	1
N	MGMT 2290 Contemporary Topics for Managers	2
Total \$	Semester Hours	9
	Management Courses	
	T 1301 Introduction to Management	0. hours
	(3-0) Breacht accortials of management Indudes an introduction to the behavioral	
a w	Presents essentials of management. Includes an introduction to the behavioral application of management principles as related to the first-line supervisor. Covers hur workflow, communications, selection, training, leadership, and professional develop 4,5, 10, 11) Prerequisite: None.	man resources,
MGMT	T 1302 Managerial Functions	
((3-0) A continuation of MGMT 1301. This course emphasizes the design and structu	
	A continuation of MGM1 1301. This course emphasizes the design and structum management, in such competencies as planning, organizing, and allocating reso	
	decisions regarding such allocations; establishing and communicating systems	
C	controlling process; and ensuring the legal and ethical conduct of the organization. (SC 11) Prerequisite: None.	
	T 1321 Principles of Marketing	
((3-0)	
n	Introduces marketing. Analyzes factors that influence functions of marketing and marketing activities. Emphasizes the gathering, processing and interpretation of de	mographic and
C	other data used in consumer and business-to-business decision making. Covers the	development of
	decision support systems, research and presentation; as well as classification and reso for new product concepts. (SCANS 4, 6, 7, 9, 10, 11) Prerequisite: None.	ource allocation

MGMT 1323 Principles of Personal Selling

MGMT 1331 Principles of Retailing

MGMT 1361 Principles of Production Supervision

MGMT 1362 Industrial Safety

MGMT 1371 Introduction to Purchasing Management

MGMT 2190 Advanced Management Topics

MGMT 2290 Contemporary Topics for Managers

MGMT 2300 Management Issues

	MANAGEMENT/TECH PREP 15
MG	GMT 2301 Management Skills Development
	(3-0)
	Presents case studies and projects which will require students to interpret and create responses various areas of management study: including situational leadership, creativity and innovatio problem solving and decision making using computer simulations. (SCANS 5, 6, 8, 9) Prerequisit None.
MG	GMT 2302 Leadership (3-0)
	Explores the concept of leadership and its relationship to management. Through the use of cas studies, group interaction and simulations, students will focus on leadership skills needed to inspir and influence others in the organization. (SCANS 5, 7, 9) Prerequisite: MGMT 1301 or consent department chair.
MG	GMT 2303 Introduction to Public Relations
	(3-0)
	Introduces techniques of public relations applied to supervisory and management positions. Emphasize customer relations. Gives attention to programming a total public relations effort and selecting strateg media and persuasive devices that accomplish given objectives after having listened to and studie the various constituencies involved. (SCANS 6, 9, 11) Prerequisite: None.
MG	GMT 2304 Personnel and Human Relations
	(3-0)
	Applies field of human relations to modern business management. Emphasizes the productiv management of human resources through effective leadership, decision making and communicatin Explores responsibilities of management in dealing with subordinates one-on-one. (SCANS 5, 9, 1)
	Prerequisite: None.
MG	GMT 2305 Internationalization of Business
	(3-0)
	Introduces theory and practice in international business. Emphasizes the creation of appropriat systems for maintaining and controlling the flow of goods, people, information and funds for commerci purpose within and among international sovereignties. Stresses the decision-making process. (SCAN 4,5,6,7,9) Prerequisite: Completion of six hours of MGMT courses or consent of department chair.
MG	GMT 2306 Human Resources Management
	(3-0)
	Principles and practice in personnel relations, including topics such as recruiting, training, wage ar salary administration, manpower planning and legal issues facing supervisors. (SCANS 4, 5, 6, 7, 1) Prerequisite: MGMT 1301 or consent of department chair.
MG	GMT 2320 Marketing Issues
-	(3-0)
	Presents current issues of particular interest to those preparing for positions in today's changir marketplace. Emphasis will be on competencies associated with present marketing concern 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/issue (SCANS 5, 6, 9, 11) Prerequisite: None.
MG	GMT 2322 Marketing Management
	(3-0)
	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) Prerequisit MGMT 1321 or MGMT 1331 or consent of department chair.

MGMT 2325 Effective Advertising

MGMT 2331 Introduction to Small Business Management

MGMT 2332 Entrepreneurship

MGMT 2335 Entrepreneurial Issues

MGMT 2365 Introduction to Business Logistics

MGMT 2377 Cooperative Work Experience

Mass Communication

Faculty: Steve Goff, chair; Tom Hughes, Kris Markman.

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

Demonst Education Demoissments	Semester H
General Education Requirements COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign Language or Science (eight hours in same discipline)	
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 (college level)	
*PHED (any two one-hour activity courses)	
Philosophy, Psychology, Sociology, Anthropology or Economics courses . SPCH 1315 Public Speaking or SPCH 1321 Business and Professional S	
SPOR 1315 Fublic Speaking of SPOR 1321 Business and Floressional S	
Major Requirements	
COMM 1307 Introduction to Mass Communications	
COMM 1335 Survey of Radio and Television	
AND any 9 hours selected from the following courses	
COMM 1318 Basic Photography I	
COMM 1336 Television Production I	
COMM 1337 Television Production II	
COMM 1337 Television Production II COMM 2120 Practicum in Electronic Media	
COMM 2120 Practicum in Electronic Media	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media COMM 2220 Practicum in Electronic Media	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media COMM 2220 Practicum in Electronic Media COMM 2303 Audio and Radio Production	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media COMM 2220 Practicum in Electronic Media COMM 2303 Audio and Radio Production COMM 2311 News Gathering and Writing I	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media COMM 2220 Practicum in Electronic Media COMM 2303 Audio and Radio Production COMM 2311 News Gathering and Writing I COMM 2315 News Gathering and Writing I	
COMM 2120 Practicum in Electronic Media COMM 2121 Practicum in Electronic Media COMM 2122 Practicum in Electronic Media COMM 2220 Practicum in Electronic Media COMM 2303 Audio and Radio Production COMM 2311 News Gathering and Writing I COMM 2315 News Gathering and Writing I COMM 2324 Practicum in Electronic Media	

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

Course of Study for Associate in Arts Degree Mass Communication

General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign Language or Science (six to eight hours in same discipline)	
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 (college level)	
*PHED (any two one-hour activity courses)	
Philosophy, Psychology, Sociology, Anthropology or Economics course	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional	Speech
lajor Requirements	
COMM 1307 Introduction to Mass Communications	
ND any 12 hours selected from the following courses	
COMM 1131 Publications COMM 1132 Publications COMM 1316 News Photography COMM 1318 Basic Photography I COMM 1319 Basic Photography I COMM 1335 Survey of Radio and Television COMM 1336 Television Production I COMM 2131 Publications COMM 2132 Publications COMM 2132 Publications COMM 2313 Audio and Radio Production COMM 2311 News Gathering and Writing I COMM 2315 News Gathering and Writing I	
COMM 1132 Publications COMM 1316 News Photography COMM 1318 Basic Photography I COMM 1319 Basic Photography I COMM 1335 Survey of Radio and Television COMM 1336 Television Production I COMM 2131 Publications COMM 2132 Publications COMM 2132 Publications COMM 2303 Audio and Radio Production COMM 2311 News Gathering and Writing I	

COMM 1131, 1132, 2131, 2132 Publications (09.0401.5426)

فتشتنه

COMM 1307 Introduction to Mass Communications (09.0403.5126)

MASS	COMMUNICATION	16
COMM 1316 News Photography (09.0401.	526)	
Introduces basic aspects of photography news and feature photography. Students	for publications. Emphasizes the various uses and ou will participate in group assignment and decision maki equisite: TASP competency in reading, writing and r	itlets fo ing. La
COMM 1318 Basic Photography I (50.0605	5130)	0
Introduces basic applied and aesthetic equipment, supplies and techniques to	spects of photography. The student will assess and incorporate basic theories of film, exposure, develo CANS 4, 8, 9) Prerequisites: TASP competency in m	d sele opmen
COMM 1319 Basic Photography II (50.060		
A continuation of COMM 1318. Designe	for additional experience in the photographic mediu les: COMM 1318; TASP competency in reading, writ	ım. La
COMM 1335 Survey of Radio and Televisio	n (09.0403.5226)	
Examines the development, regulation, broadcasting and cable communicati	economics, social responsibilities and industry prac n, non-broadcast television, new technology and) Prerequisites: TASP competency in reading and wi	tices i d othe
COMM 1336 Television Production I (10.01)4.5226)	
Presents practical experience in the operation of the ope	ration of television studio and control room equipme production techniques, student involvement in direct ass productions. (SCANS 5, 6, 8, 11) Prerequisites nsent of instructor.	int, wil
COMM 1337 Television Production II (10.0		
Continuation of the television production television studio and control room equipr techniques, student involvement in direct	sequence. Presents practical experience in the oper ent with an emphasis on production. Includes pre-pro on and assignments to all crew positions for class produ competency in reading and writing or consent of the ins	ation (ductio
COMM 2120, 2121, 2122 Practicum in Elec	ronic Media (09.0701.5326)	
Provides framework for student participa as a team member for a minimum of fiv meeting designed to keep students abro required. (SCANS 5, 8, 9, 10, 11) Prereq	1 hours per week at the station and attending a week ast of happenings at the station and in the industry. I isites: COMM 1307 or COMM 1335 or consent of the in reading and writing or consent of instructor.	workin kly sta Lab fe
COMM 2220 Practicum in Electronic Media		<u>.</u> .
This radio option practicum is designed their future career goals in audio/radio. radio stations or produce specific projec TASP competency in reading and writin	o allow students to tailor their Odessa College experi Students may choose practicum experience at variou ts. Lab fee required. (SCANS 5, 8, 9, 10, 11) Prereq g or consent of instructor, successful completion or urse and approval of the faculty advisor and pros	ience us loc uisite curre

CON	IM 2303 Audio/Radio Production (10.0104.5126)
	(3-0)
	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.
CON	IM 2311 News Gathering and Writing I (09.0401.5726) (3-0)
	Introduces the basic fundamentals of news writing for all mass media. Students will be instructed in the methods and techniques used for gathering, processing and delivering news in a professional manner. (SCANS 2, 7, 9) Prerequisites: COMM 1307, basic typing skills and competency in diction and grammar required.
CON	IM 2315 News Gathering and Writing II (09.0401.5826)
	(3-0)
	highlighted with an emphasis on advanced reporting techniques. Students will write stories for broadcast during the news programs on KOCV-FM. (SCANS 7, 9) Prerequisites: COMM 2311 or consent of the instructor.
CON	IM 2324 Practicum in Electronic Media (09.0701.5326) (2-4)
	This radio option practicum is designed to allow students to tailor their Odessa College experience to their future career goals in audio/radio. Students may choose practicum experience at various local radio stations or produce specific projects. Lab fee required. (SCANS 5, 8, 9, 10, 11) Prerequisites: TASP competency in reading and writing or consent of instructor, successful completion or current enrollment in another broadcasting course and approval of the faculty advisor and prospective practicum site management.
CON	IM 2325 Practicum in Electronic Media (09.0701.5326) (2-4)
	 This television option practicum is designed to allow students to tailor their Odessa College experience to their future career goals in television/video production. Students may choose practicum experience at various local television stations or produce specific projects. Lab fee required. (SCANS 5, 8, 9, 10, 11) Prerequisites: TASP competency in reading and writing or consent of instructor; successful completion or current enrollment in another broadcasting course and approval of the faculty advisor and prospective practicum site management.
CON	IM 2326 Practicum in Electronic Media (09.0701.5326)
	(2-4)
CON	IM 2331 Announcing for Radio and Television (23.1001.6126)
	(3-0)

Mathematics

Faculty: Yancy Nuñez, chair; George Brewer, Jim Camp, Dr. James Fields, Shawna Masters, Dr. Glynna Strait, Margaret Street, Dr. Charles Sweatt.

The mathematics department 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.

Course of Study for Associate in Science Degree Mathematics

	Semester H
General Education Requirements	
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	
Lab Science	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking	
Major Requirements	
**MATH 1348 Analytic Geometry	
MATH 2313 Calculus I	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2318 Linear Algebra	
MATH 2320 Differential Equations	
Related Requirements	

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

**Students not prepared for MATH 1348 Analytic Geometry should enroll in MATH 1316 Plane Trigonometry or a lower-level math course before enrolling in MATH 1348. Preregistration testing is available for placement aid for students planning to take MATH 0371, MATH 0372, TMTH 1370, MATH 0375, MATH 1371, MATH 1372, MATH 1314 or MATH 1332.

Mathematics Courses

MATH 0171 Fundamental Math (32.0104.5137)

MATH 0172 Algebra — Graphing and Equations (32.0104.5137)

MATH 0173 Algebra — Operations and Quadratics (32.0104.5137)

MATH 0174 Geometry and Problem Solving (32.0104.5137)

MATH 0371 Basic Mathematics (32.0104.5137)

MATH 0372 Introductory Algebra (32.0104.5137)

TMTH 1370 Technical College Mathematics

A study of skills, topics and techniques necessary to solve problems applicable to occupational and technical fields. Topics covered will include: measurement, applied geometry, algebra, graphs and right angle trigonometry. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. This course is for technical certificate programs and will not count toward an associate degree. (SCANS 3. 8, 9) Prerequisite: MATH 0372 or high school algebra I or satisfactory placement score.

MATH 0375 Intermediate Algebra (32.0104.5237)

A study of real number operations, linear and quadratic inequalities, exponents and radicals, rational expressions, the straight line, linear equations and parabolas. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. This course does not satisfy requirements for any degree plan at Odessa College and may not be accepted for credit by all senior colleges. Placement testing available. (SCANS 3, 8, 9) Prerequisite: MATH 0372, satisfactory placement score or passing score on TASP.

MATH 1314 College Algebra (27.0101.5437)

Includes sets, complex numbers, quadratic and quadratic form equations, inequalities, functions, systems of equations and topics selected from logarithmic functions, matrices, determinants, binomial theorem, math induction and sequences and series. 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. Placement testing available. (SCANS 3, 8, 9, 11) Prerequisite: MATH 0375 passed with a "C" or better, high school algebra II, or an independent school district/OC concurrent enrollment form.

MATH 1316 Plane Trigonometry (27.0101.5337)

Presents trigonometric functions, formulas, solutions of right triangles and applications, variations of functions with changes in angles, trigonometric equations, identities, solutions of oblique triangles and applications, logarithmic functions, inverse functions and complex numbers. 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 1314 or equivalent competency, or an independent school district/OC concurrent enrollment form.

MATH 1324 Mathematical Analysis for Business I (27.0301.5237)

Develops quantitative methods of analysis for business problems. Includes study of set theory. symbolic logic, mathematical relationships, vectors and matrices, break-even interpretations, linear programming, probability and expected value as aids in formulating business decisions. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. (SCANS 3, 8, 9) Prerequisite: MATH 0375 passed with a "C" or better, high school algebra II, or equivalent competency.

MATH 1325 Mathematical Analysis for Business II (27.0301.5237)

Includes elementary calculus of differentiation, integration and application. Emphasizes application to business and economic problems. 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 1324.

166 MATHEMATICS
MATH 1332 Structures of College Mathematics I (27.0101.5137) (3-0)
Topics covered will include sets, logic, number systems, relations and applications, concepts mathematics and problem solving. The student will learn to select appropriate mathematical techniqu and technologies and use these skills in problem solving. Students will develop and/or discov mathematical relationships. This course is designed primarily for liberal arts and education majo (SCANS 3, 8, 9, 11) Prerequisite: MATH 0375 or high school algebra II or passing score on TASP ma section.
MATH 1333 Structures of College Mathematics II (27.0101.5137)
(3-0)
MATH 1342 Mathematical Statistics (27.0501.5137)
(3-0)
MATH 1348 Analytic Geometry (27.0101.5537) (3-0)
Presents fundamental concepts, straight line, circle, conics, simplification of equations, algebr curves, transcendental curves, polar coordinates, parametric equations and other concepts. T student will learn to select appropriate mathematical techniques and technologies and use skills information organizing, processing, planning and problem solving. The student should be able to pro for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3, 8, 9, ° Prerequisite: MATH 1316 or equivalent, or completed independent school district/OC concurre enrollment form.
MATH 1372 Technical College Algebra (27.0101.5437)
(3-0)
MATH 1442 Business Statistics (27.0501.5137) (3-3)
Provides an introduction to techniques of collection, presentation analysis and interpretation numerical data. Stresses application of correlation methods, analysis of variance, dispersion, samplii quality control, reliability, mathematical models and programming. The student will learn to sel appropriate mathematical techniques and technologies and use skills in information organizin processing, planning and problem solving. (SCANS 3, 6, 8, 9) Prerequisite: MATH 1324.

MATHEMATICS - MEDICAL LAB TECHNOLOGY	167
MATH 2313 Calculus I (27.0101.5937)	0 h
(3-0) Presents a study of rate of change of functions, limits, derivatives of algebraic and tr functions, integration and applications. The student will learn to select appropriate m techniques and technologies and use skills in information organizing, processing, p problem solving. The student should be able to probe for mathematical meaning an describe these meanings to others. (SCANS 3, 8, 9, 11) Prerequisite or corequisite: MA	rigonometric nathematical lanning and nd, perhaps,
MATH 2314 Calculus II (27.0101.5937)	
(3-0)	functions, to ns of a wider ent will learn norganizing, nathematical
MATH 2315 Calculus III (27.0101.5937)	
(3-0) Presents a study of sets, functions, vector fields, partial derivatives, and integration theo a study of line, surface and multiple integrals. The student will learn to select appropriate m techniques and technologies and use skills in information organizing, processing, p problem solving. The student should be able to probe for mathematical meaning and perha these meanings to others. (SCANS 3, 8, 9, 11) Prerequisite: MATH 2314.	ory. Includes hathematical lanning and
MATH 2318 Linear Algebra (27.0101.6137) (3-0)	
(3-0) Presents a study of vector spaces, linear transformations, matrix algebra, eigenvalues, e and applications. The student will learn to select appropriate mathematical techniques and t and use skills in information organizing, processing, planning and problem solving. The stu be able to probe for mathematical meaning and, perhaps, describe these meanings to othe 3, 8, 9, 11) Prerequisite: MATH 2314.	eigenvectors technologies udent should
MATH 2320 Differential Equations (27.0301.5137)	
(3-0) A study of equations of order one, linear differential equations, non-homogeneous differential operators, the Laplace transform, inverse transforms, applications, equations and higher degree. The student will learn to select appropriate mathematical tech technologies and use skills in information organizing, processing, planning and problem student should be able to probe for mathematical meaning and, perhaps, describe these others. (SCANS 3, 8, 9, 11) Prerequisite: MATH 2314.	s equations, of order one nniques and solving. The
Medical Lab Technology (see Clinical Laboratory Sciences)	

Metal Trades Technologies

Faculty: Galen Ballard, chair.

Two options are available to students in the metal trades technologies program.*

The Industrial Machinist Option (66 hours) 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, mathematics, communications, layout and blueprint reading so as to provide students with sufficient knowledge for entry employment in the trade.

The Industrial Welding Option (65 hours) 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.

*While a certificate of technology with an emphasis in either machine or welding 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 Metal Trades Technologies

Semester Hrs
General Education Requirements for all options
COSC 1301 Introduction to Computer Systems
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government
MATH 1314 College Algebra <u>or</u>
MATH 1332 Structures of College Mathematics I or MATH 1372 Technical College Algebra 3
*PHED (any two one-hour activity courses)
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
and one of the following two options
Industrial Machinist Option
Semester Hrs
echnical Core
DFTG 1405 Technical Drafting I (DRAF 1401) or DFTG 1409 Basic Computer Aided Drafting (DRAF 2408) 4
MCHN 1438 Basic Machine Shop I (MACH 1401) 4
OSHA 2395 Industrial Safety
PETR 1300 Petroleum Overview
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)4
Semester Hrs
lajor Requirements
MACH 2404 CNC Programming and Application 2-Axis Lathe 4
MACH 2405 CNC Programming and Application 3-Axis Mill 4
MCHN 1405 Metals and Heat Treatment (MACH 2403) 4
MCHN 1441 Basic Machine Shop II (MACH 1402) 4
MCHN 1413 Basic Milling Operations (MACH 1403) 4
MCHN 2433 Advanced Lathe Operations (MACH 2401) 4
MCHN 2437 Advanced Milling Operations (MACH 2402) 4
MCHN 2381 Cooperative Education-Machinist/Machine Technologist (MACH 2377) 3
otal Semester Hours

	169
Industrial Welding Option	
Technical Core	Semester Hr
DFTG 1405 Technical Drafting I (DRAF 1401)	
MCHN 1438 Basic Machine Shop Fundamentals (MACH 1401)	
OSHA 2395 Industrial Safety	•••••••••••••••••••••••••••••••••••••••
PETR 1300 Petroleum Overview	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
Major Requirements	Semester Hrs
WLDG 1413 Introduction to Blueprint Reading for Welders (WELD 1403)	
WLDG 1430 Introduction to Gas Metal Arc (MIG) Welding (WELD 2402)	
WLDG 1434 Introduction to Gas Tungsten Arc (TIG) Welding (WELD 2404)	
WLDG 1435 Introduction to Pipe Welding (WELD 1402)	
WLDG 1437 Introduction to Metallurgy (WELD 2403)	4
WLDG 2381 Cooperative Education—Welder/Welding Technologist (WELD 23	77) 3
WLDG 2406 Intermediate Pipe Welding (WELD 2401)	
Elective (must be outside major area)	
Total Semester Hours	
*PHED 1100 should be the first course taken in physical education.	
Certificates of Technology in Metal Trades Tech	nologies
Certificates of technologies are available in the following job-specific fields. S chair for course requirements and Permian Basin job opportur Level I certificates are TASP-waived.	
Level I - Computerized Numerical Control Programmer	Option
· · · ·	Semester Hrs
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra	afting (DRAF 2408)4
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr. MCHN 1438 Basic Machine Shop I (MACH 1401)	afting (DRAF 2408)
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr. MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe	afting (DRAF 2408)
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr. MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill	afting (DRAF 2408)
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or	afting (DRAF 2408)
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical	afting (DRAF 2408) a
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours	afting (DRAF 2408) a
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical	afting (DRAF 2408) a
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours	afting (DRAF 2408) 4 College Algebra 3 Semester Hrs
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	afting (DRAF 2408) College Algebra 2 Semester Hrs
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr	afting (DRAF 2408) College Algebra 2 Semester Hrs
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Icevel I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or	afting (DRAF 2408) College Algebra 2 Semester Hrs afting (DRAF 2408)
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical	afting (DRAF 2408) College Algebra 2 Semester Hrs afting (DRAF 2408) College Algebra
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical MCHN 1413 Basic Milling Operations (MACH 1403)	afting (DRAF 2408) 4 College Algebra 2 Semester Hrs afting (DRAF 2408) 4 College Algebra 5
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1323 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or MATH 1322 Structures of College Mathematics I or MATH 1372 Technical MCHN 1413 Basic Milling Operations (MACH 1403) MCHN 1441 Basic Machine Shop II (MACH 1402)	afting (DRAF 2408) 4 College Algebra
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Total Semester Hours Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical MCHN 1413 Basic Milling Operations (MACH 1403)	afting (DRAF 2408) College Algebra Semester Hrs afting (DRAF 2408) College Algebra
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dra MCHN 1438 Basic Machine Shop I (MACH 1401) MACH 2404 CNC Programming and Application 2-Axis Lathe MACH 2405 CNC Programming and Application 3-Axis Mill MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Level I - Milling Machine Operator Option ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Dr MATH 1314 College Algebra or MATH 1322 Structures of College Mathematics I or MATH 1372 Technical MCHN 1413 Basic Milling Operations (MACH 1403) MCHN 1441 Basic Machine Shop II (MACH 1402) MCHN 2433 Advanced Lathe Operations (MACH 2401)	afting (DRAF 2408) College Algebra Semester Hrs afting (DRAF 2408) College Algebra

فسنعنى

DFTG 1405 Technical I MATH 1314 College MATH 1332 Struc MCHN 1438 Basic M MCHN 1441 Basic M MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc MATH 1314 College MATH 1314 College MATH 1314 College MATH 1312 Struc WLDG 1435 Introduc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	Drafting (DRAF 1401) <u>or</u> DFTG 1409 Ba Algebra <u>or</u> tures of College Mathematics I <u>or</u> M achine Shop II (MACH 1401)	Semester Hrs port Writing
MATH 1314 College MATH 1332 Struct MCHN 1438 Basic M MCHN 1438 Basic M MCHN 1441 Basic M MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struct WLDG 1421 Introduct WLDG 1435 Introduct WLDG 1413 Introduct WLDG 1413 Introduct WLDG 1425 Introduct WLDG 1435 Introduct WLDG 1434 Introduct WLDG 1434 Introduct WLDG 1435 Introduct WLDG 1435 Introduct WLDG 1434 Introduct WLD	Algebra <u>or</u> tures of College Mathematics I <u>or</u> M achine Shop I (MACH 1401) achine Shop II (MACH 1402) achine Shop II (MACH 1402) achine Shop II (MACH 1402) <u>construction</u> d Lathe Operations (MACH 2401). <u>Level I - General Welder</u> tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Pipe Welding (WELD 1402). <u>Level I - Fitter Welder</u> tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) <u>Level I - Fitter Welder</u> tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402).	ATH 1372 Technical College Algebra 3 22 23 24 24 25 26 26 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27 27 27 27
MATH 1332 Struc MCHN 1438 Basic M MCHN 1438 Basic M MCHN 1441 Basic M MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1413 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1332 Struc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1421 Introduc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1434 Introduc WLDG 1434 Introduc	tures of College Mathematics I or M achine Shop I (MACH 1401) achine Shop II (MACH 1402) ad Lathe Operations (MACH 2401) Level I - General Welde tion and Rhetoric or ENGL 1312 Re I Drafting (DRAF 1401) Algebra or tures of College Mathematics I or M tion to Welding Fundamentals (WEI tion to Pipe Welding (WELD 1402). Level I - Fitter Welder tion and Rhetoric or ENGL 1312 Re I Drafting (DRAF 1401) Algebra or tures of College Mathematics I or M tion to Pipe Welding (WELD 1402).	ATH 1372 Technical College Algebra 444444444444444444444444444444444444
MCHN 1438 Basic M MCHN 1441 Basic M MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1332 Struc WLDG 1413 Introduc WLDG 1435 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1332 Struc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1421 Introduc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	achine Shop I (MACH 1401) achine Shop II (MACH 1402) ad Lathe Operations (MACH 2401) <u>Level I - General Welde</u> tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WEI tion to Pipe Welding (WELD 1402) . <u>Level I - Fitter Welder</u> tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	4 22 r Option port Writing 2 ATH 1372 Technical College Algebra 2 D 1401) 2 18 Option port Writing 2 ATH 1372 Technical College Algebra 3 (WELD 1403) 2 2 2 2 2 3 3 4 4 4 4 4 4 4 </td
MCHN 1441 Basic M MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Achine Shop II (MACH 1402) ad Lathe Operations (MACH 2401) Level I - General Welde tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WEI tion to Pipe Welding (WELD 1402). Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402).	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
MCHN 2433 Advance otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1312 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1312 College MATH 1332 Struc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1424 Introduc WLDG 1434 Introduc WLDG 1434 Introduc	tion and Rhetoric <u>or</u> ENGL 1312 Re d Drafting (DRAF 1401)	4 22 22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1332 Struc WLDG 1435 Introduc WLDG 1421 Introduc WLDG 1425 Introduc MATH 1332 Struc MATH 1332 Struc WLDG 1435 Introduc	Level I - General Welde tion and Rhetoric <u>or</u> ENGL 1312 Re d Drafting (DRAF 1401)	22 r Option Semester Hrs port Writing ATH 1372 Technical College Algebra D 1401) 18 Option Semester Hrs port Writing Semester Hrs s (WELD 1403) LD 1401) 22
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1435 Introduc DFTG 1405 Technica MATH 1332 Struc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	Level I - General Welde tion and Rhetoric <u>or</u> ENGL 1312 Re il Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402). Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re il Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402).	r Option port Writing
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1435 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	tion and Rhetoric <u>or</u> ENGL 1312 Re al Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re al Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Semester Hrs port Writing
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1435 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	tion and Rhetoric <u>or</u> ENGL 1312 Re al Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re al Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Semester Hrs port Writing
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1435 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder Level I - Fitter Welder Understand Content of the second tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	ATH 1372 Technical College Algebra
MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1435 Introduc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder Level I - Fitter Welder Understand Content of the term tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Pipe Welding (WELD 1402) .	ATH 1372 Technical College Algebra 3 LD 1401)
MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	tures of College Mathematics I or M tion to Welding Fundamentals (WEl tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder tion and Rhetoric or ENGL 1312 Re I Drafting (DRAF 1401) Algebra or tures of College Mathematics I or M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	LD 1401)
WLDG 1421 Introduc WLDG 1435 Introduc Datal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Dtal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1332 Struc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1435 Introduc	tion to Welding Fundamentals (WEl tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	LD 1401)
WLDG 1435 Introduction otal Semester Hours ENGL 1301 Compose DFTG 1405 Technica MATH 1314 College MATH 1332 Struction WLDG 1413 Introduction WLDG 1421 Introduction WLDG 1435 Introduction DFTG 1405 Technica MATH 1314 College MATH 1332 Struction WLDG 1421 Introduction WLDG 1425 Introduction WLDG 1435 Introduction WLDG 1435 Introduction WLDG 1435 Introduction WLDG 1434	tion to Pipe Welding (WELD 1402) . Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1425 Introduc WLDG 1435 Introduc Dtal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1425 Introduc WLDG 1425 Introduc WLDG 1434 Introduc	Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re d Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Option Semester Hrs port Writing 4 ATH 1372 Technical College Algebra 3 s (WELD 1403) 4 LD 1401) 4
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1413 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re d Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Option Semester Hrs port Writing 3 ATH 1372 Technical College Algebra 3 s (WELD 1403) 4 LD 1401) 4
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1312 Struc WLDG 1413 Introduc WLDG 1413 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1425 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Level I - Fitter Welder tion and Rhetoric <u>or</u> ENGL 1312 Re d Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Option Semester Hrs port Writing
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	tion and Rhetoric <u>or</u> ENGL 1312 Re Il Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	Semester Hrs port Writing 3 ATH 1372 Technical College Algebra 3 s (WELD 1403) 4 LD 1401) 4 22
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	port Writing
DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	I Drafting (DRAF 1401) Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	4 ATH 1372 Technical College Algebra 3 s (WELD 1403) 4 LD 1401)
MATH 1314 College MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technic: MATH 1314 College MATH 1312 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Algebra <u>or</u> tures of College Mathematics I <u>or</u> M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402).	ATH 1372 Technical College Algebra 3 s (WELD 1403) 4 LD 1401) 4
MATH 1332 Struc WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Otal Semester Hours ENGL 1301 Compos DFTG 1405 Technic: MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	tures of College Mathematics I or M tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402).	s (WELD 1403)
WLDG 1413 Introduc WLDG 1421 Introduc WLDG 1435 Introduc Dtal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	tion to Blueprint Reading for Welder tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	s (WELD 1403)
WLDG 1421 Introduc WLDG 1435 Introduc Dtal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	tion to Welding Fundamentals (WE tion to Pipe Welding (WELD 1402) .	LD 1401) 4
WLDG 1435 Introduct otal Semester Hours ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1425 Introduct WLDG 1435 Introduct WLDG 1434 Introduct	tion to Pipe Welding (WELD 1402) .	
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc		
ENGL 1301 Compos DFTG 1405 Technica MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc		
DFTG 1405 Technic MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Level 1 - Certified Weide	
DFTG 1405 Technic MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc		Semester Hrs
MATH 1314 College MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	tion and Rhetoric or ENGL 1312 Re	port Writing
MATH 1332 Struc WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	I Drafting (DRAF 1401)	
WLDG 1421 Introduc WLDG 1435 Introduc WLDG 1434 Introduc	Algebra <u>or</u>	
WLDG 1435 Introduc WLDG 1434 Introduc	tures of College Mathematics I or M	ATH 1372 Technical College Algebra 3
WLDG 1434 Introduc		LD 1401) 4
WLDG 1434 Introduc WLDG 2406 Interme		
WLDG 2406 Interme	tion to Gas Tungsten Arc (TIG) Wel	ding (WELD 2404) 4
	diate Pipe Welding (WELD 2401)	
otal Semester Hours		
	Level I - Pipe Welding Fore	<u>man Option</u>
		Semester Hrs
		port Writing
		4
MATH 1314 College	Algebra <u>or</u>	
MATH 1332 Struc	tures of College Mathematics I or M	ATH 1372 Technical College Algebra 3
WLDG 1413 Introduc	tion to Blueprint Reading for Welder	s (WELD 1403) 4
WLDG 1421 Introduc	tion to weiging Fundamentals (WE	LD 1401)
WLDG 1430 Introduc	tion to Gas Metal Arc (MIG) Welding	(WELD 2402) 4
WEDG 1435 INTODUC	tion to Fipe weiging (WELD 1402).	ding (WELD 2404)4
WIDG 2406 Interme	tion to Gas Fungsten Arc (11G) Wel diate Pine Welding (WELD 2401)	aing (WELD 2404) 4
	and a the sterning (streed 5401)	

Level II - Machinist Option

		Semester Hrs
	COSC 1301 Introduction to Computer Systems	
	ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
	DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Drafting	
	MACH 2404 CNC Programming and Application 2-Axis Lathe	
	MACH 2405 CNC Programming and Application 3-Axis Mill	4
	MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
	MCHN 1405 Metals and Heat Treatment (MACH 2403)	4
	MCHN 1438 Basic Machine Shop I (MACH 1401)	4
	MCHN 2433 Advanced Lathe Operations (MACH 2401)	
	MCHN 1441 Basic Machine Shop II (MACH 1402)	4
	MCHN 2381 Cooperative Education-Machinist/Machine Technologist (MACH 2377)	
	WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
_		
— Т(otal Semester Hours	

أستعن

Level II - Machine Shop Foreman Option

	mester Hrs
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
DFTG 1405 Technical Drafting (DRAF 1401) or DFTG 1409 Basic Computer Aided Drafting (DF	RAF 2408) 4
MACH 2404 CNC Programming and Application 2-Axis Lathe	
MACH 2405 CNC Programming and Application 3-Axis Mill	4
MATH 1314 College Algebra or MATH 1372 Technical College Algebra	
MCHN 1405 Metals and Heat Treatment (MACH 2403)	4
MCHN 1413 Basic Milling Operations (MACH 1403)	4
MCHN 1438 Basic Machine Shop I (MACH 1401)	
MCHN 1441 Basic Machine Shop II (MACH 1402)	4
MCHN 2381 Cooperative Education-Machinist/Machine Technologist (MACH 2377)	
MCHN 2433 Advanced Lathe Operations (MACH 2401)	4
OSHA 2395 Industrial Safety	3
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
Total Semester Hours	

Level II - Welding Machine Operator Option

	Semester Hrs
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
DFTG 1405 Technical Drafting (DRAF 1401)	
MATH 1314 College Algebra or	
MATH 1332 Structures of College Mathematics I or MATH 1372 Technical Colle	ge Algebra 3
OSHA 2395 Industrial Safety	
WLDG 1413 Introduction to Blueprint Reading for Welders (WELD 1403)	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
WLDG 1430 Introduction to Gas Metal Arc (MIG) Welding (WELD 2402)	
WLDG 1434 Introduction to Gas Tungsten Arc (TIG) Welding (WELD 2404)	
WLDG 1435 Introduction to Pipe Welding (WELD 1402)	
WLDG 1437 Introduction to Metallurgy (WELD 2403)	
WLDG 2406 Intermediate Pipe Welding (WELD 2401)	4
otal Semester Hours	44

Machine Technology Courses

MACH 2404 CNC Programming and Application 2-Axis Lathe

MACH 2405 CNC Programming and Application 3-Axis Mill

MCHN 1405 Metals and Heat Treatment [formerly MACH 2403] (48.0501)

MCHN 1413 Basic Milling Operations [formerly MACH 1403] (48.0501)

MCHN 1438 Basic Machine Shop I [formerly MACH 1401] (48.0501)

MCHN 1441 Basic Machine Shop II [formerly MACH 1402] (48.0501)

cooperative agreement between the college, employer and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concept and skills involving the tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. Under supervision of college faculty and a workplace supervisor, the student will achieve agreed-upon workplace goals and objectives. 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 department chair.

MCHN 2433 Advanced Lathe Operations [formerly MACH 2401] (48.0501)

MCHN 2437 Advanced Milling Operations [formerly MACH 2402] (48.0501)

Welding Technology Courses

WLDG 1413 Introduction to Blueprint Reading for Welders [formerly WELD 1403] (48.0508)

WLDG 1421 Introduction to Welding Fundamentals [formerly WELD 1401] (48.0508)

WLDG 1430 Introduction to Gas Metal Arc (MIG) Welding [formerly WELD 2402] (48.0508)

WLDG 1434 Introduction to Gas Tungsten Arc (TIG) Welding [formerly WELD 2404] (48.0508)

WLDG 1435 Introduction to Pipe Welding [formerly WELD 1402] (48.0508)

WLDG 1437 Introduction to Metallurgy [formerly WELD 2403] (48.0508)

WLDG 2381 Cooperative Education-Welder/Welding Technologist [formerly WELD 2377] (48.0508)

Career-related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer and the student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts and skills involving the tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental and legal systems associated with the particular occupation and the business/industry; demonstrated ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. 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 department chair.

WLDG 2406 Intermediate Pipe Welding [formerly WELD 2401] (48.0508)

Music

Faculty: Dr. Kathryn Hoppe, chair; Lonnie Clark, Randy Talley, Dr. Charlotte Whitaker.

The Odessa College music department, offering an associate in 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.

MUSIC

Course of Study for Associate in Arts Degree Music

	Semester Hrs
Gen	neral Education Requirements
-	COSC 1301 Introduction to Computer Systems 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 3
	**Foreign Language, Math, or Science 6
	HIST 1301 U.S. History to 1877 3
	HIST 1302 U.S. History from 1877 3
	*PHED (any two one-hour activity courses) 2
	SPCH 1315 Public Speaking 3
	as Description and a
мај	or Requirements
	Freshman Principal Instrument or Voice
	MUSI 1311 and MUSI 1312 Freshman Music Theory
	MUSI 2311 and MUSI 2312 Advanced Study of Harmony
	Music Ensemble
	Sophomore Principal Instrument or Voice
	•
Tota	al Semester Hours
•••	
	IED 1100 should be the first course taken in physical education.
51	ix to eight semester hours in same discipline.
	Nucia Encomble Courses
	Music Ensemble Courses
MU	SI 1121, 1122, 2121, 2122 Concert Band (50.0903.5530)
	(0-3) 1 hour each
	Performance oriented course for students with at least high school playing experience. Participation
	in all performances expected. Students will enhance their music reading and listening skills and will develop

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: None.

MUSI 1131, 1132, 2131, 2132 Jazz Ensemble (50.0903.5530)

MUSI 1133, 1134, 2133, 2134 Orchestra (50.0903.5530)

MUSI 1137, 1138, 2137, 2138 Piano Ensemble and Accompanying (50.0903.5630)

ک

MUSI 1241, 1242, 2241, 2242 A Cappella Choir (50.0903.5730)

MUSI 1151, 1152, 2151, 2152 Vocal Ensemble (50.0903.5830)

Music Classes

MUSI 1301 Music Fundamentals (50.0904.5530)

MUSI 1306 Music Appreciation (50.0902.5130)

MUSI 1308, 1309 Introduction to Music Literature (50.0902.5230)

MUSI 1311, 1312 Freshman Music Theory (50.0904.5130)

MUSI 2311, 2312 Advanced Study of Harmony (50.0904.5230)

178 MUSIC	
MUSI 1371, 1372 Piano Literature (50.0902.5230)	
(3-0)	
Surveys and studies solo literature for piano. Emphasizes indivi MUSI 1371 presents origins of keyboard and solo piano literatu presents solo piano literature of the 19th and 20th centuries. Inform are enhanced through the use of cassette tapes, videotapes, CD	re of the 18th century. MUSI 1372 nation is acquired and listening skills
(SCANS 6, 11) Prerequisite: Consent of the instructor.	
MUSI 1160 Italian Diction (50.0908.5330)	
(2-0) Emphasizes Italian language and diction. Designed to promote ab Italian language through listening and speaking exercises. Vocab used in song and opera. (SCANS 11) Prerequisite: None.	ility to sing and phonetically spell the
MUSI 2160 German Diction (50.0908.5330)	4 have
(2-0) Emphasizes German language and diction. Designed to promote	ability to sing and phonetically spel
the German language through listening and speaking exercise commonly used in song and opera. (SCANS 11) Prerequisite: M	es. Vocabulary derived from words
MUSI 2161 French Diction (50.0908.5330)	
(2-0) Emphasizes French language and diction. Designed to promote	
the French language through listening and speaking exercise commonly used in song and opera. (SCANS 11) Prerequisite: M	s. Vocabulary derived from words
MUSI 1170, 1171 General Foundations in Music (50.0904.5430) (0-1/2)	
(0-1/2) Offered on an elective basis to meet special needs of studer Emphasizes the necessary skills for listening, creating rhythmic res This course may involve an individual study project. Lab fee require	its to develop their musical ability sponses, and reading music notation
MUSI 1172, 1173 Instrumental Foundations in Music (50.0904.543	0)
(0-1/2) Offered on an elective basis to meet special needs of students to dev the necessary skills for satisfactory performance in playing an ins responses, and reading music notation. Lab fee required. (SCAI	elop their musical ability. Emphasizes trument, listening, creating rhythmic
MUSI 1174, 1175 Keyboard Foundations in Music (50.0904.5430)	
(0-1/2) Offered on an elective basis to meet special needs of studer	
Emphasizes the necessary skills for satisfactory performance listening, creating rhythmic responses, and reading music notation Prerequisite: None.	in playing a keyboard instrument
MUSI 1176, 1177 Vocal Foundations in Music (50.0904.5430)	
(0-1/2) Offered on an elective basis to meet special needs of studer Emphasizes the necessary skills for satisfactory vocal perfor responses, and reading music notation. Lab fee required. (SCAI	ts to develop their musical ability mance, listening, creating rhythmic
MUSI 1181, 1182, 2181, 2182 Class Piano (50.0907.5130)	
(1-2)	
Courses for music majors designed to develop basic skills relate class and individual participation. Begins with fundamental elemer	to playing the plano through both hts of music, including music reading
basic concepts of elementary music theory (melody, rhythm, har tion, ensemble playing and improvisation. Class taught in stat	mony), chord structure, harmoniza-

 \dot{a}

. 1

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 one-half hour lesson on a secondary instrument. Non-music majors may have a one-half hour or one-hour lesson. Five hours of practice per week is required for a one-half hour lesson, and 10 hours for a one-hour lesson. (SCANS 1, 11) Private instruction fee required. Prerequisite: None.

Non-Music Major Courses

MUAP 1189, 1190, 2189, 2190 Applied Music (50.0903.5430) (0-1/2)	1 hour each
MUAP 1289, 1290, 2289, 2290 Applied Music (50.0903.5430) (0-1)	2 hours each

Music Major Courses

MUAP 1201, 1202 Freshman Violin (50.0903.5430) (0-1)	2 hours each
MUAP 2201, 2202 Sophomore Violin (50.0903.5430) (0-1)	2 hours each
MUAP 1205, 1206 Freshman Viola (50.0903.5430) (0-1)	2 hours each
MUAP 2205, 2206 Sophomore Viola (50.0903.5430) (0-1)	2 hours each
MUAP 1209, 1210 Freshman Cello (50.0903.5430) (0-1)	2 hours each
MUAP 2209, 2210 Sophomore Cello (50.0903.5430) (0-1)	2 hours each
MUAP 1213, 1214 Freshman Double Bass (50.0903.5430) (0-1)	2 hours each
MUAP 2213, 2214 Sophomore Double Bass (50.0903.5430) (0-1)	2 hours each
MUAP 1217, 1218 Freshman Flute (50.0903.5430) (0-1)	2 hours each
MUAP 2217, 2218 Sophomore Flute (50.0903.5430) (0-1)	2 hours each
MUAP 1221, 1222 Freshman Oboe (50.0903.5430) (0-1)	2 hours each
MUAP 2221, 2222 Sophomore Oboe (50.0903.5430) (0-1)	2 hours each
MUAP 1225, 1226 Freshman Bassoon (50.0903.5430) (0-1)	2 hours each
MUAP 2225, 2226 Sophomore Bassoon (50.0903.5430) (0-1)	2 hours each
MUAP 1229, 1230 Freshman Clarinet (50.0903.5430) (0-1)	
MUAP 2229, 2230 Sophomore Clarinet (50.0903.5430) (0-1)	
· · ·	

30	MUSIC	
UAP 1233, 1234 Fresh (0-1)	nman Saxophone (50.0903.5430)	2 hours each
IAP 2233. 2234. Sopt	homore Saxophone (50.0903.5430)	
AP 1237. 1238 Fresh	nman Cornet or Trumpet (50.0903.5430)	
AP 2237, 2238 Soph	omore Cornet or Trumpet (50.0903.5430)	
AP 1241. 1242 Fresh	hman French Horn (50.0903.5430)	
IAP 2241, 2242 Soph	omore French Horn (50.0903.5430)	
-	hman Trombone or Baritone (50.0903.5430)	2 hours each
(0-1)	· · · · · · · · · · · · · · · · · · ·	2 hours each
(0-1)	nomore Trombone or Baritone (50.0903.5430)	2 hours each
JAP 1253, 1254 Fresh (0-1)	hman Tuba (50.0903.5430)	2 hours each
JAP 2253, 2254 Soph (0-1)	nomore Tuba (50.0903.5430)	2 hours each
JAP 1257, 1258 Fresh (0-1)	hman Percussion (50.0903.5430)	2 hours each
UAP 2257, 2258 Soph (0-1)	nomore Percussion (50.0903.5430)	2 hours each
JAP 1261, 1262 Frest	hman Classical Guitar (50.0903.5430)	2 hours each
JAP 2261, 2262 Soph	nomore Classical Guitar (50.0903.5430)	
JAP 1265, 1266 Fresh	h man Organ (50.0903.5430)	
JAP 2265, 2266 Soph	omore Organ (50.0903.5430)	
JAP 1269. 1270 Fresh	hman Piano (50.0903.5430)	
JAP 2269, 2270, Sont	homore Piano (50.0903.5430)	
JAP 1281. 1282 Fresh	hman Voice (50.0903.5430)	
UAP 2281, 2282 Soph	nomore Voice (50.0903.5430)	
(0-1)	5, 2166 Secondary Organ (50.0903.5430)	2 hours each
(0-1/2)		1 hour each
(0-1/2)	0, 2170 Secondary Piano (50.0903.5430)	1 hour each
(0-1/2)	, 2182 Secondary Voice (50.0903.5430)	1 hour each
IAP 1187, 1188, 2187 (0-1/2)	7, 2188 Secondary Instrument (50.0903.5430)	1 hour each

Nursing RN/LVN/Tech-Prep

 Faculty, Odessa: Dr. Carol Boswell, chair; Clarice Rowland, assistant director and coordinator of RN-Evening Direct Option Program; Marylin Boomer, Laura Cralle, Wanda Davis, Dee Ann Decker, Patty Jordan, Eva Mauldin, Gail Meagher, Jan Phillips, Pat Ritchey, Robbie Rogers, Lori Wingate.

- Faculty, Andrews: Patricia Bayless, chair; Melissa Ray.
- Faculty, Monahans: Stacy Wallis, chair; Linda Trimmier.

The curriculum of the Odessa College nursing programs prepares the student for a variety of experiences in health care, including hospitals, home health care services, mental health agencies and occupational care in industry. Nursing is a caring-oriented human experience requiring a well-educated nurse. Odessa College nursing programs are designed to allow students maximum flexibility to obtain this education. Options available to complete this goal are listed.

Career Ladder Option - Vocational/Associate Degree Level:

The Career Ladder Option on the Odessa Campus is designed to allow students the option of progressing through the two levels of nursing. Successful completion of the vocational level qualifies the student as an eligible candidate to take the National Council for Licensure Examination (NCLEX) - Practical Nurse (PN). The student will receive a certificate of completion. Successful completion of the associate-degree level qualifies the student as an eligible candidate to take the NCLEX - registered nurse (RN). The student will receive an associate in applied science degree. This option is also available through a six-year curriculum starting as a freshman in high school and continuing through the sophomore year at Odessa College. The vocational option requires two additional courses not included in the associate in applied science degree plan.

RN Direct Option-Evening - Associate Degree Level:

The RN Direct Option is designed for students to attend nursing classes and clinicals during evening hours, with the exception of the psychiatric clinicals, which will be offered during daytime hours. Classes are admitted in the fall of even numbered years. Successful completion qualifies the student as a candidate for application to take the National Council for Licensure Examination for the RN. The vocational option is available during the day to the Evening Option student.

Transition/Validation Option for the LVN - Associate Degree Level:

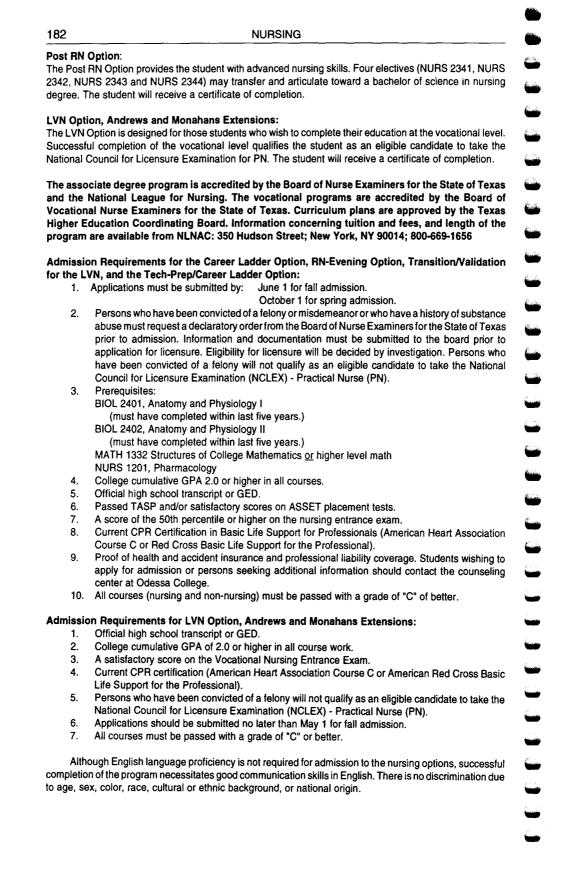
The Transition/Validation Option is designed for persons who are already licensed vocational nurses. The validation course is the initial course which serves to validate and enhance nursing skills. This brings the LVN to the level of the generic nursing student entering the second year of the RN Associate Degree Nursing Program. Upon successful completion of this course, the LVN will receive 17 hours of advanced credit. Successful completion of the second year qualifies the student as a candidate for application to take the National Council for Licensure Examination for the RN.

RN Tech-Prep Career Ladder Option:

The Tech-Prep Career Ladder option provides a six-year curriculum for nursing students, starting with the freshman year in high school and continuing through the sophomore year at Odessa College. It 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. The vocational option requires two additional courses not included in the associate in applied science degree plan.

Nurse Tech I Option:

The Nurse Tech I Option is designed for students who complete NURS 1503 and NURS 1504 with a grade of "C" or higher to receive a certificate of completion and to be eligible for application to the registry for the state of Texas as a nurse aide.



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, geriatric nursing experiences and special selected services. All courses in the curriculum are required. A general education course may be required prior to some nursing courses.

Students must complete the outcome competencies for each level with a minimum of "C" in nursing courses and general education courses before progressing to the next semester. A grade of "D" or "F" is unacceptable. Students must maintain a cumulative GPA of 2.0 or above in all course work each semester.

Nursing students are required to maintain coverage in health and accident insurance. Professional liability insurance is mandatory.

Nursing students are responsible for their own transportation to clinical facilities. The nursing department 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.

RN - Career Ladder Option - Vocational/Associate Degree Level

The Career Ladder Nursing Option is designed to allow adult students who did not enter the high school program 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.

Certificate of Completion

	Semester Hr
Prerequisite/Bridge Courses	
BIOL 2401 Anatomy and Physiology I	
BIOL 2402 Anatomy and Physiology II	
MATH 1332 Structures of College Mathematics I or higher level math	
NURS 1201 Pharmacology	
First Year	
Summer Session II	
*PHED 1100 Lifestyle Assessment and Modification	
SPCH 1315 Public Speaking	
First Semester	
PSYC 2308 Child Psychology	
NURS 1102 Adult Assessment	
NURS 1503 Fundamentals of Nursing	
NURS 1504 Fundamentals of Nursing Clinical	
Second Semester	
COSC 1301 Introduction to Computer Systems	
NURS 1306 Nursing Clinical I	
NURS 1805 Care of Adult Populations	
Summer Sessions I and II	
**NURS 1222 Nursing Clinical II	
**NURS 1821 Nursing Care I	
*Vocational level (These courses are optional.)	
Students who successfully complete the vocational level with a cumulative GPA of 2.0	0 or better in all cours
work are eligible to take the state board examination for licensure as a vocational	
certificate of completion.	

Second Year

	Semester Hrs
First Semester	(marked and the second s
BIOL 2420 Microbiology ENGL 1301 Composition and Rhetoric	4
ENGL 1301 Composition and Rhetoric	
NURS 2807 Nursing Care of Select Populations I	
Second Semester	
GOVT 2301 U.S. and Texas Government	
NURS 2808 Nursing Care of Select Populations II	
PHED one-hour activity course	
Total Hours	
Students planning to enter the associate-degree level may take an additional academ	ic course from the
curriculum for the second year.	
Students successfully completing the associate-degree level are eligible to take the state for licensure as a registered nurse.	board examination

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

RN Associate Degree Nursing Program-Evening Option

The Odessa College RN Evening Option offers adult students who did not enter the high school program a sequence of evening classes leading to an associate in applied science degree and preparation to take 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 prerequisite/bridge course requirements designated in the curriculum and be currently certified in CPR. All students are governed by policies in the Nursing Student Handbook. The vocational nursing courses are available to the Evening Option students during the day.

	Semester Hrs
Prerequisite/Bridge Courses	
BIOL 2401 Anatomy and Physiology I	
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or higher level math	
*PHED 1100 Lifestyle Assessment and Modification	1
SPCH 1315 Public Speaking	
BIOL 2402 Anatomy and Physiology II	4
COSC 1301 Introduction to Computer Systems	
PHED one-hour activity course	
PSYC 2308 Child Psychology	
BIOL 2420 Microbiology	
GOVT 2301 U.S. and Texas Government	
NURS 1201 Pharmacology	

First Year

Semester Hrs

فعا

خيراً

فنينا

First Semester	
NURS 1102 Adult Assessment	. 1
NURS 1503 Fundamentals of Nursing	. 5
NURS 1504 Fundamentals of Nursing Clinical	. 5
•	

	NURSING	
Second Semester		
NURS 1306 Nur	sing Clinical I	
	e of Adult Populations	
Nono 1000 Oak		
Summer Session I a		
**NURS 1222 N	ursing Clinical II	
**NURS 1821 N	ursing Care I	
**Vocational level (Th	ese courses are optional.)	
	Second Year	
		Semeste
First Semester		
NURS 2807 Nu	rsing Care of Select Populations I	
• • • •		
Second Semester	reiner Onere of Coloret Demutations II	
NUHS 2808 NU	rsing Care of Select Populations II	
Total Hours		
*PHED 1100 should b	e the first course taken in physical education.	
Transition/Va	lidation Option for the LVN - Asso	ociate Degree Le
Dutan in Inlandia.	- transition function accurate Viewand up antional accur	na much ha Kaanaadka mu
•	e transition/validation course, licensed vocational nurs	ses must be licensed to pr
nursing in the state of	Texas. Upon successful completion of the transition.	validation course, studer
follow the curriculum fo	or the upper level of the career ladder program. All nur	sing students must have c
follow the curriculum fo		sing students must have c
follow the curriculum fo	or the upper level of the career ladder program. All nur	sing students must have c adbook.
follow the curriculum fo CPR certification and Prerequisite Courses	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s	sing students must have c idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s	sing students must have c idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate BIOL 2402 Anate	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II oduction to Computer Systems	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math	sing students must have c idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math urmacology (or consent of instructor)	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Courses BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har s omy and Physiology 1 omy and Physiology II oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math urmacology (or consent of instructor)	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chill First Semester	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology I omy and Physiology I oduction to Computer Systems cutures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems inctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con "NURS 1601 Tra	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology I oduction to Computer Systems inctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con "NURS 1601 Tra "*PHED 1100 Lit	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology I oduction to Computer Systems cutures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con "NURS 1601 Tra "*PHED 1100 Lit	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology I oduction to Computer Systems inctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intre MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con "NURS 1601 Tra "*PHED 1100 Lii SPCH 1315 Pub	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology I oduction to Computer Systems cutures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification	sing students must have c Idbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra **PHED 1100 Lit SPCH 1315 Pub	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math tranacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 onduction to Computer Systems inctures of College Mathematics I or higher level math armacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification biology	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems uctures of College Mathematics I <u>or</u> higher level math tranacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 omy and Physiology 1 outcores of College Mathematics I <u>or</u> higher level math induction to Computer Systems includes of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year noposition and Rhetoric ansition/Validation festyle Assessment and Modification biology	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 onduction to Computer Systems inctures of College Mathematics I or higher level math armacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification biology	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tr **PHED 1100 Lii SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intri MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tr **PHED 1100 Lil SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester GOVT 2301 U.S	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems cuctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation festyle Assessment and Modification biology sing Care of Select Populations I Second Year and Texas Government	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra **PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester GOVT 2301 U.S NURS 2808 Nur	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems cuctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year noposition and Rhetoric ansition/Validation festyle Assessment and Modification lic Speaking biology sing Care of Select Populations I and Texas Government sing Care of Select Populations II	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lii SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester GOVT 2301 U.S NURS 2808 Nur PHED one-hour	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems inctures of College Mathematics I or higher level math irracology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation feestyle Assessment and Modification lic Speaking biology sing Care of Select Populations I Second Year and Texas Government sing Care of Select Populations II activity course	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Stru NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra **PHED 1100 Lif SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester GOVT 2301 U.S NURS 2808 Nur PHED one-hour *When students have	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems cuctures of College Mathematics I <u>or</u> higher level math irmacology (or consent of instructor) d Psychology First Year noposition and Rhetoric ansition/Validation festyle Assessment and Modification lic Speaking biology sing Care of Select Populations I and Texas Government sing Care of Select Populations II	sing students must have c ndbook. Semeste
follow the curriculum fo CPR certification and Prerequisite Course: BIOL 2401 Anate BIOL 2402 Anate COSC 1301 Intr MATH 1332 Str. NURS 1201 Pha PSYC 2308 Chil First Semester ENGL 1301 Con *NURS 1601 Tra *PHED 1100 Lii SPCH 1315 Pub Second Semester BIOL 2420 Micro NURS 2807 Nur First Semester GOVT 2301 U.S NURS 2808 Nur PHED one-hour *When students have curriculum.	or the upper level of the career ladder program. All nur are governed by policies in the Nursing Student Har omy and Physiology 1 oduction to Computer Systems inctures of College Mathematics I or higher level math irracology (or consent of instructor) d Psychology First Year nposition and Rhetoric ansition/Validation feestyle Assessment and Modification lic Speaking biology sing Care of Select Populations I Second Year and Texas Government sing Care of Select Populations II activity course	sing students must have c adbook. Semeste

NURSING

RN Tech Prep/Career Ladder Option

Adult students who did not follow the RN Tech Prep/Career Ladder option during high school should follow either the RN Career Ladder option found on page 183 or the RN Evening option found on page 184.

	Semester Hrs
*Prerequisite Courses	
BIOL 2401 Anatomy and Physiology I	
BIOL 2402 Anatomy and Physiology II	
COSC 1301 Introduction to Computer Systems	
MATH 1332 Structures of College Mathematics I or higher level math NURS 1201 Pharmacology	
NURS 1201 Pharmacology	Z
* Graduates of the high school tech-prep nursing program will have completed equivalent competencies prior to graduation.	the prerequisite courses or
First Year	
Summer Session II	
SPCH 1315 Public Speaking	
First Semester	
ENGL 1301 Composition and Rhetoric	
NURS 1102 Adult Assessment	
NURS 1503 Fundamentals of Nursing	
NURS 1504 Fundamentals of Nursing Clinical	
Completers of NURS 1503 and 1504 with a grade of "C" or higher are eligib completion as a Nurse Tech I and are eligible for employment at the aide leve	
Second Semester	
NURS 1306 Nursing Clinical I	
NURS 1805 Care of Adult Populations	
PSYC 2308 Child Psychology	
Summer Sessions I and II	
**NURS 1222 Nursing Clinical II	
**NURS 1821 Nursing Care I	
Completers of NURS 1821 with a grade of "C" or higher are eligible to (a) completion, (b) take the state board examination for licensure as a vocation associate-degree level without completion of NURS 1601.	
**Vocational level. (These courses are optional.)	
Second Year	
	Semester Hrs
First Semester	
BIOL 2420 Microbiology	
NURS 2807 Nursing Care of Select Populations I	
PHED 1100 Lifestyle Assessment and Modification	
Second Semester	
GOVT 2301 U.S. and Texas Government	
NURS 2808 Nursing Care of Select Populations II	
PHED one-hour activity course	

Students successfully completing the associate-degree level program are eligible to receive an associate in applied science degree in nursing and take 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.

LVN Option - Andrews and Monahans Extensions

The LVN Option is offered at the Andrews and Monahans extension sites. It is designed for those students who wish to complete their education at the vocational level. Successful completion of the vocational level qualifies the student as an eligible candidate to take the National Council for Licensure Examination for PN. The student will receive a certificate of completion from Odessa College.

	Semester Hrs
First Semester	
NURS 1611 Vocational Nursing I	
NURS 1612 Vocational Nursing II	6
Second Semester	
NURS 1613 Vocational Nursing III	
NURS 1614 Vocational Nursing IV	
Summer Session	
NURS 1615 Vocational Nursing V	

Nursing Courses

NURS 1102 Adult Assessment

NURS 1201 Pharmacology

(1-3) [16 week]	j term)
(2-5) [9 weeks] 2 hours (su	mmer)
Prepares the student to identify pharmacological classifications of medications, usage, side effect	cts and
toxic effects. Using dimensional analysis, the student performs drug dosage calculation	ns for
administration of medications and monitoring of intravenous solutions for clients. (SCANS 1, 1	2, 3, 6,
Prerequisites: BIOL 2401 and BIOL 2402, MATH 1332 (college level).	

NURS 1222 Nursing Clinical II

(0-6) [16 weeks]	2 hours (long term)
(0-8) [12 weeks]	2 hours (summer)
Utilizes NEAC competencies as a foundation for roles and func	tions of graduate vocational nursing.
Reviews ethical/legal issues. Clinical experience provides perso	onal and vocational adjustment to the
VN role. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) P	rerequisite: NURS 1805. Corequisite:
NURS 1821.	

NURS 1306 Nursing Clinical 1

NURS 1503 Fundamentals of Nursing

NURS 1504 Fundamentals of Nursing Clinical

Provides clinical experience in nursing skills in various community-focused structured health care settings. Administers medications and treatments following established protocol. Explores the role of the nurse as provider of care. This clinical experience must be taken concurrently with NURS 1503 or with consent of department chair. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: BIOL 2401, BIOL 2402, MATH 1332 and NURS 1201. Corequisite: NURS 1503.

NURS 1601 Transition/Validation

NURS 1611 Vocational Nursing I

NURS 1612 Vocational Nursing II

NURS 1613 Vocational Nursing III

NURS 1614 Vocational Nursing IV

NURS 1615 Vocational Nursing V

NURS 1805 Care of Adult Populations

NURS 1821 Nursing Care I

NURS 2341 Legal/Ethical Issues (Elective)

Identifies current legal/ethical issues in the delivery of health care. Introduces the judicial process, liability issues, individual rights and potential areas of conflict. Lab fee required. (SCANS 1, 2, 5, 6, 7, 10, 11) Prerequisite: NURS 1821, be a graduate nurse, or have consent of instructor.

NURS 2342 Physical Assessment (Elective)

Establishes knowledge and skills concerning the overall performance of a complete physical examination. Develops expertise in obtaining a thorough client history. Uses critical thinking as a basis for decision making in nursing practice. Acquires proficiency in documenting the data collected during the history taking and assessment process for clients through the lifespan. Lab fee required. (SCANS 1, 2, 4, 5, 6, 8, 9, 10, 11) Prerequisites: BIOL 2401, BIOL 2402 or be a graduate nurse.

NURS 2343 Rural/Home Health Nursing (Elective)

Identifies and makes independent clinical judgment in caring for clients and families with health care problems in the community setting. Uses critical thinking as a basis for decision making in nursing practice. Incorporates legal and ethical considerations into the provision of safe nursing care. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 9, 10, 11) Prerequisite: NURS 1821 or be a graduate nurse.

NURS 2344 Critical Care Nursing (Elective)

Establishes knowledge in advanced pathological processes. Emphasizes techniques used in hemodynamic monitoring, care of clients on ventilators, cardiac monitoring, and care of victims of trauma (including neurological aspects). Includes advanced assessment skills and psychosocial adaptation to critical care. (SCANS 1, 2, 3, 5, 6, 7, 8, 9, 10, 11) Prerequisites: NURS 2808 or consent of instructor. Open to registered nurses.

NURS 2807 Nursing Care of Select Populations

Prepares the student for learning opportunities in family-centered nursing including pregnancy, labor and delivery, care of the newborn and pediatrics. Theory related to community health, nutrition and teaching included. Clinical includes care of clients in structured hospital and community settings. Utilizes the nursing process in critical paths. Administers medications and treatments following established protocols. Utilizes computer assignments to complement theory. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisite: NURS 1805.

NURS 2808 Nursing Care of Select Populations II

Prepares the student to care for pediatric and adult clients in mental health and critical care settings. Provides theory and clinical experiences in community focused health care. Includes an emphasis on nutrition and teaching. Prepares the student for entrance into the work force by focusing on relationships with clients and health care professionals. Legal/ethical parameters, managed care, staffing and resume writing are included. Emphasizes implementation of the nursing process in critical paths. Administers medications and treatments following established protocols. Utilizes computer assignments to complement theory. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisite: NURS 2807.

Occupational Safety and Health Technology

Faculty: J.D. Roberts, chair; Lynn Reese.

فريدخة

The occupational safety and health technology degree is designed for people entering the safety and/ or environmental department within their company or for those who seek employment in this demanding field. The two-year program is designed to equip the safety/environmental professional with the tools needed to keep his/her company in compliance with current regulatory agencies and to create a safe and healthy work environment for all employees, including those working in oil and gas, nursing homes, grocery and retail stores, etc.

Course of Study for Associate in Applied Science Degree Occupational Safety and Health Technology

General Education Requirements	Semester Hou
BIOL 2306 General Ecology or GEOL 1403 Physical Geology	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Wri	iting
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra	
MGMT 2304 Personnel and Human Relations or PSYC 2302 App	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking <u>or</u>	
SPCH 1321 Business and Professional Speech	
Major Requirements	
OSHA 1300 Industry Overview	
OSHA 1305 Introduction to Safety and Health	
OSHA 1310 Instrumentation and Analysis	
OSHA 1315 Process Safety Management	
OSHA 1320 Industrial Hygiene	
OSHA 2377 Cooperative Work Experience	
OSHA 2390 Environmental Regulations	
OSHA 2393 Safety Assessment	
OSHA 2395 Industrial Safety	
OSHA 2396 Hazardous Waste and Emergency Response	
OSHA 2398 Environmental Issues: EPA	
OSHA 2398 Environmental Issues: Behavioral Safety	
Related Requirements	
EMED 1501 Basic Emergency Care	

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

Course of Study for Certificate of Technology

Level I certificates are TASP-waived.

Level I — Occupational Safety and Health Technology

	Semester Hours
General Education Requirements	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
SPCH 1315 Public Speaking or	
SPCH 1321 Business and Professional Speech	3
Major Requirements OSHA 1300 Industry Overview	
OSHA 1300 Industry Overview	
OSHA 1305 Introduction to Safety and Health	
OSHA 1310 Instrumentation and Analysis	
OSHA 2377 Cooperative Work Experience	ć
OSHA 2395 Industrial Safety	
OSHA 2396 Hazardous Waste and Emergency Response	
OSHA 2396 Hazardous Waste and Emergency Response OSHA 2398 Environmental Issues: EPA	
Related Requirements	
PETR 1380 Computers for Petroleum	
Total Semester Hours	

Occupational Safety and Health Technology Courses

OSHA 1300 Industrial Overview

OSHA 1305 Introduction to Safety and Health

OSHA 1310 Instrumentation and Analysis

OSHA 1315 Process Safety Management

OSHA 1320 Industrial Hygiene

OSHA 2377 Cooperative Work Experience

OSHA 2390 Environmental Regulations

OSHA 2393 Safety Assessment

OSHA 2395 Industrial Safety

OSHA 2396 Hazardous Waste and Emergency Response

OSHA 2398 Environmental Issues

Office Systems Technology

Faculty: Nancy Stewart, chair; Tambi Arnold, Billie Duncan.

The office systems technology program is designed to provide students with an intensive training in upto-date technological skills for immediate employment in the business or medical office. The program also offers students the opportunity to upgrade their skills in the most recent software in order to obtain better employment.

The office systems technology associate in applied science degree is offered with an emphasis in office systems technology or medical. This degree provides students with a broad knowledge of office procedures and applications in the computer and other automated equipment.

Course of Study for Associate in Applied Science Degree Office Systems Technology

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 chair, or regular enrollment at OC.

	Semester Hrs
ieneral Education Requirements	
*COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Go	overnment 3
MATH 1314 College Algebra or	
MATH 1324 Mathematical Analysis for Business or	
MATH 1372 Technical College Algebra	
**PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or 1321 Business and Professional Speech	3

OFFICE SYSTEMS TECHNOLOGY	195
Major Requirements	47
OFST 1401 Data Entry/Business Calculations	4
OFST 1402 Business Language Skills	
*OFST 1404 Beginning Word Processing	4
OFST 1406 Basic Spreadsheet	4
*OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production	s 4
OFST 1422 Business Productions or OFST 2410 Advanced Business Productions	
*OFST 1424 Office Bookkeeping	4
OFST 2377 Cooperative Work Experience	
OFST 2410 Advanced Business Productions or OFST 2402 Information Processing	4
OFST 2401 Advanced Word Processing and Internet Access	4
OFST 2420 Business Communication	
OFST 2421 Office Procedures	4
Related Requirements	~
BUSI 1301 Introduction to Business or MGMT 1301 Introduction to Management	
MGMT 2304 Personnel and Human Relations	3 ?
	J
Total Semester Hours	
Indicates courses which may be articulated by agreement with high school.	
**PHED 1100 should be the first course taken in physical education.	
Course of Study for Certificate of Technology	
Lovel Loartificatos are TASP waived	
Level I certificates are TASP-waived.	
Level I certificates are TASP-waived.	
Level I - Office Clerk Semv	ester Hrs
Level I - Office Clerk Major Requirements	
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations	16 4
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing	16 4
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402)	
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Production	
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402)	
Level 1 - Office Clerk Major Requirements	 16 4 4 s 4
Level 1 - Office Clerk Major Requirements	
Level 1 - Office Clerk Major Requirements	
Level 1 - Office Clerk Major Requirements	
Level I - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech	
Level 1 - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 1.0	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 1 or *Indicates courses which may be articulated by agreement with high school.	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 10	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing *OFST 1404 Beginning Word Processing *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 1 or *Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant The 22 semester hours specified in level I—office clerk certificate—plus the following courses:	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping OFST 1424 Office Bookkeeping *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 1 or "Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant The 22 semester hours specified in level 1—office clerk certificate—plus the following courses: Sem Major Requirements	
Level 1 - Office Clerk Major Requirements Semu OFST 1401 Data Entry/Business Calculations OFST 1404 Beginning Word Processing 'OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) 'OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production OFST 1424 Office Bookkeeping 'OFST 1424 Office Bookkeeping General Education Requirements 'COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level 1 or 'Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant The 22 semester hours specified in level 1—office clerk certificate—plus the following courses: Sem Major Requirements OFST 1402 Business Language Skills	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant The 22 semester hours specified in level 1—office clerk certificate—plus the following courses: Sem Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1406 Basic Spreadsheet OFST 1400 Basiness Productions or OFST 2410 Advanced Business Productions	
Level 1 - Office Clerk Semu Major Requirements OFST 1401 Data Entry/Business Calculations OFST 1404 Beginning Word Processing OFST 1421, delay until second semester and take OFST 1402 OFST 1424 Office Bookkeeping OFST 1424 Office Bookkeeping COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level I or Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant The 22 semester hours specified in level I—office clerk certificate—plus the following courses: Sem Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 2410 Advanced Business Productions	ester Hrs
Level 1 - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations OFST 1401 Data Entry/Business Calculations OFST 1401 Data Entry/Business Calculations OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level I or "Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 2410 Advanced Business Productions OFST 1422 Business Productions or OFST 2410 Advanced Business Productions OFST 2401 Advanced Word Processing and Internet Access OFST 2402 Information Processing or OFST 2410 Advanced Business Communications	
Level 1 - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations *OFST 1401 Data Entry/Business Calculations *OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production *OFST 1424 Office Bookkeeping General Education Requirements ************************************	
Level 1 - Office Clerk Major Requirements OFST 1401 Data Entry/Business Calculations OFST 1401 Data Entry/Business Calculations OFST 1401 Data Entry/Business Calculations OFST 1404 Beginning Word Processing (If taking OFST 1421, delay until second semester and take OFST 1402) OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Production OFST 1424 Office Bookkeeping General Education Requirements *COSC 1301 Introduction to Computer Systems SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Total semester hours A total of 22 semester hours and a minimum grade point average of 2.0 are required for a level I or "Indicates courses which may be articulated by agreement with high school. Level II - Office Assistant Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 2410 Advanced Business Productions OFST 1422 Business Productions or OFST 2410 Advanced Business Productions OFST 2401 Advanced Word Processing and Internet Access OFST 2402 Information Processing or OFST 2410 Advanced Business Communications	

196	OFFICE SYSTEMS TECHNOLOGY	
General Education	on Requirements	
MATH 1314	College Algebra <u>or</u>	
MATH 13	24 Mathematical Analysis for Business or	
MATH 13	72 Technical College Algebra	
Total Semester H	lours	56
A total of 56 seme	ster hours and a minimum grade point average of 2.0 are required for a lev	el II certificate.
	Level III (Advanced Skills Certificate)	
	Office Management Specialist	
Students ma	y earn a level III certificate-advanced skills certificate-office manageme	nt specialist by
completing the fol	lowing requirements.	0
		Semester Hrs
Major Requireme	ents Information Processing <u>or</u> OFST 2440 Internet and Web Page Skills	
051 2402	nnonnalion Frocessing of OFST 2440 internet and web Fage Skills	
Related Require	nents	6
MGMT 1302	Managerial Functions	
MGMT 2301	Management Skills Development	
Tadal Camerate	leure.	
	lours ster hours and a minimum grade point average of 2.0 are required for a level	
advanced skills ce	rtificate—office management specialist. Level III certificate may only be ompletion of an associate or higher-level degree.	
^ -	una of Olively for Associate in Applied Octors.	_
Co	urse of Study for Associate in Applied Science Office Systems Technology Legal Emphasis	9
Students no	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th	ie 14 semester
Students no hours marked wit	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum-articulat	ie 14 semester
Students no hours marked wit	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poproval of department chair or regular enrollment at OC.	ie 14 semester
Students no hours marked wit standing exam, aj	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat oproval of department chair or regular enrollment at OC.	ie 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat opproval of department chair or regular enrollment at OC.	ie 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat oproval of department chair or regular enrollment at OC.	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat oproval of department chair or regular enrollment at OC.	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat proval of department chair or regular enrollment at OC. on Requirements	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educati *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat proval of department chair or regular enrollment at OC. on Requirements	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, af General Educati *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat proval of department chair or regular enrollment at OC. Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 24 Mathematical Analysis for Business <u>or</u> B72 Technical College Algebra	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, af *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an)	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat proval of department chair or regular enrollment at OC. on Requirements	te 14 semester lion, advanced Semester Hrs
Students no hours marked wit standing exam, ar *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an SPCH 1315	Office Systems Technology Legal Emphasis a graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 224 Mathematical Analysis for Business <u>or</u> 72 Technical College Algebra two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech	te 14 semester lion, advanced Semester Hrs
Students no hours marked wit standing exam, ay "COSC 130" ENGL 1301 GOVT 2301 MATH 1314 MATH 1314 "*PHED (an) SPCH 1315	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. In Requirements	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an SPCH 1315 Major Requireme OFST 1324	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. On Requirements I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> B24 Mathematical Analysis for Business <u>or</u> B72 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an SPCH 1315 Major Requireme OFST 1324 OFST 1324	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. On Requirements I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> B24 Mathematical Analysis for Business <u>or</u> B27 Technical College Algebra It wo one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech D24 Terminology Data Entry/Business Calculations	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap "COSC 130" ENGL 1301 GOVT 2301 MATH 1314 MATH 13 "*PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1401	Office Systems Technology Legal Emphasis t graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. on Requirements Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 124 Mathematical Analysis for Business <u>or</u> 127 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology. Data Entry/Business Calculations Business Language Skills	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap "COSC 130" ENGL 1301 GOVT 2301 MATH 1314 MATH 13 "*PHED (an SPCH 1315 Major Requireme OFST 1324 OFST 1401 "OFST 1404 "OFST 1404	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poproval of department chair or regular enrollment at OC. on Requirements I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 124 Mathematical Analysis for Business <u>or</u> 172 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology. Business Language Skills Business Language Skills Beginning Word Processing	te 14 semester ion, advanced Semester Hrs
Students no hours marked wil standing exam, ap "COSC 130" ENGL 1301 GOVT 2301 MATH 1314 MATH 13 "*PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1400 OFST 1406	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 224 Mathematical Analysis for Business <u>or</u> 172 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Parts Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet	te 14 semester lion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 1314 MATH 13 **PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1402 *OFST 1402 *OFST 1404 OFST 1402 *OFST 1402	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. On Requirements I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 122 Hathematical Analysis for Business <u>or</u> 172 Technical College Algebra 172 Technical College Algebra 172 Technical College Algebra 173 Technical College Algebra 174 Business and Professional Speech 175 175 175 175 175 175 175 175 175 175	te 14 semester lion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1402 *OFST 1402 *OFST 1402 *OFST 1402 OFST 1422 OFST 1422 OFST 1422	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. On Requirements I Introduction to Computer Systems Composition and Rhetoric or ENGL 1312 Report Writing U.S. and Texas Government or GOVT 2302 American National Governm College Algebra or S24 Mathematical Analysis for Business or S72 Technical College Algebra y two one-hour activity courses) Public Speaking or SPCH 1321 Business and Professional Speech Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet Keyboarding and Document Preparation or OFST 1422 Business Productions or S94 Mathematical Analysis and Internet Access or S95 Productions or S96 Productions or S97 Productions or S96 Pro	te 14 semester ion, advanced Semester Hrs 17 3 ment 3 3 ment 3 3 3 50 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Students no hours marked wit standing exam, ap General Educatio *COSC 130 ENGL 1301 GOVT 2301 MATH 1314 MATH 13 **PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1402 *OFST 1402 *OFST 1402 *OFST 1402 OFST 1422 OFST 1422 OFST 1422	Office Systems Technology Legal Emphasis It graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. On Requirements I Introduction to Computer Systems Composition and Rhetoric or ENGL 1312 Report Writing U.S. and Texas Government or GOVT 2302 American National Governm College Algebra or S24 Mathematical Analysis for Business or S72 Technical College Algebra y two one-hour activity courses) Public Speaking or SPCH 1321 Business and Professional Speech Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet Keyboarding and Document Preparation or OFST 1422 Business Productions or S94 Mathematical Analysis and Internet Access or S95 Productions or S96 Productions or S97 Productions or S96 Pro	te 14 semester ion, advanced Semester Hrs 17 3 ment 3 3 ment 3 3 3 50 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Students no hours marked wit standing exam, ap "COSC 130" ENGL 1301 GOVT 2301 MATH 1314 MATH 1314 MATH 13 "*PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1404 OFST 1404 OFST 1406 "OFST 1422 OFST 1424 OFST 1424 OFST 1424	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 24 Mathematical Analysis for Business <u>or</u> 27 Technical College Algebra v two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Productions <u>or</u> 10 Advanced Business Productions Coffice Bookkeeping	te 14 semester ion, advanced Semester Hrs
Students no hours marked wit standing exam, ap General Educatio *COSC 1300 ENGL 1301 GOVT 2301 MATH 1314 MATH 1315 **PHED (an) SPCH 1315 Major Requireme OFST 1404 OFST 1404 OFST 1404 OFST 1406 *OFST 1422 OFST 1422 OFST 1424 OFST 1424 OFST 1424 OFST 1424 OFST 1424 OFST 1424	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> B24 Mathematical Analysis for Business <u>or</u> B72 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Produ Business Productions <u>or</u> Office Bookkeeping Cooperative Work Experience	te 14 semester ion, advanced Semester Hrs
Students no hours marked wil standing exam, ap General Educatio "COSC 1300" ENGL 1301 GOVT 2301 MATH 1314 MATH 131 "*PHED (an) SPCH 1315 Major Requireme OFST 1404 OFST 1404 OFST 1404 OFST 1404 OFST 1422 OFST 1424 OFST 24 "OFST 24 "OFST 243 OFST 243 SPCH 2377 OFST 2415	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poproval of department chair or regular enrollment at OC. Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 24 Mathematical Analysis for Business <u>or</u> 272 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology. Business Language Skills Business Language Skills Business Productions <u>or</u> Office Bookkeeping Office Bookkeeping. Cooperative Work Experience Legal Transcription	te 14 semester ion, advanced Semester Hrs
Students no hours marked wil standing exam, ap General Educatio "COSC 1300" ENGL 1301 GOVT 2301 MATH 1314 MATH 13 "*PHED (an) SPCH 1315 Major Requirement OFST 1404 OFST 1404 OFST 1404 OFST 1404 OFST 1404 OFST 1422 OFST 1424 OFST 244 OFST 247 OFST 2415 OFST 2410	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poproval of department chair or regular enrollment at OC. Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> 24 Mathematical Analysis for Business <u>or</u> 772 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology. Business Language Skills Business Language Skills Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Productions Office Bookkeeping. Cooperative Work Experience Legal Transcription Business Communication	te 14 semester lion, advanced Semester Hrs
Students no hours marked wit standing exam, ar General Educatio *COSC 130' ENGL 1301 GOVT 2301 MATH 1314 MATH 1314 MATH 13 **PHED (an) SPCH 1315 Major Requireme OFST 1324 OFST 1402 *OFST 1402 *OFST 1402 OFST 1406 *OFST 1402 OFST 1422 OFST 1424 OFST 244 OFST 2415 OFST 2420 OFST 2421	Office Systems Technology Legal Emphasis I graduating under the tech-prep high school graduation plan must take th h an (*) as part of the office systems technology curriculum—articulat poroval of department chair or regular enrollment at OC. I Introduction to Computer Systems Composition and Rhetoric <u>or</u> ENGL 1312 Report Writing U.S. and Texas Government <u>or</u> GOVT 2302 American National Governm College Algebra <u>or</u> B24 Mathematical Analysis for Business <u>or</u> B72 Technical College Algebra y two one-hour activity courses) Public Speaking <u>or</u> SPCH 1321 Business and Professional Speech Legal Terminology Data Entry/Business Calculations Business Language Skills Beginning Word Processing Basic Spreadsheet Keyboarding and Document Preparation <u>or</u> OFST 1422 Business Produ Business Productions <u>or</u> Office Bookkeeping Cooperative Work Experience	te 14 semester ion, advanced Semester Hrs

ain. -

OFFICE SYSTEMS TECHNOLOGY	19
Related Requirements	
MGMT 2304 Personnel and Human Relations	
Total Semester Hours	71
**PHED 1100 should be the first course taken in physical education.	
Certificates of Completion	
Level I certificates are TASP-waived	
Level I—Legal Office Clerk	
	Semester Hrs
Major Requirements	
OFST 1324 Legal Terminology	
OFST 1401 Data Entry/Business Calculations	
*OFST 1404 Beginning Word Processing	
*OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business	
General Education Requirements	
*COSC 1301 Introduction to Computer Systems	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Total Semester Hours	
A total of 21 semester hours and a minimum grade point average of 2.0 are required fo	or a level I certificate
	or a level I certificate.
	or a level I certificate
*Indicates courses which may be articulated by agreement with high school.	or a level I certificate
	or a level I certificate.
Indicates courses which may be articulated by agreement with high school.	ne following courses:
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th	ne following courses: Semester Hrs
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements	ne following courses: Semester Hrs 35
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills	ne following courses: Semester Hrs
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet	ne following courses: Semester Hrs
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u>	ne following courses: Semester Hrs
Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u>	ne following courses: Semester Hrs 35 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 2410 Advanced Business Productions	ne following courses: Semester Hrs 35 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 2410 Advanced Business Productions *OFST 1424 Office Bookkeeping OFST 12377 Cooperative Work Experience	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping *OFST 1424 Office Bookkeeping OFST 2377 Cooperative Work Experience OFST 2415 Legal Transcription	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1426 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 2410 Advanced Business Productions *OFST 1424 Office Bookkeeping OFST 12377 Cooperative Work Experience	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping OFST 2477 Cooperative Work Experience OFST 2420 Business Communication OFST 2421 Office Procedures	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 1424 Office Bookkeeping OFST 1424 Office Bookkeeping OFST 1424 Office Bookkeeping OFST 2415 Legal Transcription OFST 2420 Business Communication	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 2410 Advanced Business Productions *OFST 12377 Cooperative Work Experience OFST 2415 Legal Transcription OFST 2420 Business Communication OFST 2421 Office Procedures OFST 2425 Legal Document Processing	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 2410 Advanced Business Productions *OFST 1424 Office Bookkeeping OFST 2477 Cooperative Work Experience OFST 2415 Legal Transcription OFST 2420 Business Communication OFST 2421 Office Procedures	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 2410 Advanced Business Productions *OFST 1424 Office Bookkeeping OFST 2415 Legal Transcription OFST 2420 Business Communication OFST 2421 Office Procedures OFST 2455 Legal Document Processing General Education Requirements MATH 1314 College Algebra <u>or</u>	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1402 Business Language Skills OFST 1402 Business Productions or OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping OFST 2377 Cooperative Work Experience OFST 2420 Business Communication OFST 2420 Infice Procedures OFST 2455 Legal Document Processing	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 1424 Office Bookkeeping OFST 2377 Cooperative Work Experience OFST 2415 Legal Transcription OFST 2420 Business Communication OFST 2421 Office Procedures OFST 2425 Legal Document Processing MATH 1314 College Algebra <u>or</u> MATH 1324 Mathematical Analysis for Business <u>or</u> MATH 1372 Technical College Algebra	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
*Indicates courses which may be articulated by agreement with high school. Level II—Legal Office Assistant A total of 21 semester hours specified in level I certificate—legal office clerk—plus th Major Requirements OFST 1402 Business Language Skills OFST 1406 Basic Spreadsheet OFST 1422 Business Productions <u>or</u> OFST 2401 Advanced Word Processing and Internet Access <u>or</u> OFST 1424 Office Bookkeeping OFST 2377 Cooperative Work Experience OFST 2415 Legal Transcription OFST 2420 Business Communication OFST 2421 Office Procedures OFST 2425 Legal Document Processing MaTH 1314 College Algebra <u>or</u> MATH 1324 Mathematical Analysis for Business <u>or</u> MATH 1322 Technical College Algebra	ne following courses: Semester Hrs 35 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Level III—Legal Office Technology Specialist

Students may earn a level III certificate—advanced skills certificate—legal office technology specialist by completing the following requirements:
Semester Hrs

	Jenneater ma
Major Requirements	
OFST 2402 Information Processing or OFST 2440 Internet and Web Page SI	kills 4
Related Requirements LEGL 1302 Introduction to Paralegalism	6
LEGL 1302 Introduction to Paralegalism	
LEGL 2301 Legal Drafting and Office Procedures	
Total Semester Hours	

نان من

Somester Hre

A total of 10 semester hours and minimum grade point average of 2.0 for a level III certificate—advanced skills certificate—legal office technology specialist. Level III certificate may only be awarded along with or following completion of associate or higher-level degree.

Course of Study for Associate in Applied Science Degree Office Systems Technology—Medical Emphasis

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 chair or regular enrollment at OC.

General Education Requirements 11 *COSC 1301 Introduction to Computer Systems 2 ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing 2 GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government 2 MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business or 3 MATH 1372 Technical Algebra for Business 3 **PHED (any two one-hour activity courses) 3 SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech 3 Major Requirements 4 OFST 1401 Data Entry/Business Calculations 4 OFST 1402 Business Language Skills 4 *OFST 1404 Beginning Word Processing 4 OFST 1404 Basic Spreadsheet 5 OFST 1404 Basiness Productions or OFST 2401 Advanced Word Processing and Internet Access or 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or 4 OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 2410 Advanced Business Productions 4 OFST 2420 Business Communication 4 OFST 2420 Business Communication 4 OFST 2420 Business Communication <th></th> <th></th> <th></th>			
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing Second Secon			
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government SMATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business or MATH 1372 Technical Algebra for Business **PHED (any two one-hour activity courses) SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Major Requirements 43 OFST 1401 Data Entry/Business Calculations 44 OFST 1401 Data Entry/Business Calculations 45 OFST 1404 Beginning Word Processing 46 OFST 1404 Beginning Word Processing 47 OFST 1422 Business Language Skills 48 OFST 1424 Geginning Word Processing 47 OFST 1424 Geginning Word Processing 48 OFST 1424 Office Bookkeeping 49 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1422 Business Productions 49 OFST 1515 Medical Insurance Coding and Terminology 49 OFST 2101 Computerized Medical Recordkeeping (8 weeks) 49 OFST 2420 Business Communication 40 OFST 2420 Business Communication 40 OFST 2420 Business Communication 40 OFST 2421 Office Procedures 40 OFST 2421 Office Procedures 40 OFST 2421 Office Procedu			
MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business or MATH 1372 Technical Algebra for Business Image: College Algebra or Business			
MATH 1372 Technical Algebra for Business ************************************			t 3
 **PHED (any two one-hour activity courses) SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech Major Requirements OFST 1401 Data Entry/Business Calculations OFST 1402 Business Language Skills *OFST 1404 Beginning Word Processing OFST 1406 Basic Spreadsheet OFST 1422 Business Productions or OFST 1422 Business Productions OFST 1424 Defice Bookkeeping OFST 1424 Office Bookkeeping OFST 1515 Medical Insurance Coding and Terminology OFST 2410 Computerized Medical Recordkeeping (8 weeks) OFST 2408 Medical Transcription OFST 2420 Business Communication OFST 2421 Office Procedures Related Requirements MGMT 2304 Personnel and Human Relations Cotal Semester hours At total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science 		· · · · · ·	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech 49 OFST 1401 Data Entry/Business Calculations 49 OFST 1401 Data Entry/Business Calculations 49 OFST 1402 Business Language Skills 49 "OFST 1404 Beginning Word Processing 49 OFST 1406 Basic Spreadsheet 40 OFST 1422 Business Productions or OFST 1422 Business Productions 40 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or 41 OFST 1424 Office Bookkeeping 41 OFST 1515 Medical Insurance Coding and Terminology 41 OFST 2410 Computerized Medical Recordkeeping (8 weeks) 41 OFST 2408 Medical Transcription 42 OFST 2420 Business Communication 42 OFST 2421 Office Procedures 43 OFST 2420 flice Procedures 44 OFST 2421 Office Procedures 45 OFST 2420 Personnel and Human Relations 45 OFST 2404 Personnel and Human Relations 45 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science			
Major Requirements 45 OFST 1401 Data Entry/Business Calculations 45 OFST 1402 Business Language Skills 47 "OFST 1404 Beginning Word Processing 47 OFST 1406 Basic Spreadsheet 47 OFST 1426 Business Productions or OFST 1422 Business Productions 47 OFST 1426 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1422 Business Productions 47 OFST 1424 Office Bookkeeping 48 OFST 1515 Medical Insurance Coding and Terminology 48 OFST 2410 Computerized Medical Recordkeeping (8 weeks) 48 OFST 2408 Medical Transcription 49 OFST 2420 Business Communication 49 OFST 2421 Office Procedures 49 Related Requirements 49 MGMT 2304 Personnel and Human Relations 49 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	**PHE	D (any two one-hour activity courses)	2
OFST 1401 Data Entry/Business Calculations 4 OFST 1402 Business Language Skills 4 "OFST 1404 Beginning Word Processing 4 OFST 1406 Basic Spreadsheet 4 OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 2410 Advanced Business Productions 4 OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 2410 Advanced Business Productions 4 OFST 1424 Office Bookkeeping 4 OFST 2101 Computerized Medical Recordkeeping (8 weeks) 6 OFST 2408 Medical Transcription 4 OFST 2420 Business Communication 4 OFST 2421 Office Procedures 4 Related Requirements 5 MGMT 2304 Personnel and Human Relations 6 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	SPCH	I 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
OFST 1401 Data Entry/Business Calculations 4 OFST 1402 Business Language Skills 4 "OFST 1404 Beginning Word Processing 4 OFST 1406 Basic Spreadsheet 4 OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 2410 Advanced Business Productions 4 OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 2410 Advanced Business Productions 4 OFST 1424 Office Bookkeeping 4 OFST 2101 Computerized Medical Recordkeeping (8 weeks) 6 OFST 2408 Medical Transcription 4 OFST 2420 Business Communication 4 OFST 2421 Office Procedures 4 Related Requirements 5 MGMT 2304 Personnel and Human Relations 6 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	Major Requ	uirements	49
*OFST 1404 Beginning Word Processing 4 OFST 1406 Basic Spreadsheet 4 OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 1424 Office Bookkeeping 4 OFST 1424 Office Bookkeeping 4 OFST 1515 Medical Insurance Coding and Terminology 4 OFST 2101 Computerized Medical Recordkeeping (8 weeks) 4 OFST 2408 Medical Transcription 4 OFST 2420 Business Communication 4 OFST 2421 Office Procedures 4 Related Requirements 4 MGMT 2304 Personnel and Human Relations 5 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science			
OFST 1406 Basic Spreadsheet 4 OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 2410 Advanced Business Productions 4 *OFST 1424 Office Bookkeeping 4 OFST 1515 Medical Insurance Coding and Terminology 4 OFST 2010 Computerized Medical Recordkeeping (8 weeks) 6 OFST 2408 Medical Transcription 4 OFST 2420 Business Communication 4 OFST 2421 Office Procedures 4 Related Requirements 6 MGMT 2304 Personnel and Human Relations 6 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science			
OFST 1406 Basic Spreadsheet 4 OFST 1421 Keyboarding and Document Preparation or OFST 1422 Business Productions 4 OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 2410 Advanced Business Productions 4 *OFST 1424 Office Bookkeeping 4 OFST 1515 Medical Insurance Coding and Terminology 4 OFST 2010 Computerized Medical Recordkeeping (8 weeks) 6 OFST 2408 Medical Transcription 4 OFST 2420 Business Communication 4 OFST 2421 Office Procedures 4 Related Requirements 6 MGMT 2304 Personnel and Human Relations 6 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	*OFS1	T 1404 Beginning Word Processing	4
OFST 1422 Business Productions or OFST 2401 Advanced Word Processing and Internet Access or OFST 2410 Advanced Business Productions 4 *OFST 1424 Office Bookkeeping 4 OFST 1515 Medical Insurance Coding and Terminology 4 OFST 2101 Computerized Medical Recordkeeping (8 weeks) 5 OFST 2377 Cooperative Work Experience 5 OFST 2408 Medical Transcription 6 OFST 2420 Business Communication 6 Advanced Requirements 5 MGMT 2304 Personnel and Human Relations 6 A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	OFST	1406 Basic Spreadsheet	4
OFST 2410 Advanced Business Productions	OFST	1421 Keyboarding and Document Preparation or OFST 1422 Business Production	is 4
*OFST 1424 Office Bookkeeping			
OFST 1515 Medical Insurance Coding and Terminology	OF	ST 2410 Advanced Business Productions	
OFST 2101 Computerized Medical Recordkeeping (8 weeks)	*OFS1	T 1424 Office Bookkeeping	4
OFST 2101 Computerized Medical Recordkeeping (8 weeks)	OFST	1515 Medical Insurance Coding and Terminology	5
OFST 2377 Cooperative Work Experience	OFST	2101 Computerized Medical Recordkeeping (8 weeks)	1
OFST 2420 Business Communication			
OFST 2420 Business Communication	OFST	2408 Medical Transcription	
OFST 2421 Office Procedures	OFST	2420 Business Communication	4
MGMT 2304 Personnel and Human Relations	OFST	2421 Office Procedures	4
MGMT 2304 Personnel and Human Relations	Related Re	quirements	
A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	MGM1	T 2304 Personnel and Human Relations	
A total of 69 semester hours and a grade point average of 2.0 are required for associate in applied science	Total Seme	ester Hours	
*Indicates courses which may be articulated by agreement with high school.	*Indicates c	courses which may be articulated by agreement with high school.	
**PHED 1100 should be the first course taken in physical education.			

	OFFICE SYSTEMS TECHNOLOGY	199
Course of	of Study for Certificate of Technology O	ptions
	Level I certificates are TASP-waived.	
	Level I - Medical Office Clerk	Compoter Uro
Major Poquiromente		Semester Hrs
Major Requirements	Entry/Business Calculations	
	nning Word Processing	
	1421, delay until second semester and take OFST 1402)	
	poarding and Document Preparation or OFST 1422 Business F	Productions 4
	al Insurance Coding and Terminology	
eneral Education Reg	quirements	
	duction to Computer Systems	
	Speaking or SPCH 1321 Business and Professional Speech	
Total Semester Hours .		
A total of 23 semester hou medical office clerk.	ours and a minimum grade point average of 2.0 are required for	a level I certificate—
Indicates courses which	h may be articulated by agreement with high school.	
	Level II - Medical Office Assistant	
The 23 semester hours s	specified in level I certificate plus the following courses:	
		Semester Hrs
Major Requirements		
	ess Language Skills	
	Spreadsheet	4
OFST 1422 Busine		
	vanced Word Processing and Internet Access or	
	vanced Business Productions	
	e Bookkeeping	
	uterized Medical Recordkeeping (8 weeks)	
	erative Work Experience	
	al Transcription	
	ess Communication	
OFST 2421 Office	Procedures	4
General Education Reg	quirements	3
MATH 1314 Colleg		······································
	athematical Analysis for Business or	
	achematical Aligebra for Business	3
	-	
otal Semester Hours .		58
total of 58 semester h	hours and a minimum grade point average of 2.0 are require	d for a certificate of
	fice technology specialist.	
teennology modioarom	tes testinology operation	

OFFICE SYSTEMS TECHNOLOGY

20	n
20	υ

Level III (Advanced Skills Certificate) Medical Office Technology Specialist

BIOL 2404 Human Anatomy and Physiology	
OFST 2402 Information Processing or	
OFST 2401 Advanced Word Processing and Internet Access or	
OFST 2440 Internet and Web Page Skills	4
OFST 2417 Advanced Medical Transcription	

A total of 12 semester hours and a minimum grade point average of 2.0 are required for level III—advanced skills certificate—medical office technology specialist. Level III certificate may only be awarded along with or following completion of associate or higher-level degree.

Office Systems Technology Courses

OFST 1200 Basic Keyboarding Skills

OFST 1324 Legal Terminology

OFST 1401 Data Entry/Business Calculations

OFST 1402 Business Language Skills

OFST 1404 Beginning Word Processing

OFST 1406 Basic Spreadsheet

OFFICE SYSTEMS TECHNOLOGY

OFST 1421 Keyboarding and Document Preparation

OFST 1422 Business Productions

OFST 1424 Office Bookkeeping

OFST 1515 Medical Insurance Coding and Terminology

OFST 2101 Computerized Medical Recordkeeping

OFST 2377 Cooperative Work Experience

OFST 2401 Advanced Word Processing and Internet Access

OFST 2402 Information Processing

(3-2) 4 hours Student will develop skill in integrating word processing, data base and spreadsheet using a Windows environment. Includes applications for problem solving and decision making. Lab fee required. (SCANS 2, 3, 4, 5, 6, 7, 8, 9, 10) Prerequisite: OFST 1404, (OFST 2304 may be taken concurrently).

OFST 2408 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, 2, 3, 4, 6, 9) Prerequisite: OFST 1422, OFST 1515 or equivalent, or type 50 wpm, OFST 1404, or other word processing skills.

OFST 2410 Advanced Business Productions

Student will increase speed and accuracy using speed drills. Will develop skill in machine transcription, proofreading and producing mailable documents from unarranged material. Simulations in medical, legal or general office provide decision-making skills. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9) Prerequisite: OFST 1422 and OFST 2401 (may be taken concurrently).

OFST 2415 Legal Transcription

Student will demonstrate the acquisition of skills in vocabulary, listening, organizing, interpreting and transcribing basic reports used in a legal office. Provides transcription of actual dictation by lawyers. Lab fee required. (SCANS 1, 2, 3, 4, 6, 9) Prerequisite: OFST 1324, OFST 1422 or equivalent, or type 50 wpm, OFST 1404 or other word processing skills.

OFST 2417 Advanced Medical Terminology and Transcription

Student will demonstrate a mastery of extensive list of standard and contemporary terms and increase skill in transcribing different types of medical reports in 15 medical specialties. Lab fee required. (SCANS 1, 2, 4, 6, 9) Prerequisite: OFST 1515, OFST 2408, OFST 1402 or equivalent, type 50 wpm, some word processing experience will be needed for some reports.

OFST 2420 Business Communication

letters, memos, reports-using various word processing technologies. Develop skill in the interview process and composition of resumes. Activities in oral and written communication and teamwork will be provided. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisite: OFST 1402, OFST 1422. (OFST 2401 or OFST 2402 may be taken concurrently).

OFST 2421 Office Procedures

Student will study modern office procedures which affect the office worker. Will demonstrate proper procedures required for written and oral communication, time management, filing, proofreading, telephone techniques, human relations in diversity, and applying proper technology for tasks using the computer. Lab fee required. (SCANS 2, 4, 6, 8, 10) Prerequisite: OFST 1402, OFST 1404, OFST 1406, OFST 1421. (OFST 1422 and OFST 2401 may be taken concurrently)

OFST 2440 Internet and Web Page Skills

Student will acquire extensive Internet skills utilizing Windows browser, Gopher and FTP programs. Student will demonstrate proficiency by using Internet tools in developing a World Wide Web home page and performing e-mail functions. Lab fee required. (SCANS 1, 6, 9, 10) Prerequisites: OFST 1404, OFST 1422 or consent of department chair.

OFST 2455 Legal Document Processing

Student will develop skill in integrating word processing with the production of all types of legal documents. Includes applications for problem solving, decision making and team skills. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10) Prerequisite: OFST 1404, OFST 1324.

Orientation

Faculty: Judy Merritt, director; Rodney Hernandez, Terri Pease, LaRae Phillips, Rena Ventura-Jackson.

Orientation to Odessa College (ORIE 1100) is designed to assist those new to college in gaining the knowledge necessary to function effectively in a college environment. Students are required to complete a tour of the Learning Resources Center, a study skills component and a course evaluation. The course covers the policies, rules, regulations and services provided to students as well as the state-mandated TASP requirement. ORIE 1100, Orientation to Odessa College, is required for first-time students who are taking six or more credit hours. Exempted from this requirement are Dual Credit and Early Admissions students and certain other students under special conditions. All other first-time students who enroll in nine or more semester hours during their first semester at Odessa College should enroll in ORIE 1100.

ORIE 1100 Orientation (24.0102.5140)

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. New students are encouraged to meet with the department chair prior to registration.

Course of Study for Associate in Applied Science Degree Petroleum Technology

Descent Education Description ante	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra	
**PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
lajor Requirements	30
PETR 1300 Petroleum Overview	
PETR 1310 Rotary Drilling Fluids	
PETR 1311 Well Completion Methods	
PETR 1320 Production Methods	
PETR 1380 Computers for Petroleum	
PETR 2310 Drilling Methods	
PETR 2325 Well Workover Methods	
PETR 2360 Corrosion	
PETR 2377 Cooperative Work Experience	
PETR 2390 Petroleum Regulations	
PETR 2590 Felloleulli Regulations	
Petroleum Electives (Any PETR course not required)	9

	PETROLEUM TECHNOLOGY	
Related Requirements		
OSHA 2395 Industrial S	Safety	
OSHA 2396 Hazardous	Waste and Emergency Response	
OSHA 2398 Environme	ntal Issues	3
otal Semester Hours		
asic Oilfield Hydraulics, PET	he following pool of courses depending on their indi R 1302 Rotary Drilling Rig Equipment, PETR 2350 P emical Treating in Production Operations and PETR	ipelining, PETR 2382 Wei
PHED 1100 should be the i	first course taken in physical education.	
ertificates of technology are equirements and Permian Ba	e available in the following job-specific fields. See the lasin job opportunities.	e program chair for course
Ce	ertificate of Technology Options	
	Level I certificates are TASP-waived.	
	Level I - Well Head Pumper	Semester Hrs
lajor Requirements		
ENGL 1312 Report Writ	iting	
PETR 1300 Petroleum	Overview	
	Methods	
PETR 1380 Computers	s for Petroleum	
PETR 2325 Well Worko	over Methods	
PETR 2360 Corrosion .		
PETR 2388 Artificial Liff	lt	
	department chair for options)	
	e department chair for opponst	
otal Semester Hours		
otal Semester Hours		
otal Semester Hours		24
otal Semester Hours lajor Requirements	Level I - Gas Compressor Operator	Semester Hrs
otal Semester Hours ajor Requirements ENGL 1312 Report Writ	Level I - Gas Compressor Operator	Semester Hr
otal Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum	Level I - Gas Compressor Operator iting	Semester Hr
otal Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum PETR 1380 Computers	Level I - Gas Compressor Operator iting Overview	Semester Hr
otal Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas	Level I - Gas Compressor Operator ting Overview for Petroleum	24 Semester Hr
lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic	Level I - Gas Compressor Operator iting Overview for Petroleum s Processing iquid Measurement	24 Semester Hr
Total Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme	Level I - Gas Compressor Operator ting Overview for Petroleum	24 Semester Hr
Fotal Semester Hours Aajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum 0 PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme Approved Elective (see	Level I - Gas Compressor Operator iting Overview for Petroleum s Processing iquid Measurement inter Issues	24 Semester Hr
Fotal Semester Hours Major Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme	Level I - Gas Compressor Operator iting Overview for Petroleum s Processing iquid Measurement inter Issues	24 Semester Hr
ajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme Approved Elective (see	Level I - Gas Compressor Operator ting Overview for Petroleum s Processing iquid Measurement antal Issues department chair for options)	24 Semester Hrs
ajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lid OSHA 2398 Environme Approved Elective (see Dtal Semester Hours	Level I - Gas Compressor Operator ting Overview for Petroleum s Processing iquid Measurement ental Issues department chair for options) Level I - Gas Plant Operator	24 Semester Hr 25 26 26 Semester Hr
ajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lid OSHA 2398 Environme Approved Elective (see otal Semester Hours	Level I - Gas Compressor Operator ting Overview for Petroleum s Processing iquid Measurement ental Issues department chair for options) Level I - Gas Plant Operator Overview	2 Semester Hr. 2
ajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lid OSHA 2398 Environme Approved Elective (see otal Semester Hours	Level I - Gas Compressor Operator iting Overview for Petroleum s Processing iquid Measurement antal Issues department chair for options) Level I - Gas Plant Operator Overview for Petroleum	24 Semester Hr 25 27 Semester Hr
ajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme Approved Elective (see Otal Semester Hours	Level I - Gas Compressor Operator iting Overview for Petroleum s Processing department chair for options) Level I - Gas Plant Operator Overview for Petroleum s Processing	2 Semester Hr
Iajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Ga: PETR 2389 Gas and Lic OSHA 2398 Environme Approved Elective (see Iotal Semester Hours PETR 1300 Petroleum (PETR 1380 Computers PETR 1380 Computers PETR 2331 Natural Ga: PETR 2360 Corrosion	Level I - Gas Compressor Operator iting Overview for Petroleum is Processing iquid Measurement idepartment chair for options) Level I - Gas Plant Operator Overview for Petroleum s Processing	24 Semester Hr 25 27 Semester Hr
otal Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 2331 Natural Ga: PETR 2389 Gas and Lit OSHA 2398 Environme Approved Elective (see otal Semester Hours lajor Requirements PETR 1300 Petroleum (PETR 1300 Petroleum (PETR 1300 Petroleum (PETR 1380 Computers PETR 1380 Computers PETR 2331 Natural Ga: PETR 2360 Corrosion PETR 2389 Gas and Lite	Level I - Gas Compressor Operator iting Overview for Petroleum is Processing iquid Measurement department chair for options) Level I - Gas Plant Operator Overview for Petroleum s Processing iquid Measurement	24 Semester Hr 25 27 Semester Hr
Iajor Requirements ENGL 1312 Report Write PETR 1300 Petroleum 0 PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lice OSHA 2398 Environme Approved Elective (see Iotal Semester Hours PETR 1300 Petroleum 0 PETR 2389 Gas and Lice OSHA 2398 Environme Approved Elective (see Iotal Semester Hours PETR 1300 Petroleum 0 PETR 1380 Computers PETR 2331 Natural Gas PETR 2360 Corrosion PETR 2389 Gas and Lice OSHA 2398 Environme	Level I - Gas Compressor Operator iting Overview of or Petroleum is Processing iquid Measurement intal Issues odepartment chair for options) Level I - Gas Plant Operator Overview of or Petroleum is Processing is Processing iquid Measurement inquid Measurement inquid Measurement	24 Semester Hr 25 27 Semester Hr
Iajor Requirements ENGL 1312 Report Write PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gase PETR 2389 Gas and Lice OSHA 2398 Environmen Approved Elective (see Total Semester Hours PETR 1300 Petroleum (PETR 1300 Petroleum (PETR 1300 Petroleum (PETR 1380 Computers PETR 1380 Computers PETR 2331 Natural Gase PETR 2369 Gas and Lice OSHA 2398 Environmen PETR 2389 Gas and Lice OSHA 2398 Environmen ENGL 1312 Report Write	Level I - Gas Compressor Operator iting Overview for Petroleum is Processing iquid Measurement intal Issues department chair for options) Level I - Gas Plant Operator Overview is Processing is processing is processing is processing is processing is processing is processing	2 Semester Hr
Total Semester Hours lajor Requirements ENGL 1312 Report Writ PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2389 Gas and Lic OSHA 2398 Environme Approved Elective (see Total Semester Hours lajor Requirements PETR 1300 Petroleum (PETR 1380 Computers PETR 2331 Natural Gas PETR 2360 Corrosion PETR 2389 Gas and Lic OSHA 2398 Environme ENGL 1312 Report Writ	Level I - Gas Compressor Operator iting Overview of or Petroleum is Processing iquid Measurement intal Issues odepartment chair for options) Level I - Gas Plant Operator Overview of or Petroleum is Processing is Processing iquid Measurement inquid Measurement inquid Measurement	2 Semester Hr

-

PETROLEUM T	ECHNOLOGY
-------------	-----------

Level I - Refinery Panel Operator

Major Requirements	
ENGL 1312 Report Writing	
OSHA 2398 Environmental Issues	
PETR 1300 Petroleum Overview	
PETR 1370 Petroleum Instrumentation	
PETR 1380 Computers for Petroleum	
PETR 2340 Refining Methods	
Approved Elective (see department chair for options)	
Total Semester Hours	

Petroleum Technology Courses

PETR 1300 Petroleum Overview

PETR 1301 Basic Oilfield Hydraulics

PETR 1302 Rotary Drilling Equipment

PETR 1310 Rotary Drilling Fluids

PETR 1311 Well Completion Methods

PETR 1320 Production Methods

Semester Hrs

PETB 1370 Petroleum Instrumentation

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 or 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

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 2350 Pipelining

Competencies include the construction, repair and maintenance on product, oil, natural gas, salt water and fresh water systems. The student will be able to make calculations and decisions on appropriate lines for size, pressure and type (steel, PVC, etc.). (SCANS 3, 6, 8, 9) 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

A capstone course designed to interrelate academic and vocational course lectures and labs with business and industry and 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: Consent of the department chair.

PETR 2382 Well Stimulation Methods

PETR 2383 Chemical Treating in Production Operations

PETR 2388 Artificial Lift

PETR 2389 Gas and Liquid Measurement

PETR 2390 Petroleum Regulations

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 photography as a major, the department welcomes all students.

<u>.</u>

ž

й. Кал Ű

ک ت ک

Course of Study for Associate in Applied Science Degree Photography

	Semester Hrs
General Education Requirements	
ACCT 1370 Elementary Accounting	3
ARTS 1311 Design I	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Govern	
MATH 1332 Structures of College Mathematics or higher level math	
*PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	
SPCH 1321 Business and Professional Speech	
Elective	3
Major Requirements	
**COMM 1307 Introduction to Mass Communication	
**COMM 1318 Basic Photography I	
**COMM 1319 Basic Photography II	
PHOT 1361 Photo Lab Technique I	
PHOT 1362 Photo Lab Technique II	
PHOT 2200 Print Finishing & Negative Retouching or PHOT 2390 Graphics	
PHOT 2360 Expressive Photography	
PHOT 2370 History of Photography	
PHOT 2371 Color Photography I	
PHOT 2372 Color Photography II	
PHOT 2377 Cooperative Work Experience	
PHOT 2380 Photographic Problems	3
Total Semester Hours	64
	······································
 PHED 1100 should be the first course taken in physical education. ** Courses listed with COMM prefix may be found in the Mass Communication section of 	
Course of Study for Certificate of Completion Level I certificates are TASP-waived.	-
Level I - Photo Lab Assistant	
	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
PSYC 2302 Applied Psychology	
Major Requirements	
**COMM 1318 Basic Photography I	
**COMM 1319 Basic Photography II	
PHOT 1361 Photo Lab Technique I	3
PHOT 1362 Photo Lab Technique II	
Total Semester Hours	

Level I - Commercial Studio Assistant

	nester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
PSYC 2302 Applied Psychology	
SPCH 1321 Business and Professional Speech	
Related Requirements	
ARTS 1311 Design I	3
Major Requirements	12
**COMM 1318 Basic Photography I	
**COMM 1319 Basic Photography II	
PHOT 2311 Commercial Photography I	
PHOT 2312 Commercial Photography II	3
Total Semester Hours	

Level I - Portrait Studio Assistant

	Semester Hrs
General Education Requirements	
General Education Requirements COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
PSYC 2302 Applied Psychology	
SPCH 1321 Business and Professional Speech	
Related Requirements ARTS 1311 Design I	
ARTS 1311 Design I	
Aajor Requirements	
**COMM 1318 Basic Photography I	
**COMM 1319 Basic Photography II	
PHOT 2331 Portrait Photography I	
F HOT 2001 F VIIIall F HOLOGIAPHY F	
PHOT 2332 Portrait Photography II	
PHOT 2332 Portrait Photography I	

** Courses listed with COMM prefix may be found in the Mass Communication section of the catalog.

Photography Courses

PHOT 1361 Photo Lab Technique I

PHOT 1362 Photo Lab Technique II

PHOT 2200 Print Finishing and Negative Retouching

PHOT 2311 Commercial Photography I

PHOT 2312 Commercial Photography II

PHOT 2331 Portrait Photography I

PHOT 2332 Portrait Photography II

	PHOTOGRAPHY	21
	360 Expressive Photography	
Off by thir fee	4)	uses of photograph ages creative visua ne art of seeing. La
	370 History of Photography	
À s dev inv and	D)	hnical and authentings of the medium rs, aesthetic trend
	371 Color Photography I	
Intr for ass Lat	4)	olor films and filter olor negatives wit otographing in colo
PHOT 2	372 Color Photography II 4)	0.1
A c to s col pho	4)	dents will learn hov sis is on printing fror acies of seeing an
	377 Cooperative Work Experience	
À c bus sup stu We	20) apstone course designed to interrelate academic and vocational course lec siness and industry and work experiences. Under supervision of college facu pervisor, the student will achieve agreed upon workplace goals and objectives to dent's competency attainment in the areas of personal, interpersonal and pro- rekly lectures will address key workplace competencies to enhance the employar npetent graduate (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of the depar	tures and labs wit Ity and a workplac hat will enhance th oblem solving skills bility of a technical
	380 Photographic Problems	0.1.1
Alle util to p in v Pre	5)	ular project or them ohotographic genre e time and activitie ed. (SCANS 4, 8, 9
	390 Graphics	0 ho
The cor util enl	4)	nages used in phot age-capture device ol, manipulation an kt and graphics froi

Physical and Health Education

Faculty: Jim Carlson, chair; Karin Carlson, Paul Chavez, Tricia Floyd, Kenneth Hines, Pat Hodges, Betty Hudson, Orlando Ontiveroz, Calvin Sinkfield, Stephanie Thomas, Scott Walkinshaw, Jim Watkins, Rick Zimmerman.

10.00

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 degree. All physical education activity courses may be taken as a pass/fail option.

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

	Semester Hrs
General Education Requirements	45
**BIOL 1406 General Biology I	
BIOL 1407 General Biology II	4
COSC 1301 Introduction to Computer Systems	
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	3
MATH 1314 College Algebra or higher level math	
MATH 1342 Mathematical Statistics or higher level math	3
Science (with lab)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Elective	3
Major Requirements	10
*PHED (any four one-hour activity courses)	
PHED 1301 Orientation in Health, Physical Education and Recreation	
PHED 2376 Prevention and Care of Athletic Injuries	····· 0
***Approved Electives	٥
	J
Total Semester Hours	. 67
*PHED 1100 should be the first course taken in physical education.	
**CHEM 1311, CHEM 1312, plus CHEM 1111 and CHEM 1112, may be substituted for BIOL	1406 and DIOL
	1400 and DIUL
***Electives will be selected from the following three-hour classes based on senior institution	
DUED 1020 DUED 2020 DUED 1000 UNE DUED 1000 DUED 10000 DUED 10000 DUED 1000 DUED 1000 DUED 1000 DUED 1000 DUED 10000	requirements:
PHED 1238, PHED 2278, PHED 1304, PHED 1306, PHED 1308, PHED 1309, PHED 132 PHED 1331, PSYC 2301 and SOCI 1301.	i, PHED 1322,
FRED 1331, FSTO 2301 and 5001 1301.	

PHYSICAL AND HEALTH EDUCATION	21
Students majoring in exercise and sport science in preparation for a teaching career are take four activity classes selected from the following areas: - One class from Fitness Activities	required t
 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 courses will not be counted toward the four-activity requirement for exercise and sport science In addition, it is also recommended that exercise and sport science majors take more minimum of four one-hour activity classes in their preparation for a teaching career. Students shou the requirements of the senior college to which they intend to transfer and plan their junior college schedule accordingly. Physical education activity classes meet three hours weekly for one semester-hour credit.	e majors. re than th Ild conside e scholast . An activit
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	nester Hr
General Education Requirements	
COSC 1301 Introduction to Computer Systems	
BIOL 1406 General Biology I	
BIOL 1407 General Biology II	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level) GOVT 2301 U.S. and Texas Government	
GOVT 2301 0.5. and Texas Government	
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	••••••
MATH 1314 College Algebra or higher level math	
Science (with lab)	
*PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	•••••
Elective	
Major Requirements	
PHED 1171 Athletic Training Clinical Practicum I	
PHED 1304 Personal and Community Health	
PHED 1306 First Aid	
PHED 2171 Athletic Training Clinical Practicum II	
PHED 2278 Nutrition in Exercise and Sport	
PHED 2376 Prevention and Care of Athletic Injuries	
**Approved Electives	••••••
Total Semester Hours	6
*PHED 1100 should be the first course taken in physical education.	
** Approved Electives: CHEM 1311, CHEM 1312, BCIS 1401, PHED 1238, PHED 1301, PHED 1	331, PSY
2301 and SOCI 1301.	
The athletic training program is designed to meet the lower level requirements of the Nation Association and the state of Texas Licensure Act for Athletic Trainers. The program is a practical work experience approach to gaining the knowledge and skills needed to fulfill requirements f certification as determined by the NATA and Texas state licensure as determined by the Texas I of Health.	education
	eet the fir the specif

Fitness Activities

PHED 1100 Lifestyle Assessment and Modification (31.0501.5128)

PHED 1101 Aerobic Dance (36.0108.5128)

PHED 1102 Cycling (36.0108.5128)

PHED 1103 Defensive Tactics (36.0108.5128)

PHED 1104 Advanced Defensive Tactics (36.0108.5128)

PHED 1105 Gymnastics (36.0108.5128)

PHED 1106 Jogging/Walking (36.0108.5128)

	PHYSICAL AND HEALTH EDUCATION	2.
PHE	D 1107 Judo/Karate (36.0108.5128)	
	(0-3)	
	Emphasizes basic skills and techniques of American karate. Students will learn vulnerable	
	human body and be instructed in defensive and offensive techniques to protect oneself.	
	work in small groups and partner situations in which personal qualities will be a second this class. Lab fee required. (SCANS 9, 10) Prerequisite: None.	ary benefit
PHE	D 1108 Physical Conditioning, Aerobic Super Circuit (36.0108.5128) (0-3)	1 br
	Combines weightlifting with aerobic activities in a structured, formatted conditioning progra	
	the whole body. Orientation and physical assessments enable students to personalize the	
	and help them attain their fitness goals. Workouts are computer-monitored and instructed	
	Includes a preliminary one-time, two-hour orientation. Lab fee required. (SCANS 4, 9, 10)	Prerequisi
	None. (Must be at least 16 years old.)	
PHE	D 1109 Physical Conditioning, Aerobic Super Circuit—Advanced (36.0108.5128) (0-3)	1 ha
	Combines weightlifting with aerobic activities in a structured, formatted conditioning progra	
	the whole body. Orientation and physical assessments enable students to personalize the	
	and help them attain their fitness goals. Workouts are computer-monitored and instructor	
	Also includes instruction in the proper techniques of training specific body areas. Includes	
	one-time, two-hour orientation. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: Pl consent of the instructor. (Must be at least 16 years old.)	80וו עבר
PHE	D 1110 Trampoline (36.0108.5128) (0-3)	
	A gymnastics class specializing in acquisition of various trampoline skills, including f	
	spotting. Uses efficient learning techniques to acquire and apply new knowledge and skil	
	and self-control will be secondary benefits of class participation. Lab fee required. (S	CANS 9, 1
	Prerequisite: None.	
PHE	D 1111 Weight Training (36.0108.5128)	
	(0-3) Emphasizes increasing strength through proper techniques of lifting and weight training	
	and physical assessments enable students to personalize their workouts and help the	
	fitness goals. Students will perform basic calculations to determine appropriate workl	
	sets, repetitions, intensity, progression and recovery to meet their fitness goals. Includes	a nrelimin:
	one-time, two-hour orientation. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: Must	
	years old.	
	D 1112 Adaptive Personalized Fitness (36.0108.5128)	
rnc:	(0-3)	1 ho
	This course consists of three major components, (1) cardiovascular conditioning, (2) s	trengthen
	exercises, (3) range of motion stretching and relaxation techniques. This class is designed	d to introdu
	physically challenged students (P.C.S.) to a variety of physical activities including	g; rhythmi
	movement, aquatics, hydro-fitness (resistance training), walking/jogging. P.C.S. are	
	students with temporary injuries, severely obese individuals (over 40% body fat per	
	permanently disabled students. These individuals will be assessed and given an i	
	exercise program. May be repeated for credit. Lab fee required. (SCANS 5, 9, 10) Approval by the department chair.	rielequis
	Approval by the department chain.	
PHE	D 1113 Weight Training, Advanced (36.0108.5128) (0-3)	1 6.
	Continued improvement in strength and flexibility and the opportunity to develop sp	ecific mus
	groups. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: PHED 1111 or consent of t	he instruc

Lifetime Activities

(0-3)	1 hour each
	ling events such as rodeo, drill, show and speed horses. performance, basic equipment and riding style. Lab fee nsent of instructor.
HED 1116 Badminton (36.0108.5128)	
Instruction and skill development of the basi	c skills of badminton: serve, clear, smash, drop and net sic strategy for singles and doubles will be acquired. Lab
HED 1117 Bowling (36.0108.5128)	
The student will learn the mechanics of the a of bowling. The course will also cover scoreke	pproach, release and execution of three different styles eping (automated and manual) pin and spot bowling, point mes. Lab fee required. (SCANS 3, 10) Prerequisite: None.
HED 1118 Social Dance (36.0114.5130)	1 hou
Includes instruction in basic dance skills, pos (cotton-eyed Joe, two-step, waltz, polka, and	itions, rhythms, steps and formation, i.e. country western schottische), line dancing, and conventional ballroom as s. Lab fee required. (SCANS 5, 9, 10) Prerequisite: None.
PHED 1119 Golf (36.0108.5128)	1 have
The student will learn the basic fundamental	s of golf including grip, putting, chipping, and full swing of rules, etiquette, and types of competitive play available , 10) Prerequisite: None.
HED 1121 Racquetball (36.0108.5128)	1 hou
Instruction in and development of fundamen	tal skills such as basic strokes, basic shots, serve, court b. Lab fee required. (SCANS 10) Prerequisite: None.
HED 1122 Recreational Sports (36.0108.5128) 1 hou
Presents skills and rules for pool, ping-pong aspects of participation in these activities, as	and a variety of board games. Emphasis will be on the well as the cognitive and affective nature of rules, history, fee required. (SCANS 9, 10) Prerequisite: None.
PHED 1123 Skiing (36.0108.7128)	
This course is designed to prepare the stude of terrain/snow conditions encountered on t	nt for efficient skiing techniques to apply to different types he required ski trips during the mid-winter and/or spring r institution regarding course transferability. Special fee
PHED 1124 Tennis, Beginning (36.0108.5128)	
Emphasizes beginning skills in execution o	f forehand and background strokes, the serve and the te in both singles and doubles. Lab fee required. (SCANS
PHED 1125 Tennis, Advanced (36.0108.5128)	
Emphasis placed on proper execution of ba	asic strokes as well as specialty shots such as the lob tivities in singles and doubles. Lab fee required. (SCANS

Team Sports

PHED 1128 Basketball, Men's (36.0108.5128)

PHED 1129 Basketball, Women's (36.0108.5128)

PHED 1130 Cheerleading (36.0108.5128)

PHED 1131 Football, Touch (36.0108.5128)

PHED 1132 Rodeo (36.0108.5128)

PHED 1133 Softball (36.0108.5128)

PHED 1134 Volleyball (36.0108.5128)

Aquatics

PHED 1146 Red Cross Life Saving (Life Guarding) (36.0108.5128)

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. (SCANS 5, 9, 10) Prerequisite: Advanced swimming skills.

PHED 1147 Swimming, Beginning (36.0108.5128)

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 Fitness Swimming (36.0108.5128)

Aerobic fitness developed through lap swimming. Other fitness parameters include strength, flexibility, nutrition and proper body weight. Physiological principles of exercise. Lab fee required. (SCANS 4, 9, 10) Prerequisite: PHED 1147 or the ability to execute the five basic swimming strokes in deep water.

PHED 1149 Water Sports/Games (36.0108.5128)

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 (36.0108.5128)

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. (SCANS 3, 4, 5, 9, 10) Prerequisite: None.

PHED 1152 Scuba Diving (36.0108.5328)

(0-3)1 hour 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. Lab fee required. (SCANS 5, 9, 10) Prerequisite: PHED 1147 or consent of the instructor.

Competitive Athletics

PHED 1136 Varsity Baseball (36.0108.5128)

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 (36.0108.5128)

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 (36.0108.5128) 1 hor Designed for advanced golfers competing on collegiate level. Students will be taught to apply ne knowledge and skills to improve individual and team performance. An understanding of the tea concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor. PHED 1139 Rodeo, Varsity (36.0108.5128) 1 hor (0-3) 1 hor Designed for advanced participants in rodeo competing on collegiate level. Students will be taught apply new knowledge and skills to improve individual and team performance. An understanding of th team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor. PHED 1141 Track and Field, Varsity (36.0108.5128) 1 hor (0-3) 1 hor 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. A 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 (31.0506.7128) 1 hor Designed to satisfy the first-year practical experience of the athletic training student. Students will be taught in coopieze problems and design a plan of action for services such as, but not limited to, tapin bandaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. A ethical course of action will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor. PHED 1136 Varsity Base		PHYSICAL AND HEALTH EDUCATION 219
Designed for advanced golfers competing on collegiate level. Students will be taught to apply ne knowledge and skills to improve individual and team performance. An understanding of the tea concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor. PHED 1139 Rodeo, Varsity (36.0108.5128) (0-3)		•
(0-3) 1 hot Designed for advanced participants in rodeo competing on collegiate level. Students will be taught 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 (36.0108.5128) 1 hot (0-3) 1 hot Designed for advanced participants in track and field competing on the collegiate level. Students we be taught to apply new knowledge and skills to improve individual and team performance. A 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 (31.0506.7128) (1-20) 1 hot 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 areas of competition practice, and therapeutic settings. Students will be taught recognize problems and design a plan of action for services such as, but not limited to, tapin bandaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. A ethical course of action will be stressed throughout the course. This course is under the supervisic of a NATA-certified and state of Texas-licensed athletic training program and consent of the instructor. PHED 2136 Varsity Baseball (36.0108.5128) 1 hot (0-3) 1 hot Designed for advanced baseball players competing on collegiate lev	D ki	esigned for advanced golfers competing on collegiate level. Students will be taught to apply new nowledge and skills to improve individual and team performance. An understanding of the team
Designed for advanced participants in rodeo competing on collegiate level. Students will be taught 1 apply new knowledge and skills to improve individual and team performance. An understanding of th team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor PHED 1141 Track and Field, Varsity (36.0108.5128) 1 hor Designed for advanced participants in track and field competing on the collegiate level. Students we be taught to apply new knowledge and skills to improve individual and team performance. A 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 (31.0506.7128) 1 hor 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 taping bandaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. A ethical course of action will be stressed throughout the course. This course is under the supervisic of a NATA-certified and state of Texas-licensed athletic training program and consent of the instructor. PHED 2136 Varsity Baseball (36.0108.5128) (0-3) 1 hor Designed for advanced baseball players competing on collegiate level. Students will be taught to app 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 2136 Varsity Baseball (36.0108.5128) (0-3) 1 hor Designed for advanced basketball players competing on collegiate level. Students will be taught to app new knowledge and skills to improve individual and team performan		
(0-3) 1 how Designed for advanced participants in track and field competing on the collegiate level. Students we be taught to apply new knowledge and skills to improve individual and team performance. A understanding of the team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite Consent of the instructor. 1 how PHED 1171 Athletic Training Clinical Practicum I (31.0506.7128) 1 how (1-20) 1 how 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 athletic training room Students will experience individual and team "hands on" preparation in the athletic training room students will experience individual and team ergency care, rehabilitation and related services. A ethical course of action will be stressed throughout the course. This course is under the supervisio of a NATA-certified and state of Texas-licensed athletic training program and consent of the instructor. PHED 2136 Varsity Baseball (36.0108.5128) 1 how (0-3) 1 how Designed for advanced baseball players competing on collegiate level. Students will be taught to app 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.	D a	esigned for advanced participants in rodeo competing on collegiate level. Students will be taught to oply new knowledge and skills to improve individual and team performance. An understanding of the
Designed for advanced participants in track and field competing on the collegiate level. Students w be taught to apply new knowledge and skills to improve individual and team performance. A 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 (31.0506.7128) (1-20)		
(1-20)	D b u	esigned for advanced participants in track and field competing on the collegiate level. Students wil a taught to apply new knowledge and skills to improve individual and team performance. Ar inderstanding of the team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite:
 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 athletic training room Students will experience individual and team "hands on" preparation in the athletic training room Students will experience individual and team "hands on" preparation in the athletic training room Students will experience individual and team "hands on" preparation in the athletic training room Students will experience individual and team "hands on" preparation in the athletic training room Students will be taught of precision practice preparation, competition/practice, and therapeutic settings. Students will be taught to the course 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. A ethical course of action will be stressed throughout the course. This course is under the supervisio of a NATA-certified and state of Texas-licensed athletic training program and consent of the instructor. PHED 2136 Varsity Baseball (36.0108.5128) (0-3) (0-3)<td>PHED</td><td>1171 Athletic Training Clinical Practicum I (31.0506.7128)</td>	PHED	1171 Athletic Training Clinical Practicum I (31.0506.7128)
 (0-3)	D in S p re b c	esigned to satisfy the first-year practical experience of the athletic training student. Students will be structed in documentation preparation, record keeping, and evaluation in the athletic training room tudents will experience individual and team "hands on" preparation in the areas of competition, ractice preparation, competition/practice, and therapeutic settings. Students will be taught to cognize problems and design a plan of action for services such as, but not limited to, taping andaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. Ar thical course of action will be stressed throughout the course. This course is under the supervision a NATA-certified and state of Texas-licensed athletic trainer. Lab fee required. (SCANS 2, 4, 5, 6
 Designed for advanced baseball players competing on collegiate level. Students will be taught to app 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 (36.0108.5128) (0-3) 1 how Designed for advanced basketball players competing on collegiate level. Students will be taught if 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 (36.0108.5128) (0-3) (0-3) (36.0108.5128) (0-3) (36.0108.5128) (0-3) (0-3) (36.0108.5128) (0-3) (0-3) 		• • •
 (0-3)	D n	esigned for advanced baseball players competing on collegiate level. Students will be taught to apply w knowledge and skills to improve individual and team performance. An understanding of the team
Designed for advanced basketball players competing on collegiate level. Students will be taught if 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 (36.0108.5128) (0-3)		
(0-3)	Ď	esigned for advanced basketball players competing on collegiate level. Students will be taught to oply new knowledge and skills to improve individual and team performance. An understanding of the
	PHED	2138 Golf, Varsity (36.0108.5128)
knowledge and skills to improve individual and team performance. An understanding of the tea concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor.) k	esigned for advanced golfers competing on collegiate level. Students will be taught to apply new nowledge and skills to improve individual and team performance. An understanding of the team
PHED 2139 Rodeo, Varsity (36.0108.5128)		
(0-3)	Ď	esigned for advanced participants in rodeo competing on collegiate level. Students will be taught to pply new knowledge and skills to improve individual and team performance. An understanding of the

PHED 2141 Track and Field Varsity (36.0108.5128)

(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 2171 Athletic Training Clinical Practicum II (31.0506.7228)

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. Lab fee required. (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 (31.0501.5128)

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 (31.0501.5228)

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 physical and health education and recreation; 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 physical and health education and recreation; 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 (51.0501.5128)

Provides instruction in the study of body organs and systems and health concepts and problems. Emphasis is placed on understanding the basic structure and functions of the human body, organizing and evaluating social systems for personal and community health, participating actively in projects with local public and community health systems demonstrating decision-making and problem- solving skills pertinent to delivery of social health services, and utilizing positive social characteristics when dealing with personal, public, and community health concerns. (SCANS 4, 5, 6, 9, 10) Prerequisite: None.

PHED 1306 First Aid (51.0301.5328)

Provides multimedia instruction in American Red Cross standard first aid and CPR. Covers techniques for injury assessment, bandaging and splinting, and safe transportation of injured. Emphasis is placed on individual and group skills for responsible action, decision making, and problem solving when faced with an emergency or nonemergency situation; utilization of knowledge necessary for specific injury conditions; maintenance of standards of ethical care for first aid care. Certification may be obtained in basic adult and infant/child CPR. Lab fee required. (SCANS 5, 7, 9, 10, 11) Prerequisite: None.

PHED 1308 Techniques of Officiating Sports I (12.0204.5128)

PHED 1309 Techniques of Officiating Sports II (12.0204.5128)

PHED 1321 Techniques of Coaching Sports I (31.0506.5128)

PHED 1322 Techniques of Coaching Sports II (31.0506.5128)

PHED 1331 Movement and Recreation (31.0101.5128)

PHED 1332 Game Skills for Equestrian Sports and Recreation (31.0101.5128)

PHED 1346 Drug Use and Abuse (51.0301.5228)

PHED 2278 Nutrition in Exercise and Sport (31.0501.5228)

Provides instruction in the importance of proper nutrition in regard to physical activity and specifically sports participation. Emphasis is placed on basic nutritional concepts, demonstration of basic mathematical calculations in determining caloric intake and expenditure, decision-making skills necessary for determining optimal weight and proper hydration, and demonstration of ethics and personal integrity in regards to ergogenic aids to athletic performance. (SCANS 3, 9, 10) Prerequisite: None.

PHED 2376 Prevention and Care of Athletic Injuries (51.0301.5328)

Provides instruction in the study of the athletic training room and its problems, including massage, taping, bandaging, and care of sprains, strains, and wounds common to athletic participation. Emphasis is placed on basic administrative procedures and written record-keeping skills, management of time and materials necessary for the proper function of the training room, participation and service to clients served by the athletic trainer, acquisition and evaluation of information relative to injury assessment and prevention of athletic injury, proper communication of care and rehabilitation of athletic injuries, demonstration of problem-solving and decision-making skills relative to injury care and management, and maintenance of responsibility, ethical behavior, and self limitation in the treatment of athletic injuries. (SCANS 2, 4, 5, 6, 9, 10) Prerequisite: None.

Physical Therapist Assistant

Faculty: Lynn Dammann, chair; Peggy Manning.

Summer Session II

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 educated 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 evaluative procedures.

The curriculum balances general educational and technical courses and includes supervised practicum work at 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 Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

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**

	Semester Hrs
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or higher level math	

	First Year
Firs	it Semester
	BIOL 1170 Medical Terminology
	BIOL 2401 Anatomy and Physiology I
	PSYC 2301 Introduction to Psychology
	PTAP 1301 Clinical Pathophysiology
	PTAP 1401 Introduction to Physical Therapy
Sec	ond Semester
	BIOL 2402 Anatomy and Physiology II
	GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government
	PTAP 1302 Topics in Communication and Human Development
	PTAP 1502 Fundamentals of Physical Therapy
Sun	nmer Session I
	SPCH 1321 Business and Professional Speech
	COSC 1301 Introduction to Computer Systems
Sum	nmer Session II
	PTAP 1441 Clinical Practicum I
	Second Year
Firs	t Semester
	*PHED one-hour activity course
	PTAP 2342 Clinical Practicum II
	PTAP 2401 Kinesiology
	PTAP 2601 Principles of Therapeutic Exercise
Sec	ond Semester
	PHED one-hour activity course
	PTAP 2443 Clinical Practicum III
	PTAP 2702 Topics in Rehabilitation
Tota	al Hours
*0U	IED 1100 should be the first course taken in physical education.
FIL	
	Physical Therapy Courses
	Thysical Therapy Courses
PTA	VP 1301 Clinical Pathophysiology
	(3-0)
	management, and prognoses of various pathological and injury-related problems treated in physic therapy. The ability to acquire information specific to diagnoses that affect the physical thera
	treatment setting, diseases and injuries involving the musculoskeletal and neuromuscular system
	and the need for physical therapy intervention are stressed. (SCANS 6) Corequisite: PTAP 1401.
ΡΤΔ	AP 1302 Topics in Communication and Human Development
	(3-0)
	Designed to enable students to understand systems of interaction in the health care settir
	Designed to enable students to understand systems of interaction in the health care settir Encompasses psychosocial aspects of health care; verbal, nonverbal and written communicati
	Encompasses psychosocial aspects of health care; verbal, nonverbal and written communicati
	Encompasses psychosocial aspects of health care; verbal, nonverbal and written communicati skills; patient-practitioner interaction, including working with diverse patient care situations; concer of the practitioner's self-esteem and self-management and their impact on the health care setting; a human development from birth to death with special emphasis on normal sensorimotor development
	Encompasses psychosocial aspects of health care; verbal, nonverbal and written communicati skills; patient-practitioner interaction, including working with diverse patient care situations; concept of the practitioner's self-esteem and self-management and their impact on the health care setting; a
	Encompasses psychosocial aspects of health care; verbal, nonverbal and written communicati skills; patient-practitioner interaction, including working with diverse patient care situations; concer of the practitioner's self-esteem and self-management and their impact on the health care setting; a human development from birth to death with special emphasis on normal sensorimotor development

PTAP 1401 Introduction to Physical Therapy

PTAP 1441 Clinical Practicum I

PTAP 1502 Fundamentals of Physical Therapy

PTAP 2342 Clinical Practicum II

PTAP 2401 Kinesiology

PTAP 2443 Clinical Practicum III

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

General Education Requirements	nester Hrs
deneral Euroadon negalienento inizianti inizianti inizianti inizianti inizianti inizianti inizianti inizianti i	50
COSC 1415 Introduction to Computer Science	
ENGL 1301 Composition and Rhetoric	(
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	3
Foreign language sequence 1411, 1412, 2311, 2312	14
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	(
HIST 1301 U. S. History to 1877	3
HIST 1302 U. S. History from 1877	3
*MATH 2313 Calculus I	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2320 Differential Equations	3
**PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking	3
Major Requirements	8
PHYS 2425 Engineering Physics 1	4
PHYS 2426 Engineering Physics II	

*Prerequisite to MATH 2313 should be taken during the summer prior to freshman enrollment. Students with strong mathematics background should consider advanced standing examinations. **PHED 1100 should be the first course taken in physical education.

PHYS 1401 College Physics I (40.0801.5339)

PHYS 1402 College Physics II (40.0801.5339)

PHYS 2425 Engineering Physics I (40.0801.5439)

PHYS 2426 Engineering Physics II (40.0801.5439)

PHYS 2427 Engineering Physics III (40.0801.5439)

Psychology and Sociology

Faculty: Don Jacobs, chair; Jane Hellinghausen, Carla Wells.

The psychology/sociology department offers freshman- and sophomore-level courses in psychology and sociology with a wide selection for both disciplines. The science of psychology studies human development and behavior, learning, thinking and mood states, gender differences, and relationships. Students are introduced to methodology, critical thinking, and application of psychological principles to everyday life. Career paths offer students a wide selection of occupations including neuropsychology, clinical practice, research, teaching, industrial/organizational and communications. Psychology majors may choose between an associate of arts (A.A.) or an associate of science (A.S.) degree.

The science of sociology studies the multitude of social and cultural influences that are significant to the development of the individual over his/her lifetime. Group dynamics, marriage and family living, juvenile delinquency, race and ethnicity, relationship dynamics and human sexuality empower the student with a wide application of sociological methodology. Career paths offer students many opportunities in government, business, academia, law enforcement, communications, public and/or private research, medical and gerontological occupations.

Psychology/sociology majors are encouraged to organize their degree plans with the assistance and advice of the department chair and academic counselors. It is the responsibility of the student to forecast the transferability of his/her degree plan to the university setting.

Course of Study for Associate in Arts Degree Psychology or Sociology

Semester Hrs HIST 1301 U.S. History to 1877 3 **PHED 1100 should be the first course taken in physical education.

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

М

Psychology Option

	Semester Hrs
ajor Requirements	
PSYC 2301 Introduction to Psychology	
PSYC 2302 Applied Psychology	
PSYC 2308 Child Psychology	
SOCI 1301 Principles of Sociology	
••••••••••••••••••••••••••••••••••••••	

Sociology Option

•••••• 3 , ••••••	Semester Hrs	6 30
Major Requirements	12	
SOCI 1301 Principles of Sociology	3	100
SOCI 1301 Principles of Sociology SOCI 1306 Social Problems		Ċ.
SOCI 2326 Social Psychology		11-1
SOCI 2326 Social Psychology PSYC 2301 Introduction to Psychology	3	
Total Semester Hours	65	Ű

-

6

2

*The following electives may be substituted for above courses to accommodate the transferring institution: Sociology Electives: SOCI 2301 Sociology of the Family, SOCI 2306 Human Sexuality, SOCI 2371 Fundamental Research Design.

Course of Study for Associate in Science Degree Psychology

	Semester Hrs
General Education Requirements	
BIOL 1406 General Biology I	
BIOL 1407 General Biology II	
CHEM 1311/1111 General Inorganic Chemistry I	
Fundamentals of Chemistry Lab I	
CHEM 1312/1112 General Inorganic Chemistry II	
Fundamentals of Chemistry Lab II	
COSC 1415 Introduction to Computer Science	
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 1314 College Algebra or more advanced	
MATH 1342 Mathematical Statistics	
*PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech	
Major Requirements	
PSYC 2301 Introduction to Psychology	
PSYC 2302 Applied Psychology	
PSYC 2308 Child Psychology	
SOCI 1301 Principles of Sociology	
Total Semester Hours	-

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

PSYCHOLOGY AND SOCIOLOGY

Course of Study for Associate in Science Degree Sociology

	Semester Hrs
General Education Requirements	
BIOL 1406 General Biology I	
BIOL 1407 General Biology II	4
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	
COSC 1415 Introduction to Computer Science	
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 1314 College Algebra or higher level math	
MATH 1342 Mathematical Statistics	
*PHED (any two one-hour activity courses)	2
SPCH 1321 Business and Professional Speech	
Major Requirements	
SOCI 1301 Principles of Sociology	
SOCI 1306 Social Problems	
SOCI 2326 Social Psychology	
PSYC 2301 Introduction to Psychology	
Total Semester Hours	64

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

Psychology Courses

PSYC 2301 Introduction to Psychology (42.0101.5140)

PSYC 2302 Applied Psychology (42.0101.5240)

PSYC 2306 Human Sexuality (42.0101.5342)

PSYC 2308 Child Psychology (42.0701.5140)

PSYC 2315 Psychology of Adjustment (42.0101.5640)

PSYC 2319 Social Psychology (42.1601.5142)

PSYC 2340 Current Issues in Psychology (formerly PSYC 2371) (42.0101.5540)

Sociology Courses

SOCI 1301 Principles of Sociology (45.1101.5142)

SOCI 1306 Social Problems (45.1101.5242)

PSYCHOLOGY AND SOCIOLOGY - RADIOLOGIC (X-RAY) TECHNOLOGY 231 SOCI 2301 Sociology of the Family (45.1101.5442) Emphasizing cultural, class and racial diversity, the course examines various dynamics of marriages, families and other intimate relationships. Course includes an introduction to theories, concepts and research methods used in the sociological study of marriages and families. Love and mate selection; sexuality, reproduction and birth; communication and conflict; and divorce and marriage are among many of the issues covered. (SCANS 2, 5, 6, 9, 10, 11) Prerequisite: None. SOCI 2306 Human Sexuality (42.0101.5342) An in-depth study of human sexuality across the life cycle utilizing legal, ethical, sociological, biological and psychological perspectives. Course incorporates current research and theories to explore the impact of social and cultural expectations on human sexual behavior. (SCANS 6, 9, 10, 11) Prerequisite: None. SOCI 2326 Social Psychology (42.1601.5140) 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: None. SOCI 2371 Fundamental Research Design 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. (SCANS 6, 7, 8) Prerequisites: MATH 1342 or MATH 1314; PSYC 2301 or SOCI 1301. Offered only in spring semester of even-numbered years. Radiologic (X-Ray) Technology Faculty: Sue Leach, chair; Johnna Davila, 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 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. Prior to entering the clinical practicum portion of the program, students are required to complete a physical examination which includes drug screening. Background checks are required on all students.

Applicants or other interested persons seeking additional information should contact the radiologic technology program director or the counseling center at the college. Prospective students are 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

Aaulologic Technology	
ummer Session II	Comontas Ura
MATH 1332 Structures of College Mathematics or higher level math	Semester Hrs
XRAY 1304 Introduction to Radiologic Technology	3
XRAY 1304 Infoduction to Radiologic Fechnology	
First Year	
rst Semester	
BIOL 2404 Human Anatomy and Physiology	
XRAY 1111 Radiographic Positioning II	1
XRAY 1221 Clinical Practicum I	
XRAY 1301 Patient Care and Pathology for Radiographers	3
XRAY 1401 Radiographic Physics	
econd Semester	
ENGL 1301 Composition and Rhetoric	
*PHED 1100 Lifestyle Assessment and Modification	
XRAY 1112 Radiologic Positioning III	
XRAY 1322 Clinical Practicum II	
XRAY 1402 Principles of Radiographic Exposure	
אראד דייטב ד וווטוויפט טו המטוטעומדווע בגעטטעוס	
Summer Sessions	
ummer Session I	
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	
XRAY 1323 Clinical Practicum III	
ummer Session II SPCH 1321 Business and Professional Speech	c
Second Year	
irst Semester	
COSC 1301 Introduction to Computer Systems	
PHED (one-hour activity course)	
XRAY 2201 Special Imaging	
XRAY 2321 Clinical Practicum IV	
XRAY 2401 Advanced Radiographic Procedures	4
econd Semester	
XRAY 2202 Department Design and Operation	
XRAY 2322 Clinical Practicum V	
XRAY 2402 Radiation Biology and Pathology	
Approved Elective	
summer Session I	
XRAY 2323 Clinical Practicum VI	
otal Hours	70
	f Z
PHED 1100 should be the first course taken in physical education.	0.01 7 0000
*Approved electives: PSYC 2301, SOCI 1301, HIST 1301 or HIST 1302, GOVT 2301 or ENGL 1302.	GOVI 2302 or

	Radiologic Technology Courses
XR/	AY 1111 Radiographic Positioning II (0-4)1 hour
	Competencies include discussion and demonstration of standard radiographic 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 to read, understand and demonstrate understanding of positioning materials by selecting necessary equipment and producing standard radiographs on radiographic phantoms. Students evaluate and correct performance following a discussion with the instructor identifying the problem and solution. Students will participate in teams demonstrating their ability to work with diversity, exercise leadership and teach others new skills. Lab fee required. (SCANS 1, 5, 6, 7, 8, 9, 10, 11) Prerequisite: XRAY 1314 or consent of the department chair. Corequisites: XRAY 1221, XRAY 1301 and XRAY 1401.
XR/	AY 1112 Radiographic Positioning III
	(0-3)
XR/	AY 1221 Clinical Practicum I
	(0-16)
XR/	AY 1301 Patient Care and Pathology for Radiographers
	(3-0)

XRAY 1304 Introduction to Radiologic Technology

Introductory course in which student must acquire and communicate information regarding the field of radiologic technology, professional ethics, darkroom procedures, medical terminology, prime exposure factors and technical factors of film quality. Students must listen and speak well enough to participate in group discussions. Requires locating, understanding and interpreting written information in prose and in graphs, developing narratives to explain graphs, and performance of basic calculations. Introduces basic physics of X-ray equipment and auxiliary devices. Student learns to consider risks to patients and others and chooses best alternatives in regard to basic radiation protection. (SCANS 1, 2, 3, 6, 9, 10) Prerequisite: None.

XRAY 1314 Radiographic Positioning I

Presents fundamentals of radiographic positioning and terminology used to describe radiographic projections. Competencies include discussion and demonstration of standard radiographic positioning of the upper and lower extremities to include film critique (film evaluation regarding anatomy, positioning and technical factors). Includes radiographic demonstration of common pathologies of the extremities with a discussion of technical compensation. Student is required to read, understand and demonstrate understanding of positioning materials by selecting necessary equipment and producing standard radiographs on radiographic phantoms. Students evaluate and correct performance following a discussion with the instructor identifying the problem and solution. Students will participate in teams demonstrating their ability to work with diversity, exercise leadership and teach others new skills. Lab fee required. (SCANS 1, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.

XRAY 1322 Clinical Practicum II

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 the student to meet patients' needs. Competencies include: production of standard radiographs of the chest, abdomen, and upper and lower extremities with indirect supervision (post-competency), 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

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 catheterization. (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: XRAY 1322 or consent of the department chair.

XRAY 1401 Radiographic Physics

Analyzes physical principles related to matter, energy, basic electricity, magnetism, induction principles and transformers, basic X-ray circuits, methods of rectification and construction of X-ray accessories. Presents physical principles of X-ray production, interaction of X-rays in matter and methods of X-ray detection and measurement. Students must be able to locate, understand, and interpret written information regarding the above in prose and in graphs, communicate written thoughts, perform basic calculations, and organize and maintain the information presented in this course. Preventive maintenance, electrical safety and troubleshooting equipment are presented. The student must listen and communicate well. (SCANS 1, 2, 3, 6, 8, 11) Prerequisite: XRAY 1304. Corequisites: XRAY 1111 and XRAY 1221.

XRAY 1402 Principles of Radiographic Exposure

Presents characteristics of radiographic film construction, (locate, understand, and interpret written information in prose and graphs and create graphs with narrative to explain graph), design of radiographic darkrooms and automatic processing techniques. Troubleshooting of equipment is also included. Includes advanced radiographic principles such as review of prime exposure factors (requires decision making and problem solving), technique formation (requires performing basic calculations), body section radiography and conditions influencing radiographic exposure. Emphasizes radiation protection (consider risks to patients and others and choose best alternatives) and image quality. Teaches the students the components of the radiographic image and helps them to understand how components of imaging system affect the image. Requires two laboratory hours per week. Lab fee required. (SCANS 1, 2, 3, 6, 7, 8, 9) Prerequisite: XRAY 1401 or consent of the department chair. Corequisites: XRAY 1112 and XRAY 1322.

XRAY 2201 Special Imaging

Presents cross-sectional anatomy, male and female studies, pediatric radiography, ultrasound and magnetic resonance imaging. Includes complete review of anatomy systems and procedures, topographic anatomy, routine diagnostic positioning requiring communication of written thoughts and information. Includes film critique with reading of patient records for diagnosis. (SCANS 1, 2, 6) Prerequisite: XRAY 1112 or consent of the department chair. Corequisites: XRAY 2401 and XRAY 2321.

XRAY 2202 Department Design and Operation

Presents evaluation and correction of film fault, processing errors and exposure factors in producing radiographs of optimum quality. Emphasizes quality assurance concepts. Discusses equipment maintenance, equipment troubleshooting, and departmental design and administration. Explores innovative techniques of imaging. Student must locate, understand and interpret written information in prose and graphs and communicate written thoughts effectively. (SCANS 1, 2, 6, 7, 9) Prerequisite: XRAY 2201 or consent of the department chair. Corequisites: XRAY 2402 and XRAY 2322.

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 the student to meet patients' 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 catheterization, 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 2322 Clinical Practicum V

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: 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 the 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: ultrasound, nuclear medicine, radiation therapy and quality assurance. (SCANS 1, 4, 5, 8, 11) Prerequisite: XRAY 2321 or consent of department chair. Corequisites: XRAY 2202 and XRAY 2402.

XRAY 2323 Clinical Practicum VI

XRAY 2401 Advanced Radiographic Procedures

XRAY 2402 Radiation Biology

Reading

Faculty: Pam Williamson, chair; Mona Sandlin, paraprofessional.

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

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

These courses implement multimedia, including computerized instruction, and support the philosophy that a person's ultimate reading potential is never reached. Because effective study skills predominately 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 student they may be, can improve their reading skills.

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. Students who enroll for Basic English (0370) and have not taken and passed the reading section of TASP must enroll in a reading class. Students should check their TASP liability before enrolling in reading.

READ 0371 Basic Reading (32.0108.5235)

READ 0372 College Reading (32.0108.5235)

READ 0373 Advanced College Reading (32.0108.5235)

College Reading Techniques

The college reading techniques course provides an alternative reading program with structured, individualized, self-paced instruction in a multimedia and multilevel environment that includes computer instruction. Regardless of present reading ability, students can expect to increase vocabulary and reading rate, and improve comprehension. Effective study techniques offer opportunities to improve performance in both academic and vocational-technical courses. This course also is offered for non-credit for students who have completed the fifth grade and beyond.

Diagnostic tests are administered 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 in person immediately upon registration to arrange meeting times for this one-hour flexible entry course.

READ 0171 Improving Reading Skills (32.0108.5235)

(0-2)1 hour Introduces self-paced, individualized instruction in a multimedia environment which is designed to teach the student efficient reading techniques. Students establish habits that result in increased success in learning in both the classroom and job environments, which ultimately can result in higher self-esteem. Through independent learning activities, the student learns to validate his understanding of reading materials, increase vocabulary with various written activities and gain in individual reading rates. Lab fee required. (SCANS 1, 4, 7, 10) Prerequisite: None.

Refrigeration/Air Conditioning (see Heating, Ventilation and Air Conditioning)

Religion (see Social Sciences)

Respiratory Care

Faculty: Shelia Butler, chair; Tonya Edwards, clinical coordinator; 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 dearee

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 in 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 and pass a hospital physical. 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

Sumn		
	ner Session II	Semester Hrs
	ENGL 1301 Composition and Rhetoric	
	MATH 1332 Structures of College Mathematics or higher level math	
	Semester	
	BIOL 2401 Anatomy and Physiology I	
	*PHED 1100 Lifestyle Assessment	
	RESP 1111 Clinical Practice I	
	RESP 1301 Respiratory Care Sciences	
	RESP 1400 Fundamentals of Respiratory Care I	
9	SPCH 1321 Business and Professional Speech	
	nd Semester	
	BIOL 2402 Anatomy and Physiology II	
	COSC 1301 Introduction to Computer Systems	
	RESP 1115 Respiratory Pharmacology	
	RESP 1405 Fundamentals of Respiratory Care II	
	RESP 1322 Clinical Practice II	
ſ	RESP 1332 Cardiopulmonary Pathophysiology	
	ner Sessions	
	RESP 1310 Fundamentals of Respiratory Care III	
I	RESP 1333 Clinical Practice III	
	Second Year	
	Semester	
(GOVT 2301 U.S. and Texas Government or	
	GOVT 2302 American National Government	
	PHED (any one-hour activity course)	
	RESP 2315 Advanced Patient Assessment	
	RESP 2352 Clinical Practice IV	
i	RESP 2364 Neonatal/Pediatric Respiratory Care	
	h Semester	
	BIOL 2420 Microbiology	
	PSYC 2301 Introduction of Psychology	
	RESP 2320 Advanced Respiratory Care	
ł	RESP 2362 Clinical Practice V	
Total	Hours	
*PHEI	D 1100 should be the first course taken in physical education.	:

Respiratory Therapy Technician

First Year

Summer Session II	
Se	mester Hrs
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics or higher level math	3

First Semester BIOL 2401 Anatomy and Physiology I 4 *PHED 1100 Lifestyle Assessment and Modification 1 RESP 1111 Clinical Practice I 1 RESP 1400 Fundamentals of Respiratory Care I 4 RESP 1301 Respiratory Care Sciences 3 SPCH 1321 Business and Professional Speech 3
Second Semester
BIOL 2402 Anatomy and Physiology II 4
COSC 1301 Introduction to Computer Systems
RESP 1115 Respiratory Pharmacology 1
RESP 1322 Clinical Practice II
RESP 1332 Cardiopulmonary Pathophysiology 3
RESP 1405 Fundamentals of Respiratory Care II
Summer Session
RESP 1310 Fundamentals of Respiratory Care III 3
RESP 1333 Clinical Practice III
Total Semester Hours

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

Respiratory Care Courses

RESP 1111 Clinical Practice I

RESP 1115 Respiratory Pharmacology

RESP 1301 Respiratory Care Sciences

RESP 1310 Fundamentals of Respiratory Care III

RESP 1322 Clinical Practice II

RESP 1332 Cardiopulmonary Pathophysiology

RESP 1333 Clinical Practice III

RESP 1400 Fundamentals of Respiratory Care I

RESP 1405 Fundamentals of Respiratory Care II

RESP 2315 Advanced Patient Assessment

RESP 2320 Advanced Respiratory Care

RESPIRATORY CARE - SOCIAL SCIENCES

RESP 2352 Clinical Practice IV

RESP 2362 Clinical Practice V

RESP 2364 Neonatal/Pediatric Respiratory Care

Safety (see Occupational Safety and Health Technology)

Social Sciences

Faculty: Dr. Dick Kennedy, chair; Dr. Brian Dille, Daphne Eastman, Glen Findley, Dr. Tom Heiting, Truett Hilliard, Mike Myers, Robert Porter, Dr. Bill Rutherford.

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 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.

~
_
-
-
-
فک
÷
-
-
Ű
فنست
Ŵ
فسنان
فننف
-
-
نین
نی
ن ا
۳
Ŵ
-
*
.
•
ي ا
-

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

**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 2301 Principles of Economics I (Macro) (45.0601.5142)

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) (45.0601.5142)

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 (45.1002.5142)

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.

244	SOCIAL SCIENCES
GOVT 2302 Ame	rican National Government (45.1002.5142)
Disseminate Congress, th policy issues This course	3 hours s information and interprets the institution of government including the presidency, the courts and bureaucracy of the U.S. government. Includes study of domestic and foreign s such as managing the economy, national defense, welfare, civil liberties and civil rights. does not satisfy the government requirement for teacher certification by the Texas gency. (SCANS 6) Prerequisite: None.
	History Courses
HIST 1301 United	I States History to 1877 (45.0802.5142)
Organizes, in rise of Ameri	nterprets, and evaluates the European background, establishment of colonial foundations can nationality, growth and sectional crisis, and the Civil War and Reconstruction. (SCANS uisite: None.
	I States History from 1877 (45.0802.5142)
Deals with the evaluation of	and prospective solutions. (SCANS 6, 9) Prerequisite: None.
	y of Texas (45.0802.5242)
Organizes a French rival Revolution,	A hours nd interprets the history of Texas. Stresses European approach to Texas, Spanish and ry, exploration and control, Anglo-American colonization, relations with Mexico, Texas Texas as a republic, annexation, statehood, reconstruction and other political and evelopments. (SCANS 6, 9) Prerequisite: None.
	y of Modern Europe to 1815 (45.0801.5442)
Surveys and Europe. Em 17th centurie	3 hours 3 interprets the social, economic and political developments in Medieval and Modern phasizes the Renaissance, Protestant Reformation, overseas expansion during 16th and ss, struggle for parliamentary government in England, French Revolution and Napoleonic ANS 6) Prerequisite: None.
HIST 2312 Histor	y of Modern Europe Since 1815 (45.0801.5442)
Includes an	interpretation and evaluation of the Napoleonic era, rise of liberalism and nationalism results of World War II, postwar problems and prospective solutions. (SCANS 6, 9)
	American History (45.1101.5342)
Organizes a	nd interprets the role and contributions of Afro-Americans to development and culture o tates. (SCANS 6) Prerequisite: None.
	Philosophy and Religion Courses
	uction to Philosophy I (38.0101.5135)
Presents an questions at students see	3 hours adventure in ideas including the interpretation of those ideas. Asks anew ultimate bout the significance of life. With insights gleaned from world's greatest philosophers, ek to clarify own ideas and beliefs concerning themselves, their world and their ultimate cal thinking is an important component of this course. (SCANS 6, 9) Prerequisite: None.

	SOCIAL SCIENCES - SPEECH 24
PHIL	2306 Introduction to Philosophy II (Ethics) (38.0101.5335)
	(3-0)
	1171 Acts of the Apostles
	(1-0)1 ho Communicates and interprets expansion of Christian beliefs, practices and fellowships from Palestir to outlying parts of the Roman Empire. Includes personality study of Peter, John, Paul and oth apostles. (SCANS 6) Prerequisite: None.
	1372 Old Testament History
	(3-0)
	1373 New Testament History
	(3-0)
BIBL	2371 History of the Life of Christ
	(3-0)
	2372 The Life and Letters of Paul
	(3-0)
So	ciology (see Psychology and Sociology)
Sp	anish (see English and Foreign Languages)
Sp	eech
Facu	ty: Darlyne Ervin, chair; J. Deanne Causey, Vicki Patrick, Joe Willis.
indus	The speech department recognizes that effective communication is an essential skill in colleg try and daily life. Students must be able to organize their ideas logically, adapt those ideas to the

industry and daily life. Students must be able to organize their ideas logically, 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	
	Semester Hrs
General Education Requirements	45
COSC 1301 Introduction to Computer Science	
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign language 1411 and 1412	
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	
*PHED (any two one-hour activity courses)	
Science (two sequential semesters of a laboratory science)	
Major Requirements COMM 1307 Introduction to Mass Communication <u>or</u> COMM 1335 Survey of Radio ar COMM 2331 Announcing for Radio and Television	nd Television 3
Total Semester Hours	64
*PHED 1100 should be the first course taken in physical education.	
** This laboratory prepares students for intercollegiate participation in various speech con tournament participation for credit to be earned. Prerequisite: None.	ntests. Requires

Speech Courses

SPCH 1144, 1145, 2144, 2145 Forensics Laboratory (23.1001.6035)

SPCH 1311 Introduction to Speech Communication (23.1001.5135)

SPCH 1315 Public Speaking (23.1001.5335)

SPCH 1321 Business and Professional Speech (23.1001.5235)

SPCH 2335 Argumentation and Debate (23.1001.5935)

SPCH 2341 Introduction to Oral Interpretation (23.1001.5735)

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 sterile instruments and supplies, 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. A course in first aid also is completed. During the second semester, applied psychology is presented, 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 and a program application by the July 15 deadline. Prerequisites to the program include: BIOL 2401, Anatomy and Physiology I; BIOL 2402, Anatomy and Physiology II (completed within the last five years); official high school transcript or GED; and satisfactory scores on the Allied Health Aptitude Test. Also included are a current CPR certification in Basic Life Support from the American Heart Association or the American Red Cross Basic Life Support for Professionals.

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 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.

The student is expected to have proof of professional liability insurance through the college and current health and accident insurance.

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 Accreditation of Allied Health Education Programs (CAAHEP).

Students wishing to apply for admission or other persons seeking additional information should contact the Counseling Center at Odessa College.

	Associate in Applied Science Degree Surgical Technology
	Surgical Technology Semester Hrs
rerequisite Courses	
BIOL 2401 Anatomy and Physiological BIOL 2401 Anatomy and Physiological BIOL 2401 Anatomy and Physiological Anatomy	ogy4
	ogy 4
rst Semester	First Year
BIOL 1170 Medical Terminology	
	Clinical I
SURG 1612 Introduction to Surgi	cal Techniques6
econd Semester	
PSYC 2302 Applied Psychology.	
SURG 1613 Principles of Surgica	al Technology
SURG 1614 Surgical Technology	Clinical II
ummer Session I	
SURG 1615 Surgical Technology	Clinical III
	Second Year
irst Semester	
BIOL 2420 Microbiology	
ENGL 1301 Composition and Rh	etoric
GOVT 2301 U.S. and Texas Gov	ernment or GOVT 2302 American National Government
MATH 1332 Structures of College	e Mathematics <u>or</u> higher level math
-	
econd Semester	
COSC 1301 Introduction to Com	puter Systems
ENGL 1302 Composition and Lite	erature
PRED one-nour activity course	10logy
SPCH 1321 Business and Profes	sional Speech or SPCH 1315 Public Speaking
	· · · ·
PHED 1100 should be the first course	
	dy for Certificate of Technology el II - Surgical Technology
Prerequisite Courses	Semester Hrs
BIOL 2401 Anatomy and Physiol	ogy 4
BIOL 2402 Anatomy and Physiol	oğy 4
rst Semester	
PHED 1306 First Aid	
SURG 1411 Surgical Technology	Clinical I
SURG 1612 Introduction to Surg	ical Techniques
econd Semester	
PSYC 2302 Applied Psychology.	
SURG 1613 Principles of Surgica	al Technology
SURG 1613 Principles of Surgica	al Technology
SURG 1613 Principles of Surgica	al Technology
SURG 1613 Principles of Surgica SURG 1614 Surgical Technology ummer Session I	al Technology

Surgical Technology Courses

SURG 1411 Surgical Technology Clinical I

SURG 1612 Introduction to Surgical Techniques

SURG 1613 Principles of Surgical Technology

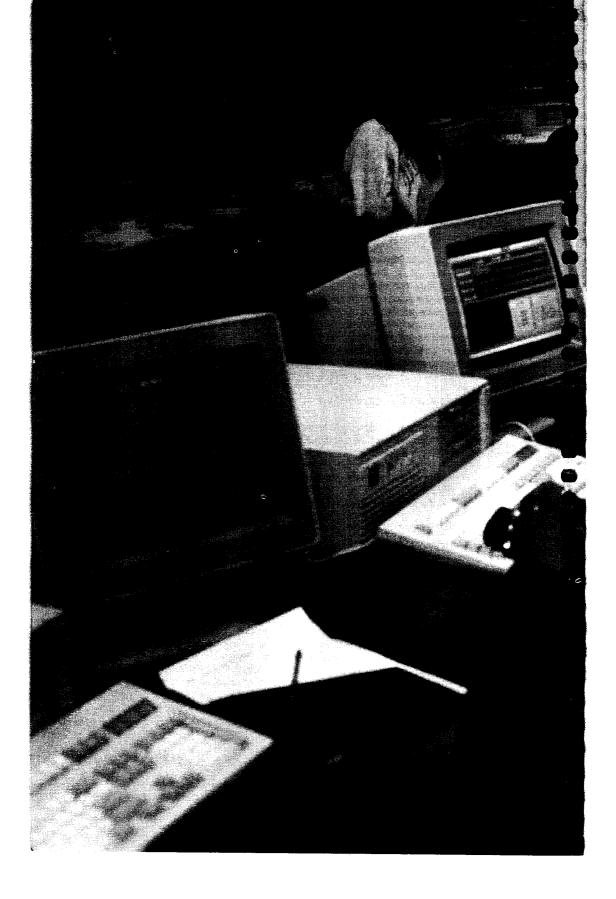
SURG 1614 Surgical Technology Clinical II

SURG 1615 Surgical Technology Clinical III

Vocational Nursing (see Nursing)

Welding Technology (see Metal Trades)

X-Ray Technology (see Radiologic Technology)





contents

FALLIN, FRANCIS ALCON

artista and a set of a set of

1.10

0-0-0-0-0-0-0

Board of Trustees 252)
Administration 252	?
Student Life 252	?
Support Staff 253	3
Department and Program Chairs 255	,
Faculty 250	5

Faculty and Staff

Board of Trustees

Davis Cisneros James H. Gilliland Ralph McCain Bruce Shearer Joe Zant, Jr. David Dunn Gary S. Johnson Sandra Shaw Walter D. Smith

•

Administration

Vance W. Gipson, A.A., B.S., M.A., Ed.D	President
Miles A. Eckert, B.S., M.Ed., Ed.D.	Executive Vice President for Instruction
	Vice President for Student Life
	Vice President for Business Affairs
	Dean of Institutional Research and Effectiveness
	Assistant to the President
	Director of Grants Development and Federal Projects

Deans

Dealis	
Ralph Ford, B.S., M.A., Ed.D	Dean of Enrollment Management and
	Student Services/Director of Title III Activities
Roy H. Hart, C.C., B.S., M.Ed., Ed.D	Dean of Administration
Roger Manning, B.S., M.S.W., Ph.D	Dean of Technical Studies and Curriculum
Sue Pardue, B.A., M.A., Ph.D	Dean of Continuing Education
Shirley Payne, B.B.A., M.B.E., Ed.D	Dean of Learning Resources and Developmental Education
Ned Pilcher, B.A., M.A.	
	Dean of Science and Health
Sue Pardue, B.A., M.A., Ph.D. Shirley Payne, B.B.A., M.B.E., Ed.D. Ned Pilcher, B.A., M.A.	Dean of Continuing Education Dean of Learning Resources and Developmental Education

Student Life

Admissions Joanne Lyle, A.A., B.A., M.A	Director of Admissions
Registrar	
	Registrar and Records Management Officer Assistant Registrar
Athletics	
Jim Carlson, B.S., M.Ed.	Director of Intercollegiate Athletics, Recreation/Athletic Trainer and Chair of Physical Education
Paul Chavez, B.S.	Golf Coach
	Assistant Women's Basketball Coach
	Director of Community Recreation
	Men's Academic Advisor/Assistant Men's Basketball Coach
Stephanie Thomas, B.S., M.S.	Women's Basketball Coach
Wayne Turley, B.S	Sports Center Director
	Women's Track Coach
Rick Zimmerman, B.S., M.S.	Baseball Coach
Continuing Education	
Denise Edmiston, B.S., M.S	Technical Supervisor, Ector County Breath Alcohol Program
	Computer Lab Instructor
Fred Gibson, B.B.A.	Director of Business Development/Business Incubator Manager
1	

SUPPORT STAFF 25	STUDENT LIFE - SUPPORT STA	
ESOL Instructo	Jannika Anderson, B.A., M.A.	
JOBS Coordinato		
Director of Community Service	Martha Kunkel, B.F.A.	
Director of Allied Healt	Arleene Loyd, B.F.A.	
ESL Lab Coordinato		
Director of Occupational Program		
Director of Adult Education	John Tucker, B.A.	
	Student Development	
Director of Student Developmen		
Counselo	Rodney Hernandez, B.B.A., M.Ed	
Counselo	Terri Pease, B.A., M.A.	
Counselo	LaRae Phillips, B.M.Ed., M.Ed.	
Counseling Associate		
Director of Career Service	Laura E. Hansen, A.A., B.A., M.A	
Special Projects Coordinato		
	Enrollment Management	
Coordinator of Student Activitie		
Coordinator of Student Recruiting	_aci Box, B.S., M.A	
Director of Testing and Assessmen		
Title III Student Assessment Tracking Specialis	Criselda Marquez, B.A., M.Ed.	
	Media Relations and Publications	
Director of Media Relations and Publications	Susan Hammons, B.A., M.A	
Graphic Designe	Sharon Wicks	
	Student Financial Services	
Director of Student Financial Service	Tanya Hughes, B.B.A	
Assistant Director of Student Financial Service	eslie Neiman, B.S.	
	Student Support Services	
Director of Student Support Services		
Counselo	Arthur Brownell, B.S., M.Ed., Ph.D.	
Academic Specialis	Karen Ellis, B.A.	
	Upward Bound	
Director of Upward Bound		
Academic Coordinato	Dawnyela Meredith, B.S.	

أست ثي

ر ا -

Support Staff

``	Accounting Kristi Gibbs, B.B.A.	Accounting Officer
است است	Bookstore Sammie Molder, A.A.	Bookstore Manager
-	Business Office Roxana Patton, A.S., B.B.A.	Controller
~	Linda James	Grants Accountant
	Campus Police	Chief of Compute Delige
-	Alfredo Fonseca, A.A.	Chief of Campus Police

Children's Center	
Lucinda Hurlbut B.S.	Co-director of Children's Center
Sharan Omachal A A S	Co-director of Children's Center
Sharon Olhachel, A.A.S.	
Developmental Education	
Russell Haynes, M.A.	
Human Resources	
Sharon Claunch, A.A.	Payroll Specialist
	Insurance Specialist
Informational Services	
	Director of Informational Services
	Computer Operator
	Senior Systems Analysi
April Falkner, A.A.S.	Programmer/Analys
Instructional Television	
Brian K. Dille, B.A., M.A., Ed.D.	Director of Instructional Television
KOCV-FM/TV Public Broadcasting	
	General Manage
	Chief Engineer
	Television Station Manager
	Radio Station Manager
Russell McBride	Traffic Director
Pamela Six, B.M.E.	Development Director
Delores Stokes	Programming and Production Director
Learning Resources Center	
Denise Bachman, B.A., M.L.S.	Head of Technical Services
Lee Butler, B.A., M.A.	Computer Services Techniciar
David Carson, B.A., M.S.	Head of Media and Computer Services
	Director of Library Services
	Serials Librariar
	Graphic Artisi
oosii otening	
-	
Off-Campus Programs	Co.Director of Off Compute Presson
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A.	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A.	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A Bob Mobley, B.A., Ph.D Physical Plant	Co-Director of Off-Campus Program
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A Bob Mobley, B.A., Ph.D Physical Plant	Co-Director of Off-Campus Programs
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A Bob Mobley, B.A., Ph.D Physical Plant Bob Chastain, A.A.S	Co-Director of Off-Campus Programs
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith	Co-Director of Off-Campus Programs Director of Physical Plan
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith	Co-Director of Off-Campus Programs Director of Physical Plan
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya Philip Stell, A.A.S.	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya Philip Stell, A.A.S.	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya Philip Stell, A.A.S. Tech-Prep	
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya Philip Stell, A.A.S. Tech-Prep Roger Manning, B.S., M.S.W., Ph.D.	Co-Director of Off-Campus Programs Co-Director of Off-Campus Programs Director of Physical Plant Adminstrative Assistant Custodial Supervisor Director of Building Services Director of Building, Grounds and Maintenance Construction Supervisor Grounds Supervisor
Off-Campus Programs Beverly Forsyth, A.A., B.A., M.A. Bob Mobley, B.A., Ph.D. Physical Plant Bob Chastain, A.A.S. Lucy Griffith Al Almadova Mark Cortez Bryan Heifner Lionel Loya Philip Stell, A.A.S. Tech-Prep Roger Manning, B.S., M.S.W., Ph.D.	Co-Director of Off-Campus Programs Director of Physical Plant Adminstrative Assistant Custodial Supervisor Electrical, HVAC, Plumbing Supervisor Director of Building Services Director of Building, Grounds and Maintenance Construction Supervisor Grounds Supervisor

Department and Program Chairs

Department and Pro	
Agriculture Anthropology	Dr. I G Inoi
ArtAutomotive Technology	<i>i i i</i>
Biology	
Building Trades	
Business Administration	
Chemistry	Dr. E. Don Ta
Child and Parent Development	
Clinical Laboratory Sciences	
Computer Information Systems	
Computer Science	
Cosmetology	
Culinary Arts	
Diesel Technology	
Developmental Education	
Drafting	
Economics	
Education, Elementary and Secondary	
Electrical & Electronics	Danny Ba
Emergency Medical Technology	
Engineering	
English	
Fire Technology	
Foreign Languages	
Geography	
Geology	
Government	
Heating, Ventilation and Air Conditioning	
History	
Human Services	
Instructional Television	
Law Enforcement/Criminal Justice	
Legal Assistant	
Machine Technology	
Maintenance Technology	
Management	
Mass Communication	
Mathematics	
Music	
Nursing, Odessa College Campus	
Nursing, Odessa College Evening Program	
Nursing, Andrews Vocational Program	
Nursing, Monahans Vocational Program	
Occupational Safety and Health Technology	J.D. Rot
Off-Campus/Distance Education	
Office Systems Technology	Nancy Ste
Petroleum Technology	
Philosophy	Dr. Dick Kenr
Photography	
Physical Education	
Physical Therapist Assistant	
Physics	
Psychology	
Radiologic Technology	
Reading	

DEPARTMENT AND PROGRAM CHAIRS - FACULTY

Religion	Dr. Dick Kennedy
Respiratory Care	Shelia Butler
Social Sciences	Dr. Dick Kennedy
Sociology	Don Jacobs
Speech	Darlyne Ervin
Surgical Technology	
Welding	Galen Ballard

Faculty

Carolyn Amiet

Instructor of Biology, B.A., Ohio University; M.Ed., University of Central Oklahoma

Tambi L. Arnold

Instructor of Office Systems Technology, A.A.S.,South Plains College; B.B.A., University of Texas of the Permian Basin

Danny Bailey

Department Chair and Assistant Professor of Electrical/Electronics Technology, B.S., Wayland Baptist University; M.A., University of Texas of the Permian Basin

Galen Ballard

Department Chair and Associate Professor of Metal Trades Technologies, A.A.S., Odessa College; B.S., Devry Institute

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

Patricia Ann Bayless

Department Chair and Assistant Professor of Vocational Nursing, Andrews, A.S.N., University of Maine

Sylvia Blain

Associate Professor of Cosmetology, A.A.S., Odessa College

Marylin M. Boomer

Instructor of Nursing, B.S.N., Texas Tech University Health Sciences Center

Carol Boswell

Department Chair and Professor of Nursing, B.S.N., M.S.N., Texas Tech University Health Sciences Center; Ed.D., Texas Tech University

John D. Bray

Medical Director of Respiratory Therapy Program, B.S., M.D., University of Miami

George W. Brewer

Associate Professor of Mathematics and Engineering, B.S., Southeastern Oklahoma State University; M.S., Oklahoma State University

Shelia Butler

Department Chair and Assistant Professor of Respiratory Care, A.A.S., Odessa College.

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 Mathematics, B.A., M.S., University of North Texas

Jim Carlson

Director of Athletics, Athletic Trainer and Department Chair of Physical Education, B.S., M.Ed., University of Texas at Austin

Karin Carlson

Instructor of Physical Education, B.S. University of North Texas

Cynthia Casparis

Instructor of Legal Assistant, B.A., West Texas State University

J. Deanne Causey

Instructor of Speech, B.A., Texas A&M University; M.A., Texas Tech University

Kris Challapalli

Director of Medical Laboratory Technology, B.S., M.D., Guntur Medical College, A.P. India.

C. Paul Chavez

Golf Coach, Academic Advisor and Instructor of Physical Education, B.S., University of Texas of the Permian Basin

I-Fan Chen Associate Professor of Spanish, B.A., M.A., Texas Tech University

Lonnie Clark

Instructor of Music, B.M.E., West Texas State University; M.A., West Texas State University

Raymond L. Cone

Department Chair of Computer Information Systems and Computer Science and Assistant Professor of Computer Science,

B.S., M.B.A. Eastern New Mexico University

Chester Cooper

Associate Professor of Biology, D.C., Parker College of Chiropractic

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

Laura A. Cralle

Instructor of Nursing, B.S.N., Texas Tech University; M.S.N., University of Texas at El Paso

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

Johnna M. Davila

Instructor of Radiologic Technology, A.A.S., Odessa College

Jurl O. Davis

Department Chair and Associate Professor of Automotive Technology, A.S., Angelina College; B.S., Wayland Baptist University

Robert Davis

Assistant Professor of Computer Information Systems, B.S., University of Texas of the Permian Basin

Wanda Davis

Assistant Professor of Nursing, A.A.S., Odessa College; B.S.N., Texas Tech University Health Sciences Center; M.S.N., University of Texas at El Paso

Dee Ann Decker

Instructor of Nursing, A.S.N., Amarillo College; B.S.N., Texas A&M University; 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

Billie B. Duncan

Associate Professor of Office Systems Technology, A.A.S., Odessa College; B.S., M.Ed., Sul Ross State University

Daphne A. Eastman

Instructor of Government, B.S., M.A., Northern Arizona University

Tonya Edwards

Instructor of Respiratory Care, A.A.S., Midland College

Darlyne Ervin

Department Chair and Assistant Professor 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

Robert Glen Findley

Instructor of Government and History, B.A., Texas Tech University; M.A., University of Texas of the Permian Basin

Beverly Forsyth

Co-Director of Off-Campus Programs and Instructor of English, B.S., M.A., University of Texas of the Permian Basin

Brenda Gardner

Assistant Professor of Computer Information Systems and Computer Science, B.B.A., B.S., University of Texas of the Permian Basin; M.S., Texas Tech University

Steven Goff

258

Department Chair of Mass Communications and Assistant Professor of Photography, B.F.A., M.F.A., Ohio University

Terry Gouley

Assistant Professor of Culinary Arts, A.A.S., Odessa College

Mary Hanson

Assistant Professor of Child and Parent Development, B.S., Angelo State University; M.A., University of Texas of the Permian Basin

Gloria Hearne

Instructor of Respiratory Care, A.A.S., Odessa College

Thomas J. Heiting

Professor of History and Government, B.A., Marquette University; M.A., New Mexico Highlands University; Ph.D., Texas Tech University

Jane Hellinghausen

Instructor of Sociology, B.A., M.A., Texas Tech University

Rebecca Hennig

Department Chair and Instructor of Biology, B.S., Tarleton State University; M.S., Texas Tech University

Truett L. Hilliard

Professor of History and Philosophy, B.A., M.A., Eastern New Mexico University

Kenneth Hines

Instructor of 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

Kathryn Hoppe

Department Chair and Professor of Music, B.Mus., M.Mus., Indiana University, Ph.D., University of Texas at Austin

Betty Jo Hudson

Assistant Professor of Physical Education, B.S., Texas A&I University; M.A., Sul Ross State University

Lucinda Huribut

Department Chair and Instructor of Child and Parent Development, B.S., Texas Tech University

Don Jacobs

Department Chair of Psychology and Sociology and Instructor of Psychology, B.S., M.L.A, Southern Methodist University

Wayne Johnson

Assistant Professor of English, B.A., East Central Oklahoma; M.A., Texas Tech University

James P. Jordan

Department Chair and Assistant Professor of Human Services, B.A., Angelo State University; M.P.A., Angelo State University

Mark Jordan

Associate Professor of English, B.A., University of Texas at Austin; M.A., University of Houston

Patty Jordan

Assistant Professor of Nursing, A.D.N., Angelo State University; B.S.N., M.S.N., University of Texas at El Paso

Kathryn Keen

Instructor of English, B.A., M.A., University of Texas of the Permian Basin

Dick K. Kennedy

Department Chair and Professor of Economics and Government, B.S., M.A., West Texas State University; Ed.D., Nova University

Ashok Khosla

Professor of Physics, B.S., Delhi University; M.S., Purdue University; Ph.D., Rensselaer Polytechnic Institute

Daryl Lane

Professor of English, B.A., University of San Francisco, M.A., University of Wisconsin at Milwaukee; Ph.D., University of New Mexico

Carolyn Sue Leach

Department Chair and Associate Professor of Radiologic Technology, A.A.S., Odessa College; B.S., Midwestern University; (A.A.R.T.)

Peter Lewis

 Department Chair and Associate Professor of Culinary Arts, Diploma in Culinary Arts, Culinary Institute of America; B.A., University of Maryland; M.Ed., Sam Houston State University

Sidney Lyle

Professor of Law Enforcement/Criminal Justice, A.A., Odessa College; B.A., University of Texas of the Permian Basin; M.A., Liberty University

Peggy Manning

Associate Professor of Physical Therapist Assistant, B.S., University of North Carolina

Kristine M. Markman

Manager of KOCV-FM and Instructor of Radio/Mass Communication, B.A., M.A., Webster University

LeeDon Martin

Department Chair and Instructor of Emergency Medical Technology/Fire Technology, A.A.S., Odessa College

Shawna Masters

Instructor of Mathematics, B.A., University of West Florida; M.A., University of Maryland

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

James E. McCutcheon

Associate Professor of Diesel Technology, B.S.O.E., Wayland Baptist University

James E. McKown

Department Chair and Assistant Professor of Law Enforcement/Criminal Justice, A.A., Eastern Arizona College

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

P. Gail Meagher

Assistant Professor of Nursing, A.S.N., B.S.N., New Mexico State University; M.S.N., University of Texas at El Paso

Brad Miller

Associate Professor of Law Enforcement/ Criminal Justice, A.A., Odessa College; B.A., University of Texas of the Permian Basin

Bob Mobley

Co-Director of Off-Campus Programs and Professor of English, B.A., Baylor University; Ph.D., Sidney University, Sidney, Australia

David Mulry

Associate Professor of English, B.A., Middlesex Polytechnic, London, England; Ph.D., University of Kent, Canterbury, England

Robert M. Muñoz

Department Chair of Management and Business Administration and Assistant Professor of Management, A.A.S., Odessa College; B.S. University of Texas at El Paso; M.Ed., Sul Ross State University

J. Mike Myers

Associate Professor of History and Government, B.A., M.A., Hardin Simmons University

Dan Neagle

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.

Connie Nichols

Instructor of Management, B.B.A., Texas Tech University

Yancy Nuñez

Department Chair and Instructor of Mathematics, B.S., M.S., Texas Tech University

Michael W. Nunnelee

Associate Professor of Emergency Medical Technology, B.S., Texas Tech University

Orlando A. Ontiveroz

Men's Basketball Coach and Instructor of Physical Education, B.S., University of Texas of the Permian Basin

Vicki Dublin Patrick

260

Instructor of Speech, B.F.A., M.F.A., Texas Christian University

Edwin Barry Phillips, Jr.

Professor of Art, B.S., M.Ed., Texas Tech University

Edwin Barry Phillips III

Department Chair and 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

Robert B. Porter

Professor of History and Sociology, B.S., M.A., Eastern New Mexico University

Melissa Ray

Instructor of Vocational Nursing, Andrews, A.A.S., Howard College

Lynn Reese

Assistant Professor of Petroleum Technology, B.S., University of Texas of the Permian Basin

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

Department Chair and 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

Clarice Rowland

Assistant Director, Coordinator of RN-Evening-Direct Option Program and Assistant Professor of Nursing, B.S.N., Texas Tech University Health Sciences Center; M.S.N., University of Texas at El Paso

William Rutherford

Professor of Government and Economics, B.A., Howard Payne College; M.A., University of Texas of the Permian Basin; Ed.D., Texas Tech University

Leola K. Rutledge

Department Chair and Associate Professor of Surgical Technology, A.A.S., Odessa College; B.S.N., Texas Tech University Health Sciences Center

Mona R. Sandlin

Reading Paraprofessional, B.S., Texas Tech University

Geoffrey J. Schwende

Associate Professor of Law Enforcement, B.S., John Jay College of Criminal Justice

James Sheehan, M.D.

Medical Director of Radiologic Technology, B.A., Loyola College, Montreal, Quebec, Canada; M.D., McGill University, Montreal, Quebec, Canada

Darren Shelton

Chemistry Paraprofessional, B.S., Sul Ross State University

Mitch Slusher

Associate Professor of Computer Science and Computer Information Systems, B.S., University of Texas of the Permian Basin; M.S., Texas A&M University; M.B.A., University of Texas of the Permian Basin

Donna C. Smith

Department Chair of English and Foreign Languages and Associate 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

R. Dale Stacy

Assistant Professor of Computer Information Systems and Computer Science, B.S., M.B.A., University of Texas of the Permian Basin

Nancy S. Stewart

 Department Chair and Instructor of Office Systems Technology, Department Chair of Legal Assistant, B.B.A., Baylor University

Giynna Strait Professor of Mathematics, B.S., Sul Ross State University; M.S., Texas Tech

University; Ed.D., Texas Tech University

Margaret Street

Professor of Mathematics, B.S., M.A., Texas Tech University

🐔 🔰 Linda Sullivan

Department Chair and 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 Tavlor

Department Chair and Professor of Chemistry, B.S., University of Texas at Austin; Ph.D., Texas Tech University

Stephanie L. Thomas

Women's Basketball Coach and Instructor of Physical Education, B.S., Creighton University; M.S., Angelo State University

Linda L. Trimmier

Associate Professor of Nursing, Monahans, B.S.N., Texas Tech University Health Sciences Center

Theresa Vaughn

Instructor of Cosmetology, A.S., Midland College

Scott Walkinshaw

Women's Track Coach and Instructor of Physical Education, B.A., M.A., Brigham Young University

Stacy S. Wallis

Department Chair and Instructor of Vocational Nursing, Monahans, A.A.S., Amarillo College

Jim Watkins

Rodeo Coach and Instructor of Physical Education, B.S., Sul Ross State University

Carla Wells

Assistant Professor of Psychology, B.S., University of Texas at Austin; M.S., Texas Woman's University

Charlotte Whitaker

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., University of North Texas

Virginia Lynn Whitson

Assistant Professor of English, B.A., M.A., University of Texas of the Permian Basin

Pamela R. Williamson

Department Chair and Instructor of Reading, B.A., University of Texas at El Paso; M.A., University of Texas of the Permian Basin

Joseph A. Willis

Instructor of Speech, B.A., Eastern New Mexico University; M.A., Texas Tech University

Lori F. Wingate

Instructor of Nursing, A.S., Odessa College; B.S.N., Texas Tech University Health Sciences Center

Rick Zimmerman

Baseball Coach and Instructor of Physical Education, B.S., M.S., Fort Hays, Kansas State College

INDEX

Absences and Class Attendance 29
Academic Advising 18, 36
Academic Information and Standards 29
Accounting 67, 68
Accreditation 11
Accredited High School Graduates
Add/Drop
Address Change
Administrative Withdrawal
Admission Information
Adult Basic Education 14
Advance Registration
Advanced Standing Examinations
Agriculture
Air Conditioning Technology
Anthropology
Aquatics
•
Art
Art Shows
Articulation
Associate in Applied Science
Associate in Arts Degree 44, 47
Associate in Science Degree
Associate in Science in
General Studies 44, 48
Athletic Training 213
Athletics 41, 218
Auditing 19
Automotive Technology 57
Automotive Technology
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Bable Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Bable Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Law 68
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Law 68 Business Mathematics 165
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Law 68
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Mathematics 165 Business Training Center 14
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Law 68 Business Training Center 14 Cafeteria 39
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Basketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Law 68 Business Training Center 14 Cafeteria 39 Calendar 4
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Mathematics 165 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Mathematics 165 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Employment 27
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Mathematics 165 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Employment 27 Campus Life 40
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Bable Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Mathematics 165 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Life 40 Campus Map Inside Back Cover
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Babketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Law 68 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Employment 27 Campus Life 40 Campus Map Inside Back Cover Campus Parking 19
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Baketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Law 68 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Life 40 Campus Parking 19 Campus Police 40
Automotive Technology 57 Awards of Institutional Recognition 47, 49 Band 40 Baseball 41, 218, 219 Babketball 41, 218, 219 Bible Classes 245 Biology 60 Board of Trustees 252 Bookstore 39 Broadcasting Courses 159 Building Trades 63 Business Administration 66 Business Incubator 14 Business Law 68 Business Training Center 14 Cafeteria 39 Calendar 4 Campus Directory 6, 7 Campus Employment 27 Campus Life 40 Campus Map Inside Back Cover Campus Parking 19

Certificate Applications 35	(13)
Certificate of Completion 46, 49	
Certificate of Technology 45, 49	5
Change of Address 19	_
Chemistry 69	Sec.
Child and Parent Development 72	-
Children's Center	(1995) (1995)
Choir 40	
Class Attendance	
Class Load	
Classification of Students 29	
CLEP 30, 37	a 12
Clinical Laboratory Sciences	-
Clubs and Organizations 40	64.5
College Staff 252	•
College Work-Study Program 27	ú
Commercial Photography 209	
Community Recreation Program 14	here
Computer Information Systems 81	
Computer Science	di la
Continuing Education 13	-
Correctional Officer Program 139, 140	<u> </u>
Cosmetology	
Costs	(inite
Counseling/Counseling Center 36	
Credit by Examination 30	
Criminal Justice 137	200
Culinary Arts	
	6
Data Processing	
Data Processing	
Degree Application 35	
Degree Application	Ŷ.
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255	ų ų
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96	ų
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Diesel Technology 100	ų
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Diesel Technology 100 Directory Information 19	ų ų
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Diesel Technology 100 Directory Information 19 Disabled Students 36	ų
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Diesel Technology 100 Directory Information 19	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Early Admissions 16 Economics 243	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Electrical and Electronics Technology 108	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Electrical and Electronics Technology 108 Elementary Education 107	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Electrical and Electronics Technology 108 Elementary Education 107 Ementary Education 107	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Early Admissions 16 Economics 243 Education, Course of Study 107 Elementary Education 107 Emergency Medical Technology 113 Emergency Medical Technology 113	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Elementary Education 107 Emergency Medical Technology 113 Emergency Medical Technology 113	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Elementary Education 107 Elementary Education 107 Emergency Medical Technology 113 Emergency Medical Technology 113 Emergency Messages 40 Engineering 117 English 118	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Disabled Students 36 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Elementary Education 107 Emergency Medical Technology 108 Elementary Education 107 Emergency Medical Technology 113 Emergency Messages 40 English 117 English 118 Equal Opportunity 10	
Degree Application 35 Degree Deadline 35 Degrees and Certificates 35, 44 Degree Requirements 35, 47 Department Chairs 255 Developmental Education 37, 96 Dissel Technology 100 Directory Information 19 Distance Education 12 Documentation of Residency 16 Dormitory Facilities 39 Drafting Technology 104 Dual Credit 16 Economics 243 Education, Course of Study 107 Elementary Education 107 Emergency Medical Technology 113 Emergency Medical Technology 113	

!

IN	DEX
----	-----

Evening Classes	
Extension Centers	
Extension Registration	18
Faculty	257
Fall Semester	
Federally-Insured Loans	26
Fees	
Financial Aid	26
Financial Information	26
Fire Technology	125
Fitness Activities 14,	
Food Service	
Foreign Languages 118,	122
French	122
GED Examination 15	5, 37
GED Test Completers	
Geography 129,	
Geology	130
German	
Golf	
Government	243
Grade Changes	
Grade Point Average	
Grades	
Graduation Guarantee	
Graduation Requirements	
Graduation with Honors	
Grants	
Health Education	212
Heating, Ventilation, Air Conditioning	
History	244
History of Odessa College	8
Honor Roll	
Housing	
Human Services	
Identification Cards	19
Immunizations	17
Incomplete Grades	32
Individual Approval Students	
Institutional Recognition	49
Instructional TV	13
Interactive Network	
Interim Session	12
International Student Admission	
Internet Courses	
Intramurals	
Keyboarding	. 201
Lab and Course Fees	22
Late Registration	18
Latin	
Law Enforcement/Criminal Justice	
Learning Assistance	
Louining Aggiotation	00

Learning Resources Center	
Legal Assistant	147
Loans	26
Machine Technology 168, 171	, 172
Maintenance Technology	152
Management	153
Map Inside Back (Cover
Marketing Management	157
Mass Communication	
Mathematics	163
Meeting Facilities	39
Metal Trades Technologies	168
Midwinter Session	
Military Experience	
Miscellaneous Fees	
Mission and Purpose	
Modem Courses	
Music	
Non-Accredited High School Graduates	15
Non-Credit Courses	
Non-Credit Registration	
Non-Work-Study Jobs	
Nursing	
OC Experience	17
Occupational Safety and Health	
Technology	191
Odessa, Texas	10
Off Campus Registration	18
Office Systems Technology	194
Oil and Gas Technology	203
Operating Room Technology	
Opportunity Grant	26
Orientation	
Parking	19
Payment Policies	
Pell Grant	
Petroleum Technology	203
Philosophy	244
Philosophy of Odessa College	
Phlebotomy	
Photography	207
Physical and Health Education	
Physical Therapist Assistant	. 222
Physics	225
Pre-Professional Courses	
Prison Guard Training	
Probation Policy	
Psychology	
ryole Extension Genter	12
Radio-Television Courses	150
Radio/TV Stations	10

264

INDEX

204	
Radiologic Technology	
Reading	
Reading Lab	
Refrigeration and Air Conditioning	
Refund of Tuition	
Regional Extension Center at Pyote	
Registered Nursing	
Registration Process	
Regular Registration	
Religion	
Repetition of Courses	
Resident Classification/Status	
Residency Requirements	
Respiratory Care	
Returning Students	
Rodeo	
SCANS Numbers	50
Schedule Changes	30
Scholarships	
Scholastic Probation	32
Scholastic Planning	
Scholastic Standards	
Scholastic Suspension	
School Year	
Second Degrees	35
Secondary Education	107
Social Sciences	242
Sociology	227, 230
0	

Rodeo	41, 219	1 eie
		Tele
SCANS Numbers	50	Tele
Schedule Changes	30	Test
Scholarships	27	Texa
Scholastic Probation		Trac
Scholastic Planning		Trair
Scholastic Standards		Tran
Scholastic Suspension		Tran
School Year		Tran
Second Degrees		Tuto
Secondary Education		Tuiti
Social Sciences		Tuiti
Sociology		
Spanish		Upw
Special Admission Requirements/		•
Selected Programs	17	Vale
Special Programs and Requirements		Vete
Special Projects		Voca
Speech		
Sports Center		Wee
Spring Semester		Weld
Staff		With
Statement of Purpose		Word
Student Activities	40	Work
Student Classification		Writi
Student Financial Services		
Student Food Services		X-Ra

EX	
Student Government Association	40
Student Housing	
Student Incentive Grant	26
Student Information Center	36
Student Records	
Student Support Services	
Summer Session	. 12
Support Staff	
Surgical Technology	
Suspension Policy	. 32
TASP Testing16	38
Team Sports	
Tech Prep	34
Technical Programs	
Telecourses	
Television Courses	
Television Station	
Testing Center	
Texas Public Education Grant	
Track	
Training for Business and Industry	
Transcript	. 34
Transfer of Credit	
Transfer Students	
Tutoring Center	
Tuition and Fees	. 20
Tuition Grants	. 26
Upward Bound	14
F =	
Valedictorian Scholarships	
Veterans Benefits	
Vocational Nursing	181
Weekend College	. 12
Welding Technology 169, 170, 171,	174
Withdrawal From College	. 25
Word Processing	201
Work-Study Program	27
Writing Lab	97
X-Ray Technology	231

-