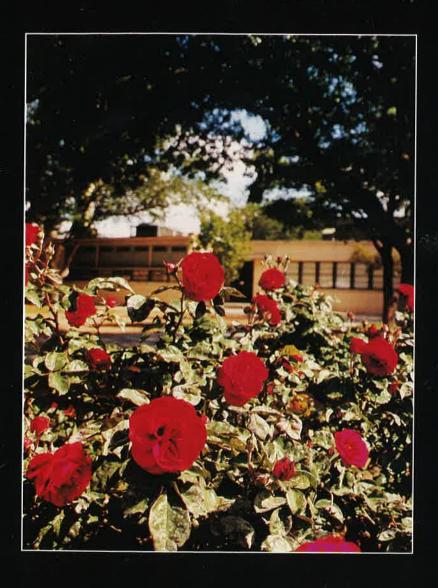
# Odessa College



2000 @ 2001

Volume 54, Number 2

April 2000

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Information and regulations printed in this bulletin are subject to change. The Board of Trustees and the administrative staff may revise programs, courses, tuition, fees or any information stated in this bulletin.

In adopting course numbers and descriptions from The Workforce Education Course Manual as instituted by the Texas Higher Education Coordinating Board, some course numbers and descriptions will change from previous catalogs. However, other changes may occur after this catalog is published. These changes will be on record in both the Division Dean's offices and the office of the Executive Vice President for Instruction.

Design and editing by the Odessa College Media Relations and Publications Staff.

An Equal Opportunity College Odessa College does not discriminate on the basis of sex, race, color, national origin, religion, disability or age.

> Web Site http://www.odessa.edu



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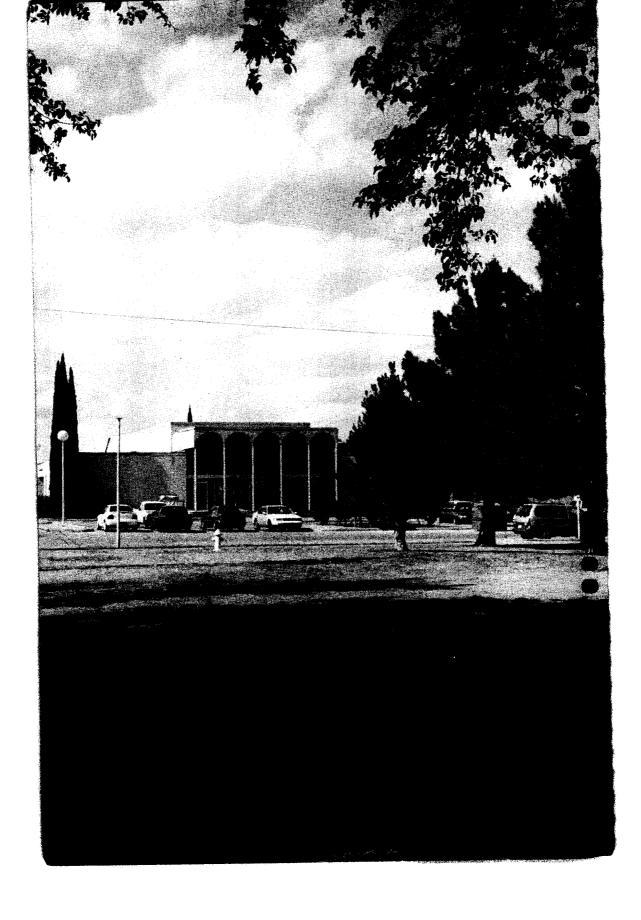
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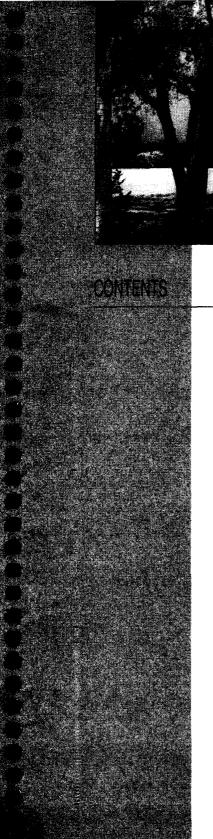
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## General Information

### 2000-2001 Odessa

	2000-2001 Odess
2000	SUMMER I 2000
	During the summer, Odessa College operates on a four-day week
<u>o</u>	and closes on Friday.
S W T W T F S	Registration
7 8 9 10 11 12 13	Holiday (Memorial Day)
7 8 9 10 11 12 13 14 15 16 17 18 19 20	Classes begin May 30 (Tues.)
21 22 23 24 25 26 27 28 29 <b>30 31</b>	Late registration
28 29 30 31	Last day for schedule changes
	Last day to drop or withdraw with a "W" June 22 (Thurs.)
S W T W T FIS	Holiday (Independence Day)
	Last class day
S 4 5 6 8 8 9 90	Final exams, end of termJuly 6 (Thurs.)
11 12 13 14 16 16 17 18 19 20 21 22 23 24	SUMMER I 2000
별 25 26 27 28 29 30	During the summer, Odessa College operates on a four-day week
4 5 6 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	and closes on Friday.
	Posistration 9 a m 5 n m (vb. 10 (Man )
S W. T. W. T. E.S.	Registration
2 3 4 5 6 7 8	Late registration
9 10 11 12 13 14 15	Last day for schedule changes
16 17 18 19 20 21 22 23 24 25 28 27 28 29	Last day to drop or withdraw with a "W"
5000	Last class day Aug. 16 (Wed.)
	Final exams, end of termAug. 16 (Wed.)
	5-day work week begins Aug. 14 (Mon.)
HE WILL S N T W T F S T 2 3 4 5	
1 2 3 4 5 8 7 8 9 10 11 12	FALL 2000
13 <u>14</u> 15 16 17 18 19	For Advance Registration information, consult current schedule of classes.
20 21 22 23 24 25 26 . 27 28 29 30 31	Nine Month Faculty Return Aug. 17 (Thurs.)
	Registration
	Staff Development (Offices Closed)
S W. T. W. T. E.S.	Classes Begin at 5 p.mAug. 21 (Mon.)
3 4 5 6 7 8 9	Late Registration/Schedule Changes Aug. 22-Aug. 25 (TuesFri.)
3 4 5 6 7 8 9 10 11 12 13 14 16 16	Holiday (Labor Day) Sept. 4 (Mon.)
17 18 19 20 21 22 23	Twelfth Class Day
24 25 26 27 28 29 30 ·	
	3 Staff Development (Offices Closed/No Classes)
	Holiday (Thanksgiving)Nov. 21-25 (TuesSat.)
S W T Y T E S	Last Class Day
0 18 8 10 11 12 13 14	🤼 Final Exams
8 16 16 17 18 19 20 21 2 22 20 24 25 26 27 28	Fall Graduation Dec.14 (Thurs.)
是基础的一个	C End of Semester Dec. 15 (Fri.)
	College Offices Closed Dec. 16-Jan. 1 (SatMon.)
	WEEKEND COLLEGE FALL 2000
S	Weekend College students may also register on any of the regular
.5 8 7 9 9 10 11 1	registration days for the fall semester.
12 13 14 February 18 18 20 21 22 23 24 25	early animals
	Sessions A & B Registration Same as registration dates above
	Last day to register for Session A8:30 a.m4 p.m
Cause Complete Order	Session A classes begin
S M THE WILL P. S.	Session A final exams, end of term Oct. 7 (Sat.)
	<u> </u>
3 4 6 6 7 8 6 10 11 12 18 11 15 16	Session B  Registration  R:30 a m-6 n m Oct 20 Mov. 2 (Man. Thurn)
17 18 19 20 21 22 23	Registration
24 25 26 27 28 29 30	Session B classes begin
A <u>81                                    </u>	Session B final exams, end of term Dec. 9 (Sat.)
College Holiday, Staff Developm	ent, Spring Break or no classes Graduation Samester

llege Calendar	
MIDWINTER 2000-2001	2001
For Advance Registration information, consult current schedule of class	<b>98.</b>
Registration 8 a.m10 a.m Dec. 27 (W	d) s M n w n s
First Day of ClassClasses begin at 1 p.m Dec. 27 (W	
Census Date	i 14 [75] <b>15 17 18 19</b>
Holiday (New Year's)	2 22 23 24 25 26 1.) 28 29 30 31
Last Day to Drop or Withdraw with a "W" Jan. 8 (M	
Final Exams, End of TermJan. 11 (Thu	
THE EAGING, ENG OF FORM	
SPRING 2001	
For Advance Registration information, consult current schedule of clas	ys.
To Automotive the state of the	75. 11 12 13 14 16 16 18 19 20 21 32 23
Offices Open/Twelve Month Employees Return Jan. 2 (Tu	
Nine Month Faculty Return	
Registration Jan. 12 (Thurs.), Jan. 12 (	
Holiday (Martin Luther King Day)	n.) <b>sw</b> t <b>r</b> e
Classes BeginJan. 16 (Tu	
Late Registration/Schedule Changes	
Twelfth Class Day	4) 50:00:00:00:00:00:00:00:00:00:00:00:00:0
Deadline for Spring Degree Application Feb. 16 (	
Spring Break (No Classes)	
Last Day to Drop or Withdraw with a "W"	
Holiday (Offices Closed, No Classes)	
Last Class Day	nt.)   1 2 3 4 5 <u>6 5                               </u>
Final Exams	c)   15 16 17 18 19 20
Spring Graduation	
End of Semester	
4-day work week begins	
~~ 119 - 7/1 SUMMER 1 2001	
For Advance Registration information, consult current schedule of clas	
During the summer, Odessa College operates on a four-day we	k   13 14 15 16 1/ 18
and closes on Friday.	27 28 50 SIN 81
Registration	S.)
Holiday (Memorial Day - Offices Closed) May 28 (M	
Classes Begin	
Late Registration/Schedule Changes May 29-30 (TuesW	
Census Date (4th class date)	n.)
Last Day to Drop or Withdraw with a "W"	·/ is is is on be on
Last Class Day July 2 (N	(1.)   24 25 26 27 28 29
Final Exams, End of Term	
Holiday (Independence Day)	
SUMMER II 2001	3 M T W T F
For Advance Registration Information, consult current schedule of class	es. 8 <b>9 10 11 12 13</b>
During the summer, Odessa College operates on a four-day w	k   15   18   17   18   18   40
and closes on Friday.	
Registration July 5 (Th	

12 13 14 19 20 21 26 27 28

15 16 17 18 22 23 24 25 29 30 31 2000-200

Hours are subject to change. Hours vary during registration, special sessions and school holidays.

OFFICE	PHONE	LOCATION	REGULAR HOURS	SUMMER HOURS
Admissions Office	335-6432	SUB 205	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-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 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.
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 or 528-1974 (after hours)	GYM 107	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
*Career Services	335-6835	SUB 204	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
Cashier's Office (tuition, fees, IDs, parking stickers)	335-6419	ADM 101	M-Th 8 a.m5:30 p.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.	M-Th 7:30 a.m9 p.m.
Continuing Education	335-6582	DH 101	M-Th 8 a.m6 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m6 p.m.
Continuing Education Drive-Thru Booth	335-6670	Parking Lot	M-F 8:30 a.m7 p.m.	M-Th 8 a.m7 p.m.
Counseling Center (Student Development)	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.
*Executive Vice President for Instruction	335-6413	ADM 202	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m.
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.m.

<sup>\*</sup>These offices close during the lunch hour.

### ampus Directory

Hours are subject to change. Hours vary during registration, special sessions and school holidays.

OFFICE	PHONE	LOCATION	REGULAR HOURS	SUMMER HOURS
Learning Resources Center	335-6639	LRC	M-Th 7:45 a.m10 p.m. F 7:45 a.m5 p.m. Sun. 2-5 p.m.	M-Th 7:30 a.m9 p.m.
*Media Relations and Publications (catalogs, schedules)	335-6416	ADM 213	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
Off-Campus Programs	335-6412	CT 100	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
*President's Office	335-6410	ADM 201	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
Purchasing Office	335-6601	ADM 101A	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
Registrar	335-6404	SUB 202	M-Th 8 a.m6 p.m. F 8 a.m5:30 p.m.	M-Th 7:30 a.m5:30 p.m
Special Populations/ Disabilities	335-6346	SUB 204	M-Th 8 a.m5:30 p.m. F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
*Special Projects	335-6622	GYM 200	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.m
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.m
Student Recruiting	335-6861	SUB 107	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
Student Support Services	335-6476	SUB 213	M-F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
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., Tu 8 a.m10 p.m.,W 8 a.m8 p.m., F 8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m
Tutoring Center	335-6612	LRC 200A	Call for an appointment	Call for an appointmen
Upward Bound	335-6311	SUB 213	M-F8 a.m5 p.m.	M-Th 7:30 a.m5:30 p.m SunTh 6-week residential 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.m
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.m

Odessa College Web Site http://www.odessa.ed

<sup>\*</sup>These offices close during the lunch hour.

## Odessa College Statement of Purpose

The Board of Trustees of the Odessa Junior College District (hereinafter 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

The past of Odessa College 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 54 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 more than 30 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. Then during the 1990's, OC received three major property donations as the college continued to expand to serve the educational needs of its students and service area.

In January 1990, Rexene Products
Company, one of Odessa's largest employers,
donated a 42,000-square-foot building located in
downtown Odessa. At that time, it was the largest
single donation ever made to the college. Today,
the facility, called the Noel Center, houses the
Small Business Incubator and Adult Basic
Education

A prominent West Texas businessman donated one of the largest and best-equipped equine facilities in the nation to OC in late 1997. Located in nearby Gardendale, Texas, the 120-acre ranch, now called the Odessa College Rodeo and Agriculture Graham Center, was donated for the enhancement of the Odessa College Rodeo Team and the development of programs for students majoring in agriculture.

Today, the \$55 million main campus in Odessa 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 30,000 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 eight towns as well as offering concurrent classes in seven area high schools.

In 1999, an Odessa doctor and his wife donated a 27,000 square-foot building in Pecos to house the new Pecos Technological Training Center of Odessa College. After renovations to the building made possible by an \$860,000 Economic Development Administration grant, the center now houses administrative and faculty offices, technical and vocational learning labs and a student lounge. The new center enables OC to improve and expand its long-established extension education program in Pecos.

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.

#### **Role and Mission**

Odessa College shall be a two-year institution primarily serving its local taxing district and service area and offering vocational, technical and academic courses for certification or associate degrees. Continuing education, remedial and compensatory education consistent with open-admission policies, and programs of counseling and guidance shall be provided. The college shall insist on excellence in all academic areas – instruction, research and public service. Faculty research, using the facilities provided for and consistent with the primary function of the college is encouraged. Funding for research should be from private sources, competitively acquired sources, local taxes and other revenue.

#### **Purpose**

The purpose of the district shall be to provide:

- Technical programs up to two years in length leading to associate degrees or certificates.
- Vocational programs leading directly to employment in semi-skilled and skilled occupations.
- Freshman and sophomore courses in arts and sciences.
- Continuing adult education programs for occupational or cultural upgrading.
- Compensatory education programs designed to fulfill the commitment of an admissions policy allowing the enrollment of disadvantaged students.
- A continuing program of counseling and guidance designed to assist students in achieving their individual educational goals.
- Workforce development programs designed to meet local and statewide needs.
- Adult literacy and other basic skills programs for adults.
- Other purposes as may be prescribed by the Coordinating Board or the district's board.

#### Institutional Responsibility

In addition to specific responsibilities imposed by the Education Code or other law, Odessa College has the general responsibility to serve the public and, within the college's role and mission, to:

- Transmit culture through general education.
- 2. Extend knowledge.
- 3. Teach and train students for professions.
- 4. Provide for scientific, engineering, medical and other academic research.
- Protect intellectual exploration and academic freedom.
- 6. Strive for intellectual excellence.
- Provide educational opportunity for all who can benefit from postsecondary education and training.
- Provide continuing education opportunities.



#### 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.

### Accreditation

Odessa College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award associate degrees.

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

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

#### **ACCREDITING AGENCY DATE OF LAST REVIEW** American Physical Therapy Association Commission on Accreditation in Physical Therapy Education ...... January 1996 Commission on Accreditation of Allied Health Education Programs through the Commission on Accreditation of Allied Health Education Programs (Surgical Technology) ...... October 1995 Joint Review Committee on Education in Radiologic Technology .......October 1994 National Accrediting Agency for Clinical Laboratory Sciences with recommendations Texas Commission on Law Enforcement Officers Standards and Education ....................... January 31, 1995 Texas Department of Health, Division of Food and Drugs ...... February 1994 Texas Department of Human Services - Long Term Care Division, Medication Aide Program ......November 9, 1995

## School Year and Learning Options

#### **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, during both 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. Traditional classroom courses in several subjects are offered each semester in numerous towns throughout the Permian Basin. In

addition, instruction is offered using various innovative distance learning technologies, including an interactive, two-way audio-video network, instructional television broadcasts through KOCV-TV, the college's licensed PBS affiliate, and individualized computer-based instruction via the Internet.

#### **Extension Centers**

The Pecos Technology Training Center and the Regional Extension Center at Pyote provide many of the college courses, both credit and noncredit, offered on the Odessa College campus. OC also offers classes and programs, though more limited in number and scope, at extension sites located in Andrews, Seminole, Kermit, Wink, Monahans, Imperial, Crane, McCamey, Presidio and other area towns.

Registration for extension classes may be completed either at OC's main campus in Odessa or at the extension site itself. Dates and times for extension registration at the various sites are developed through the Odessa College Registrar's Office. In addition, area newspapers and radio stations usually carry notices of class offerings and registration dates and times.

Information about classes offered at any of the extension sites is available on campus from the Counseling Center, the Registrar's Office or the Distance Education Office. Specific information about offerings at the Pecos Technology Training Center is available from the director of the center.

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

Classes are offered to Pecos, Presidio, 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, Presidio, 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.

#### **Internet Courses**

Odessa College offers classes via the Internet.

Any student registering for this type of course must own or have access to a computer and a modem. Communication between teacher and student is done on the computer via electronic mail (e-mail), and students seldom meet face-to-face with their instructor except for orientation, depending on the instructor's syllabus.

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

Internet 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. 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 would exist at the time students completed 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 college 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.

### Workforce and 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 state-administered high school equivalency General Education Development (GED) test. Classes are free, and textbooks are provided. During a typical school year, enrollment in Adult Basic Education classes averages 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**

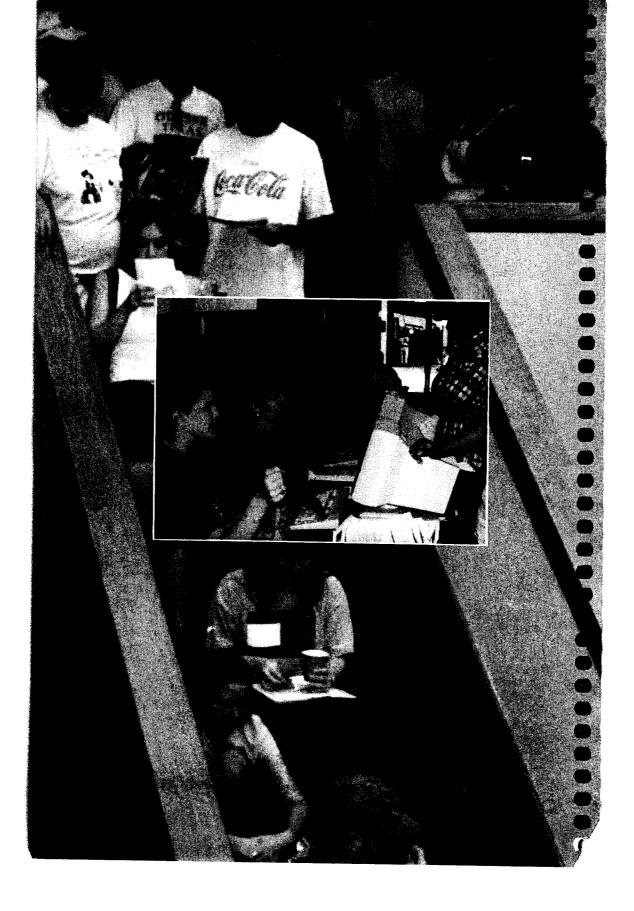
Upward Bound is a federally-funded program for high school students who have the potential to succeed in education beyond high school and need a broad base of support – academics, enrichment, motivation, career counseling and pre-college skills development – to accomplish their goals.

Students served by Upward Bound must 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.



## Admissions and Registration

#### Admission to the College

Odessa College is committed to equal consideration of all qualified applicants for admission without regard to race, color, religion, sex, age, or national origin, and without regard to disabilities as required by the Americans With Disabilities Act of 1990. An applicant will be eligible for admission to the college when the Office of Admissions has on file a completed application form along with all other items required under the appropriate admissions category. Each applicant is responsible for selecting the admissions category for which he/she qualifies.

Assessment procedures are used for placement in particular courses or programs, not as a basis for admission to Odessa College.

Once an applicant is admitted to Odessa College and registers for classes, that person becomes part of the permanent Odessa College file and may continue to register for credit classes from one semester to the next unless the student becomes ineligible for scholastic, financial or disciplinary reasons. Students who return to OC after not enrolling for one or more semesters must verify accuracy of their address and other contact information, reaffirm residency status for tuition purposes, and supply appropriate transcripts if the student has attended any other college or university since last attending Odessa College.

## Applicants are eligible for admission to Odessa College under the following categories:

- High School Graduate be a certified graduate of an accredited high school.
- G.E.D. have successfully passed testing requirements under the General Educational Development Test.
- Transfer attended another accredited college or university.
- 4. Individual Approval includes individuals who have graduated from any unaccredited high school or non-traditional setting, as well as any person 18 years of age or older who does not qualify under categories 1, 2, or 3 above. Applicants in this category must submit evidence to the Admissions Office to verify the person's ability to benefit from study at the college.
- Concurrent Enrollment or Early
   Admissions students who qualify under special agreements between Odessa College and the high school they are currently attending.
- 6. International Student With F-1 Visa.

All applicants for admission must submit official documentation of compliance with placement testing requirements (TASP) as established by the Texas Legislature and the Texas Higher Education Coordinating Board. All transcripts and other official documents submitted for admission purposes become the property of Odessa College and will not be given to the student.

For each category, an applicant's file must contain the following in order to be complete, thus completing the applicant's admission requirements.

#### **High School Graduate**

- Completed and signed application for admission.
- Official high school transcript with date of graduation and rank in class.
- Documentation of TASP status.

#### G.E.D. Completer

- Completed and signed application for admission.
- Official copy of G.E.D. test results.
- 3. Documentation of TASP status.

#### Transfer Student

- Completed and signed application for admission.
- Official copies of transcripts from all previously attended colleges or universities.

#### **Individual Approval Student**

- Completed and signed application for admission.
- 2. Documentation of ability to benefit from study at Odessa College, or
- Notarized record of the high school equivalent work completed and the date of successful completion.
- 4. Documentation of TASP status.
- Any other special documentation needed which may include school records and other test results.

### **Concurrent or Early Admissions Student**

- Completed and signed application for admission.
- 2. Official high school transcript.
- Signed and approved concurrent/early admissions forms, verifying eligibility.
- 4. Documentation of TASP status.

#### International Student

Applicants from outside the United States may be admitted to Odessa College by meeting regular admission requirements and deadlines set for receipt of materials for international students. International students must agree to comply with all international student regulations in order to remain enrolled.

- Completed and signed application for admission.
- 2. A \$50 (U.S. currency) non-refundable application fee.
- 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.
- An official transcript, in English, of all previous academic work and an educational summary work sheet of all previous education.
- An official score report on the Test of English as a Foreign Language (TOEFL) with a minimum score of 525.
- 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.
- 7. 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.)
- Proof of medical insurance prior to admission. Verification of medical insurance is required for each subsequent semester of enrollment.

#### **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.

### 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

### **Special Enrollment Opportunities** for High School Students

#### Concurrent Enrollment

High school juniors and seniors can earn college credit through Odessa College while they earn high school credit through their high school. This Concurrent Enrollment Program is open to students who:

- Are enrolled in a high school that has a concurrent enrollment agreement with Odessa College;
- Have passed the exit-level TAAS test;
- 3. Have an overall high school grade point average of 3.0 or above in the semester immediately preceding enrollment in a college course or a score above the 90th percentile on the achievement sub-test in the content area of the course in which the student wishes to enroll:
- Have the approval of their high school principal or designee;
- Pay tuition and fees for the college courses.

High school students interested in concurrent enrollment opportunities should contact their high school counselor for assistance with course selection according to the high school's concurrent enrollment class schedule. A maximum of two concurrent classes can be taken during any semester, and high school students must be TASP exempt or must pass the TASP exam in the content area(s) of classes they wish to take.

#### **Early Admissions**

The Early Admission Program is similar to the Concurrent Enrollment Program in that both

allow high school juniors and seniors who qualify to earn college credit while still in high school. Under the Early Admissions Program a student can enroll for a course or courses for college credit, but the course or courses do not count for high school credit. Students interested in the Early Admissions Program should contact their high school counselor for details. It is permissible for a student to participate in both Concurrent Enrollment and Early Admissions at the same time, but the two class maximum during any semester will apply. Early Admissions students must provide the same materials as students in the Concurrent Enrollment Program.

#### Placement Testing for New Students – TASP, Texas Academic Skills Program Requirements

Effective with fall 1998, all students who enter a public institution of higher education must be tested for competencies in reading, writing and mathematics skills prior to enrollment in college level classes. Performance on the test will not be used as a condition of admission.

Students are test exempt if they can document successful completion of at least three college credit hours prior to fall 1989, or if they have high TAAS, ACT or SAT scores. A list of exemptions for TASP can be found in the TASP registration bulletin, which is available in the OC Testing Center and the OC Student Development (Counseling) Center. Students in a level I certificate program are TASP-waived as long as the prescribed courses are taken.

The OC Testing Center offers the COMPASS test, which can be used to satisfy the testing requirement at Odessa College. However, the student must have never taken the TASP test nor any other approved alternative test. A fee of \$29 is required for this test. For additional information on the COMPASS test or any other test, call the OC Testing Center, 335-6620.

If a student has failed one or more portions of the TASP test or any other approved alternative test, 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 or alternative test 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.

#### Residence Status for Tuition Purposes

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

- In-district resident: Students who are 18
  years or older must 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.
- 2. 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 parent or legal guardian'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.

Students with 170 or more semester hours of college courses from Texas public

institutions of higher education may be subject to out-of-state tuition rates.

#### Waiver of Residence Requirements

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 II, 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 non-residents 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.

#### **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 designed for new students to OC taking six or more credit hours. Other students are encouraged to talk with their advisor about the advantages of taking the course. The course is designed to help students succeed in a usually difficult adjustment

period. The course covers academic skills and techniques for success in college, along with college policies, rules and regulations. 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, 335-6432.

#### More Information

The Welcome Center in Room 107 of the Student Center Building is a good starting point for persons who want specific information about programs, classes and activities at Odessa College. The Center is open during routine business hours. Telephone inquiries are welcome and a directory of the most frequently contacted offices and their respective telephone numbers is available in the front of this catalog. Interested persons are invited to visit the Odessa College web site at http://www.odessa.edu

#### **Registration Process**

Odessa College offers a variety of opportunities for students to register for classes and activities. Persons new to OC must complete the admissions process (see pages 17-18) before they are allowed to register for classes.

Students who are enrolled for credit classes at Odessa College may continue to enroll from one semester to the next as long as they remain in good scholastic standing and have no

outstanding debts to the college. Students who return to OC after not enrolling for one or more semesters must verify accuracy of mailing address and other contact information, reaffirm residency status for tuition purposes, and supply appropriate transcripts if the student has attended any other college or university since last attending Odessa College.

### 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.

#### **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.

#### Registration - Credit Classes

Odessa College generally schedules early

registration several weeks before the beginning of each semester. In addition, two or three days are designated at the beginning of each semester and the college generally holds one or two days of late registration, depending on the semester. All registration dates and times are posted in the Schedule of Credit Classes Bulletin. Dates listed in the Schedule Bulletin take precedence over the college catalog.

#### Late Registration

Although strongly encouraged to register at regular registration times, students may still late register for credit classes for a limited 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. Registration dates are published in the Schedule of Credit Classes Bulletin. A late registration fee 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.

## Workforce and Continuing Education – 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 in Deaderick Hall, Room 101. 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.

#### **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.
- Audit permission must be obtained from the appropriate department chair and the Registrar's Office.
- There must be seats available before an auditing student will be permitted to enter a particular class.
- Auditing students are not required to meet course prerequisites listed in the catalog.
- Students auditing a course may not under any circumstances claim credit for the course.
- 6. A student registering for a course may not change from audit to credit or from credit to audit after the 12th class day during a long semester or fourth class day during a summer term. Requests for status change must be made in the Registrar's Office.

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, fine arts presentations and 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 Cashier's Office, in the Administrative Wing of the Student Union Building.

#### **Parking on Campus**

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 Cashier's Office during regular office hours. A copy of parking regulations is available at the Cashier's 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**

It is the reponsibility of each student to keep 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.

### Family Educational Rights and Privacy Act (FERPA)

Odessa College complies with the Family Educational Rights and Privacy Act (FERPA).

#### **Directory Information**

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

## Money Matters

#### **Tuition and Fees**

Please note that the following tables reflect the 1999-2000 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 others course fees may be applicable.

For:

LAB FEES

PRIVATE INSTRUCTION FEES

TRAVEL FEES
TESTING FEES

MISCELLANEOUS FEES

see pages 26-27 for additional charges.

Students with 170 or more semester hours of college courses from Texas public institutions of higher education may be subject to out-of-state tuition rates.

#### IN-DISTRICT TEXAS RESIDENT:

Semester		Reg Fee Non-	Building	Activity	ID Fee Non-	Computer	**TOTAL BEFORE PARKING &
Hours	Tuition	Refundable	Use Fee	Fee	Refundable	Fee	OTHER FEES
1	48.00	15.00	12.00	10.00	1.00	3.00	89.00
2	48.00	15.00	24.00	10.00	1.00	6.00	104.00
2 3	48.00	15.00	36.00	10.00	1.00	9.00	119.00
4	64.00	15.00	48.00	10.00	1.00	12.00	150.00
5	80.00	15.00	60.00	10.00	1.00	15.00	181.00
5 6 7	96.00	15.00	72.00	10.00	1.00	18.00	212.00
7	112.00	15.00	84.00	11.00	1.00	21.00	244.00
8	128.00	15.00	96.00	12.00	1.00	24.00	276.00
9	144.00	15.00	108.00	13.00	1.00	27.00	308.00
10	160.00	15.00	120.00	14.00	1.00	30.00	340.00
11	176.00	15.00	132.00	15.00	1.00	33.00	372.00
12	192.00	15.00	144.00	16.00	1.00	36.00	404.00
13	208.00	15.00	156.00	17.00	1.00	39.00	436.00
14	224.00	15.00	162.00	18.00	1.00	42.00	462.00
15	240.00	15.00	168.00	19.00	1.00	45.00	488.00
16	256.00	15.00	174.00	20.00	1.00	48.00	514.00
17	272.00	15.00	180.00	21.00	1.00	51.00	540.00
18	288.00	15.00	186.00	22.00	1.00	54.00	566.00
19	304.00	15.00	192.00	23.00	1.00	57.00	592.00
20	320.00	15.00	198.00	24.00	1.00	60.00	618.00
21	336.00	15.00	204.00	25.00	1.00	63.00	644.00
22	352.00	15.00	210.00	26.00	1.00	66.00	670.00
23	368.00	15.00	216.00	27.00	1.00	69.00	696.00
24	384.00	15.00	222.00	28.00	1.00	72.00	722.00
25	400.00	15.00	228.00	29.00	1.00	75.00	748.00

		Reg Fee			ID Fee		Out of	**TOTAL BEFORE
Semester		Non-	Building	Activity	Non-	Computer	District	PARKING 8
Hours	Tuition	Refundable	Use Fee	Fee	Refundal	Fee	Fee	OTHER FEES
1	48.00	15.00	12.00	10.00	1.00	3.00	8.00	97.0
2	48.00	15.00	24.00	10.00	1.00	6.00	16.00	120.0
3	48.00	15.00	36.00	10.00	1.00	9.00	24.00	143.0
4	64.00	15.00	48.00	10.00	1.00	12.00	32.00	182.0
5	80.00	15.00	60.00	10.00	1.00	15.00	40.00	221.0
6	96.00	15.00	72.00	10.00	1.00	18.00	48.00	260.0
7	112.00	15.00	84.00	11.00	1.00	21.00	56.00	300.0
8	128.00	15.00	96.00	12.00	1.00	24.00	64.00	340.0
9	144.00	15.00	108.00	13.00	1.00	27.00	72.00	380.0
10	160.00	15.00	120.00	14.00	1.00	30.00	80.00	420.0
11	176.00	15.00	132.00	15.00	1.00	33.00	88.00	460.0
12	192.00	15.00	144.00	16.00	1.00	36.00	96.00	500.0
13	208.00	15.00	156.00	17.00	1.00	39.00	104.00	540.0
14	224.00	15.00	162.00	18.00	1.00	42.00	112.00	574.0
15	240.00	15.00	168.00	19.00	1.00	45.00	120.00	608.0
16	256.00	15.00	174.00	20.00	1.00	48.00	128.00	642.0
17	272.00	15.00	180.00	21.00	1.00	51.00	136.00	676.0
18	288.00	15.00	186.00	22.00	1.00	54.00	144.00	710.0
19	304.00	15.00	192.00	23.00	1.00	57.00	152.00	744.0
20	320.00	15.00	198.00	24.00	1.00	60.00	160.00	778.0
21	336.00	15.00	204.00	25.00	1.00	63.00	168.00	812.0
22	352.00	15.00	210.00	26.00	1.00	66.00	176.00	846.0
23	368.00	15.00	216.00	27.00	1.00	69.00	184.00	880.0
24	384.00	15.00	222.00	28.00	1.00	72.00	192.00	914.0
25	400.00	15.00	228.00	29.00	1.00	75.00	200.00	948.0

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Semester Hours	Tuition	Reg Fee Non- Refundable	Building Use Fee	Activity Fee	ID Fee Non- Refundable	Computer Fee	**TOTAL BEFORE PARKING & OTHER FEES
1	222.00	15.00	12.00	10.00	1.00	3.00	263.00
2	222.00	15.00	24.00	10.00	1.00	6.00	278.00
2 3	222.00	15.00	36.00	10.00	1.00	9.00	293.00
4	246.00	15.00	48.00	10.00	1.00	12.00	332.00
5	270.00	15.00	60.00	10.00	1.00	15.00	371.00
6	294.00	15.00	72.00	10.00	1.00	18.00	410.00
7	318.00	15.00	84.00	11.00	1.00	21.00	450.00
8 9	342.00	15.00	96.00	12.00	1.00	24.00	490.00
9	366.00	15.00	108.00	13.00	1.00	27.00	530.00
10	390.00	15.00	120.00	14.00	1.00	30.00	570.00
11	414.00	15.00	132.00	15.00	1.00	33.00	610.00
12	438.00	15.00	144.00	16.00	1.00	36.00	650.00
13	462.00	15.00	156.00	17.00	1.00	39.00	690.00
14	486.00	15.00	162.00	18.00	1.00	42.00	724.00
15	510.00	15.00	168.00	19.00	1.00	45.00	758.00
16	534.00	15.00	174.00	20.00	1.00	48.00	792.00
17	558.00	15.00	180.00	21.00	1.00	51.00	826.00
18	582.00	15.00	186.00	22.00	1.00	54.00	860.00
19	606.00	15.00	192.00	23.00	1.00	57.00	894.00
20	630.00	15.00	198.00	24.00	1.00	60.00	928.00
21	654.00	15.00	204.00	25.00	1.00	63.00	962.00
22	678.00	15.00	210.00	26.00	1.00	66.00	996.00
23	702.00	15.00	216.00	27.00	1.00	69.00	1,030.00
24	726.00	15.00	222.00	28.00	1.00	72.00	1,064.00
25	750.00	15.00	228.00	29.00	1.00	75.00	1,098.00

### **LAB FEES** Biology (Except BIOL 1170, 2306, 2470) 15.00 Biology (BIOL 2470) 10.00 Building & Property Maintenance (Except CNBT 1342, 2380) 24.00 Business Computer Info Systems (Except BCIS 1200, 2377, ITSC 2381, ITSE 2381) 15.00 Chemistry (CHEM 1105, 1111, 1112, 2101, 2123, 2125) 15.00 Child Development (CDEC 1311, 1318, 1319, 1356, 1357, 1358, 1359, 1403, 1413, 1421) 10.00 Clinical Laboratory Science (CLSC 1500, 2211, 2212) 15.00 Clinical Laboratory Science (MDCA 1456, MLAB 1201, 1227, 1311, 1331, 1335, 1391, 1415, 2431, 2501, 2534) 1415, 2431, 2501, 2534) ...... Culinary Arts (CULI 1201, 1202, 1203, 1206, 1207, 1208, 2210, 2211, 2212, Drafting (DFTG 1409, 1452) ..... Electrical/ Electronics (Except CETT 1491, CETT 2381, EEIR 1491, ELMT 1491, IEIR 1312) 24.00 Emergency Medical Technology (EMED 1501, 2601, 2801, 2802) 15.00 English (ENGL 0370, 1301, 1312, 2311 Word Processing) 10.00 Heating, Vent, Air Conditioning (Except HART 1391, 2380, 2445) 24.00 Law Enforcement/Criminal Justice (CJSA 1308) 20.00 Maintenance Technology (Except CBFM 2381) 24.00 Management/Tech Prep (Except BMGT 1191, 1292, 1391, 2303, 2382, HRPO 1191) .5.00 Management/Tech Prep (BMGT 2303) .24.00 2220, 2324, 2325, 2326, 2331) Mass Communication (COMM 2303) Music, Class Instruction (MUSI 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177) Nursing (NURS 1222, 1821, 2341, 2342, 2343, 2807, 2808, RNSG 1108, 1215, 1219, 1227, 1244, 1512, 2514, VNSG 1413, 1460, 1502, 1509, 1510) Occupational Safety/Health Technology (EPCT 1341, OSHT 1405, 2405) Office Systems Technology (Except POFL 1305, POFM 1202, 1213, 1353, POFM 1202, 1213, 1353, 10.00 Office Systems Technology (Except POFL 1305, POFM 1202, 1213, 1353, POFT 1127, 1302, 1425, 2303, 2312, 2381) 10.00 Office Systems Technology (POFM 1202, POFT 1127, 1425, 2303) 5.00 Petroleum Technology (PTRT 1316) 15.00 Photography (Except PHTC 1313, 1349, 2349, 2380) 10.00 Photography (PHTC 1349, 2349) 15.00 Physical Education (Except PHED 1100, 1107, 1108, 1109, 1117, 1119, 1120, 1123, 1136, 1137, 1138, 1139, 1141, 1152, 1166, 1238, 1301, 1304, 1306, 1346, 2120, 2136, Physics (All courses) ..

#### **PRIVATE INSTRUCTION FEES**

Applied Music, Private Instruction (1/2 he	our)
Applied Music, Private Instruction (1 hou	r)

#### TRAVEL FEES

Courses which necessitate student travel such as SPAN 1305, Intensive Spanish Practicum; BIOL 2470, Marine Ecology; PHED 1123, Skiing; and PHTC 1347, Landscape Photography will have additional fees for travel expense. Check with the course instructor or department chair for details.

#### **Testing Fees**

			Total
		61.00	
NURS 2808	3 1	28.00	28.00
RNSG 2514	<b>1</b> 1	28.00	28.00
VNSG 1230	) 1	28.00	28.00
VNSG 1500	) 1	61.00	61.00
VNSG 1509	) 1	61.00	61.00
<b>RESP 1333</b>	i 1	25.00	25.00
<b>RESP 2362</b>	! 1	60.00	60.00
<b>RSPT 2360</b>	· 1	25.00	25.00
<b>RSPT 2363</b>	· 1	60.00	60.00

#### Miscellaneous Fees

Advanced Standing Examination	20.00
Diesel Technology (Uniform Fee – DEMR 1506)	70.00
Diesel Technology (Uniform Cleaning Fee - All except DEMR 1266 & 2380)	8.00
Fire Academy (Equipment & Books, Estimated - FIRS 1401)	
General Property Deposit (refundable by request)	
Late Registration Fee	
Law Enforcement Academy (Equipment and Books, CJLE 1506)	
Law Enforcement/Criminal Justice - State Prison Guard (CJCR 2325)	
Legal Assistant Access Fee (Except LGLA 2380)	
LVN Nursing (Andrews & Monahans Equipment Fee - VNSG 1502)	
LVN, Nursing (Andrews & Monahans State License Fee/Review Course Fee - NURS 1615)	308.00
Math (MATH 0173, 0372, 0375 Internet classes – software package)	95.00
Nursing (State License/Review Fee - NURS 2808 or RNSG 2514)	290.00
Radiologic Technology (Software - RADR 2235)	25.00
Red Cross Certification Fee (PHED 1166, 1306)	
Respiratory Care (Equipment Fee RSPT 1160)	75.00
Schedule Change Fee	5.00
Student Identification Fee (Each Semester, Non-Refundable)	1.00
*Student Liability Insurance (Fall and Spring Semesters)	8.00
*Student Liability Insurance (Summer I and II Semesters)	6.00
Transcript Requested From OC, Official Copy	3.00
Transcript From Another Institution	5.00
**Vehicle Registration, Fall and Spring Semester	4.00
**Vehicle Registration, Summer I and II	

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

<sup>\*\*</sup>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.

<u>Estimat</u>	ed In-District Studen	<u>it Expense</u>	
Semester Hours	<u>3</u>	<u>9</u>	<u>15</u>
Required Tuition and Fees	\$119	\$308	\$488
Parking Fee (optional)	4	4	4
Property Deposit (one time)	10	10	10
Lab Fee (average \$15 per course)	15	30	30
Books (based on \$60 per book)	60	180	300
Total Per Semester	\$208	\$532	\$832
Estimated	Out-of-District Stud	ent Expense	
(Non-	-Resident of the College	District)	
Semester Hours	3	<u>9</u>	<u>15</u>
Required Tuition and Fees	\$1 <del>4</del> 3	\$380	\$608
Parking Fee (optional)	4	4	4
Property Deposit (one time)	10	10	10
Lab Fee (average \$15 per course)	15	30	30
Books (based on \$60 per book)	60	180	300
Total Per Semester	\$232	\$604	\$952
Estimated Out	-of-State or Foreign	Student Expense	
Semester Hours	3	9	<u>15</u>
Required Tuition and Fees	\$293	\$530	\$758
Parking Fee (optional)	4	4	4
Property Deposit (one time)	10	10	10
Lab Feé (average \$15 per course)	15	30	30
Books (based on \$60 per book)	60	180	300
Total Per Semester	\$382	\$754	\$1102

#### **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**

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 and a \$15 processing fee.

The balance is paid in two payments before the end of the semester.

#### 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 Equifax, Inc. or Checks Inc. A returned check fee

of \$27.06 is charged per check by each company. 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 re-enroll 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 reenroll 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.

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

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

### Refunds on or After First Day of Classes

#### Fall and Spring Semesters

During the first 15 class days	100%	70%
During the 16th through 20th class days	25%	25%
After the 20th class day	None	None
Summer Semesters		
During the first 5 class days	100%	70%
During the 6th through 7th 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.

### Refunds for Other Than Semester-Length Courses

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

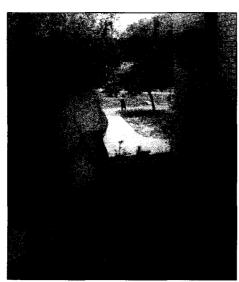
#### **Method of Calculating Class Days**

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 is 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.



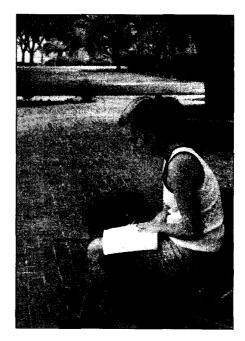






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#### **Student Financial Services**

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 wish to attend college. Of equal importance is the awarding of academic scholarships to recognize students who exhibit superior scholastic abilities.

The Student Financial Services Office administers four broad program areas: grants, employment, scholarships and loans. A Free Application for Federal Student Aid (FAFSA) and an institutional application are required for all need-based financial aid programs. 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.

Students may not receive financial aid from two different schools during the same semester.

#### 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 based on enrollment status.

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) 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 who have earned at least 15 credit hours at OC with a 2.0 GPA. 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 2.0 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 plus a \$15 processing fee. These loans are processed on a first-come, first-served basis. Students repay these loans in three installments. The first is a down payment of at least 10 percent, and the balance is paid in two payments. Book loans are not available.

#### Repayments

Under the United States Department of Education Repayment Policy, a student who receives federal grants and/or loans, and completely withdraws prior to the sixty-percent point in the semester (which is the 10th week) must repay the U.S. Department of Education, and possibly Odessa College, part of the financial aid award. Furthermore, a student who fails to satisfy all repayment obligations will not be eligible for financial aid at any school. Prior to completely withdrawing from school, a student should check with Student Financial Services to determine the amount of money owed and the required repayment. Repayment amounts will vary depending on the amount and type of aid received. For instance, a full-time student receiving \$2,000 in grants, with a cost of \$1,000 for tuition, fees and books, and who completely withdraws from school after completing 10 percent of the semester, would be required to repay \$450 to the Department of Education. A complete withdrawal from school after completing 20 percent of the semester would require a repayment of \$400. Any questions or clarifications of the repayment obligations, please contact Student Financial Services.

#### **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 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. For eligibility requirements and other information for the Odessa College Foundation, please contact the Office of Institutional Advancement.

Scholarships awarded by Student Financial Services: March 1 is the deadline to apply for academic scholarships awarded by OC for the fall semester. These include the Leland Croft, L.M. Adair, Odessa College Academic, Hext Family Foundation, 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. Applications without a transcript will not be considered for funding. 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 \$700 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 counselors.

Odessa College Foundation, established on Jan. 26, 1996, continues its tradition of promoting higher education as well as providing students with financial assistance for achieving educational success. Students who are not

eligible for federal or state financial assistance can apply for any of the following endowed scholarships: Becker Educators, Clara Hazel Freel, Half-Century, H.L. Mangrum or Dollarsfor-Scholars. Eligibility requirements are listed on the Foundation Scholarship Application which may be obtained in the Office of Institutional Advancement.

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.

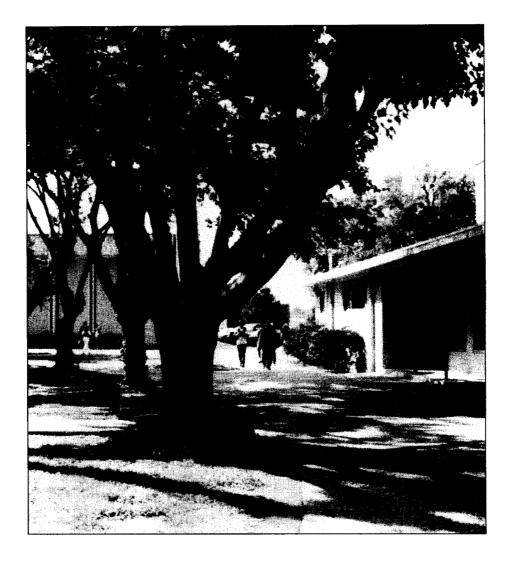
#### **Tuition Tax Credits**

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, effective July 1, 1998, is a credit against federal income taxes. The credit is equal to 20 percent of the taxpayer's first \$5,000 of out-of-pocket 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 or alternative 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 receive an "F" in the developmental class. The student will receive an "F" after:

- seven (7) absences in a class that meets three times per week;
- five (5) absences in a class that meets two times per week;
- two (2) absences in a class that meets

one time per week:

- two (2) absences in a one-hour class meeting once a 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.

Religious Holy Day – A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day after the first day of the semester, the student notified the instructor of each class scheduled on the date that the student would be absent for a religious holy day.

A "religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, Tax Code.

The notice shall be in writing and shall be delivered personally by the student to the instructor of each class, with receipt of the notice acknowledged and dated by the instructor or by certified mail, return receipt requested, addressed to the instructor of each class.

A student who is excused under this section may not be penalized for the absence, but the instructor may appropriately respond if the student fails to satisfactorily complete the assignment or examination.

#### 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.

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."

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 interest 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 full-time employment is six semester hours or two courses.

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

#### **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
GRADE	DESCRIPTION	HOUR
Α	Excellent	4
В	Above average	3
С	Average	2
D	Passing, but poor	1
F	Failure	0

The following grades are not used for GPA calculations:

GRADE DESCRIPTION

Passing

PA

Т

student's GPA.

I Incomplete
P In Progress
Z No grade assessed;
requires re-enrollment.
Restricted to developmental courses.
N Audit
W Withdrawn
S Advanced Standing

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

(credit by examination)

Transfer credit

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:

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

Scholastic probation warns students that they need to pay careful attention to academic progress. They will be given the opportunity to take advantage of special study-skills counseling through the 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. However, a suspended student may appeal the suspension status for immediate enrollment the next long semester or abide by the stipulation of staying out of school for the required semester(s).

## Summer Enrollment for Students on Scholastic Suspension

A student who is placed on scholastic suspension at the end of the spring semester may enroll for classes during the summer to bring up his/her GPA. Each student in this category must consult with a counselor or faculty advisor before enrolling for summer classes.

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.

#### Appeal of Scholastic Suspension

If a student chooses to appeal by applying for immediate re-admission for the next long

semester after having been placed on suspension, the student must:

- Contact the Director of Admissions for permission to enroll. The student will be asked to submit a completed Evaluation of Academic Performance form.
- Have the student's enrollment status reviewed by a committee comprised of the Director of Admissions and other college officials. The student may be asked to meet with the person(s) reviewing the application.
- Sign an agreement detailing the terms prescribed by college officials who reviewed the student's enrollment status, including meeting with an assigned counselor as directed. Conditions may also include enrollment in designated courses.

A suspended student who has been approved for continued enrollment must meet the conditions of the agreement in item 3 above. Failure to do so will result in the student being required to serve the imposed suspension the next long semester(s).

A student on scholastic suspension whose continued enrollment is approved will be allowed to enroll on scholastic probation. If the student does not return to good standing at the end of the semester, the original suspension will be enforced for the next long semester.

#### **Return to Good Standing**

A student on scholastic suspension who is enrolled under special conditions will return to good standing by fulfilling all the conditions of the specific admission agreement and earning a minimum of a 2.0 grade point average for the semester. The student will remain in good standing as long as he/she continues to earn a minimum of a 2.0 GPA each subsequent semester of enrollment.

A student on scholastic suspension who has not attended during the time of enforced suspension will return to good standing by earning a 2.0 or higher grade point average for the next long semester of enrollment. The student will remain in good standing as long as he/she continues to earn a minimum of a 2.0 GPA each subsequent semester of enrollment.

#### **Second and Third Suspensions**

A student, who is placed on scholastic suspension a second time, will be barred from enrolling for classes at Odessa College for the next two long semesters. A student with a second suspension has the same option to appeal that suspension by applying for enrollment permission. The same procedure as outlined in "Appeal of Scholastic Suspension" must be followed. Meeting the stated conditions of admission with a grade point average of 2.0 or higher will result in the student's return to good standing.

Failure to meet required grade point and other standards during any semester after a second suspension will result in the third and final suspension for the student. A student who is placed on scholastic suspension a third time may enroll for classes at Odessa College only upon approval of the Executive Vice President for Instruction.

#### **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.

A "Z" grade is restricted to developmental courses. No other grade is assessed and enrollment by the student in a subsequent semester is required. The grade of "Z" will be given only if students have (1) completed 80 percent of the semester's work and (2) attended 80 percent of the classes during the semester.

#### **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.

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 may 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. Odessa College will not accept transcript requests by telephone. 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 submitted to OC 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.

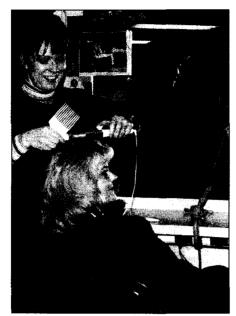
OC charges a \$15 graduation fee. Students also pay fees for caps, gowns and invitations.

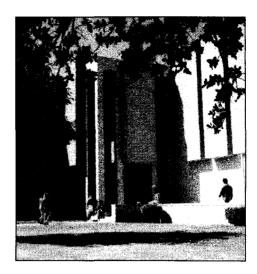
#### **Second Degrees**

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.

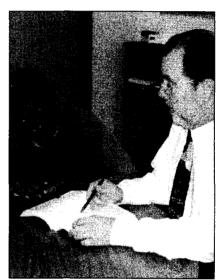
## Deadline for Degree and Certificate Applications

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 Registrar's Office.

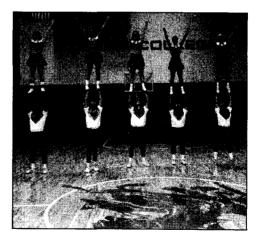












# Instructional Support Services

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.

#### **Welcome Center**

The Welcome Center is the first point of contact for all prospective Odessa College students. The center, located in the Student Union Building, Room 107, provides information about getting started in college as well as class catalogs, schedules and other basic facts about the campus and programs of study. The center also sponsors campus tours, outreach programs to area junior high and high schools and participates in community projects including GEAR-UP, Leadership Odessa, Region 18 programs and the Permian Basin Fair. The Welcome Center staff is available to assist potential and existing students with general questions about the college.

#### **Counseling and 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 and referral, individual or group counseling, and career quidance.

Assistance is free and confidential. Any problems or concerns that interfere with the attainment of academic, vocational or personal goals can be discussed with a counselor of the student's choice. Students who have visited the Counseling Center have received help in clarifying educational and personal goals, selecting careers and college courses, reducing stress and worry, improving family and other relationships, and improving communications and 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 need to schedule an appointment to see a counselor. Periodically, special activities, programs and structured group experiences will be offered as well. On-line advising is also available by contacting the Odessa College website under "Departments."

#### **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.

## Special Populations/Disability Services

Students who come to Odessa College with diagnosed physical or learning disabilities, which may interfere with learning, can receive special assistance. Accomodations for learning disabilities and/or ADD/ADHD may be provided when a student requests them.

The college strives to provide a complete range of services for students with disabilities such as assistance with registration, information on adaptive and assistive equipment, tutoring, and access and accommodations for programs and course work. Upon request, Odessa College will provide college materials in an alternative format as an accommodation to individuals with disabilities.

For information regarding services, students with disabilities should contact the counselor for special populations in the Counseling Center located in Room 204 of the Student Union Building or call 335-6346.

#### **Career Services**

Career-related services are available to credit and non-credit 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. Career Services maintains a career resource library for student use.

Career Services 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 fair each year during the spring semester.

Students who have not yet decided on a major and/or need career information, referral to other services, college transfer information or job placement assistance should contact Career Services in the Student Union Building or call 335-6890 or 335-6835.

#### **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. Required placement testing for students is scheduled on a daily basis. The Testing Center also schedules entrance examinations for specific programs such as nursing, surgical technology and physical therapy assistant.

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 73,739 books, 392 current periodicals, eight daily, weekly and national newspapers, and 5,359 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, CD-ROM and online 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 Information Technology
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.

Access to the online catalog and information about the LRC is available on the OC website at http://www.odessa.edu. The LRC seeks to provide the finest informational services possible.

Suggestions and comments to improve all areas of the LRC 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 and reading. 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.

The following attendance policy applies to any student at Odessa College placed in a developmental class as a result of his or her failure to pass a portion of the TASP or alternative test:

- Three-hour credit course meeting three days per week – maximum of seven absences allowed.
- Three-hour credit course meeting two days per week – maximum of five absences allowed.
- Three-hour credit course meeting one day per week – maximum of two absences allowed.
- One-hour credit course maximum of two absences allowed.
- Student in Plato lab must log time on a regular basis throughout the semester.
- Summer classes meeting four days per week – maximim of three absences allowed.
- Summer classes meeting two days per week
   maximum of two absences allowed.

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. Tutoring is free to Odessa College students. 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.



# Campus Facilities and Life

#### **Campus Facilities**

#### **Bookstore**

The Odessa College Bookstore is an auxiliary enterprise owned and 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. Non-resident students may purchase a meal plan or a cash card for meals. Contact the food service director or the OC Cashier's 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**

The OC Sports Center is the home arena 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 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 Public Information Director, KOCV-TV
- 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. Opportunities for students to grow as individuals are made possible through a variety of 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.

#### Intramurals

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 San Antonio, New York City, England and Wales. 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. The music department also offers a large concert band.

#### **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, softball, 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 Baseball

In the 1990-91 school year, OC reestablished its baseball program and advanced to the state tournament during that first season. The next year, the Wranglers won both the conference and regional championships. During the new team's first two years, 12 players were either drafted or signed to professional contracts. 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 it has had four more All-Americans since that time. A team member also was named an Academic All-American in 1994. In 1995 the Wranglers finished third in the nation in the JUCO World Series, with several team members winning national honors. The Wranglers have a well-established tradition of winning, having been conference champions for seven years out of the last 10 years and winning the conference championship consecutively the last four years.

#### 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 co-champions in 1979, conference champions in 1989, 1993 and 1994, and regional champions in 1988, 1989, 1990, 1993 and 1996. 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 Alf-Americans, more than 50 Alf-Conference players and more than 40 Alf-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.

#### Men's 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.

#### Men's and Women's Rodeo

OC is recognized as a power rodeo school in the National Intercollegiate Rodeo Association's Southwest Region, fielding both men and women's teams. In only the second year of the men's program, members qualified for the college finals and continued to qualify in 1986, 1987,1989, 1990, 1991, 1994 and 1996. Members of the women's team also qualified for the national finals in 1993, 1994 and 2000. 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, 1987, 1989, 1991 and 1996, and first place in calf roping in 1989 and 1990.

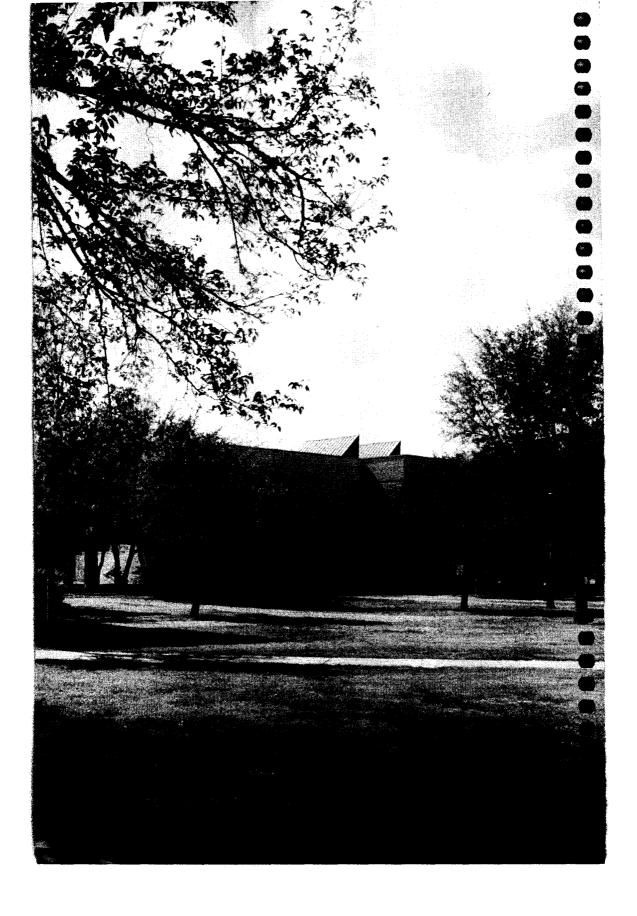
#### Women's Softball

2000-2001 is the inaugural season for Women's Softball, the newest addition to OC's tradition of quality athletic programs. Reflecting the strong interest both locally and nationally, OC looks forward to a successful season. This first team is a combination of fine of student athletes from across the country, including strong representation from the Permian Basin.

#### 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.







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# Degrees and Instructional Programs

# 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.

#### **Odessa College Transfer Core Curriculum**

Senate Bill 148 requires every institution of higher education to adopt a core curriculum of no less than 42 semester credit hours and no more than 48 semester credit hours. The core curriculum can be transferred in block to any Texas institution and substituted for the receiving institution's core curriculum. Odessa College has adopted a 44 semester credit hour core curriculum as listed:

#### COMMUNICATION - 9 hrs

ENGL 1301, Composition & Rhetoric,
ENGL 1302, Composition & Literature, and
One of the following:

SPAN 1411, First Year Spanish I, or
SPAN 1412, First Year Spanish II, or
FREN 1411, First Year French II, or
FREN 1412, First Year French II, or
GERM 1411, First Year German II, or
GERM 1412, First Year German II, or
SPCH 1311, Introduction to Speech
Communication, or
SPCH 1315, Public Speaking, or
SPCH 1321, Business & Professional Speech

#### SOCIAL/BEHAVIORAL SCIENCE - 3 hrs

One of the following:

PSYC 2301, Introduction to Psychology, or

PSYC 2302, Applied Psychology, or

SOCI 1301, Principles of Sociology, or

SOCI 2301, Sociology of the Family, or

ECON 2301, Principles of Economics I (Macro), or

ECON 2302, Principles of Economics II (Micro)

#### MATHEMATICS - 3 hrs

One of the following:

MATH 1314, College Algebra, or

MATH 1316, Plane Trigonometry, or

MATH 1332, Structures of College Mathematics
I, or

MATH 1348, Analytic Geometry, or

MATH 2313, Calculus I

#### U.S. HISTORY - 6 hrs

HIST 1301, United States History to 1877, and HIST 1302, United States History from 1877

#### POLITICAL SCIENCE - 6 hrs

GOVT 2301, U.S. and Texas Government, and GOVT 2302, American National Government

#### SCIENCE - 8 hrs

Two of the following:

BIOL 1406, General Biology I, and

BIOL 1407, General Biology II,

or

CHEM 1311/11111, General Inorganic

Chemistry I/Fundamentals of Chemistry

Laboratory I, and

CHEM 1312/1112, General Inorganic

Chemistry II/Fundamentals of Chemistry

Laboratory II,

GEOL 1403, Physical Geology, and GEOL 1404, Historical Geology, or PHYS 1401, College Physics I, and

PHYS 1401, College Physics I, an PHYS 1402, College Physics II

#### **HUMANITIES - 3 hrs**

One of the following:

ENGL 2322, Survey of British Literature I, or ENGL 2323, Survey of British Literature II, or ENGL 2327, Survey of American Literature II, or ENGL 2328, Survey of American Literature II, or ENGL 2332, Survey of World Literature I, or ENGL 2333, Survey of World Literature II

#### VISUAL & PERFORMING ARTS - 3 hrs

One of the following: ARTS 1301, Art Appreciation, or MUSI 1306, Music Appreciation, or COMM 1318, Basic Photography I

#### INSTITUTIONAL OPTION - 3 hrs

COSC 1301, Intro to Computer Systems

#### **TOTAL HOURS - 44 HRS**

#### 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:

Mass Communication **Business Administration** (Broadcasting/Mass Communication (leading to a B.B.A. in Accounting, Options) Finance, Personnel, Management and Music Marketing) Psychology Education Sociology (Elementary/Secondary Options) Social Science English (Economics/Government/History Options) Foreign Language Speech

#### Associate in Science\*

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

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

#### 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.

#### **Pre-Professional Courses of Study**

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

<sup>\*</sup>Please refer to page 58 of this catalog for degree requirements.

<sup>\*</sup>Please refer to page 59 of this catalog for degree requirements.

<sup>\*</sup>Please refer to pages 59-60 of this catalog for degree requirements.

#### **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 and Property Management** Child and Parent Development Clinical Laboratory Sciences (Medical Laboratory Technology) Computer Information Systems (Business Programming/PC Support Specialist Options) Computer Network and Information Technology (Microsoft/Novell Options) Cosmetology (Operator/Instructor Options) Culinary Arts (Culinary Arts and Food Service Management Options) Diesel Technology Drafting Technology Electrical and Electronics Technology **Emergency Medical Technology** Fire Technology (Fire Technology and Fire Administration Options) Heating, Ventilation and Air Conditioning Human Services (Alcohol and Drug Abuse)

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 pages 60-61 of this catalog for

Law Enforcement/Criminal Justice (Law

#### 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):

degree requirements.

Automotive Technology
Air Conditioning and Heating Repair
Chassis Repair
Automotive Technician
Building and Property Maintenance Technology
Basic Carpenter Helper
Basic/Intermediate Construction Technician
Basic Cabinetmaker Technician
Construction Estimator
Basic Plumbing Technician

Computer Information Systems (Business Programming/ PC Support Specialist Options)
Computer Network and Information Technology Network Technician (Microsoft/Novell Options)
Diesel Technology
Heavy Equipment Specialist
Diesel Truck Specialist
Diesel Technician

Service Manager

**Drafting Technology** 

Architectural Detailer

Machine Drafting Detailer

Structural Drafting Detailer

Pipe Drafting Detailer Technical Illustrator

Electrical/Electronics Technology

(Technician/Advanced Technician Options)

Fire Technology

Basic/Advanced Options

Heating, Ventilation and Air Conditioning

HVAC Technician (Basic/Intermediate

Options)

Sheet Metal Technician

Commercial Refrigeration Maintenance

Technician

**HVAC Shop Manager** 

Management

General Management

Small Business

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

Legal Office Clerk

Legal Office Assistant

Legal Office Specialist

Medical Office Clerk

Medical Office Assistant

Medical Office Specialist

Petroleum Technology

Well Head Pumper

Gas Compressor Operator

Gas Plant Operator

Refinery Panel Operator

#### 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

Child Development Associate (CDA)

Child Care Management

Child Care Aide

Cosmetology

Instructor

Operator

Culinary Arts

Food Production Cook

**Emergency Medical Technician** 

Basic/Intermediate/Advanced Options

Human Services (Alcohol and Drug Abuse)

Law Enforcement/Criminal Justice

County Correctional Officer

State Prison Guard

Emergency Telecommunications/Dispatcher

Basic Law Enforcement Academy

Legal Assistant

(Legal Assistant/Advanced Legal Assistant

Options)

Phlebotomy

Photography

Photo Lab Assistant

Digital Imaging Assistant

Portrait Studio Assistant

Surgical Technology

Vocational Nursing (LVN)

Please refer to page 61 of this catalog for certificate requirements.

<sup>\*</sup>Please refer to page 61 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 College.

## 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 ITSC 1401 (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, ITSC 1401 (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:

#### 

•	Other electives	24
	(See category selection list that follows.)	

#### Total Semester Hours Required ...... 63

#### Categories:

## 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
  - Physics: 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, 2303, 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, ITSC 1329\* (BCIS 1200), ITSC 1401\* (BCIS 1401), COSC 1430, COSC 2430
  - Arts 1301, 1303, 1304, 1325
  - · Business Administration: 2301
  - Child Development: CDEC 1311\* (CHLD

- 1302), CDEC 1318\* (CHLD 1311), CDEC 2341\* (CHLD 2303), CDEC 2421\* (CHLD 1408)
- Culinary Arts: CULA 1301\* (CULI 1201), CULA 2302\* (CULI 1202), CULA 2201\* (CULI 1203), PSTR 1301\* (CULI 1206)
- · Engineering: 1304
- · Legal (all courses)
- Management: BMGT 1301\* (MGMT 1301), MRKG 1311\* (MGMT 1321), BUSG 2309\* (MGMT 2331)
- Music: 1301 (1370), 1306, 1308
- Philosophy: 1301, 2306
- Office Systems Technology: POFI 2401\*
  (OFST 1404), POFI 1449\* (OFST 1406),
  POFT 1127\* (OFST 1200), POFT 1302\*
  (OFST 1402), POFT 1429\* (OFST 1421),
  POFT 1492\* (OFST 1424), POFT 2401\*
  (OFST 1422), POFT 2433 \* (OFST 2410)
- Physical Education: (all courses)
- Mass Communication: 1316, 1318, 1319, and Photography: PHTC 1313\* (PHOT 2370)
- Other Electives (24 semester hours required): In addition to the required courses in each category above, students may select an additional 12 semester hours from each category.
- \*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 ITSC 1401 (BCIS 1401) as specified in each program.
- Mathematics: Three semester hours of college-level math or as specified in each program.
- Physical Education: Two one-hour activity classes or as specified in each program. 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 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.

#### **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 which are basic to the development of courses. The OC faculty have evaluated all of their courses and written the following course descriptions, keyed to SCANS.

#### (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

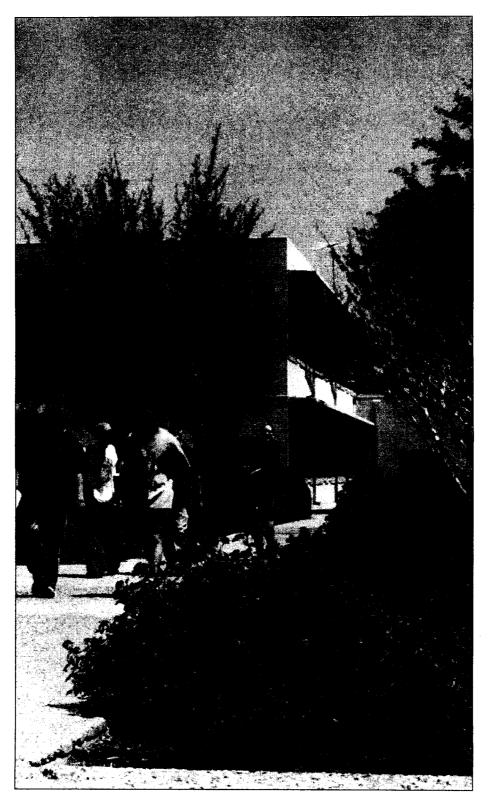
- computers to process information)
- SYSTEMS AND OTHER COMPLEX INTERRELATIONSHIPS (such as understanding organizational systems, working within social and technological groups, distinguishing and improving the systems design)
- SELECTING, APPLYING, AND MAINTAINING A VARIETY OF TECHNOLOGIES
- CREATIVE THINKING, PROBLEM SOLVING, AND DECISION MAKING
- 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. Concurrent 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.

In adopting course numbers and descriptions from The Workforce Education Course Manual as instituted by the Texas Higher Education Coordinating Board, some course numbers and descriptions will change from previous catalogs. However, other changes may occur after this catalog is published. These changes will be on record in both the Division Dean's Offices and the Office of the Executive Vice President for Instruction.

#### **Guide to Course Abbreviations**

ACCTsee Business Administration	ITSC see Computer Information Systems
AGRI see Agriculture	ITSC see Computer Network/Information
ANTH see Geology/Anthropology/Geography	ITSE see Computer Information Systems
ARTS see Art	ITSE see Computer Network/Information
AUMTsee Automotive Technology	ITSW see Computer Information Systems
BIBL see Social Sciences	ITSW see Computer Information Systems
BIOLsee Biology	LATI see English and Foreign Languages
BMGTsee Management/Tech Prep	LGLA see English and Foreign Languages
BUSGsee Management/Tech Prep	MATH see Mathematics
BUSIsee Business Administration	MCHNsee Metal Trades Technologies
CBFM see Maintenance Technologies	MDCA see Clinical Laboratory Sciences
CDEC see Child/Parent Development/Tech Prep	MLAB see Clinical Laboratory Sciences
CETT see Electrical/Electronics Technology	MRKGsee Management/Tech Prep
CHEM see Chemistry	MUAP see Music
CJCR see Law Enforcement/Criminal Justice	MUSI see Music
CJLE see Law Enforcement/Criminal Justice	NURS see Nursing
CJSA see Law Enforcement/Criminal Justice	ORIE see Orientation
CLSC Clinical Laboratory Sciences	OSHT see Occupational Safety/Health
CNBTsee Maintenance Technologies	PFPB see Maintenance Technologies
COMMsee Mass Communication	PHED see Physical and Health Education
COSCsee Computer Science	PHILsee Social Sciences
CRIJ see Law Enforcement/Criminal Justice	PHTC see Photography
CSMEsee Cosmetology	PHYS see Physics
CULA see Culinary Arts	POFIsee Office Systems Technology
DAAC see Human Services	POFLsee Office Systems Technology
DEMR see Diesel Technology	POFMsee Office Systems Technology
DFTGsee Drafting Technology	POFT see Office Systems Technology
ECON see Social Sciences	PSTR see Culinary Arts
EEIR see Electrical/Electronics Technology	PSYC see Psychology and Sociology
ELMT see Electrical/Electronics Technology	PTAPsee Physical Therapist Assistant
EMED see Emergency Medical Technology	PTHAsee Physical Therapist Assistant
ENGL see English and Foreign Languages	PTRT see Petroleum Technology
ENGR see Engineering	QCTC see Occupational Safety and Health
EPCT see Occupational Safety and Health	RADR see Radiologic (X-Ray) Technology
FIRSsee Fire Technology	RBTCsee Metal Trades Technologies
FIRTsee Fire Technology	READ see Reading
FREN see English and Foreign Languages	RESP see Respiratory Care
GEOG. see Geology/Anthropology/Geography	RNSG see Nursing - RN/LVN/Tech-Prep
GEOL . see Geology/Anthropology/Geography	RSPT see Respiratory Care
GERM see English and Foreign Languages	RSTO see Culinary Arts
GOVT see Social Sciences	SOCI see Psychology and Sociology
HART see Maintenance Technologies	SPAN see English and Foreign Languages
HIST see Social Sciences	SPCHsee Speech
HRPOsee Management/Tech Prep	SRGT see Surgical Technology
HPRS see Biology	VNSGsee Nursing – RN/LVN/Tech-Prep
IEIR see Electrical/Electronics Technology	WDWK see Maintenance Technologies
ITNW see Computer Information Systems	WLDGsee Metal Trades Technologies
ITNW see Computer Network/Information	XRAY see Radiologic (X-Ray) Technology



áir

### **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

	sters Hr
General Education Requirements	42
BIOL 1406 General Biology I	4
CHEM 1311/1111 Gen. Inorganic Chemistry/Fundamentals of Chem Lab I	4
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	3
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra or higher level math	3
MATH 1316 Plane Trigonometry or higher level math	
PHED (any one-hour activity course)	1
SPCH 1315 Public Speaking	.,, 3
Elective	
Major Requirements	22-23
AGRI 1231 The Agricultural Industry	
AGRI 1309 Computers in Agriculture	
AGRI 1407 Agronomy	
AGRI 1419 Animal Science	
AGRI 2317 Agriculture Economics	
AGRI 2321 Livestock Evaluation I	
*AGRI Elective	3 or 4
Total Sameeter House	64-65

\*Second-year requirements for agriculture electives may be fulfilled by taking any combination of the following courses: AGRI 1413, AGRI 1415, and AGRI 2322. 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 stables for horses.

## Course of Study for Associate in Science Degree Agriculture - Equine Emphasis

	Semesters Hrs
General Education Requirements	42
BIOL 1406 General Biology I	
CHEM 1311/1111 Gen. Inorganic Chemistry/Fundamentals of Chem Lab I	
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
MATH 1314 College Algebra or higher level math	3
MATH 1316 Plane Trigonometry or higher level math	3
PHED (any one-hour activity course)	1
SPCH 1315 Public Speaking	3
Elective	3
Major Requirements	21
AGRI 1231 The Agricultural Industry	
AGRI 1309 Computers in Agriculture	
AGRI 1419 Animal Science	
AGRI 2321 Livestock Evaluation I	
AGRI 2322 Livestock Evaluation II	
PHED 1114, PHED 1115, PHED 2116 Beginning, Intermediate and Advance	
PHED 1332 Game Skills for Equestrian Sports and Recreation	
The 1992 dame owns for equestion opons and necreation	
Total Semester Hours	63
Agriculture Courses	
AGRI 1131 The Agriculture Industry (01.0103.5221)	
(1-0)	
An introduction course to the field of agriculture to aid in the understanding sciences and other fields of agriculture. Students will be required to read and agricultural terminology. (SCANS 1) Prerequisite: None.	,
AGRI 1231 The Agriculture Industry (01.0103.5221) (2-0)	2 hours
An introduction of the basic components of the agricultural industry in the Unite consideration for changing economic focus of the equine industry. (SCANS 1	ed States with a special
AGRI 1309 Computers in Agriculture (01.0101.5121)	
(3-0)	vironment. Students will horses or other animals

#### **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. **AGRI 1413 Economic Entomology** (02.0408.5121) A study of the principal insects and pests of crops and livestock, including life history, methods of attack, damage and control. Students will be required to evaluate and interpret information as it pertains to integrated pest management, and biological controls. Collection and mounting of insects is required. Decision-making and reasoning skills will be used in the proper application of agronomy principles. (SCANS 1, 6, 9) Prerequisite: None. **AGRI 1415 Horticulture** (01.0601.5121) This course familiarizes the student with the fields of horticulture and the place of horticulture in 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 used in decisions concerning control of environment and plant growth with considerations of biological 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. AGRI 1419 Animal Science (02.0201.5121) An introduction to the importance of the livestock industry in the United States, with emphasis in the state of Texas. Students will be required to read and comprehend extensive terminology including the study of the types and breeds of livestock and the market classes as well as grades of beef cattle, dairy cattle, sheep, swine and horses. Decision-making and reasoning skills will be used in determining principles involving heredity and breeding for improvement, judging, care and management. (SCANS 1, 6, 9) Prerequisite: None. AGRI 2317 Agriculture Economics (01.0103.5121) (3-0)......3 hours A study of the basic concepts and theory of the present economic system through a process of interpretation of written information. Includes an analysis and mathematical calculations of profit margin of farm and ranch enterprises as well as commercial industry, their organization and management, the structure and operation of the marketing system, and political economic setting. Functional and institutional aspects of agricultural finance and state and federal farm programs are covered. (SCANS 1, 3, 6, 7) Prerequisite: None. **AGRI 2321 Livestock Evaluation I** (02.0201.5221) An introduction of the basic factors for selection and evaluation of cattle, sheep and swine with a special emphasis on the breeding and performance of horses. (SCANS 1, 6, 9) Prerequisite: None. **AGRI 2322 Livestock Evaluation II** (02.0201.5221) A continuation of AGRI 2321 with a special emphasis on the performance and management of horses. (SCANS 1, 6, 9) Prerequisite: None. Anthropology (see Geology, Anthropology, and Geography)

#### Art

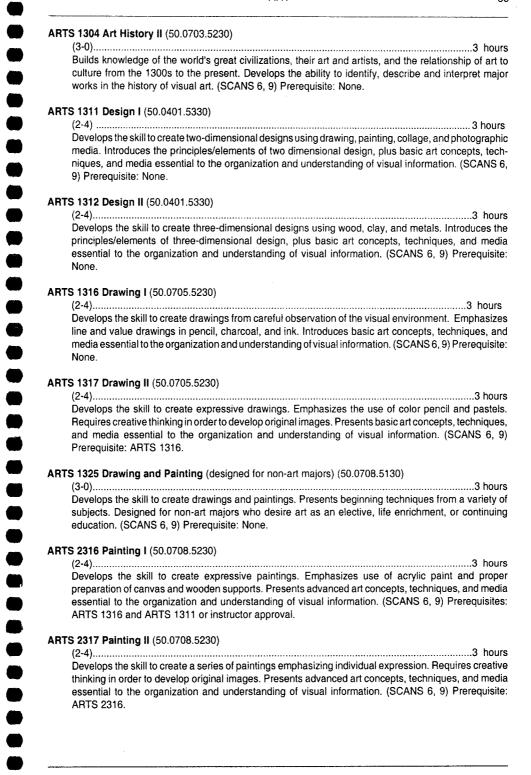
Faculty: Steve Goff, chair; Barry Phillips, III; Barry Phillips.

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 ceramics. 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

Art	
	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (sophomore level)	6
*Foreign Language, Math or Science	6-8
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
	Semester Hrs
lajor Requirements	27
ARTS 1303 Art History I	
ARTS 1304 Art History II	
ARTS 1311 Design I	3
ARTS 1312 Design II	
ARTS 1316 Drawing I	
ARTS 1317 Drawing II	
**Approved electives	9
Total Semester Hours	65-67
Six to eight semester hours in same discipline.	
*Any three sophomore level ARTS courses .	
The state of the s	
Art Courses	
ARTS 1301 Art Appreciation (50.0703.5130)	0.5
(3-0)  Develops the ability to enjoy visual art and understand its importance. Introduces	
forms, and history. (SCANS 6, 9) Prerequisite: None.	basic all triedry,
ARTS 1303 Art History I (50.0703.5230)	
(3-0)	3 hours
Builds knowledge of the world's great civilizations, their art and artists, and the rel- culture from prehistoric times through the 1400s. Develops the ability to identify, desc major works in the history of visual art. (SCANS 6, 9) Prerequisite: None.	ationship of art to ribe, and interpret



#### ARTS 2323 Figure Drawing I (50.0705.5330) Develops skill in drawing the human figure. Emphasizes handling of gesture, volume, anatomy and proportion using a variety of media. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (SCANS 6, 9) Prerequisite: ARTS 1316 or instructor approval. ARTS 2324 Figure Drawing II (50.0705.5330) Develops the skill to create a series of figure drawings emphasizing individual expression. Requires creative thinking in order to develop original images. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (SCANS 6, 9) Prerequisite: ARTS 2323. ARTS 2326 Sculpture I (50.0709.5130) Develops the skill to create expressive sculpture using clay, wood, and metals. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. Lab fee required. (SCANS 6, 9) Prerequisite: ARTS 1312 or instructor approval. **ARTS 2327 Sculpture II** (50.0709.5130) Develops the skill to create a sculpture series emphasizing individual expression in a particular sculpture medium and technique. Requires creative thinking in order to develop original images. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. Lab fee required. (SCANS 6, 9) Prerequisite: ARTS 2326. ARTS 2333 Printmaking I (50.0710.5130) Develops the skill to create original prints using relief, intaglio, and screen techniques. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (SCANS 6, 9) Prerequisite: ARTS 1316 or instructor approval. **ARTS 2334 Printmaking II** (50.0710.5130) Develops the skill to create a series of prints emphasizing individual expression in a particular printmaking medium and technique. Requires creative thinking in order to develop original images Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (SCANS 6, 9) Prerequisite: ARTS 2333. ARTS 2346 Ceramics I (50.0711.5130) Develops the skill to create original pottery using coil, slab, and wheel techniques. Includes bisque, glaze, sawdust, and raku firings. Presents advanced art concepts, technique, and media essential to the organization and understanding of visual information. Lab fee required. (SCANS 6, 9) Prerequisite: None. ARTS 2347 Ceramics II (50.0711.5130) Develops the skill to create pottery emphasizing individual expression. Requires creative thinking in order to develop original images. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. Lab fee required. (SCANS 6, 9) Prerequisite: ARTS 2346.

#### ARTS 2356 Photography I (50.0605.5130) **COMM 1318 Photography II (50.0605.5130)** Introduction to the basics of photography. Includes camera operation, techniques, knowledge of chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a means of developing an understanding of photographic aesthetics. The student will assess and select equipment, supplies and techniques to incorporate basic theories of film, exposure, development, filters and printing. Students will use efficient learning techniques to acquire and apply creative knowledge and to communicate with others. Lab fee required. (SCANS 4, 8, 9, 11) Prerequisite: None. ARTS 2357 Photography II (50.0605.5230) **COMM 1319 Photography II** (50.0605.5230) Extends the students' knowledge of technique and guides them in developing personal outlooks toward specific applications of the photographic process. Students will use efficient learning techniques to acquire and apply creative knowledge and to communicate with others. Designed for additional experience in the photographic medium. Lab fee required. (SCANS 4, 8, 9, 11) Prerequisite: COMM 1318 or ARTS 2356 or its equivalent. ARTS 2366 Watercolor I (50.0708.5330) Develops the skill to create expressive watercolor paintings. Includes transparent wash and opaque painting techniques, Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (SCANS 6, 9) Prerequisite: ARTS 1316 or instructor approval. ARTS 2367 Watercolor II (50.0708.5330) Develops the skill to create a series of watercolor paintings emphasizing individual expression. Requires creative thinking in order to develop original images. Presents advanced art concepts,

techniques, and media essential to the organization and understanding of visual information. (SCANS

6, 9) Prerequisite: ARTS 2366.

### **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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Automotive Technology

Automotive Technology	
	Semester Hrs
General Education Requirements	
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government	3
MATH 1314 College Algebra or higher level math	3
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	47
AUMT 1407 Automotive Electrical Systems (AUTO 2501)	4
AUMT 1410 Automotive Brake Systems (AUTO 1504)	
AUMT 1416 Suspension and Steering (AUTO 1504)	
AUMT 1419 Automotive Engine Repair (AUTO 1502)	
AUMT 1445 Automotive Heating and Air Conditioning (AUTO 2502)	
AUMT 2380 Cooperative Education-Auto/Automotive Mechanic/Technician (AUTO 2	
AUMT 2413 Manual Drive Train and Axles (AUTO 1503)	
AUMT 2417 Engine Performance Analysis I (AUTO 2503)	4
AUMT 2425 Automatic Transmission and Transaxle (AUTO 1503)	4
AUMT 2434 Engine Performance Analysis II (AUTO 2505)	4
AUMT 2537 Automotive Electronics (AUTO 2504)	
*Elective	3
Total Semester Hours	64
*See department chair for list of approved electives.	
Automotive Technology Certificates of Technology	ay ve
Level I certificates are TASP-waived.	
Level I - Air Conditioning and Heating Repair	
	Semester Hrs
AUMT 1407 Automotive Electrical Systems (AUTO 2501)	
AUMT 1445 Automotive Heating and Air Conditioning (AUTO 2502)	4
ALIMAT CAAT Foreign Destructions April 1/2 (ALITO OFFICE)	

AUMT 2417 Engine Performance Analysis I (AUTO 2503) 4
AUMT 2537 Automotive Electronics (AUTO 2504) 5

<u> Level I – Chassis Repair</u>	Camentau II
AUMT 1407 Automotive Electrical Systems (AUTO 2501)	Semester Hrs
AUMT 1410 Automotive Brake Systems (AUTO 1504)	
AUMT 1416 Suspension and Steering (AUTO 1504)	4
AUMT 2417 Engine Performance Analysis (AUTO 2503)	4 A
Admi 2477 Engine i endimande Analysis (Ad 10 2000)	4
otal Semester Hours	16
Level I – Automotive Technician	
ALBAT 1407 Automotive Flectrical Systems (ALITO 0501)	Semester Hrs
AUMT 1407 Automotive Electrical Systems (AUTO 2501)	
AUMT 1410 Automotive Brake Systems (AUTO 1504)	
AUMT 1419 Automotive Engine and Repair (AUTO 1502)	
AUMT 1445 Automotive Heating and Air Conditioning (AUTO 2502)	
AUMT 2413 Manual Drive Train and Axles (AUTO 1503)	
AUMT 2417 Engine Performance Analysis I (AUTO 2503)	
AUMT 2425 Automotive Transmission and Transaxle (AUTO 1503)	
AUMT 2434 Engine Performance Analysis II (AUTO 2505)	
AUMT 2537 Automotive Electronics (AUTO 2504)	5
otal Semester Hours	41
Course of Study for Advanced Skills Certificate (Level III – Auto Shop Manager  May only be awarded along with or following completion of associate or higher-level.)	evel degree. Semester Hrs
ITSC 1305 Introduction to PC Operating Systems (BCIS 1302)	3
BMGT 1301 Supervision (MGMT 1301)	
HRPO 1311 Human Relations (MGMT 2304)	3
otal Semester Hours	9
Automotive Courses	
AUMT 1407 Automotive Electrical Systems [formerly AUTO 2501] (47.0604)	
(2-6)	
An overview of automotive electrical systems including topics in operational theory, and repair of batteries, charging and starting systems, and electrical accessor electrical schematic diagrams, and service manuals. May be taught manufacture required. (SCANS 3, 5, 6, 7, 8, 9) Prerequisite: None.	ries. Emphasis on
AUMT 1410 Automotive Brake Systems [formerly AUTO 1504] (47.0604) (2-6)	4 hours
Operation and repair of drum/disc type brake systems. Emphasis on safe use of n Topics include brake theory, diagnosis, and repair of power, manual, anti-lock by parking brakes. May be taught manufacturer specific. Lab fee required. (SCANS 3	nodern equipment. rake systems, and
Prerequisite: None.	
Prerequisite: None. <b>AUMT 1416 Suspension and Steering</b> [formerly AUTO 1504] (47.0604)  (2-6)	4 hours

AUMT 1419 Automotive Engine Repair [formerly AUTO 1502] (47.064) (2-6)
Fundamentals of engine operation, diagnosis and repair including lubrication and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, and disassembly, repair and reassembly of the engine. May be taught manufacturer specific. Lab fee required. (SCANS 1, 3, 4, 6, 7, 8, 9) Prerequisite: None.
AUMT 1445 Automotive Heating and Air Conditioning [formerly AUTO 2502] (47.0604) (2-6)
Theory of automotive air conditioning and heating systems. Emphasis on the basic refrigeration cycle and diagnosis and repair of system malfunctions. Covers EPA guidelines for refrigerant handling and new refrigerant replacements. May be taught manufacturer specific. Lab fee required. (SCANS 1, 3, 4, 5, 6, 7, 9, 10, 11) Prerequisite: None.
AUMT 2380 Cooperative Education – Auto/Automotive Mechanic/Technician [formerly AUTO 2377] (47.0604)
(1-20)
Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of the department chair.
AUMT 2413 Manual Drive Train and Axles [formerly AUTO 1503] (47.0604)
(2-6)
AUMT 2417 Engine Performance Analysis I [formerly AUTO 2503] (47.0604) (2-6)
Theory, operation, diagnosis, and repair of basic engine dynamics, ignition systems, and fuel delivery systems. Use of basic engine performance diagnostic equipment. May be taught manufacturer specific. Lab fee required. (SCANS 1, 4, 5, 6, 7, 8, 11) Prerequisite: None.
AUMT 2425 Automatic Transmission and Transaxle [formerly AUTO 1503] (47.0604)
(2-6)
AUMT 2434 Engine Performance Analysis II [formerly AUTO 2505] (47.0604)
(2-6)
AUMT 2537 Automotive Electronics [formerly AUTO 2504] (47.0604)
(4-4)
Bible (see Social Sciences)

**BIOLOGY** 

### **Biology**

Faculty: Rebecca Hennig, chair; Carolyn Amiet, Dr. Chet Cooper, Kristi Deramus, 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 **Biology**

Semester	–
General Education Requirements	. 60
CHEM 1311/1111 General Inorganic Chemistry I/ Fundamentals of Chemistry Laboratory I	
CHEM 1312/1112 General Inorganic Chemistry II/ Fundamentals of Chemistry Laboratory II	
CHEM 2323/2123 Organic Chemistry I/ Organic Chemistry Lab I	4
CHEM 2325/2125 Organic Chemistry II/ Organic Chemistry Lab II	
COSC 1415 Introduction to Computer Science	4
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	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	3
MATH 1314 College Algebra or higher level math	3
MATH 1316 Plane Trigonometry or higher level math	
PHED (any two one-hour activity courses)	
PHYS 1401 College Physics I	
PHYS 1402 College Physics II	4
SPCH 1315 Public Speaking	3
Major Requirements11	_12
BIOL 1406 General Biology I	
BIOL 1400 General Biology I	
*Electives	
LIGOUYGS	J-3
Total Semester Hours	-73

\*Requirements for biology electives may be fulfilled by taking any combination of the following courses: AGRI 1407, Agronomy; AGRI 1413, Economic Entomology; AGRI 1415, Horticuture; BIOL 2306, Environmental Biology; BIOL 2470, Marine Ecology; BIOL 2420, Microbiology or BIOL 2428, Comparative Anatomy. Choice of an elective may depend upon students' plans for future study. Students should consult with the biology faculty for information regarding these courses.

#### **Biology Courses**

	<b>BIOL 0371</b>	Developmental	Science	(32.0106.5139)
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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 1406 General Biology I** (26.0101.5124) This course is a study of the organizational aspects of cells from molecular to organismic levels. Students learn to understand and interpret terms and discover principles covering cell anatomy, cell biochemistry, cellular respiration, photosynthesis, cell reproduction and genetics. A taxonomic survey of the five kingdoms is also covered. In laboratory activities students learn to perform basic mathematical calculations of converting between the metric and English systems of measurement and acquire experimental data and reason to the interpretation of principles underlying the observations including cause and effect relationships. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite: Pass reading and math on TASP. **BIOL 1407 General Biology II** (26.0101.5124) Students continue their understanding and interpretation of biological terms with respect to plant and animal growth, plant and animal tissues and systems, ecology, evolution and behavior. Laboratory investigations include basic mathematical calculations of ecological parameters, acquiring practical experience in the dissection of a mammal with reasoning to the relationships between form and function and make decisions relative to cause and effect relationships. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite: BIOL 1406. **BIOL 1408 Principles of Biology** (26.0101.5124) Students with majors requiring only one semester of biology learn to understand and interpret biological terms, especially as they apply to their own bodies and the environment in which they live. Through laboratory activities that include experimentation and microscopic examination, students acquire and evaluate information and formulate relationships between form and function and make decisions relative to cause and effect. Lab fee required. (SCANS 3, 6, 9) Prerequisite: None. BIOL 2306 Environmental Biology (03.0102.5124) An investigation into the interdisciplinary study of basic ecological principles and relationships between living organisms. Emphasis is placed on human interaction with aquatic and terrestrial communities and how these relationships affect conservation, pollution, waste management, depletion of nonrenewable resources as well as environmental economics and politics. (SCANS 1, 6, 9) Prerequisite: One semester of either biology or geology or consent of the instructor. **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) Prerequisites: Pass reading and math on TASP. In addition, demonstration of basic competence in science, either by passing a placement exam, or credit with a grade of "C" or better in BIOL 0371 or BIOL 1406, or completion of CHEM 1111 and CHEM 1311, or consent of the course instructor.

**BIOL 2402 Anatomy & Physiology II (** 26.0706.5124)

or consent of the instructor.

#### **BIOL 2404** Human Anatomy & Physiology (26.0706.5124) In this one semester course students learn scientific terminology, specific information and concepts about the anatomy and physiology of the 11 body systems. In laboratory exercises students learn mathematical calculations for conversions between the metric and English systems of measurement, the anatomy of muscles, bones, nervous organs, blood vessels and endocrine glands, plus various organs of other systems. Lab fee is required. (SCANS 1, 3, 6, 9) Prerequisite: Demonstration of basic competency in biology either with a grade of "C" or better in BIOL 0371 or consent of the instructor. **BIOL 2420 Microbiology** (26.0501.5124) Students learn specific information and concepts in the classification, structure, cultivation and ecology of microorganisms. Students learn mathematical calculations of growth parameters and the effectiveness of chemotherapeutic agents. Students learn terminology, specific information and concepts of the relationships between microorganisms and human life. Cause and effect relationships between microbial growth and human disease, interpretation of symptomatic and laboratory information in diagnosis of disease, prevention of disease and treatment of disease are stressed. Lab fee is required. (SCANS 1, 3, 6, 9) Prerequisites: BIOL 1406 and 1407, or BIOL 2401 and BIOL 2402, or CHEM 1311 and CHEM 1111 or consent of the instructor. **BIOL 2428 Comparative Anatomy** (26.0701.5324) In this course students learn the terminology, specific information relating to and concepts of comparative anatomies of type chordates. Students learn to interpret the progressive developments of organ and organ systems from information gained in the dissection of representative animals from the Vertebrata. Lab fee required. (SCANS 1, 6, 9) Prerequisites: BIOL 1406 and BIOL 1407 or consent of the instructor. **BIOL 2470 Marine Ecology** (03.0102.7139) A 13-day course extended over a four-week period that includes a pre-trip orientation, an 11-day field trip to Puerto Penasco, Sonora, Mexico, and a post-trip student research presentation and summary discussions. This course is offered during the Midwinter Session and between spring and summer semesters. The course involves a comprehensive and systematic study of intertidal (littoral) marine organisms, including: field observations, collecting, preservation techniques, classification, life histories, organism associations and communities, and ecological adaptations. Students desiring transferability of credit for this course to a senior institution should check with the senior institution. A special lab fee is required. (SCANS 1, 6, 9) Prerequisite: Consent of the instructor. HPRS 1106 Medical Terminology [formerly BIOL 1170] (51.9999) (1-0) ...... 1 hour A study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures. (SCANS 1) Prerequisite: None. **Broadcasting** (See Mass Communication) Building and Property Maintenance (See Maintenance Technologies)

### **Business Administration**

Faculty: J.D. Roberts, 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 Hrs	5
General Education Requirements53	1
COSC 1301 Introduction to Computer Systems or	
* ITSC 1401 Introduction to Computers (BCIS 1401) or higher level	J
ECON 2301 Principles of Economics I (Macro)	ļ
ECON 2302 Principles of Economics II (Micro)	}
ENGL 1301 Composition and Rhetoric	ļ
ENGL 1302 Composition and Literature	į
ENGL (sophomore Level)	
GOVT 2301 U.S. and Texas Government	j
GOVT 2302 American National Government	j
HIST 1301 U.S History to 1877	ļ
HIST 1302 U.S. History from 1877	3
MATH 1324 Mathematical Analysis for Business I	j
MATH 1325 Mathematical Analysis for Business II	ļ
MATH 1442 Business Statistics4	
PHED (any two one-hour activity courses)2	
Science (two sequential semesters of a lab science in Biology, Chemistry, Geology or Physics) 8	ļ
SPCH 1321 Business and Professional Speech	j
Major Requirements	
ACCT 2301 Principles of Accounting I	ì
ACCT 2302 Principles of Accounting II	ļ
BUSI 1301 Introduction to Business	
*BUSI 2301 Business Law I	ŀ
Total Semester Hours65	į

\*May not be accepted by all four-year or upper-level institutions. The student should consult the course catalog of the upper level institution they plan to transfer to or department advisor.

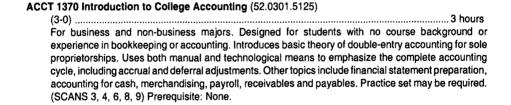
## Business Administration Core Curriculum Leading to Degrees in Accounting, Finance, Personnel, Management, Marketing, etc.

Core courses leading to the degrees listed above from four-year institutions are the same as those listed for the associate in arts degree (business administration) at Odessa College. The courses listed for the associate in arts degree from Odessa College are transferable between Texas institutions of higher education under the common course numbering system.

#### **Business Administration Courses**

#### **BUSI 1301 Introduction to Business (52.0101.5125)** Presents an overview of various components of business and industry. Emphasizes integration of text material with current and local business operations and decision-making processes. Learning activities include background reading and applications from text materials, current events, class discussions. written reports, guest speakers and occasional work-site visits. Also aids students in career planning by emphasizing aptitudes and skills expected in various fields of business specializations. (SCANS 6, 7, 10, 11) Prerequisite: None. **BUSI 2301 Business Law I** (22.0101.5125) (3-0) \_\_\_\_\_\_\_3 hours Provides information about the legal system and its impact on business operations and decisions. Learning activities provide students opportunities to acquire factual information about designated topics as well as to apply and relate that knowledge to simulated and current business situations. Topics covered include the legal environment of business, the nature and source of legal systems, law of contracts, agency, government regulation of business, and property. Ethical perspectives are integrated throughout the course. (SCANS 6, 7, 9, 11) Prerequisites: Passed TASP English, reading. **BUSI 2302 Business Law II** (22.0101.5225) (3-0) 3 hours A continuation of BUSI 2301. Learning activities provide opportunities for students to acquire factual information about specific areas of law as well as opportunities for students to apply and relate that knowledge to simulated and current business situations. Topics covered include legal principles of sales, commercial paper, secured transactions, bankruptcy, and business organization. Ethical perspectives are integrated throughout the course. (SCANS 6, 7, 9, 11) Prerequisites: TASP English, reading. **BUSI 2379 Spreadsheet Applications for Decision Making** (52.0301.5125) (2-3) 3 hours Use of microcomputer spreadsheet software as a tool for analysis and decision making is introduced. Learning activities and materials provide opportunities for students to apply principles of accounting using both spreadsheets and related graphics. Applications include both pre-programmed problemsolving and model-building problems for more complex cases. Lotus 1-2-3 is the primary spreadsheet utilized, but similarities to other spreadsheet programs (Quattro Pro, Microsoft Excel, etc.) are included. Specific applications incorporate budgeting, financial planning, preparation of financial statements, reports, graphs, depreciation schedules, inventory control, statistical analysis, tax planning and performance of "what-if" analysis. (SCANS 2, 3, 4, 6, 8, 9) Prerequisite: ACCT 1370 or ACCT 2301.

#### **Accounting Courses**



#### ACCT 2301 Principles of Accounting I (52.0301.5125)

#### ACCT 2302 Principles of Accounting II (52.0301.5125)

### **Chemistry**

Faculty: G. Brent McAfee, chair; Dr. Rajeswari Ganesan.

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

	Selliesiei UIS
General Education Requirements	44
COSC 1415 Introduction to Computer Science	4
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
MATH 1348 Analytic Geometry	3
MATH 2313 Calculus I	
PHED (any two one-hour activity courses)	2
*PHYS 2425 Engineering Physics I	
*PHYS 2426 Engineering Physics II	
SPCH 1315 Public Speaking	
	• • • • • • • • • • • • • • • • • • • •

Maio	Requirements 18
	CHEM 1311/1111 General Inorganic Chemistry I/ Fundamentals of Chemistry Lab I
	CHEM 1312/1112 General Inorganic Chemistry II/ Fundamentals of Chemistry Lab II
	CHEM 2271 Organic Nomenclature
	CHEM 2323/2123 Organic Chemistry I/Organic Chemistry Lab I
	CHEM 2325/2125 Organic Chemistry II/Organic Chemistry Lab II
** A	proved Electives3-
Total	Semester Hours
	S 1401 and PHYS 1402 satisfy the Odessa College requirement for an associate degree for premedic nts, but only PHYS 2425 and PHYS 2426 will transfer to satisfy a science requirement.
	roved electives: CHEM 1204, CHEM 2301 or CHEM 2101; FREN 1411 or FREN 1412; GERM 141 RM 1412; MATH 2314.
	Chemistry Courses
	Il 1105 Introductory Chemistry Laboratory (40.0501.5139)
	(0-3)
	A laboratory course that illustrates and reinforces principles and concepts of CHEM 1305 by use of quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 1309
	// 1111 Fundamentals of Chemistry Laboratory I (40.0501.5239)
	(0-3)
	A laboratory course that illustrates and reinforces principles and concepts of CHEM 1311 by use of quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling
	scientific equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 131
	# 1112 Fundamentals of Chemistry Laboratory II (40.0501.5239)
	(0-3)
	A laboratory course that illustrates and reinforces principles and concepts of CHEM 1312 by use qualitative and quantitative experiments. Emphasizes interpreting and reporting of data. Stresse facility in handling scientific equipment. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite of prerequisite: CHEM 1312.
CHE	# 1204 Chemical Calculations [formerly CHEM 1207] (40.0502.5239)
	(2-0)2 hour
	A lecture course that emphasizes the problem-solving techniques that are used in CHEM 131
	Involves reading problems and using critical thinking skills and mathematics to organize the informatic
	and arrive at an answer. Can be used to fulfill the 10-hour freshman chemistry course or chemic
	engineering calculations course taught at some senior colleges. (SCANS 1, 3, 6, 9) Prerequisit
	CHEM 1311.
	M 1305 Introductory Chemistry (40.0501.5139)
	(3-0) 3 hour
	A lecture course in elementary chemistry. Primarily for non-majors or people desiring a one-semeste
	introductory chemistry course. Includes terminology, nomenclature, stoichiometry, states of matter
	solutions, equilibria, etc. The student will be involved in reading information or problems and using
	critical thinking skills and mathematics to organize the information or to arrive at an answer; also
	requires student writing skills in order to communicate the information acquired in a written formation
	(SCANS 1, 3, 6, 9) Prerequisite: Passed all sections of the TASP exam. An understanding of bas
	mathematics, including simple algebra. (Credit probably not transferable until CHEM 1105 successful completed.)

#### CHEM 1311 General Inorganic Chemistry I (40.0501.5239) A lecture course designed as a first college-transfer course for students with some background in physical science. Covers such topics as chemical stoichiometry, atomic structure, bonding, formulas, equations, gas laws, solutions, etc. The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1, 3, 6, 9) Prerequisite: Passed all sections of the TASP exam and be eligible to take College Algebra. (Credit probably not transferable until CHEM 1111 is successfully completed.) CHEM 1312 General Inorganic Chemistry II (40.0501.5239) (3-0) \_\_\_\_\_\_3 hours A lecture course that is a continuation of CHEM 1311. Includes solutions, chemical kinetics, acids and bases, equilibrium, electrochemistry, thermodynamics, coordination chemistry, nuclear chemistry, organic chemistry, etc. The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1, 3, 6, 9) Prerequisite: Math 1314 and a minimum grade of "C" in CHEM 1311. (Credit probably not transferable until CHEM 1112 is successfully completed.) CHEM 2101 Analytical Chemistry Laboratory I (40.0502.5139) 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 individual laboratory project with a formal written report over the project. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 2301. CHEM 2123 Organic Chemistry Laboratory I (40.0504.5239) A laboratory course that illustrates and reinforces principles and concepts of CHEM 2323. The course is designed to concentrate on the techniques of preparing organic compounds, separation, purification and identifying the prepared compound. Some of the techniques include melting points, recrystallization, extraction, distillation and interpretation of IR, NMR and chromatography spectra. A project will be done that includes using the library and writing a research paper. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 2323. CHEM 2125 Organic Chemistry Laboratory II (40.0504.5239) A laboratory course that illustrates and reinforces principles and concepts of CHEM 2325. The course includes organic synthesis, isolation of product and identification of product using the techniques from CHEM 2123 and CHEM 2323. Each synthesis requires the acquisition of instrumental spectra, interpretation of the spectra and qualitative analysis of the product. The course also requires an individual laboratory project with a formal written report over the project. Lab fee required. (SCANS 1, 3, 6, 8, 9) Corequisite or prerequisite: CHEM 2325. **CHEM 2271 Organic Nomenclature** (40.0504.7239)

consent of the instructor.

#### CHEM 2301 Analytical Chemistry (40.0502.5139)

A lecture course that is a study of fundamental principles of elementary quantitative analysis, both theoretical and practical. Includes equilibrium, gravimetric analysis, volumetric analysis and introduction to instruments (AA, GC, UV, spectroscopy, pH meters, IR and NMR). The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1, 3, 6, 9) Corequisite or prerequisite: CHEM 1312. (Credit probably not transferable until CHEM 2101 is successfully completed.)

#### CHEM 2323 Organic Chemistry I (40.0504.5239)

A lecture course that presents a mechanistic approach to an integrated study of aliphatic, alicyclic and aromatic hydrocarbons. Includes an introduction to instrumental methods applicable to organic chemistry. The student will be involved in reading information or problems and using critical thinking skills to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1, 6, 9) Prerequisite: A minimum grade of "C" in CHEM 1312. Corequisite: CHEM 2271 or consent of the instructor. (Credit probably not transferable until CHEM 2123 is successfully completed.)

#### **CHEM 2325 Organic Chemistry II** (40.0504.5239)

A lecture course that is a continuation of CHEM 2323 which is an integrated study of organic compounds by functional groups. Includes an introduction to biochemistry. The student will be involved in reading information or problems and using critical thinking skills to organize the information to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. (SCANS 1, 3, 6, 9) Prerequisite: A minimum grade of "C" in CHEM 2323. Corequisite: CHEM 2125 (Credit probably not transferable until CHEM 2125 is successfully completed.)

### 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

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

Child and Parent Development	lrs (
Semester H	
General Education Requirements	17
*COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	3 3
MATH 1332 Structures of College Mathematics I or higher level math	_
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Major Requirements	45
*CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	. 3
CDEC 1319 Child Guidance (CHLD 1307)	3
*CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	3
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)	
CDEC 1391 Special Topics in Family Life and Relations Studies (CHLD 2301)	5
CDEC 1393 Special Topics in Family Living and Parenthood (Abuse and Neglect) (CHLD 1304) *CDEC 1403 Family and the Community (CHLD 1150)	
CDEC 1413 Curriculum Resources for Early Childhood Programs (CHLD 2403)	4
CDEC 1421 Infant and Toddler (CHLD 1408)	
CDEC 2341 The School Age Child (CHLD 2303)	3
CDEC 2384 Cooperative Education in Child Development (CHLD 2377)	
PHED 1306 First Aid	3
,	
*Indicates courses which may be articulated by tech-prep agreement with high school.	68
Course of Study for Certificate of Completion  Level I certificates are TASP-waived.	
Level I Certificate - Child Care Aide	
Semester H	rs
General Education Requirements	
*COSC 1301 Introduction to Computer Systems	3
Malan Banadan and a	40
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)	4
Related Requirements	,
PHED 1306 First Aid	
THED TOUGHTS AND	3
Total Semester Hours	19
*Indicates courses which may be articulated by tech-prep agreement with high school.	
	4.6
	90

<u> Level I Certificate – Child Development Associate (CDA)</u>	Semester Hrs
General Education Requirements	3
*COSC 1301 Introduction to Computer Systems	3
Major Requirements	16
*CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	3
*CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	3
CDEC 1319 Child Guidance (CHLD 1307)	3
*CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	3
*CDEC 1403 Family and the Community (CHLD 1150)	
Related Requirements	
PHED 1306 First Aid	3
Total Semester Hours	22
*Indicates courses which may be articulated by tech-prep agreement with high school.	
Level II Certificate - Child Care/Preschool Assistant Teache	<u>r</u>
General Education Requirements	Semester Hrs
*COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	
MATH 1332 Structures of College Mathematics I or higher level math	
PSYC 2308 Child Psychology	
Major Requirements	32
*CDEC 1311 Introduction to Early Childhood Education (CHLD 1302)	3
*CDEC 1318 Nutrition, Health and Safety (CHLD 1311)	3
CDEC 1319 Child Guidance (CHLD 1307)	
CDEC 1356 Emergent Literacy for Early Childhood (CHLD 2305)	
*CDEC 1358 Creative Arts for Early Childhood (CHLD 1305)	
CDEC 1391 Special Topics in Family Life and Relations Studies (CHLD 2301)	
CDEC 1393 Special Topics in Family Living and Parenthood (Abuse and Neglect)	
*CDEC 1403 Family and the Community (CHLD 1150)	
CDEC 1421 Infant and Toddler (CHLD 1408)	
CDEC 2384 Cooperative Education in Child Development (CHLD 2377)	
Related Requirements	3
PHED 1306 First Aid	
Total Semester Hours	47
*Indicates courses which may be articulated by tech-prep agreement with high school.	
Level III Certificate - Child Care Management	
(Advanced Skills Certificate)  May only be awarded along with or following completion of associate or a higher-le	wol dagroo
May only be awarded along with or following completion of associate of a higher-le	Semester Hrs
Major 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
Related Requirements	6
BMGT 1301 Supervision (MGMT 1301)	
HRPO 1311 Human Relations (MGMT 2304) or BUSG 2309 Small Business	
Management (MGMT 2331)	3
Total Semester Hours	12

#### **Child Development Courses**

#### CDEC 1311 Introduction to Early Childhood Education [formerly CHLD 1302] (20.0201) An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics and current issues. Presents the development theorists, the four areas of development, the ages and stages of development as well as how to choose and implement appropriate activities. Lab assignments are designed to allow students to use their reasoning ability to solve problems, make decisions and interpret observational forms. Lab fee required. (SCANS 1, 4, 9) Prerequisite: None. CDEC 1318 Nutrition, Health and Safety [formerly CHLD 1311] (20.0201) A study of nutrition, health, and safety, including community health, universal health precautions, and legal implications. Practical application of these principles in a variety of settings. Requires choosing, planning and implementing food, health and safety activities with children. Lab fee required. (SCANS 1,3) Prerequisite: None. CDEC 1319 Child Guidance [formerly CHLD 1307] (20.0201) An exploration of guidance strategies for promoting prosocial behaviors in children. Emphasis on positive guidance principles and techniques, family involvement and cultural influences. Practical application through direct participation with children. Provides opportunity to evaluate and understand individuals' expectations regarding discipline and classroom management with emphasis on Texas licensing standards. Students will have the opportunity to evaluate situations based on good problemsolving and decision-making techniques and implementation of alternative discipline strategies. Emphasizes techniques of communication with children as well as coworkers. Presents major theorists and theories of individual and group management. Lab fee required. (SCANS 5, 6, 7, 8, 10, 11) Prerequisite: None. CDEC 1356 Emergent Literacy for Early Childhood [formerly CHLD 2305] (19.0706) An exploration of principles, methods and materials for teaching young children language and literacy through a play-based, integrated curriculum. Introduces techniques for development of age appropriate language experiences in listening, speaking, reading and writing readiness. Includes methods of story telling with and without audiovisual aids such as puppets, flannel graphs, story rolls and use of media equipment such as TV/VCRs, laminators, paper copiers and glue guns. Includes introduction to bilingual language development. Lab fee required. (SCANS 1, 2, 8, 11) Prerequisite: None. CDEC 1357 Math and Science for Early Childhood [formerly CHLD 2306] (20.0201) An exploration of principles, methods and materials for teaching children math and science concepts through discovery and play. Applies scientific approach of problem solving and creative thinking to a child's world. Includes how to make or select inexpensive, simple science and/or math materials. Emphasizes how to write and present age appropriate science and/or math activities on subjects such as animals, plants, electricity, the five senses, measurements, shapes, sizes, numbers, symbols, etc. Also, includes criteria for arranging a science/discovery learning area in a classroom. Lab fee required. (SCANS 1, 3, 4, 9) Prerequisite: None. CDEC 1358 Creative Arts for Early Childhood [formerly CHLD 1305] (20.0201) 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 thinking. Creative activities will be planned and presented for all activity areas, including art, movement, music, language, science, mathematics and social studies, in addition to holiday and seasonal activities for young children. Emphasis is placed on appropriate use of all resources, including time, materials and facilities, as they apply to creative thinking. Lab fee required. (SCANS 4, 6, 9) Prerequisite: None.

#### CDEC 1359 Children With Special Needs [formerly CHLD 2304] (20.0201) A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role and legislative issues. Presents techniques to identify and serve children with special needs. Includes studies of physical, emotional, language and/or mental disabilities. Also, presents needs of gifted and talented children. Emphasizes constructing environment to enable children with special needs to function to their maximum abilities within the group structure. Stresses ways of working with parents of special children to bring out maximum home-center coordination. Lab fee required. (SCANS 5, 6, 10, 11) Prerequisite: None. CDEC 1391 Special Topics in Family Life and Relations Studies [formerly CHLD 2301] (19.0704) Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Presents development and relationships between individual family members, including various decision-making and problem-solving techniques. Includes changing role of men and women in society and discusses stages of family cycle. Introduces management techniques applicable to the individual and the family, including time management, money management, and related topics. (SCANS 4, 5, 6, 10, 11) Prerequisite: None. CDEC 1393 Special Topics in Family Living and Parenthood [formerly CHLD 1304] (20.0107) Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Designed to educate individuals in all aspects of child maltreatment including procedures for observations, documentation and interpretation of policies. Utilizes outside resource persons, as well as films, lectures, etc. Includes classroom activities to encourage problem-solving and decisionmaking techniques for situational problems. Reviews current federal, state and local child abuse laws, including Texas licensing standards. (SCANS 1, 6, 9, 10) Prerequisite: None. CDEC 1403 Family and the Community [formerly CHLD 1150 and 2310] (20.0107) A study of the relationship between the child, family, community and educators, including a study of parent education and involvement, family and community lifestyles, child abuse and current family life issues. Effective listening and spoken techniques in parent/teacher conferences are developed along with communicating skills. Child care situations and resources are explained and written report examples are developed. The intellectual and emotional growth of children and parents will be taught as well as learning how to develop strategies for managing stressful situations. Lab fee required. (SCANS 2, 4, 5, 7, 9, 10, 11) Prerequisite: None. CDEC 1413 Curriculum Resources for Early Childhood Programs [formerly CHLD 2403] (20.0201) (3-3)......4 hours A study of the fundamentals of curriculum design and implementation in developmentally appropriate programs for young children. Emphasizes planning and teaching curriculum for children (birth to 5 years of age). Includes assessing children's developmental level by use of written observation techniques and planning and implementation of developmentally appropriate curricula which includes selecting appropriate equipment such as computer programs and videos. Also, presents techniques for parent involvement and interpersonal communication, creation of appropriate physical environments

and classroom management. Lab fee required. (SCANS 5, 7, 9, 10) Prerequisites: CDEC 1311, CDEC 1319 and a minimum of two of the following courses: CDEC 1318, CDEC 1356, CDEC 1357, CDEC

1358 or consent of the department chair.

validated.

#### CDEC 1421 Infant and Toddler [formerly CHLD 1408] (20.0202) (3-2) \_\_\_\_\_\_4 hours A study of appropriate infant and toddler programs (birth to 3 years), 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. CDEC 2326 Administration of Programs for Children I [formerly CHLD 2120, 2130, 2135] (20.0203) A practical application of management procedures for early childcare education programs, including a study of planning, operating, supervising and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation and communication. The student will employ knowledge of programs, philosophies, curriculum and budget basics; develop goals and objectives, written/oral communications, parent communications; and interpret and supervise regulations, policies, staffing and evaluating. (SCANS 2, 4, 5, 6, 7, 9, 10, 11) Prerequisite: None. CDEC 2328 Administration of Programs for Children II [formerly CHLD 2111, 2115, 2125] (20.0203) An in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management advocacy, professionalism, fiscal analysis and planning parent education/ partnerships, and technical applications in programs. The student will demonstrate skills in fiscal planning and analysis, legal and ethical issues, personnel management and team building, advocacy and professionalism, parent education and partnership, and technical applications in programs. The student will utilize skills in speaking, writing, computation and computer utilization. (SCANS 1, 2, 3, 4, 6, 7, 9) Prerequisite: None. CDEC 2341 The School Age Child [formerly CHLD 2303] (20.0202) A study of appropriate programs for the school age child (5-13 years), including an overview of development, appropriate environments, materials, and activities and teaching/guiding techniques. Focuses on social, emotional, mental and physical development processes. Designed particularly for anyone working with individuals or groups from school age through adolescence. (SCANS 1, 9, 10) Prerequisite: None. CDEC 2384 Cooperative Education in Child Development [formerly CHLD 2377] (19.0706) Career-related activities encountered in the student's area of specialization are offered through a 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. A capstone course designed to interrelate academic and vocational course lectures and labs with business and industry work experiences in a child care facility or early childhood educational programs. 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) Prerequisites: 21 hours of child development courses including CDEC 1311, CDEC 1319, CDEC 1413, CDEC 2421 and PSYC 2308 as well as consent of the department chair. Requires a grade of "C" or better for credit to be

## **Clinical Laboratory Sciences**

**Faculty:** Susan Ray, director; 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: Oct. 2002). 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 director of the clinical laboratory sciences department. Applications for the associate degree program may be obtained from the Counseling Center.

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

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Medical Laboratory Technology

#### **First Year**

	Semester Hrs
Summer Session II	
ENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I	3
Fall Semester	
CHEM 1305 Introductory Chemistry	3
CHEM 1105 Introductory Chemistry Laboratory	1
MLAB 1201 Introduction to Clinical Laboratory Science (CLSC 1211/CLSC 1601)	
MLAB 1227 Coagulation (CLSC 1211/CLSC 1601)	2
MLAB 1311 Urinalysis and Body Fluids (CLSC 1211/CLSC 1304)	
MLAB 1415 Hematology (CLSC 1211/CLSC 1601)	4
Spring Semester	
BIOL 1407 General Biology II	4
MLAB 1335 Immunology/Serology (CLSC 1212/CLSC 1602)	3
MLAB 2431 Immunohematology (CLSC 1212/CLSC 1602)	4
SPCH 1321 Business & Professional Speech	3
Summer Session I	
COSC 1301 Introduction to Computer Systems	3
HIST 1301 U.S. History to 1877 or HIST 1302 U.S. History from 1877	3

Second Year	
Summer Session II	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	3
Fall Semester	
MLAB 1331 Parasitology/Mycology (CLSC 2211/CLSC 2601)	
MLAB 2466 Practicum I - Medical Laboratory Technician/Assistant (CLSC 2321)	4
MLAB 2534 (Clinical) Microbiology (CLSC 2211/CLSC 2601)	5
PHED (any one-hour activity course)	1
Spring Semester	
MLAB 2371 Clinical Chemistry Instrumentation (CLSC 2212/CLSC 2602)	3
MLAB 2467 Practicum II - Medical Laboratory Technician/Assistant (CLSC 2322)	4
MLAB 2501 (Clinical) Chemistry (CLSC 2212/CLSC 2602)	5
PHED (any one-hour activity course)	1
Total Hours	70

#### **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.

Students seeking additional information should contact the director of the clinical laboratory sciences department. Applications for the phlebotomy program may be obtained from the Counseling Center.

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

#### Course of Study for Certificate of Completion

Students enrolled in the following two phlebotomy courses may be TASP-waived.

MDCA 1260 Clinical – Medical Assistant (CLSC 1220)	Semester Hrs
MDCA 1456 Phlebotomy (for Medical Assistants) (CLSC 1500)	

#### **Clinical Laboratory Science Courses**

#### MDCA 1260 Clinical – Medical Assistant [formerly CLSC 1220] (51.0801) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Consists of a total of 120 hours in an affiliated laboratory performing phlebotomy procedures under the supervision of a certified phlebotomist or clinical laboratory generalist. Required interpretation of written orders and correlation with appropriate specimen types and volumes; conveying instructions to patients; maintaining specimen acquisition records; and professional conduct. Fulfills requirements for certification of completion in phlebotomy and eligibility for certification examination as a phlebotomy technician. (SCANS 1, 2, 6, 8, 10, 11) Prerequisites or corequisites: MDCA 1456 and consent of department chair. MDCA 1456 Phlebotomy (for Medical Assistants) [formerly CLSC 1500] (51.0801) Instruction in principles and procedures of phlebotomy, hematology, collection of varied sterile/nonsterile specimens, blood typing, identification, use and care of lab equipment, and quality control. Emphasis on principles/procedures of phlebotomy and handling of specimens. Includes laboratory organization, anticoagulant action, specimen requirements, reporting procedures, interpersonal relationships, professional ethics, universal precautions and safety. Completion of course partially fulfills requirements for certification of completion in phlebotomy and eligibility for certification by examination as a phlebotomy technician. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 9, 10, 11) Prerequisites: Admission to the phlebotomy program and consent of department chair. Corequisite: MDCA 1260. MLAB 1201 Introduction to Clinical Laboratory Science [formerly CLSC 1211/CLSC 1601] (51.1004) An introduction to clinical laboratory science, including quality control, laboratory math, safety, basic laboratory equipment, laboratory settings, accreditation and certification. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 8, 9) Prerequisites: Admission to the medical laboratory technology program and consent of department chair. Corequisites: MLAB 1227, MLAB 1311 and MLAB 1415. MLAB 1227 Coagulation [formerly CLSC 1211/CLSC 1601] (51.1004) A course in coagulation theory, procedures, and practical applications. Includes laboratory exercises, which rely on commonly performed manual and semi-automated methods. Emphasis is placed on test selection and calculation, interpretation of results and correlation to disease processes. Lab fee required. (SCANS 1, 2, 3, 6, 7, 9, 10, 11) Corequisites: MLAB 1201 and consent of department chair. MLAB 1311 Urinalysis and Body Fluids [formerly CLSC 1211/CLSC 1304] (51.1004) An introduction to urinalysis and body fluid analysis including the anatomy and physiology of the kidney; and physical, chemical and microscopic examination of urine, cerebrospinal fluid and other body fluids. Emphasizes theory and practical application of urinalysis and body fluid procedures, calculation of reportable data, their interpretation and correlation to disease processes. Lab fee required. (SCANS 1, 2, 3, 6, 7, 8, 9, 10, 11) Corequisites: MLAB 1201 and consent of department chair. MLAB 1331 Parasitology/Mycology [formerly CLSC 2211/CLSC 2601] (51.1004) A study of the taxonomy, morphology, and pathogenesis of human parasites and fungi, including the practical application of laboratory procedures. Lab fee required. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 10, 11)

Prerequisite: MLAB 1335. Corequisites: MLAB 2534 and consent of department chair.

#### MLAB 1335 Immunology/Serology [formerly CLSC 1212/CLSC 1602] (51.1004) An introduction to the theory and application of basic immunology, including the immune response, principles of antigen-antibody reactions, and the principles of serological procedures. Requires the ability to indicate appropriate test procedure to perform, calculation of dilutions and application to the related antigen/antibody; interpretation of laboratory data and correlation to specific disease processes. Lab fee required. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 11) Prerequisites: MLAB 1415 and consent of department chair. Corequisite: MLAB 2431. MLAB 1415 Hematology [formerly CLSC 1211/CLSC 1601] (51.1004) Introduction to the theory and practical application of routine and special hematology procedures, both manual and automated; red blood cells and white blood cells maturation sequences; and normal and abnormal morphology and associated diseases. Laboratory exercises are performed following written procedures and require the preparation of graphs and/or mathematical calculations on generated data; interpretation and correlation of results to normal and abnormal physiology; and submission of written or computer generated reports. Lab fee required. (SCANS 1, 2, 3, 6, 7, 8, 9, 10, 11) Corequisites: MLAB 1201 and consent of department chair. MLAB 2371 Clinical Chemistry Instrumentation [formerly CLSC 2212/CLSC 2602] (51.1004) A combined lecture and laboratory course in chemistry instrumentation and methods. Encompasses a review of chemical calculations and reagent preparation, the study and application of statistics and quality control, and the utilization of chemistry equipment and supplies. Emphasizes automated and manual procedures used for the quantitation of chemical analytes. Lab safety is stressed. Lab fee required. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 10, 11) Prerequisite: MLAB 2534. Corequisites: MLAB 2501 and consent of department chair. MLAB 2431 Immunohematology [formerly CLSC 1212/CLSC 1602] (51.1004) A study of blood antigens and antibodies. Performance of routine blood banking procedures, including blood group and Rh typing, antibody screens, identification, cross matching, elution, and absorption techniques. Requires the ability to indicate course of required action in blood donor selection, collection and processing; and the selection of appropriate procedures and interpretation for compatibility testing. Lab fee required. (SCANS 1, 2, 3, 4, 6, 7, 8, 9, 11) Corequisites: MLAB 1335 and consent of department chair. MLAB 2466 Practicum I - Medical Laboratory Technician/Assistant [formerly CLSC 2321] (51.1004) Practical general training and experiences in the workplace. The college and the employer develop and document an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. 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). Liability insurance and proof of health insurance are required. (SCANS 1, 2, 3, 4, 8) Prerequisite: Consent of department chair. Corequisite: MLAB 2534.

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Practical general training and experiences in the workplace. The college and the employer develop and document an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. 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). A registry review is also a requirement of completion of this course. This is the capstone experience. Liability insurance and proof of health insurance are required. (SCANS 1, 2, 3, 4, 8) Prerequisite: Consent of department chair. Corequisite: MLAB 2501.

#### MLAB 2501 (Clinical) Chemistry [formerly CLSC 2212/CLSC 2602] (51.1004)

#### MLAB 2534 (Clinical) Microbiology [formerly CLSC 2211/CLSC 2601] (51.1004)

### **Computer Information Systems**

Faculty: Ray Cone, chair; Fillmore Guinn, Trina Maurer, Mitch Slusher.

The computer information systems curriculum provides students with practical, job-related computer experience. The 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Computer Information System

	Semester Hrs
General Education Requirements	
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	ment 3
MATH 1314 College Algebra or higher level math	3
PHED (any two one-hour activity courses)	2
PSYC 2302 Applied Psychology or SOCI 1301 Principles of Sociology	3
SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech	
	40
Major Requirements	13
ITSC 1305 Introduction to PC Operating Systems (BCIS 1302)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	4
ITSE 1329 Programming Logic and Design (BCIS 1200)	3
ITSE 1350 System Analysis and Design (BCIS 2305)	3
Major Emphasis (Select either Option I or Option II below)	35 or 37
*Major Emphasis Options for Associate in Applied Science De	gree:
Option I - PC Support Specialist	
Minimal entry requirements: Keyboarding skills, college level reading/writing	1
	Semester Hrs
ITNW 1325 Fundamentals of Networking (CNIT 1426)	3
ITSC 1325 Personal Computer Hardware (BCIS 1303)	3
ITSC 2339 Personal Computer Help Desk	
ITSC 2381 Cooperative Education – Computer and Information Sciences, General (I	3CIS 2377) 3
ITSE 1431 Introduction to Visual BASIC Programming	
ITSE 2313 WEB Authoring	
ITSE 2417 JAVA Programming	
ITSW 1301 Introduction to Word Processing (BCIS 2215)	
ITSW 1304 Introduction to Spreadsheets (BCIS 2220)	
ITSW 1307 Introduction to Database (BCIS 1310)	
ITSW 2337 Advanced Database (BCIS 2310)	
Total Semester Hours (Option I)	65
Option II – PC Business Programming	
Option if - PC Business Programming	
Minimal entry requirements: Keyboarding skills, college level reading/writing	). Semester Hrs
ACCT 1370 Introduction to College Accounting	
ITSE 1414 Introduction to RPG Programming (BCIS 1419)	4
ITSE 1418 Introduction to COBOL Programming (BCIS 1403)	
ITSE 1431 Introduction to Visual BASIC Programming	4
ITSE 2435 Advanced RPG/400 Programming (BCIS 2419)	
ITSE 2381 Cooperative Education – Computer Programming (BCIS 2377)	
ITSW 1304 Introduction to Spreadsheets (BCIS 2220)	3
ITSW 1307 Introduction to Database (BCIS 1310)	
ITSW 1311 AS/400 Operating System I (BCIS 1320)	
ITSW 2337 Advanced Database (BCIS 2310)	3
ITSW 2341 AS/400 Operating System II (BCIS 2320)	
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Total Semester Hours (Option II)	67

### **Course of Study for Certificate of Technology**

Level I certificates are TASP-waived.

#### Level I - PC Support Specialist, Beginning

	Semester Hrs
ITSC 1305 Introduction to PC Operating Systems (BCIS 1303)	3
ITSC 1325 Personal Computer Hardware (BCIS 1302)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	
ITSE 1329 Programming Logic and Design (BCIS 1200)	
ITSE 1431 Introduction to Visual BASIC Programming	
ITSW 1301 Introduction to Word Processing (BCIS 2215)	
ITSW 1304 Introduction to Spreadsheets (BCIS 2220)	
ITSW 1304 Introduction to Spreadsheets (BCIS 2220)	د
115W 1307 Introduction to Database (BCIS 1310)	3
Total Hours	26
Level I - PC Support Specialist, Intermediate	
	Semester Hrs
General Education Requirements	
ENGL 1301 Composition and Rhetoric	
MATH 1314 College Algebra or higher level math	3
SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech	3
Major Requirements	33
ITSC 1305 Introduction to PC Operating Systems (BCIS 1302)	
ITSC 1325 Personal Computer Hardware (BCIS 1303)	
ITSC 1401 Introduction to Computers (BCIS 1401)	
ITSE 1329 Programming Logic and Design (BCIS 1200)	
ITSE 1431 Introduction to Visual BASIC Programming	
ITSE 2313 WEB Authoring	
ITSE 2417 JAVA Programming	
ITSW 1301 Introduction to Word Processing (BCIS 2215)	
ITSW 1304 Introduction to Spreadsheets (BCIS 2220)	
ITSW 1307 Introduction to Database (BCIS 1310)	3
Total Hours	
<u> Level I – Business Programming Certificate</u>	
	Semester Hrs
✓ ITSC 1401 Introduction to Computers (BCIS 1401)	
ITSE 1329 Programming Logic and Design (BCIS 1200)	
ITSE 1414 Introduction to RPG Programming (BCIS 1419)	
ITSE 1431 Introduction to Visual BASIC Programming	4
ITSE 2435 Advanced RPG/400 Programming (BCIS 2419)	4
, ITSW 1307 Introduction to Database (BCIS 1310)	3
ITSW 1311 AS/400 Operating System I (BCIS 1320)	3
ITSW 2341 AS/400 Operating System II (BCIS 2320)	3
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Total Hours	28

#### **Level II – Business Programming Certificate**

Semester Hrs
General Education Requirements9
ENGL 1301 Composition and Rhetoric3
MATH 1314 College Algebra or higher level math3
SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech
Major Requirements
ACCT 1370 Introduction to College Accounting3
ITSC 1401 Introduction to Computers (BCIS 1401)4
ITSE 1329 Programming Logic and Design (BCIS 1200)
ITSE 1414 Introduction to RPG Programming (BCIS 1419)
ITSE 1418 Introduction to COBOL Programming (BCIS 1403)
ITSE 1431 Introduction to Visual BASIC Programming
ITSE 2435 Advanced RPG/400 Programming (BCIS 2419)
ITSW 1307 Introduction to Database (BCIS 1310)
ITSW 2341 AS/400 Operating System II (BCIS 2320)
Total Hours
<b>Computer Information Systems Courses</b>
ITNW 1325 Fundamentals of Networking [formerly BCIS 2302] (52.1204) (2-2)
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. Lab fee
required. (SCANS 1, 2, 3, 7, 8, 9, 10) Prerequisite: ITSC 1401 or instructor approval. Corequisite: ITSC 1305 or consent of instructor.
ITSC 1305 Introduction to PC Operating Systems [formerly BCIS 1302] (11.0101)
(3-0)
A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. Lab fee required. (SCANS 3, 4, 6, 7, 8, 9) Prerequisite: ITSC 1401 or consent of instructor.
ITSC 1325 Personal Computer Hardware [formerly BCIS 1303] (11.0101) (2-2)
A study of current personal computer hardware including personal computer assembly and upgrading,
setup and configuration, and troubleshooting. Lab fee required. (SCANS 1, 2, 3, 4, 7, 8, 9) Prerequisite: ITSC 1401 or consent of instructor.
ITSC 1401 Introduction to Computers [formerly BCIS 1401] (11.0101)
(3-3)
human resources. Explores integration and application in business and other segments in society.
Fundamentals of computer problem-solving and programming may be discussed and applied. Examines applications and software relating to a specific curricular area. Keyboarding proficiency is highly recommended. Lab fee required. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: None.
ITSC 2339 Personal Computer Help Desk (11.0101) (2-2)
Diagnosis and solution of user hardware and software related problems with on-the-job projects in
either a Help Desk lab or in short-term assignments for local business. Spring only. Lab fee required. (SCANS 1, 2, 3, 5, 6, 7, 8, 9, 10) Prerequisite: ITSC 1401 or consent of instructor.

	(1-20)
	Career related activities encountered in the student's area of specialization are offered throug 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 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. (SCANS 5, 7, 9, 10, 11) Prerective: Consent of department chair.
ITSE	E 1329 Programming Logic and Design [formerly BCIS 1200] (11.0201) (3-0)
	A disciplined approach to problem-solving with structured techniques and representation of algorith using appropriate design tools. Discussion of methods for testing, evaluation, and documentation. I fee required. (SCANS 1, 2, 3, 5, 6, 8, 9) Prerequisite: None.
ITSE	E 1350 System Analysis and Design [formerly BCIS 2305] (11.0501) (2-2)
	Comprehensive introduction to the planning, design, and construction of computer informat systems using the systems development life cycle and other appropriate design tools.\(\)Lab fee requir (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: ITSW 2337 or ITSE 2435 or consent of instructor.
ITSE	1414 Introduction to RPG Programming [formerly BCIS 1419] (11.0201)
	(3-3)
ITSE	E 1418 Introduction to COBOL Programming [formerly BCIS 1403] (11.0201) (3-3)
	Introduction to computer programming using COBOL. Emphasis on the fundamentals of structu design, development, testing, implementation, and documentation. Includes language syntax, d and file structures, input/output devices, and files. Fall only. Lab fee required. (SCANS 1, 2, 3, 6, 7 9) Prerequisite: ITSE 1329 and ITSC 1401 or consent of instructor.
ITSE	1431 Introduction to Visual BASIC Programming (11.0201)
	(3-3)
ITSE	2313 WEB Authoring (11.0201)
	(2-2)
	2381 Cooperative Education – Computer Programming [formerly BCIS 2377] (11.0201) (1-20)
ITSE	3.00

ITSE 2449 Adv. Visual Basic Programming

### ITSE 2417 JAVA Programming (11.0201) Introduction to JAVA programming with object-orientation. Emphasis on the fundamental syntax and semantics of JAVA for applications and web applets. Fall only. Lab fee required. (SCANS 1, 2, 3, 6, 7, 8, 9) Prerequisites: ITSE 1329 and ITSC 1401 or consent of instructor. ITSE 2435 Advanced RPG Programming [formerly BCIS 2419] (11.0201) Further application of RPG programming techniques, including file access methods, data structures. modular programming, program testing, and documentation. Fall only. Lab fee required. (SCANS 1, 6, 7, 8, 9) Prerequisite: ITSE 1414 or consent of instructor. ITSW 1301 Introduction to Word Processing [formerly BCIS 2215] (11.0301) An overview of the production of documents, tables, and graphics. Keyboarding proficiency is highly recommended. Lab fee required. (SCANS 1, 2, 4, 6, 7, 8, 9) Prerequisite: None. ITSW 1304 Introduction to Spreadsheets [formerly BCIS 2220] (11.0301) Instruction in the concepts, procedures, and importance of electronic spreadsheets. Lab fee required. (SCANS 1, 3, 4, 6, 7, 8, 9) Prerequisites: ITSC 1401 and college level math or consent of instructor. ITSW 1307 Introduction to Database [formerly BCIS 1310] (11.0301) Introduction to database theory and the practical applications of a database. Spring only, Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 9, 10) Prerequisite: ITSC 1401 or consent of instructor. ITSW 1311 AS/400 Operating System I [formerly BCIS 1320] (52.1201) A study of the AS/400 operating system including multi-user concepts, terminal emulation, use of system editor, basic AS/400 menus, commands, and help screens. Topics include introductory system management concepts and file management. Spring only. Lab fee required. (SCANS 2, 3, 6, 7, 8, 9) Prerequisite: ITSC 1305 or consent of instructor. iTSW 2337 Advanced Database [formerly BCIS 2310] (11.0301) Designed to provide an understanding of advanced functionality of databases. Fall only, Lab fee required. (SCANS 1, 2, 4, 5, 6, 9, 10) Prerequisites: ITSW 1307 and ITSE 1431 or consent of instructor. ITSW 2341 AS/400 Operating System II [formerly BCIS 2320] (52.1201) Advanced study of the AS/400 operating system. Topics include advanced concepts of systems management and communications, installation and maintenance of software, network security, and data integrity. Fall only. Lab fee required. (SCANS 1,4,6, 8,9) Prerequisites: ITSC 1401 and ITSW 1311 or consent of instructor.

# **Computer Network and Information Technology**

Faculty: Ray Cone, chair; Trina Maurer, Mitch Slusher.

The Computer Network and Information Technology program is designed to prepare students in the knowledge of computer networking software including Microsoft and Novell products and information technology utilizing the software. Additional objectives include knowledge of DOS; hardware selection for new systems; software and system design and construction; interpretation of manuals; database management and design; structured programming; and core concepts of Microsoft and Novell software packages.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Computer Network and Information Technology

	Semester Hrs
General Education Requirements	17
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government	3
MATH 1314 College Algebra or higher level math	3
PHED (any two one-hour activity courses)	
PSYC 2301 Introduction to Psychology or SOCI 1301 Principles of Sociology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	25
BMGT 1301 Supervision (MGMT 1301)	
ITNW 1325 Fundamentals of Networking (CNIT 1426)	
ITNW 1380 Cooperative Education – Business Systems Networking and Telecomm (CNIT 2377)	unications
ITNW 2313 Networking Hardware	
ITSC 1321 PC Operating System – Windows (CNIT 2332)	3
ITSC 1401 Introduction to Computers (CNIT 1401)	
ITSC 1305 Introduction to PC Operating Systems (CNIT 1302)	
ITSW 1307 Introduction to Database (CNIT 1310)	
*Major Emphasis (select either Option I or Option II below)	22
*Major Emphasis Options for Associate in Applied Science D	egree:
Option I - Microsoft	
	Semester Hrs
ITNW 1452 Internetworking Microsoft TCP/IP on MS Windows NT 4.0 (CNIT 2429) ITNW 2301 Administering Microsoft Windows NT or	4
ITNW 1319 Installing and Administering Windows 2000	3
ITNW 2317 Network Security	
ITNW 2351 Microsoft Windows NT Core Technologies (CNIT 2327) or	
ITNW 1358 Supporting Microsoft Windows 2000	3
ITNW 2352 Administering Microsoft SQL Server 7.0	
ITNW 2356 Supporting MS Windows NT Server 4.0 (CNIT 2326) or	
ITNW 2357 Windows 2000 Active Directory	3
ITNW 2359 Creating & Managing a WEB Server Using MS Internet Information Server	
Total Semester Hours (Option I – Microsoft)	64

Semester Hrs
4
3
3
3
3
3
3
64
y
Semester Hrs
3
3
3
3
4
3
9
Semester Hrs
3
3
3
28
Semester Hrs
3
3
3
28
Semester Hrs
Semester Hrs
Semester Hrs

TNW 1325 Fundamentals of Networking [formerly CNIT 1426] (52.1204) (2-2)
Instruction in networking technologies and their implementation. Topics include the OSI referen model, network protocols, transmission media, and networking hardware and software. Lab fee require (SCANS 1, 2, 3, 7, 8, 9, 10) Prerequisite: ITSC 1401 or consent of instructor. Corequisite: ITSC 13 or consent of instructor.
TNW 1356 Implementing Microsoft Internet Explorer 4.0 (52.1204) (2-3)
An introduction to the architecture and features of Microsoft® Internet Explorer version 4.0. Topi include set up, configuration, use, and deployment of Internet Explorer in a network environment. L fee required. (SCANS 1, 2, 6, 7, 8, 9, 10) Prerequisite: ITNW 2301 or consent of instructor.
FNW 1358 Supporting Microsoft Windows 2000 (52.1204)
(2-2)
NW 1380 Cooperative Education – Business Systems Networking and Telecommunication ormerly CNIT 2377] (52.1204)
(1-20)
FNW 1442 GroupWise 5 Administration (52.1204)
(3-3)
TNW 1452 Internetworking Microsoft TCP/IP on MS Windows NT 4.0 [formerly CNIT 2429] (52.120 (3-3)
A course in the skill development for set up, configuration, use and support Transmission Continuous Protocol/Internet Protocol (TCP/IP) on Microsoft® Windows NT operating system version 4.0. Lab for required. (SCANS 1, 2, 4, 6, 7, 8, 9) Prerequisite: ITSC 1325 or consent of instructor.
TNW 2301 Administering Microsoft Windows NT (52.1204)
(2-2)
FNW 2305 Network Administration for Novell NetWare [formerly CNIT 2328] (52.1204)
(2-2)
TNW 2309 Network Administration for Novell IntraNetWare [formerly CNIT 2330] (52.1204)
(2-2)

	(2-2)
	Preparation to work with and maintain network hardware devices. Topics include network cables servers, and workstations; network connectivity devices such as routers, hubs, bridges, gateways repeaters, and uninterruptible power supplies; and other networking hardware devices. Lab fe required. (SCANS 1, 2, 3, 4, 7, 8, 9) Prerequisite: ITNW 1325 or consent of instructor.
ITN	W 2317 Network Security (52.1204)
	(2-2)
ITN	W 2331 Novell Service and Support (52.1204)
	(2-2)
ITN	W 2339 Advanced Network Administration for Novell NetWare [formerly CNIT 2430) (52.1204) (2-2)
	Introduction to advanced administrative concepts and tasks related to server and client management and performance. Enhancement of network management and monitoring skills and preparation tinstall and configure a network operating system. Lab fee required. (SCANS 1, 2, 4, 6, 7, 8, 9)
	Prerequisite: ITNW 2305.
ITN'	Prerequisite: ITNW 2305.
ITN'	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
ITN	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
ITN	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
ITN	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204) (2-2)
ITN	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)
ITN'	Prerequisite: ITNW 2305.  W 2341 NetWare: Integrating Windows NT (52.1204)  (2-2)

ITNW 2357 Windows 2000 Active Directory (52.1204) (2-2)
Advanced concepts of planning and implementing Microsoft Windows 2000 Active Directory in an enterprise environment. Lab fee required. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: ITNW 1358.
ITNW 2359 Creating and Managing a Web Server Using Microsoft Internet Information Server [formerly CNIT 2329] (52.1204)
(2-2) 3 hours
Instruction in the installation, configuration, and implementation of Microsoft Internet Information Server (IIS). Lab fee required. (SCANS 1, 2, 4, 6, 7, 8, 9) Prerequisite: ITNW 1452 or ITNW 2351.
ITSC 1305 Introduction to PC Operating Systems [formerly CNIT 1302] (11.0101) (3-0)
A study of personal computer operating systems. Topics include installation and configuration, file management, memory and storage management, control of peripheral devices, and use of utilities. Lab fee required. (SCANS 3, 4, 6, 7, 8, 9) Prerequisite: ITSC 1401 or consent of instructor.
ITSC 1321 PC Operating System – Windows [formerly CNIT 2332] (11.0101) (2-2)
Introduction to windows-based microcomputer operating systems. Topics include installation and configuration, file management, memory and storage management, peripheral device control, and use of utilities. Lab fee required. (SCANS 3, 4, 6, 7, 8, 9) Prerequisite: ITSC 1401 and ITSC 1305 or consent of instructor.
ITSC 1325 Personal Computer Hardware [formerly CNIT 1303] (11.0101) (2-2)
A study of current personal computer hardware including personal computer assembly and upgrading, setup and configuration, and troubleshooting. Lab fee required. (SCANS 1, 2, 3, 4, 7, 8, 9) Prerequisite: ITSC 1401 or consent of instructor.
ITSC 1401 Introduction to Computers [formerly CNIT 1401] (11.0101) (3-3)
Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources. Explores integration and application in business and other segments in society. Fundamentals of computer problem-solving and programming may be discussed and applied. Examines applications and software relating to a specific curricular area. Keyboarding proficiency is highly recommended. Lab fee required. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: None.
ITSE 1305 Web Authoring and Publishing for NetWare 5 (11.0201) (2-2)
An introduction to designing and publishing Web documents. Topics include basic hypertext markup language (HTML), hyperlinks, tables, frames, images, and forms. Application of tools available for creating and editing HTML also explored. Lab fee required. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: Competency in desktop operating systems and computer applications or consent of instructor.
ITSW 1307 Introduction to Database [formerly CNIT 1310] (11.0301) (2-2)
Introduction to database theory and the practical applications of a database. Spring only, Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 9, 10) Prerequisite: ITSC 1401 or consent of instructor.

## **Computer Science**

Faculty: Ray Cone, chair; 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**

	Semester Hrs
General Education Requirements	44
ENGL 1301 Composition and Rhetoric	3
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 Phy-	sics 8
Lab Science Elective	
*MATH 1314 College Algebra	
*MATH 1316 Trigonometry	
PHED (any two one-hour activity courses)	
SPCH 1321 Business and Professional Speech	
Elective (must be outside the major area)	3
Major Requirements	20
COSC 1415 Introduction to Computer Science	
COSC 1430 Introduction to Computer Programming	
COSC 2420 Programming Structures in "C"	
COSC 2425 Organization and Assembly Language	4
COSC 2430 Advanced Computer Programming	
Total Semester hours	67
* MATH 1348, MATH 2313 or MATH 2314 may be substitute	d. Because upper level institutions require
* MATH 1348, MATH 2313 or MATH 2314 may be substitute	d. Because upper level institutions re-

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

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

of instructor.

#### **Computer Science Courses**

#### COSC 1301 Introduction to Computer Systems (11.0101.5227) Presents extensive vocabulary, concepts and techniques needed to begin study of computers. Covers hardware/software fundamentals, history, information systems concepts and societal trends. Emphasis is placed on using the computer to process text and numeric information. By using software packages including a word processor, electronic spreadsheet, database management system and MS-DOS/ Windows, the student is able to identify and select the correct hardware/software to apply to a given problem. Lab exercises are designed to allow students to use their reasoning ability to solve problems and make decisions. Not for computer science majors or computer information systems majors. Lab fee required. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: None. COSC 1415 Introduction to Computer Science (11.0201.5227) A first course for computer science majors or other majors where a computer language or computer minor would be of benefit. Presents terminology, concepts and techniques, including hardware, firmware and software. Emphasizes the application of software, logic and structured programming techniques. Using these, students will be able to select the correct hardware/software to apply to a given problem. Laboratory exercises focus on the use of word processing to process textual information, electronic spreadsheet for numerical information, desktop publishing, MS-DOS/Windows and data base application software. Introduces programming logic, structure and techniques using the Pascal language. Lab exercises are designed for students to use, follow and interpret written instructions and to use their reasoning ability to solve problems and make decisions. Fall only. Lab fee required. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: None. COSC 1430 Introduction to Computer Programming (11.0201.5227) Introduction to computer programming. Emphasis on the fundamentals of structured program design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. Spring only. Lab fee required. (SCANS 5, 6, 7, 8, 9) Prerequisite: COSC 1415 or both ITSE 1329 and ITSC 1401 or consent of instructor. COSC 2420 Programming Structures in "C" (11.0201.5327) (3-3) ..... Intermediate to advanced programming techniques and topics using the "C" programming language. A comparative approach relying on the student's prior knowledge of Pascal and structured programming techniques. A study of programming structures and algorithms in "C" including functions, arrays, records, files, classes, constructors, destructors and inheritance. Design and development of libraries and use of system calls. Spring only. Lab fee required. (SCANS 1, 6, 7, 8, 9) Prerequisite: COSC 1430 or instructor approval. COSC 2425 Computer Organization and Assembly Language (11.0201.5427) Introduces concepts and terminology relating to the internal hardware and its operation. Includes detailed discussion of internal and external bus operation, memory access, external storage media and port access. Numerous programs are written using assembly level code. Program exercises range from simple data manipulation, structured data manipulation, file I/O, to port device I/O. Students will be expected to provide all program exercises with both internal and external documentation. Spring only. Lab fee required. (SCANS 1, 6, 7, 8, 9) Prerequisite: COSC 1430 or instructor approval. COSC 2430 Advanced Computer Programming (11.0201.5327) A continuation of COSC 1430 with further applications of programming techniques. Students will design, code, test, debug and document programs. Programming techniques will involve arrays of

record structures. Fall only. Lab fee required. (SCANS 5, 6, 7, 8, 9) Prerequisite: COSC 1430 or consent

Semester Hrs

### Cosmetology

Faculty: Sylvia Blain, chair; Lou Ann Hitt, Michael Sodd, Linda Sullivan, 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 for 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 open-exit concept. New students may call for start dates. Because of limited enrollment, students are urged to apply as early as possible before the date of proposed admission.

Note: Student liability insurance is required for all students enrolled in cosmetology.

An advanced standing procedure is available for those individuals who hold a valid Texas cosmetology license, which did not result from completion of a program at Odessa College. People in this category who wish to pursue an associate degree may satisfy cosmetology requirements outlined in the associate degree course of study in the following manner: (1) by providing proof of licensure to the college registrar and/or to the director of the cosmetology program; (2) by successfully completing CSME 1401, CSME 1451, and CSME 2441 for a total of 12 semester hours credit; (3) by successfully completing a comprehensive examination for 29 of the 41 required hours of cosmetology listed in 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

### Course of Study for Associate in Applied Science Degree

### Cosmetology

Seneral Education Requirements	20
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government	
MATH 1332 Structures of College Mathematics I or higher level math	3
PHED (any two one-hour activity courses)	2
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 either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed, students must select either Option I or Option II belonger to the 20 hours listed to 20 hours lis	DW.
	mester Hrs
Major Requirements (1504 clock hours)	41
(Classes meet eight hours per day, Monday through Friday)	
CSME 1401 Orientation to Cosmetology (COSM 2601)	4
CSME 1405 Fundamentals of Cosmetology (COSM 2602)	
CSME 1443 Manicuring and Related Theory (COSM 2602)	4

CSME 1447 Principles of Skin Care/Facial & Related Theory (COSM 2604)       4         CSME 1451 Artistry of Hair, Theory, and Practice (COSM 2601)       4         CSME 1453 Chemical Reformation and Related Theory (COSM 2605)       4         CSME 2237 Advanced Cosmetology Techniques (COSM 2604)       2         CSME 2343 Salon Development (COSM 2606)       3         CSME 2401 The Principles of Hair Coloring and Related Theory       4         CSME 2439 Advanced Hair Design (COSM 2603)       4
CSME 2441 Preparation for the Texas Cosmetology Commission Examination (COSM 2603) 4
Related Required Courses
Total Semester Hours (Option I – Operator)
Note: Students not desiring the associate in applied science degree may receive a Certificate of Completion – Operator Option.
Option II - Instructor
Major Requirements (752 clock hours)
CSME 1534 Cosmetology Instructor I (COSM 2813)
CSME 1534 Cosmerology instruction (COSM 2613)
CSME 2514 Cosmetology Instructor II (COSM 2812)
CSME 2514 Cosmetology instructor III (COSM 2812)
CSME 2544 Cosmetology Instructor IV (COSM 2813)
CSME 2545 Instruction Theory and Clinic Operation (COSM 2814)
COMIC 2043 Institution Theory and Omnic Operation (COOM 2014)
*Elective(s) 4
Related Requirements9
BUSI 2301 Business Law I
HRPO 1311 Human Relations (MGMT 2304)
MRKG 1311 Principles of Marketing (MGMT 1321) or
BUSG 2309 Small Business Management (MGMT 2331)
Total Semester Hours (Option II – Instructor)
Total Semester Hours (Option II – Instructor)
Note: Students not desiring the associate in applied science degree may receive a Certificate of Completion – Instructor Option.  *See department chair for list of approved courses.
Course of Study for Certificate of Completion
Level I certificates are TASP-waived.
<u>Level I – Operator</u>
Semester Hrs
Major Requirements (1504 Clock Hours)
CSME 1401 Orientation to Cosmetology (COSM 2601).V
CSME 1405 Fundamentals of Cosmetology (COSM 2602) /
CSME 1443 Manicuring and Related Theory (COSM 2602)
CSME 1447 Principles of Skin Care/Facial & Related Theory (COSM 2604) /
CSME 1451 Artistry of Hair, Theory, and Practice (COSM 2601)
CSME 1453 Chemical Reformation and Related Theory (COSM 2605)
CSME 2237 Advanced Cosmetology Techniques (COSM 2604)
CSME 2343 Salon Development (COSM 2606)
CSME 2401 The Principles of Hair Coloring and Related Theory
CSME 2439 Advanced Hair Design (COSM 2603)
CSME 2441 Preparation for the Texas Cosmetology Commission Examination (COSM 2603)4
Total Semester Hours41
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<u>Level I – Instructor</u>	Compates Hen
Major Requirements (752 Clock Hours)	Semester Hrs
CSME 1534 Cosmetology Instructor I (COSM 2813)	
CSME 1535 Orientation to the Instruction of Cosmetology (COSM 2811)	
CSME 2514 Cosmetology Instructor II (COSM 2812)	5
CSME 2515 Cosmetology Instructor III (COSM 2812)	5
CSME 2544 Cosmetology Instructor IV (COSM 2813)	
CSME 2545 Instruction Theory and Clinic Operation (COSM 2814)	
Total Semester Hours	30
<b>Cosmetology Operator Courses</b>	
CSME 1401 Orientation to Cosmetology [formerly COSM 2601] (12.0403) (2-6)	4 hours
An overview of the skills and knowledge necessary for the field of cosmetology. T	he student will exhibit
comprehension of professional ethics; demonstrate sanitation and safety; and regulations of the institution, department, and state. (SCANS 1, 2, 3, 10) Prere	explain the rules and
CSME 1405 Fundaments of Cosmetology [formerly COSM 2602] (12.0403)	
(2-6)	
A course in the basic fundamentals of cosmetology. Topics include service pr facial, chemical services, shampoo, haircut, wet styling, comb out, and salo	
student will identify fundamental concepts related to skills required by the Texa	
mission, implement fundamental skills required by the Texas Cosmetology Commis	
professional communication skills. (SCANS 4, 8, 9, 10) Prerequisite or corequi	
CSME 1443 Manicuring and Related Theory [formerly COSM 2602] (12.0403)	
(2-6)	4 hours
Presentation of the theory and practice of nail technology. Topics include termino	logy, application, and
workplace competencies related to nail technology. The student will identify term	
technology, demonstrate the proper application of nail technology and exhibit wor in nail technology. (SCANS 1, 2, 5, 8) Prerequisite or corequisite: CSME 1401.	
CSME 1447 Principles of Skin Care/Facials and Related Theory [formerly COSM (2-6)	2604] (12.0403)
In-depth coverage of the theory and practice of skin care, facials, and cosme	
identify the terminology related to the skin, products, and treatments; den	
application related to skin care and cosmetics; and exhibit workplace competer	ncies in skin care and
cosmetics. (SCANS 1, 2, 5, 8) Prerequisite or corequisite: CSME 1401.	
CSME 1451 Artistry of Hair, Theory and Practice [formerly COSM 2601] (12.0403	3)
(2-8)	4 hours
Instruction in the artistry of hair design. Topics include theory, techniques, ar	nd application of hair
design. The student will identify the terminology related to hair structure, gro	
exhibit workplace competencies related to the artistry of hair; and demonstrate to	ne proper application
of hair design. (SCANS 1, 2, 5, 8) Prerequisite or corequisite: CSME 1401.	
CSME 3 453 Chemical Reformation and Related Theory [formerly COSM 2605] (1 (2-8)	
Presentation of the theory and practice of chemical reformation. Topics include term	minology, application
and workplace competencies related to chemical reformation. The student will	
related to chemical reformation, demonstrate the proper application of chem	nical reformation and
exhibit workplace competencies related to chemical reformation. (SCANS 3, 5,	
corequisite: CSME 1401.	, ,
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	d Cosmetology Techniques [formerly COSM 2604] (12.0403)
Mastery of adva services, and wo perform professi	anced cosmetology techniques including hair designs, professional cosmetology brkplace competencies. The student will develop and create a variety of hair designs; onal cosmetology services; and demonstrate cosmetology workplace competencies. Prerequisite or corequisite: CSME 1405.
CSME 2343 Salon De	evelopment [formerly COSM 2606] (12.0403)
Exploration of sa record keeping. operations and c	3 hours alon development. Topics include professional ethics and goals; salon operation; and The student will create a salon portfolio, demonstrate an understanding of salon demonstrate organizational skills related to salon management. (SCANS 1, 2, 3, 4, 5, e or corequisite: CSME 1401.
	ciples of Hair Coloring and Related Theory [formerly COSM 2605] (12.043)
Presentation of application, and terminology rela	the theory and practice of hair color and chemistry. Topics include terminology, workplace competencies related to hair color and chemistry. The student will identify ted to hair color and chemistry, demonstrate the proper application of hair color and e competencies related to hair color. (SCANS 3, 5, 8, 9) Prerequisite or corequisite:
	ed Hair Design [formerly COSM 2603] (12.0403)
related to hair de	epts in the theory and practice of hair design. The student will identify terminology usign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.
related to hair de competencies in CSME 2441 Preparat (12.0403)	sign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.  ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]
related to hair de competencies in CSME 2441 Preparat (12.0403) (2-8) Preparation for t the skills require	sign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.  ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]  4 hours he Texas Cosmetology Commission Operation Examination. The student will exhibit
related to hair de competencies in CSME 2441 Preparat (12.0403) (2-8)Preparation for the skills require	ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]  House Texas Cosmetology Commission Examination [formerly COSM 2603]  Hours the Texas Cosmetology Commission Examination. The student will exhibited for the completion of the Texas Cosmetology Commission Department Examination.
related to hair de competencies in CSME 2441 Preparat (12.0403) (2-8)	usign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.  ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]
related to hair de competencies in CSME 2441 Preparat (12.0403) (2-8)	usign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.  ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]  4 hours he Texas Cosmetology Commission Operation Examination. The student will exhibited for the completion of the Texas Cosmetology Commission theory examination. Prerequisite or corequisite: CSME 1401.  Cosmetology Instructor Courses
related to hair de competencies in CSME 2441 Preparat (12.0403) (2-8)	usign, demonstrate the proper techniques related to hair design and exhibit workplace hair design. (SCANS 1, 2, 8) Prerequisite or corequisite: CSME 1401.  ion for the Texas Cosmetology Commission Examination [formerly COSM 2603]  4 hours he Texas Cosmetology Commission Operation Examination. The student will exhibited for the completion of the Texas Cosmetology Commission theory examination. Prerequisite or corequisite: CSME 1401.  Cosmetology Instructor Courses  Diogy Instructor I [formerly COSM 2813] (13.0301)  5 hours als of instruction of cosmetology students. The student will develop an understanding inc management, design teaching methodologies and design and implement lesson

### CSME 2514 Cosmetology Instructor II [formerly COSM 2812] (13.0301) A continuation of the fundamentals of instruction of cosmetology students. The student will demonstrate proper classroom/clinic management; and implement teaching methodologies and lesson plans. (SCANS 7, 9, 10, 11) Prerequisite: Current Texas Cosmetology Commission Operator's License. CSME 2515 Cosmetology Instructor III [formerly COSM 2812] (13.0301) Presentation of assignments and evaluation techniques for a cosmetology program. The student will develop an understanding of the proper assessment and evaluation techniques in a cosmetology program; and design an evaluation tool for a cosmetology program. (SCANS 2, 6, 7, 9) Prerequisite: Current Texas Cosmetology Commission Operator's License. CSME 2544 Cosmetology Instructor IV [formerly COSM 2813] (13.0301) Advanced concepts of instruction in a cosmetology program. Topics include demonstration and implementation of advanced evaluation and assessment techniques. The student will demonstrate proper assessment and evaluation techniques in a cosmetology program; and implement evaluation tools in a cosmetology program. (SCANS 1, 2, 6, 9) Prerequisite: Current Texas Cosmetology Commission Operator's License. CSME 2545 Instructional Theory & Clinic Operation [formerly COSM 2814] (13.0301) An overview of the objectives required by the Texas Cosmetology Commission Instructor Examination. The student will exhibit the skills required for the completion of the Texas Cosmetology Commission curriculum; demonstrate the management of a lab/clinic in a cosmetology program; and exhibit classroom management skills. (SCANS 1, 2, 8, 10) Prerequisite: Current Texas Cosmetology Commission Operator's License. Criminal Justice (see Law Enforcement/Criminal Justice)

### **Culinary Arts**

Faculty: Peter Lewis, chair; Terry Gouley.

Odessa College offers the student two associate in applied science degree options in culinary arts. Option one, Culinary Arts, focuses on basic and advanced food preparation and baking skills; option two, Food Service Management, focuses on basic food preparation and food service management skills. Both options prepare individuals for entry-level employment positions and affords those individuals with sufficient thinking, reasoning and application skills to pursue and obtain advancement in their chosen profession.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Culinary Arts

Sem	ester Hrs
General Education Requirements	20
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	3
MATH 1332 Structures of College Mathematics	3
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

Major Requirements	33
CULA 1214 A La Carte Cooking (CULI 2210)	2
CULA 1301 Basic Food Preparation (CULI 1201)	
CULA 1305 Sanitation and Safety (CULI 1320)	
CULA 1341 American Regional Cuisine (CULI 2212)	
CULA 1345 International Cuisine (CULI 2211)	
CULA 1391 Special Topics - Nutrition (CULI 1322)	
CULA 1409 Garde Manger (CULI 2215)	
CULA 2201 Intermediate Food Preparation (CULI 1203)	
CULA 2232 Buffet Theory and Production (CULI 2217)	2
CULA 2236 Charcuterie (CULI 2216)	
CULA 2302 Saucier (CULI 1202)	
CULA 2380 Cooperative Education – Culinary Arts (CULI 2377)	
ODEA 2500 GOODETAINE Education - Guillary Arts (GGE 2577)	
Related Requirements	18
PSTR 1301 Fundamentals of Baking (CULI 1206)	3
PSTR 2331 Advanced Pastry Shop (CULI 1207)	
RSTO 1201 Beverage Management (CULI 1221)	
RSTO 1204 Dining Room Services (CULI 1221)	
RSTO 1221 Menu Management (CULI 2224)	
RSTO 1313 Hospitality Supervision (CULI 2223)	3
RSTO 1325 Purchasing for Hospitality Operations (CULI 1321)	3
Total Companies Hause	74
Total Semester Hours	/1
Food Service Management  Semes General Education Requirements	ster Hrs
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	3
MATH 1332 Structures of College Mathematics	3
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
Major Requirements	50
ACCT 1370 Introduction to College Accounting	3
BMGT 1301 Supervision (MGMT 1301)	3
BMGT 1305 Communication in Management	3
BMGT 2309 Leadership (MGMT 2302)	3
BUSI 2301 Business Law I	3
CULA 1301 Basic Food Preparation (CULI 1201)	
CULA 1305 Sanitation and Safety (CULI 1320)	3
	3
CULA 1391 Special Topics - Nutrition (CULL 1322)	3
CULA 1391 Special Topics – Nutrition (CULI 1322)	3 3
CULA 1391 Special Topics – Nutrition (CULI 1322) CULA 2201 Intermediate Food Preparation (CULI 1203)	3 3
CULA 1391 Special Topics – Nutrition (CULI 1322) CULA 2201 Intermediate Food Preparation (CULI 1203) CULA 2302 Saucier (CULI 1202)	3 2
CULA 1391 Special Topics – Nutrition (CULI 1322)  CULA 2201 Intermediate Food Preparation (CULI 1203)  CULA 2302 Saucier (CULI 1202)  CULA 2380 Cooperative Education – Culinary Arts (CULI 2377)	3 2 3
CULA 1391 Special Topics – Nutrition (CULI 1322)	3233
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CULA 1391 Special Topics – Nutrition (CULI 1322).  CULA 2201 Intermediate Food Preparation (CULI 1203).  CULA 2302 Saucier (CULI 1202).  CULA 2380 Cooperative Education – Culinary Arts (CULI 2377).  HRPO 1311 Human Relations (MGMT 2304)  MRKT 1311 Principles of Marketing (MGMT 1321)  RSTO 1201 Beverage Management (CULI 1221).  RSTO 1204 Dining Room Service (CULI 1221).  RSTO 1221 Menu Management (CULI 2224).	3 3 3 3 3 3
CULA 1391 Special Topics – Nutrition (CULI 1322).  CULA 2201 Intermediate Food Preparation (CULI 1203).  CULA 2302 Saucier (CULI 1202).  CULA 2380 Cooperative Education – Culinary Arts (CULI 2377).  HRPO 1311 Human Relations (MGMT 2304)	3 3 3 3 3 2 2 2 2 3 3
CULA 1391 Special Topics – Nutrition (CULI 1322).  CULA 2201 Intermediate Food Preparation (CULI 1203).  CULA 2302 Saucier (CULI 1202).  CULA 2380 Cooperative Education – Culinary Arts (CULI 2377).  HRPO 1311 Human Relations (MGMT 2304)  MRKT 1311 Principles of Marketing (MGMT 1321)  RSTO 1201 Beverage Management (CULI 1221).  RSTO 1204 Dining Room Service (CULI 1221).  RSTO 1221 Menu Management (CULI 2224).	3 3 3 3 3 2 2 2 2 3 3

### **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 Production Cook**

		Semester Hrs
	CULA 1214 A La Carte Cooking (CULI 2210)	2
	CULA 1301 Basic Food Preparation (CULI 1201)	
	CULA 1305 Sanitation and Safety (CULI 1320)	3
	CULA 1341 American Regional Cuisine (CULÍ 2212)	3
	CULA 1345 International Cuisine (CULI 2211)	
	CULA 1391 Special Topics - Nutrition (CULI 1322)	
	CULA 2201 Intermediate Food Preparation (CULI 1203)	2
	CULA 2302 Saucier (CULI 1202)	
	RSTO 1201 Beverage Management (CULI 1221)	2
	RSTO 1204 Dining Room Management (CULI 1221)	2
	RSTO 1325 Purchasing for Hospitality Operations (CULI 1321)	3
To	tal Semester Hours	29
	udent Equipment Requirements for Major Courses CULA 1301, CULA 220 o chef's uniforms consisting of long-sleeved jackets, checkered pants and apr	

- 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
  - Metal measuring spoons
  - G. French whip

### PSTR 1301 and PSTR 2331:

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

### CULA 1214, CULA 1341, and CULA 1345:

Uniforms and tool kit as identified in CULA 1301, 2201, and 2302.

#### CULA 1409, CULA 2232, and CULA 2236:

Uniforms and tool kit as identified in CULA 1301, 2201, and 2302 plus:

- A. 1 set of 1/2" aspic cutters
- B. 1 Exacto knife
- C. 1 set of butter sculpture tools

### **Culinary Arts Courses**

### CULA 1214 A La Carte Cooking [formerly CULI 2210] (12.0503) (1-3) \_\_\_\_\_\_\_2 hours A course in a la carte or "cooking to order" concepts. Topics include menu and recipe interpretation and conversion, organization of workstation, employment of appropriate cooking methods, plating and saucing principles. Lab fee required. (SCANS 1, 3, 4, 5, 7, 8) Prerequisites: CULA 1301, CULA 2201 and CULA 2302. CULA 1301 Basic Food Preparation (formerly CULI 1201) (12.0503) (2-2) \_\_\_\_\_\_\_3 hours A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition and professionalism. Lab fee required. (SCANS 1, 3, 7, 8) Prerequisite: None. CULA 1305 Sanitation and Safety [formerly CULI 1320] (12.0503) A study of personal cleanliness; sanitary practices in food preparations; causes, investigation, control of illness caused by food contamination (Hazard Analysis Critical Control Points); and work place safety standards. (SCANS 1, 2, 4, 5, 7, 8, 9, 10) Prerequisite: None. CULA 1341 American Regional Cuisine [formerly CULI 2212] (12.0503) A study of the development of regional cuisine's in the United States with emphasis on the similarities in production and service systems. Application of skills to develop, organize, and build a portfolio of recipe strategies and production systems. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9) Prerequisite: CULA 1214 and CULA 1345. CULA 1345 International Cuisine [formerly CULI 2211] (12.0503) The study of classical cooking skills associated with the preparation and service of international and ethnic cuisines. Topics include similarities between food production systems used in the United States and other regions of the world. Lab fee required. (SCANS 4, 6, 8, 9) Prerequisite: CULA 1214. CULA 1391 Special Topics in Culinary Arts/Chef Training - Nutrition [formerly CULI 1322] (12.0503) Introduces the concepts and principles of normal nutrition with emphasis on the importance of nutrients and their roles and functions within the body and throughout one's life. The student will be able to understand and interpret nutritional concepts and issues, and estimate the nutritional value of specific food groups within one's diet. (SCANS 1, 2, 3, 4, 6, 9) Prerequisite: None. **CULA 1409 Garde Manger** [formerly CULI 2215] (12.0503) A study of specialty foods and garnishes. Emphasis on design, techniques and display of fine foods. Lab fee required. (SCANS 1, 2, 3, 5, 8, 9) Prerequisite: CULA 1301. CULA 2201 Intermediate Food Preparation [formerly CULI 1203] (12.0503) Continuation of previous food preparation course (CULA 1301). Topics include the concept of precooked food items, as well as scratch preparation. Covers full range of food preparation techniques. Topics also include menu items such as soups, sauces and protein foods. Also includes concentration on the identification of a variety of sandwiches, salads, fruits and vegetables. Lab fee required. (SCANS 1, 3, 4, 5, 7, 8) Prerequisite: CULA 1301.

CUI	LA 2232 Buffet Theory and Production [formerly CULI 2217] (12.0503) 2 hours
	Advanced concepts in the construction of inedible display items. Emphasis on buffet production presentation and service. Lab fee required. (SCANS 1, 2, 3, 5, 7, 8) Prerequisite: CULA 2236.
CUI	LA 2236 Charcuterie [formerly CULI 2216] (12.0503) (1-3)
	Advanced concepts in the construction of sausages, pates, and related forced meat preparations. La fee required. (SCANS 1, 2, 3, 5, 7, 8, 9) Prerequisite: CULA 1409.
CUI	LA 2302 Saucier [formerly CULI 1202] (12.0503) (2-2)
	Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments and the pairing of sauces with a variety of foods. Lab fee required. (SCANS 1, 3, 4, 5, 7, 8) Prerequisite CULA 1301.
CUI	LA 2380 Cooperative Education – Culinary Arts/Chef Training [formerly CULI 2377] (12.0503)  (1-20)
	Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite Consent of department chair.
PST	TR 1301 Fundamentals of Baking [formerly CULI 1206] (12.0501) (2-4)
	Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts and doughnuts Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the use of proper flours. Lab fee required (SCANS 1, 3, 4, 7, 8, 9) Prerequisite: None.
PST	TR 2331 Advanced Pastry Shop [formerly CULI 1207] (12.0501)  (2-4)
	A study of classical desserts, French and international pastries, hot and cold desserts, ice creams an ices, chocolate work and decorations. Emphasis on advanced techniques. Lab fee required. (SCAN: 1, 2, 3, 4, 7, 8) Prerequisite: PSTR 1301.
RST	FO 1201 Beverage Management [formerly CULI 1221] (12.0504)  (2-0)
	A study of the beverage service of the hospitality industry including spirits, wines, beers and non alcoholic beverages. Topics include purchasing, resource control, legislation, marketing, physical plant requirements, staffing, service and the selection of wines to enhance foods. (SCANS 1, 2, 3, 5) Prerequisite: None.
RST	TO 1204 Dining Room Service [formerly CULI 1221] (12.0504)
	(2-0)
RS	TO 1221 Menu Management [formerly CULI 2224] (12.0504)  (2-0)
	A study of the food service principles involved in menu planning, layout and evaluation for a variety of types of facilities and service methods. Emphasis on analysis of menu profitability, modification commodity use, and other activities generated by the menu. (SCANS 1, 2, 3, 5, 6, 8, 9) Prerequisite

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### **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. For attendance policy, please see requirements stated under class attendance (refer to index).

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.

Odessa College offers free tutoring to Odessa College students in the Tutoring Center, located in the Learning Resources Center, Room 200A.

### **Developmental Science Course**

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# Courses and Services Available in Developmental Studies English Courses and the Writing Lab

ENGL 0370, 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. (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. (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. (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. Prerequisite: None.

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 free 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.

### DEVELOPMENTAL EDUCATION 119 MATH 0171 Fundamental Math (32.0104.5137) Provides a review of fundamental mathematics. Presents the use of number concepts and computation skills. Includes solving word problems using integers, fractions and decimals as well as percents, ratios and proportions. Includes how to interpret information from a graph, table or chart, use measure of central tendency, and variability. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College, (SCANS 3, 4, 8, 9) Prerequisite: Completion of MATH 0375 or consent of the instructor. MATH 0172 Algebra – Graphing and Equations (32.0104.5137) Provides a review of algebra – graphing and equations. Presents graphs of numbers and number relationships. Introduces how to solve one- and two-variable equations including word problems. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 3, 4, 8, 9) Prerequisite: Completion of MATH 0375 or consent of the instructor.

### MATH 0173 Algebra - Operations and Quadratics (32.0104.5137)

Provides a review of algebra - operations and quadratics. Presents operations with algebraic expressions. Investigates problems involving quadratic equations, inequalities and their graphs. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 3, 4, 8, 9) Prerequisite: Completion of MATH 0375 or consent of the instructor.

### MATH 0174 Geometry and Problem Solving (32.0104.5137)

(0-1) \_\_\_\_\_\_\_1 hour Provides a review of geometry and reasoning. Presents problems involving geometric figures and investigates how to apply reasoning skills, apply combinations of mathematical skills to solve problems. The student will learn to prioritize time and develop self discipline in this self-paced course as well as learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. (SCANS 3, 4, 8, 9) Prerequisite: Completion of MATH 0375 or consent of the instructor.

### 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)

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

### **READ 0372 College Reading** (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)

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

### **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 which will include three hours of class time each week.

#### 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Diesel Technology

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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 1314 College Algebra or higher level math	
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Major Requirements	
DEMR 1266 Practicum – Diesel Engine Mechanic and Repairer (DESL 1377)	
DEMR 1413 Fuel Systems (DESL 1504)	
DEMR 1505 Basic Electrical Systems (DESL 1503)	
DEMR 1506 Diesel Engine I (DESL 1501)	
DEMR 1549 Diesel Engine II (DESL 1502)	
DEMR 2380 Cooperative Education - Diesel Engine Mechanic & Repairer (DESL 237)	
DEMR 2434 Advanced Diesel Tune-up and Troubleshooting (DESL 2510)	
DEMR 2532 Electronic Controls (DESL 2520)	5
DEMR 2538 Advanced Power Applications I (DESL 2501) or	
DEMR 2542 Automatic Power Shift and Hydrostatic Transmissions I (DESL 2512	.) 5
DEMR 2540 Advanced Power Applications II (DESL 2507) or	
DEMR 1516 Basic Hydraulics (DESL 2511)	5
Related Requirements	
HRPO 1191 Special Topics in Human Resources Management	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
Total Semester Hours	65
Total Selliester flours	VV
Discol Machanias Couldington of Tachnology	
Diesel Mechanics Certificates of Technology	
Certificates of technology are available in the following job-specific fields.	
Level I certificate is TASP-waived.	
<u> Level I – Diesel Technician</u>	
	Semester Hrs
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
DEMR 1266 Practicum - Diesel Engine Mechanic and Repairer (DESL 1377)	2
DEMR 1413 Fuel Systems (DESL 1504)	
DEMR 1505 Basic Electrical Systems (DESL 1503)	5
DEMR 1506 Diesel Engine I (DESL 1501)	
DEMR 1549 Diesel Engine II (DESL 1502)	
HRPO 1191 Special Topics in Human Resources Management	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
Total Semester Hours	32

### <u>Level II -- Option I</u> <u>Heavy Equipment Specialist</u>

The 32 hours specified in level I certificate plus the following courses: Semester Hrs DEMR 2380 Cooperative Education - Diesel Engine Mechanic and Repairer (DESL 2377) ............ 3 DEMR 2542 Automatic Power Shift and Hydrostatic Transmissions I (DESL 2512) ......5 Level II - Option II **Diesel Truck Specialist** The 32 hours specified in level I certificate plus the following courses: Semester Hrs DEMR 2380 Cooperative Education - Diesel Engine Mechanic and Repairer (DESL 2377) .......... 3 DEMR 2434 Advanced Diesel Tune-up and Troubleshooting (DESL 2510) .......4 Total Semester Hours .......54 **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 Total Semester Hours ......9 **Diesel Courses** DEMR 1266 Practicum - Diesel Engine Mechanic and Repairer [formerly DESL 1377] (47.0605) Practical general training and experiences in the work place. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of department chair. **DEMR 1413 Fuel Systems** [formerly DESL 1504] (47.0605) In-depth coverage of the fuel injector pumps and injection systems with emphasis on rebuilding and calibration. Emphasis on fuels and emissions as related to tune-up procedures. The student will use computerized test equipment to evaluate emissions from exhaust systems. The student will recognize problems and devise plans for correction. Students will allocate time while working and communicating with each member in their lab team on the exercise and using technical manuals. The students will acquire new knowledge, skills and improve self-esteem. The reading and discussion of technical material is required. Lab fee required. (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.

### DEMR 1505 Basic Electrical Systems (formerly DESL 1503) (47,0605) An introduction to the basic principles of the electrical systems of diesel powered equipment with emphasis on starters, alternators, batteries and regulators. Students will learn the basic principles of electricity, reading and interpretation of schematic diagrams and multi meters. Current technology will be applied in the diagnosis and repair of these various components. Lab fee required. (SCANS 1, 3, 5, 6, 8, 9, 11) Prerequisite: None. DEMR 1506 Diesel Engine I [formerly DESL 1501] (47.0605) An introduction to the basic principles of diesel engines and systems. Students will learn principles and nomenclatures of diesel engines. Reading and interpreting service manuals and decisions regarding service and repair will be required. Student will use current technologies to diagnose and repair various diesel engines. Lab fee required. (SCANS 1, 6, 8, 9, 11) Prerequisite: None. DEMR 1516 Basic Hydraulics [formerly DESL 2511] (47.0605) Fundamentals of hydraulics including components and related systems. After verifying customer complaints, student teams will conduct component testing and circuit design, operation, system diagnostics, preventive and predictive maintenance. Basic hardware, tools, safety and practices normally associated with maintenance and service trades is also presented along with failure analysis and rebuilding of hydraulic components. Lab fee required. (SCANS 2, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair. **DEMR 1549 Diesel Engine II** [formerly DESL 1502] (47.0605) An in-depth coverage of disassembly, repair, identification, evaluation and reassembly of diesel engines. The students will learn the theory of operation, terminology and proper repair procedures through extensive lab and classroom instruction. Reading and interpretation of service material will be necessary to facilitate understanding, diagnosis and repair of the Caterpillar engine. Lab fee required. (SCANS 1, 3, 5, 6, 8, 9, 11) Prerequisite: None. DEMR 2380 Cooperative Education - Diesel Engine Mechanic and Repairer [formerly DESL 2377] (47.0605) 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of department chair. DEMR 2434 Advanced Diesel Tune-up and Troubleshooting [formerly DESL 2510] (47.0605) Advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense approach. After verifying customer complaints, student teams will use diagnostic equipment to test, troubleshoot and repair electronic and auxiliary systems to include electronic controlled engines and other computer controlled systems. Preventive maintenance and tune-up techniques are also presented while stressing problem solving strategies. Service manuals and other research tools and resources are emphasized along with the development of diesel vocabulary and specialized electronics math skills. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair. **DEMR 2532 Electronic Controls** [formerly DESL 2520] (47.0605) (4-4) ...... 5 hours Advanced skills in diagnostic and programming techniques of electronic control systems. After verifying customer complaints, student teams will perform preventative and predictive maintenance, system analysis and correct repair procedures. Theory and application of basic hardware, tools, safety, practices and repair of wiring circuits on all types of electrical components will be emphasized. Lab fee required. (SCANS 2, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair.

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chassis and its various components. Lab fee required. (SCANS 1, 2, 6, 7, 8, 9, 11) Prerequisite: None.

A study of the operation, maintenance and repair of automatic power shift hydrostatic transmissions. After verifying customer complaints, student teams will learn operating principles of power shift transmissions, conventional oval track machines and elevator sprocket machine final drives. Emphasis on hydraulic principles and power flow, diagnostic procedures, disassembly, inspection, repair and reassembly. Lab fee required. (SCANS 2, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair

### **Drafting Technology**

Faculty: Galen Ballard, chair; James McPherson.

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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

### Course of Study for Associate in Applied Science Degree

	Semester Hrs
General Education Requirements	17
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra or higher level math	3
MATH 1316 Plane Trigonometry	3
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	35
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

Level I certificates are TASP-waived.

### **Level I - Architectural Detailer**

Semester	Hrs
Technical Core	
DFTG 1405 Technical Drafting (DRAF 1401)	4
DFTG 1409 Basic Computer-Aided Drafting (DRAF 2408)	4
DFTG 1417 Architectural Drafting - Residential (DRAF 2401)	
DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418)	4
DFTG 2410 Structural Drafting (DRAF 2406)	4
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	
Total Semester Hours	. 24

### <u>Level I – Machine Drafting Detailer</u>

Semester Hrs

echnical Core	
DFTG 1405 Technical Drafting (DRAF 1401)4	1
DFTG 1409 Basic Computer-Aided Drafting (DRAF 2408)	
DFTG 1433 Mechanical Drafting (DRAF 2402)4	1
DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418)	
DFTG 2412 Technical Illustration (DRAF 2403)	1
MCHN 1438 Basic Machine Shop I (MACH 1401)	1
otal Semester Hours	1

### Level I - Structural Drafting Detailer

	Semester Hrs
Technical Core	
DFTG 1405 Technical Drafting (DRAF 1401)	4
DFTG 1409 Basic Computer-Aided Drafting (DRAF 2408)	4
DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418)	4
DFTG 2410 Structural Drafting (DRAF 2406)	4
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	4
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
Total Semester Hours	24

### <u>Level I – Pipe Drafting Detailer</u>

Semester Hrs
Technical Core
DFTG 1405 Technical Drafting (DRAF 1401)
DFTG 1444 Pipe Drafting (DRAF 2404)
DFTG 1452 Intermediate Computer-Aided Drafting (DRAF 2418) 4
OSHT 2401 OSHA Regulations – General Industry (OSHA 2395)
Total Semester Hours
Advanced Skills Certificate of Technology
Level III - Technical Illustrator
May only be awarded along with or following completion of associate or higher-level degree.
Semester Hrs
Technical Core DFTG 1454 Architectural Drafting – Commercial (DRAF 2411)
DFTG 2402 Machine Drafting (DRAF 2412)4
DFTG 1491 Advanced Technical Illustration (DRAF 2413)
Total Semester Hours
<b>Drafting Technology Courses</b>
DFTG 1405 Technical Drafting [formerly DRAF 1401] (48.0101)
(2-4)
DFTG 1409 Basic Computer-Aided Drafting [formerly DRAF 2408] (48.0101)
(2-4)
DFTG 1417 Architectural Drafting – Residential [formerly DRAF 2401] (48.0102) (2-4)
Architectural drafting procedures, practices and symbols, including preparation of detailed working drawings for residential structure with emphasis on light frame construction methods. This course is the capstone course for the Architectural Detailer Certificate. Lab fee required. (SCANS 1, 2, 3, 8) Prerequisite: DFTG 1405.
DFTG 1433 Mechanical Drafting [formerly DRAF 2402] (48.0105)
(2-4)

	(2-4)
DF	<b>G 1452 Intermediate Computer-Aided Drafting</b> [formerly DRAF 2418] (48.0101) (2-4)
	A continuation of practices and techniques used in basic computer-aided drafting emphasizing batch files, scripted files, customized program menus, and extracted attributes. Introduction to three dimensional drafting. Lab fee required. (SCANS 2, 6, 8, 9) Prerequisite: DFTG 1409.
DF	G 1454 Architectural Drafting – Commercial [formerly DRAF 2411] (48.0102)
	(2-4)
DF	G 1491 Special Topics in Drafting: Advanced Technical Illustration [formerly DRAF 2413] (48.010
	(2-4)
DF٦	G 2381 Cooperative Education - Drafting [formerly DRAF 2377] (48.0101)
	(1-20)
DF	G 2402 Machine Drafting [formerly DRAF 2412] (48.0105)
	(2-4)
DF	G 2410 Structural Drafting [formerly DRAF 2406] (48.0101)
	(2-4)
DF	TG 2412 Technical Illustration [formerly DRAF 2403] (48.0101)
	(2-4)

### **Education**

Advisor: Don Jacobs.

## Course of Study for Associate in Arts Degree Education Majors

General Education Requirements .....

Semester Hrs

COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric3	
ENGL 1302 Composition and Literature	
ENGL (Sophomore level)6	
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	
HIST 1301 United States History to 18773	
HIST 1302 United States History from 18773	
MATH 1314 College Algebra or	
MATH 1332 Structures of College Mathematics or higher level math	
PHED (any two one-hour activity courses)2	
PSYC 2308 Child Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
*An additional college level math or laboratory science	
Any four-hour laboratory science4	
Any three-hour fine arts course	
Elementary Education	
Electives (Should be selected from social science, natural science,	
mathematics, foreign languages and fine arts)14-15	
Thatherhalios, foreign languages and time arts)	
Secondary Education	
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Electives (Should be selected from freshman and sophomore courses which will count toward a specialized teaching field. This teaching field must be in a discipline which is taught in the secondary schools. Before elective courses are selected, education students are strongly encouraged to consult with the catalog of senior institution to which they intend to transfer)	
Total Semester Hours	

### **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.

\*These will meet the six to eight hours required in either math or science for an associate of arts degree.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Electrical Technology

Semes Semes	ter Hrs
General Education Requirements	20
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government	3
MATH 1314 College Algebra <u>or</u> higher level math	3
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
•	
Major Requirements	40
CETT 1403 DC Circuits (ELEC 1401)	4
CETT 1441 Solid State Circuits (ELEC 1404)	4
CETT 1457 Linear Integrated Circuits (ELEC 2400)	4
CETT 2381 Cooperative Education - Computer Engineering Technology/Technician (ELEC	
EEIR 1491 Special Topics: Electrical Test Preparation - Master	4
ELMT 1301 Basic Programmable Controllers (ELEC 2411)	3
ELMT 1491 Special Topics: Electrical Test Preparation - Journeyman	4
ELMT 2339 Advanced Programmable Logic Controllers	3
IEIR 1312 Distribution Systems (ELEC 2302)	
IEIR 1410 Motor Controls (ELEC 2404)	
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	
Related Requirements	
DFTG 1405 Technical Drafting (DRAF 1401)	4
Total Occasion House	
Total Semester Hours	64
Credit for electrical/electronics courses may be awarded by passing an advanced standing exam	
Credit for electrical/electronics courses may be awarded by passing an advanced standing exam Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree	tact the
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology	tact the
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes	ter Hrs
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements	ter Hrs
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements	ter Hrs 20
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements	ter Hrs 20 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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	ter Hrs 20 3 3 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 or higher level math	ter Hrs 20 3 3 3 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 or higher level math  PHED (any two one-hour activity courses)	ter Hrs 20 3 3 3 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric of ENGL 1312 Report Writing  GOVT 2301 U.S. and Texas Government  MATH 1314 College Algebra of higher level math PHED (any two one-hour activity courses)  PSYC 2302 Applied Psychology	ter Hrs 20 3 3 3 3 3 3 2 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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	ter Hrs203333
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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	ter Hrs203333
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements	ter Hrs 20 3 3 3 2 2 3 3 3 3 3 4 2
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric of ENGL 1312 Report Writing  GOVT 2301 U.S. and Texas Government  MATH 1314 College Algebra of higher level math  PHED (any two one-hour activity courses)  PSYC 2302 Applied Psychology  SPCH 1315 Public Speaking of SPCH 1321 Business and Professional Speech  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)	ter Hrs 20 3 3 3 3 3 42 42 4 4
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements	ter Hrs20333334244
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)  CETT 1405 AC Circuits (ELEC 1403)  CETT 1415 Digital Applications ELEC 1402)  CETT 1441 Solid State Circuits (ELEC 1404)	ter Hrs
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  General Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric of ENGL 1312 Report Writing  GOVT 2301 U.S. and Texas Government  MATH 1314 College Algebra of higher level math  PHED (any two one-hour activity courses)  PSYC 2302 Applied Psychology  SPCH 1315 Public Speaking of SPCH 1321 Business and Professional Speech  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)  CETT 1405 AC Circuits (ELEC 1403)  CETT 1415 Digital Applications ELEC 1402)	ter Hrs
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401) CETT 1405 AC Circuits (ELEC 1403) CETT 1415 Digital Applications ELEC 1402) CETT 1441 Solid State Circuits (ELEC 1404) CETT 1445 Microprocessors (ELEC 1408) CETT 1445 Microprocessors (ELEC 1408) CETT 1457 Linear Integrated Circuits (ELEC 2400)	ter Hrs20333342444
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)  CETT 1405 AC Circuits (ELEC 1403)  CETT 1415 Digital Applications ELEC 1402)  CETT 1441 Solid State Circuits (ELEC 1404)  CETT 1445 Microprocessors (ELEC 1408)  CETT 1445 Linear Integrated Circuits (ELEC 2400)  CETT 1491 Special Topics: Circuit Analysis (ELEC 2414)	ter Hrs 20 3 3 3 3 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)  CETT 1405 AC Circuits (ELEC 1403)  CETT 1415 Digital Applications ELEC 1402)  CETT 1441 Solid State Circuits (ELEC 1404)  CETT 1445 Microprocessors (ELEC 1408)  CETT 1445 Linear Integrated Circuits (ELEC 2400)  CETT 1491 Special Topics: Circuit Analysis (ELEC 2414)	ter Hrs 20 3 3 3 3 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401) CETT 1405 AC Circuits (ELEC 1403) CETT 1415 Digital Applications ELEC 1402) CETT 1441 Solid State Circuits (ELEC 1404) CETT 1445 Microprocessors (ELEC 1408) CETT 1445 Microprocessors (ELEC 1408) CETT 1457 Linear Integrated Circuits (ELEC 2400)	ter Hrs 20 3 3 3 3 42 4 5 7 3 3 3 3 3 3 3 3 3
Students with prior training or experience who wish to apply for advanced standing should cont department chair.  Course of Study for Associate in Applied Science Degree Electronics Technology  Semes  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 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  Major Requirements  CETT 1403 DC Circuits (ELEC 1401)  CETT 1405 AC Circuits (ELEC 1403)  CETT 1415 Digital Applications ELEC 1402)  CETT 1441 Solid State Circuits (ELEC 1404)  CETT 1445 Microprocessors (ELEC 1408)  CETT 145 Linear Integrated Circuits (ELEC 2400)  CETT 1491 Special Topics: Circuit Analysis (ELEC 2414)  CETT 2381 Cooperative Education – Computer Engineering Technology/Technician (ELEC 237	ter Hrs 20 3 3 3 42 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

Related Requirement  DFTG 1405 Technical Drafting (DRAF 1401)	<b>4</b>
Total Semester Hours	66
Credit for electrical/electronics courses may be awarded by passing an advanced stand Students with prior training or experience who wish to apply for advanced standing sidepartment chair.	ding examination. hould contact the
Certificates in Electrical Technology	
Level I certificates are TASP-waived.	
Level I - Electrical Technician	
	Semester Hrs
General Education Core	
PSYC 2302 Applied Psychology	3
MATH 1314 College Algebra or higher level math	3
Technical Core	
CETT 1403 DC Circuits (ELEC 1401)	4
IEIR 1410 Motor Controls (ELEC 1410)	4
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
Total Semester Hours	18
<u> Level II – Advanced Electrical Technician</u>	
	Semester Hrs
General Education Core  COSC 1301 Introduction to Computer Systems	0
MATH 1314 College Algebra or higher level math	 ა
PSYC 2302 Applied Psychology	
, G, G = 0.0 - 7 - Fp. 10 - 7 - 5, 5 1.0 - 5, 5 1.0 - 5, 5 1.0 - 5, 5 1.0 - 5, 5 1.0 - 5, 5 1.0 - 5, 5 1.0 - 5	-
Technical Core	
CETT 1403 DC Circuits (ELEC 1401)	
CETT 1441 Solid State Circuits (ELEC 1404)	
CETT 1457 Linear Integrated Circuits (ELEC 2400)	
EEIR 1491 Special Topics: Electrical Test Preparation – Master ELMT 1301 Basic Programmable Controllers (ELEC 2411)	
ELMT 1491 Special Topics: Electrical Test Preparation – Journeyman	
ELMT 2339 Advanced Programmable Logic Controllers	
IEIR 1312 Distribution Systems (ELEC 2302)	
IEIR 1410 Motor Controls (ELEC 2404)	
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
Total Semester Hours	46
Certificates in Electronics Technology	
Level I certificates are TASP-waived.	
Loyal I - Electronica Tachnician	
<u> Level I – Electronics Technician</u>	Semester Hrs
General Education Core	Semester nrs
MATH 1314 College Algebra or higher level math	
• • = • · · · · · · · · · · · · · · · ·	

Technical Core CETT 1403 DC Circuits (ELEC 1401)	
CETT 1405 AC Circuits (ELEC 1403)	***************************************
CETT 1415 Digital Applications (ELEC 1402)	•••••••••••••••••
CETT 1441 Solid State Circuits (ELEC 1404)	
CETT 1445 Microprocessors (ELEC 1408)	***************************************
Total Semester Hours	
Level II - Advanced Electronics Techni	
General Education Core	Semester H
COSC 1301 Introduction to Computer Systems	
ENGL 1312 Report Writing	***************************************
MATH 1314 College Algebra or higher level math	
Technical Core	
CETT 1403 DC Circuits (ELEC 1401)	
CETT 1405 AC Circuits (ELEC 1403)	
CETT 1415 Digital Applications ELEC 1402)	
CETT 1441 Solid State Circuits (ELEC 1404)	
CETT 1445 Microprocessors (ELEC 1408)	
CETT 1457 Linear Integrated Circuits (ELEC 2400)	
CETT 1491 Special Topics: Circuit Analysis (ELEC 2414) CETT 2435 Advanced Microprocessors (ELEC 2408)	
CELL 2435 ADVANCED MICROPROCESSORS LELEC, 24081	
IEIR 1410 Motor Controls (ELEC 2404)	
IEIR 1410 Motor Controls (ELEC 2404)	
Total Semester Hours  Electrical/Electronics Technology Co	4
Total Semester Hours  Electrical/Electronics Technology Company	ourses
Total Semester Hours  Electrical/Electronics Technology Company	Durses 4 hou
Total Semester Hours  Electrical/Electronics Technology Company	Durses4 hou off's laws and circuit analys
Total Semester Hours  Electrical/Electronics Technology Common Co	DUrses4 hou off's laws and circuit analys DC measurements. Lab fe
Total Semester Hours  Electrical/Electronics Technology Common Co	DURSES4 hou off's laws and circuit analys DC measurements. Lab fe
Electrical/Electronics Technology Common Series Indiana Series and capacitive and inductive networks, transformers and resonance. Lab fee	DUrses 4 hou off's laws and circuit analys DC measurements. Lab for the control of the co
Total Semester Hours  Electrical/Electronics Technology Comments  Electronics Technology	DUrses 4 hou off's laws and circuit analys DC measurements. Lab for the control of the co
Electrical/Electronics Technology Comments [Electrical/Electronics Technology Comments [Electrical/Electronics Technology Comments [Instruments of the fundamental of the fundamental of the current including Ohm's law, Kirch techniques. Emphasis on circuit analysis of resistive networks and required. (SCANS 3, 5, 8, 9) Prerequisite: None.  CETT 1405 AC Circuits [formerly ELEC 1403] (15.0301)  (3-3)  A study of the fundamentals of alternating current including series and capacitive and inductive networks, transformers and resonance. Lab fee Prerequisite: CETT 1403.  CETT 1415 Digital Applications [formerly ELEC 1402] (15.0301)	DUISES
Total Semester Hours  Electrical/Electronics Technology Comments  Electronics Technology	DUrses  4 hou off's laws and circuit analys DC measurements. Lab for the control of the control
Total Semester Hours  Electrical/Electronics Technology Combinational and sequential circuits. Lab fee requisite: None.  EETT 1403 DC Circuits [formerly ELEC 1401] (15.0301)  (3-3)  A study of the fundamentals of direct current including Ohm's law, Kirch techniques. Emphasis on circuit analysis of resistive networks and required. (SCANS 3, 5, 8, 9) Prerequisite: None.  CETT 1405 AC Circuits [formerly ELEC 1403] (15.0301)  (3-3)  A study of the fundamentals of alternating current including series and capacitive and inductive networks, transformers and resonance. Lab fee Prerequisite: CETT 1403.  CETT 1415 Digital Applications [formerly ELEC 1402] (15.0301)  (3-3)  An investigation of combinational and sequential logic elements and circuit and troubleshooting of combinational and sequential circuits. Lab fee re 10) Prerequisite: None.  CETT 1441 Solid State Circuits [formerly ELEC 1404] (15.0301)	Durses  4 hou off's laws and circuit analys DC measurements. Lab for the control of the control
Total Semester Hours  Electrical/Electronics Technology Co  CETT 1403 DC Circuits [formerly ELEC 1401] (15.0301) (3-3)  A study of the fundamentals of direct current including Ohm's law, Kirch techniques. Emphasis on circuit analysis of resistive networks and required. (SCANS 3, 5, 8, 9) Prerequisite: None.  CETT 1405 AC Circuits [formerly ELEC 1403] (15.0301) (3-3)  A study of the fundamentals of alternating current including series and capacitive and inductive networks, transformers and resonance. Lab fee Prerequisite: CETT 1403.  CETT 1415 Digital Applications [formerly ELEC 1402] (15.0301) (3-3)  An investigation of combinational and sequential logic elements and circuit and troubleshooting of combinational and sequential circuits. Lab fee results.	DUrses

CETT 1445 Microprocessor [formerly ELEC 1408] (15.0301) (3-3)
An introductory course in microprocessor software and hardware; its architecture, timing sequence, operation and programming; and discussion of appropriate software diagnostic language and tools. Lab fee required. (SCANS 2, 3, 7, 8, 9) Prerequisite: CETT 1415.
CETT 1457 Linear Integrated Circuits [formerly ELEC 2400] (15.0301) (3-3)
A study of the characteristics, operations, stabilization, testing and feedback techniques of linear integrated circuits. Application in computation, measurements, instrumentation and active filtering. Lab fee required. (SCANS 5, 7, 8, 9) Prerequisite: CETT 1441.
CETT 1491 Special Topics in Electronics: Circuit Analysis [formerly ELEC 2414] (15.0301)  (4-0)
Introduces students to computer analysis of electronic circuits. PSPICE, GENESIS and other computer software will be used. Emphasis is placed on designing and evaluating analog circuitry with the computer. Students will write programs for diagnosis and design and analyze resistive, reactive, transistor and other circuits. (SCANS 2, 6, 7, 8, 9) Prerequisite: CETT 1441.
CETT 2381 Cooperative Education – Computer Engineering Technology/Technician [formerly ELEC 2377] (15.0301) (1-20)
Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of department chair.
<b>CETT 2435 Advanced Microprocessors</b> [formerly ELEC 2408] (15.0301) (3-3)
An advanced course utilizing the microprocessor in control systems and interfacing. Emphasis on microprocessor hardware and implementation of peripheral interfacing. Lab fee required. (SCANS 5, 8, 9) Prerequisite: CETT 1445.
EEIR 1491 Special Topics in Electrical: Electrical Test Preparation – Master (47.0101)  (4-0)
Presents applications of the National Electrical Code for students preparing for local or state master electrical tests. Includes layout and design concepts in residential, commercial and industrial wiring. Emphasis is placed on formulas and calculations used for the design and layout of electrical systems in residential, commercial and industrial wiring. (SCANS 5, 8, 9) Prerequisite: None.
ELMT 1301 Basic Programmable Logic Controllers [formerly ELEC 2411] (15.0403)  (2-2)
An introduction to programmable logic controllers as used in industrial environments including basic concepts, programming, applications, troubleshooting of ladder logic and interfacing of equipment. Lab fee required. (SCANS 5, 8, 9) Prerequisite: IEIR 1410.
ELMT 1491 Special Topics in Electrical: Electrical Test Preparation – Journeyman (15.0403)  (4-0)
Presents applications of the National Electrical Code for students preparing for local or state journeyman electrical tests. Includes concepts in residential, commercial and industrial wiring. Emphasis is placed on the interpretation of the language, notes, tables and other information presented in the National Electrical Code. (SCANS 5, 8, 9) Prerequisite: None.

lab will enable the student to choose the material, tools, equipment and procedures necessary to identify, construct and troubleshoot electrical circuitry. Lab fee required. (SCANS 5, 8, 9) Prerequisite:

### **Emergency Medical Technology**

Faculty: LeeDon Martin, chair; Brandon Tate, Dr. Weldon Butler, medical director.

The emergency medical technology program is currently under revision by the Texas Department of Health, Emergency Medical Services Division and the Texas Higher Education Coordinating Board. The revisions are anticipated to be completed by Sept. 1, 2000, and the program and courses listed in this catalog will be changed accordingly. Contact the department chair for information regarding the

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.

Note: Enrollment in EMED 1301, 2401, 2601, 2801 and 2802 requires student liability insurance and health and accident 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.

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

First Year

First Semester Semester	
EMED 1301 Clinical Procedures	
EMED 1501 Basic Emergency CareENGL 1301 Composition and Rhetoric	
MATH 1332 Structures of College Mathematics I or higher-level math	
PHED 1100 Lifestyle Assessment and Modification	
Second Semester	
BIOL 2404 Human Anatomy and Physiology	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
HPRS 1106 Medical Terminology (BIOL 1170)	
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 Systems	
EMED 2801 Paramedic Development I	
*Guided Elective(s)	(
Fourth Semester	
EMED 2802 Paramedic Development II	
PSYC 2301 Introduction to Psychology	
Elective	:
Total Semester Hours	. 6
*Guided electives are chosen by students from the following courses:	
EMED 2601 Intermediate Emergency Care	
EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	
PHED 2376 Prevention and Care of Athletic Injuries	
SPAN 1300 Conversational Spanish	
Course of Study for Certificate of Completion	
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 Systems	:
SPCH 1321 Business and Professional Speech	
Total Semester Hours	4
IVIAI JEHIVJIVI IIVIIIJ	. (3

First Semester	<u>Level I – Intermediate Emergency Medical Technician</u>	
	01 Clinical Procedures	3
EMED 150	01 Basic Emergency Care	5
SPCH 132	21 Business and Professional Speech	3
Second Semest	··	
COSC 130	01 Introduction to Computer Systems	3
EMED 240	01 Intermediate Clinical Procedures	4
PHED (any	y one-hour activity course)	1
Total Semester	Hours	25
	<u> Level I – Advanced Emergency Medical Technician</u>	
First Semester		
COSC 130	11 Introduction to Computer Systems	3
EMED 130	1 Clinical Procedures	3
EMED 150	1 Basic Emergency Care	5
SDCH 132	y one-hour activity course)	
01 011 102	Tousiness and Frotessional Speech	
Summer Semes EMED 220	ster 11 Electrocardiography and Prehospital Pharmacology	2
Fall Semester		
	1 Paramedic Development I	8
EMED 280.	2 Paramedic Development II	
	·	8
	2 Paramedic Development II	8
	·	8
Total Semester . EMED 1301 Clin	Emergency Medical Technology Courses	33
Total Semester  EMED 1301 Clin (0-9)	Hours  Emergency Medical Technology Courses  nical Procedures	3 hours
EMED 1301 Clin (0-9) Introduction wishing to w patient rece ambulance be exposed knowledge to communi	Emergency Medical Technology Courses	3 hours of students herpreting part of the judents will use their and learn
EMED 1301 Clin (0-9) Introduction wishing to w patient rec ambulance be exposed knowledge to communi 10) Corequ	Emergency Medical Technology Courses  nical Procedures  In to emergency patient care. Designed to complement EMED 1501 and required control and relevant reports. Students learn to prioritize care, participate as per and hospital team, and perform skills to their level of knowledge and ability. Students with the pre-hospital setting and hospital setting, and learn how to apply and and skills. Students will be responsible for achieving their EMED clinical goals in incate with instructors, hospital, and ambulance staff and patients. (SCANS 1, 2,	3 hours of students att of the udents will use their and learn 4, 5, 8, 9,

### EMED 2201 Electrocardiography and Prehospital Pharmacology 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. EMED 2400 Advanced Paramedic Review Presents students with terminology, concepts, new technology of emergency medicine and team approach concepts. Allows students to learn new techniques and skills. (SCANS 1, 2, 5, 8, 9) Prerequisite: Current EMT-paramedic certification. **EMED 2401 Intermediate Clinical Procedures** Designed to complement EMED 2604. Presents clinical opportunities for the student to meet the competencies required on an EMT-I. Students work in various hospital departments and on an MICU ambulance, where they provide patient care. Students must be able to communicate with multiple agencies, have leadership qualities, be able to perform treatments. Students must be professional and have high medical ethic standards. (SCANS 1, 2, 5, 8, 9, 10, 11) Corequisite: EMED 2601. **EMED 2601 Intermediate Emergency Care** (4-8) \_\_\_\_\_\_6 hours Students will be introduced to intermediate level of emergency care of sick and injured patients. Students must be able to communicate with a medical director, medical facilities and mobile intensive care ambulance units. Students must be able to perform at a higher level than the EMT by mastering the intermediate skills of advanced airway procedures, IV therapy, advanced patient assessment and MAST pants therapy. Students must understand the anatomy and physiology in greater depth, and learn to assess patients to a higher degree who may require the advanced emergency care. Critical workplace competencies include leadership, decision-making ability, team work with various other agencies. Personal qualities must include responsibility, sociability, self-motivation, self-management and good medical ethics to ensure safe and efficient patient care. Lab fee required. (SCANS 1, 2, 3, 4, 5, 7, 8, 9, 11) Prerequisites: Current Texas EMT certification and be 18 years of age. Corequisite: EMED 2401. EMED 2801 Paramedic Development I 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) Prerequisites: BIOL 2404, EMED 2201, EMT certification and consent of the department chair.

EMED 2802 Paramedic Development II

the department chair.

## **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**

Semes	ster Hr
General Education Requirements	34
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	18
ENGR 1304 Engineering Drawing	
ENGR 2301 Mechanics I	
ENGR 2302 Mechanics II	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2320 Differential Equations	
William San	
Related Requirements	12
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	
COCC 1770 Introduction to computer colonics	
Total Semester Hours	6
1940.9917. 119417. 119417.	

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)**

#### ENGR 2301 Mechanics I (14.1101.5229)

#### ENGR 2302 Mechanics II (14.1101.5329)

Dynamics of particles, including harmonic motion, motion of a particle in a central force field, momentum and work methods, theory of rigid body motion, work and energy methods, and relative motion in rigid bodies. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing and planning actions necessary to solve problems. Students will further develop and/or discover mathematical relationships and acquire skills in gathering, organizing and evaluating information. (SCANS 3, 6, 9) Prerequisite: ENGR 2301.

### **English and Foreign Languages**

Faculty: Dr. Donna Smith, chair; Dr. Judith Cornes, Beverly Forsyth, Wayne Johnson, Dr. Mark Jordan, Kathryn Keen, Dr. David Lane, Dr. David Mulry, Ivan Reyez, Ann Rusnak, 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.

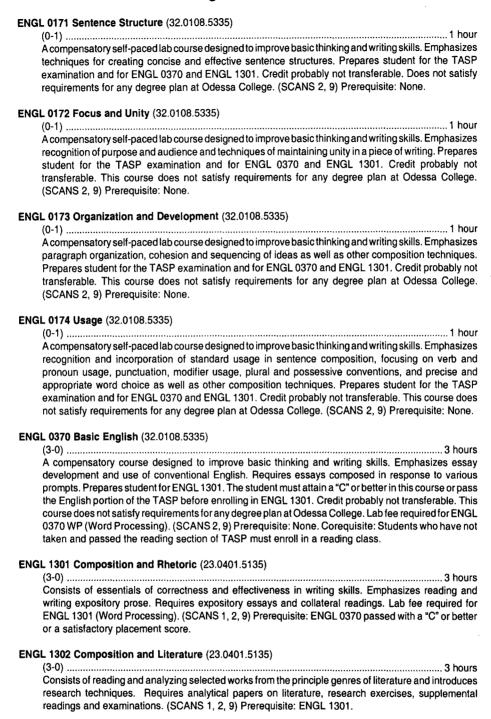
## Course of Study for Associate in Arts Degree English Major

	Semester Hrs
General Education Requirements	48
COSC 1301 Introduction to Computer Systems	3
Foreign Language (FREN, GERM or SPAN 1411 and 1412)	8
Foreign Language (sophomore level)	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
*MATH (college level)	ε
PHED (any two one-hour activity courses)	
Science (two sequential laboratory courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech .	3
Major Requirements	12
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL 2322 Survey of British Literature I	
ENGL 2323 Survey of British Literature II	
Approved Electives (see department chair for options)	3
Total Semester Hours	63
····	

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

<sup>\*</sup> Students should check math requirement of designated senior institution.

### **English Courses**



ENGL 131	2 Report Writing (23.1101.5135)
(3-0)	3 hours
forms	ists of reading and writing directions, proposals, abstracts, summaries, letters and other repor s commonly used in business and industry. Gives attention to style, paragraphing, organization
mech	panics, and usage as they apply to technical writing. Students should check with universities
regar	ding course transferability. Lab fee required for ENGL 1312 (Word Processing). (SCANS 2, 9, 11)
Prere	equisite: ENGL 0370 passed with a "C" or better or a satisfactory placement score.
ENGL 230	7 Creative Writing (23.0501.5135)
(3-0)	
Introd	duces the study and writing of fiction and poetry. Presents contemporary writers, market analysis
and ;	preparation and submission of manuscripts for publication. An elective course that will not
	itute for any required English course in any associate degree program. May be repeated for credit.
	ransfer, perhaps, in selected majors at senior institutions. (SCANS 2, 9) Prerequisite: ENGL 1302
or co	nsent of the instructor.
ENGL 231	1 Technical and Report Writing (23.1101.5135)
(3-0) Cons	ists of reading and writing technical documents used in business and industry. Offers practical
	rience in the use of technical terms and in the processes of collection, interpretation, organization,
	extual presentation of data. Students should check with universities regarding course transferability.
	ee required for ENGL 2311 (Word Processing). (SCANS 2, 6, 9) Prerequisite: ENGL 1302 or
	ent of the department chair.
-NGI 232	2 Survey of British Literature L (23 0801 5135)
(3-0)	2 Survey of British Literature I (23.0801.5135)
Cons	ists of reading and analyzing significant works of British literature from the Old English period
throu	gh the Neoclassical period. Requires research paper or several short analytical papers. Required
of all	English majors. (SCANS 1,2,9) Prerequisite: ENGL 1302.
ENGL 232	3 Survey of British Literature II (23.0801.5135)
(3-0)	3 hours
	ists of reading and analyzing significant works of British literature from the Romantic period to the
	ent day. Requires research paper or several short analytical papers. Required of all English
major	rs. (SCANS 1, 2, 9) Prerequisite: ENGL 1302.
ENGL 232	7 Survey of American Literature I (23.0701.5135)
(3-0)	3 hours
Cons	ists of reading and analyzing significant works of American literature from the Colonial period
throu	gh the Romantic period. Requires research paper or several short analytical papers. (SCANS
1,2,9	Prerequisite: ENGL 1302.
ENGL 232	8 Survey of American Literature II (23.0701.5135)
(3-0)	ists of reading and analyzing significant works of American literature from the Realistic period to
	present day. Requires research paper or several short analytical papers. (SCANS 1, 2, 9) equisite: ENGL 1302.
ENOL 000	0.0
ENGL 233. (3-0)	2 Survey of World Literature I (23.0301.5235)
Cons	ists of reading and analyzing significant works of literature of the western world from the Classical
perio	d through the Renaissance. Requires research paper or several short analytical papers. (SCANS
	9) Prerequisite: ENGL 1302.
ENGL 233	3 Survey of World Literature II (23.0301.5235)
(3-0)	3 hours
Cons	ists of reading and analyzing significant works of literature of the western world from the
Neoc	lassical period through the present day. Requires research paper or several short analytical
pape	rs. (SCANS 1, 2, 9) Prerequisite: ENGL 1302.
P-P-0	

### **Options**

Students who enroll in ENGL 0370 (Word Processing) or ENGL 1301 (Word Processing) and who lack keyboarding skills should also enroll in POFT 1127 Introduction to Keyboarding, a one-hour, nine-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.

A number of English classes are offered via the Internet. Students wishing to take an Internet class are strongly recommended to have their own email account, free and regular access to a computer and sufficient technology to access the multimedia components of the World Wide Web.

### 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 other drills most needed for communication, with ample opportunity for students to practice speaking the language. With the aid of well-equipped labs and teachers well qualified to teach the spoken language, students are expected to be able to speak, read and write the language by the time they have completed their second year of study. From the first day, class is carried on primarily in the language being studied.

## Course of Study for Associate in Arts Degree Foreign Language Major

	Semester Hrs
General Education Requirements	43
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	3
HIST 1301 U.S. History to 1877	
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	

1EU	in 1411 First real German (10.0001.5151)	
	(3-2)	4 hours
	A basic course conducted in German for students without previous experience in the	German
	language. Emphasizes simple conversation: pronunciation, fluency and vocabulary. Presen	
	grammar and composition. May require up to two hours per week of individual practice in the la	nguage
	lab. Individual help available. Lab fee required. (SCANS 2, 9) Prerequisite: None.	

#### **GERM 1412 First Year German II** (16.0501.5131)

(3-2)	4 hours
A continuation of GERM 1411. Has same purposes and uses same techniques. Lab for	
(SCANS 2, 9) Prerequisite: GERM 1411 or its equivalent.	·

GERM 2311 Seco	nd Year German I (16.0501.5231)
A sequential based on rea	continuation of GERM 1411 and 1412. Conducted in German. Emphasizes conversation ading assignments. Includes grammar and composition. Many course elements self-dual help available. (SCANS 2, 9) Prerequisite: GERM 1412 or its equivalent.
SERM 2312 Seco	nd Year German II (16.0501.5231)
A continuation	on of GERM 2311. Has same purposes and uses same techniques. (SCANS 2, 9) GERM 2311 or its equivalent.
	Latin
	ear Latin I (16.1203.5131) 4 hours
An introducto	ory study of Latin for those students with little or no previous knowledge of the language. mmar, syntax and vocabulary with the aim of achieving a reading knowledge of the equires selected readings from Roman authors. Lab fee required. (SCANS 2, 9)
ATI 1412 First Y	ear Latin II (16.1203.5131)
A continuation building and	4 hours on of LATI 1411. Has same purposes and techniques but goes further with vocabulary more advanced readings. Lab fee required. (SCANS 2, 9) Prerequisite: LATI 1411 or its and consent of the instructor.
	Spanish
	ersational Spanish I (16.0905.5431)
Conducted in	n basic, everyday conversation in simple social contexts. Introduces sound sentence emphasizes basic vocabulary, idiomatic expressions and daily speech. (SCANS 2, 9) None.
SPAN 1305 Inten	sive Spanish Practicum (16.0905.5131)
A two-week side trips to c Cost included	ks]
	ersational Spanish II (16.0905.5431)
À continuation	3 hours on of SPAN 1300. Increases conversational ability and structural knowledge of Spanish. 9) Prerequisite: SPAN 1300, its equivalent or consent of the instructor.
SPAN 1411 First	Year Spanish I (16.0905.5131)
	4 hours se conducted in Spanish for students without previous experience in Spanish. Emphasizes

	NN 1412 First Year Spanish II (16.0905.5131) (3-2)
	Conducted in Spanish, a continuation of SPAN 1411. Emphasizes more advanced conversation pronunciation, fluency and vocabulary. Presents more advanced grammar and composition. Ma 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	NN 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 29) 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)
	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.
SPA	N 2315 Spanish for Native Speakers of Spanish II (16.0905.5431)
	(3-0)
SPA	N 2321 Spanish Literature I (16.0905.5331)
	(3-0)
	Conducted in Spanish, a survey course in Spanish and Latin American literature and culture. Include reading of short prose and poetry selections for students new to Spanish literature. Include conversation, writing and grammar review. (SCANS 2, 9) Prerequisite: SPAN 2312, its equivalent oconsent of the instructor.
SPA	N 2322 Spanish Literature II (16.0905.5331)
	(3-0)
	American literature and culture, along with conversation, writing and grammar review. (SCANS 2, 9 Prerequisite: Span 2321, its equivalent or consent of the instructor.
Er	nvironmental (see Occupational Safety and Health Technology)
Er	IVIRONMENTAL (see Occupational Safety and Health Technology)

# **Fire Technology**

Faculty: LeeDon Martin, chair; Brandon Tate.

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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

Note: Enrollment in EMED 1301 requires student liability insurance and health and accident insurance.

## Course of Study for Associate in Applied Science Degree

### Fire Technology

#### First Year

rirst Semester S	emester mis
FIRT 1301 Fundamentals of Fire Protection (FIRE 1402)	
FIRT 1305 Public Education Programs (FIRE 2307)	
FIRT 1311 Fire Service Hydraulics (FIRE 1204)	
*EMED 1301 Clinical Procedures	
*EMED 1501 Basic Emergency Care	5
Second Semester	
FIRT 1319 Firefighter Health & Safety (FIRE 1401)	3
FIRT 1331 Firefighting Strategies & Tactics I (FIRE 1503)	
FIRT 1307 Fire Prevention Codes & Inspection (FIRE 1306)	
FIRT 1315 Hazardous Materials I (FIRE 1505)	
FIRT 1353 Legal Aspects of Fire Protection	
FIRT 1995 Legal Aspects of File Filection	3
Second Year	
Third Semester	
ENGL 1301 Composition & Rhetoric or ENGL 1312 Report Writing	3
EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	
FIRT 2331 Firefighting Strategies & Tactics II (FIRE 2315)	
` ,	
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 one-hour activity course)	1

	BMGT 1305 Communications in Management	
	COSC 1301 Introduction to Computer Systems	
	Elective	
	FIRT 2380 Cooperative Education - Fire Protection & Safety Technology/Technician (FIRE 2377)	
	PHED (any one-hour activity course)	
	SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech	
Total	Semester Hours	6
	emergency medical technology program is currently under revision by the Texas Department of Hea gency Medical Services Division and the Texas Higher Education Coordinating Board. The revisi	
are ar	ticipated to be completed by Sept. 1, 2000, and the program and courses listed in this catalog will ed accordingly. Contact the department chair for information regarding the revised program.	
	Fire Administration	
	First Year	
Firet (	Semester Semester	Hrs
	FIRS 1401 Firefighter Certification I	
	FIRS 1407 Firefighter Certification II	
	EMED 1301 Clinical Procedures	
	EMED 1501 Basic Emergency Care	
Seco	nd Semester	
	FIRS 1413 Firefighter Certification III	4
i	FIRS 1419 Firefighter Certification IV	4
	FIRS 1423 Firefighter Certification V	
	FIRS 1429 Firefighter Certification VI	
	FIRS 1433 Firefighter Certification VII	
	Second Year	
	Semester	,
	ENGL 1301 Composition & Rhetoric or ENGL 1312 Report Writing	٠ ذ
	EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	٠ ز
	FIRT 2331 Firefighting Strategies & Tactics II (FIRE 2315)	٠ ;
	MATH 1332 Structures of College Mathematics I or higher-level math	
	PHED (any one-hour activity course)	
F	h Semester	
	BMGT 1305 Communications in Management	
	COSC 1301 Introduction to Computer Systems	
	FIRT 1305 Public Education Programs (FIRE 2307)	
	FIRT 2380 Cooperative Education - Fire Protection & Safety Technology/Technician (FIRE 2377)	
	PHED (any one-hour activity course)	
	SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech	(
Total	Semester Hours	6
*Tho	emergency medical technology program is currently under revision by the Texas Department of He	alth
	gency Medical Services Division and the Texas Higher Education Coordinating Board. The revis	ion
-mar	goney moderal corridos principi and no roma riignor addounted coordinating pourd. The forte	
Emerg	nticipated to be completed by Sept. 1, 2000, and the program and courses listed in this catalog wi	II h

A certificate of technology may be earned by those who do not wish to pursue an associate degree by completing the course of study listed below.

# **Certificates of Technology**

<u>Level I – Basic Fire Fighter Academy</u> Level I certificates are TASP-waived.	Ĺ
First Semester	Semester Hours
FIRS 1401 Firefighter Certification I	
FIRS 1407 Firefighter Certification II	
*EMED 1301 Clinical Procedures *EMED 1501 Basic Emergency Care	
EMED 1501 Basic Emergency Care	3
Second Semester	
FIRS 1413 Firefighter Certification III	4
FIRS 1419 Firefighter Certification IV	4
FIRS 1423 Firefighter Certification V	4
FIRS 1429 Firefighter Certification VI	
FIRS 1433 Firefighter Certification VII	4
Total Semester Hours	36
Level III – Advanced Fire Technology May only be awarded along with or following completion of associate  Major Requirements	
FIRT 1303 Fire & Arson Investigation I (FIRE 2301)	3
FIRT 1309 Fire Administration I (FIRE 2303)	3
FIRT 1329 Building Codes and Construction (FIRE 2302)	
Total Semester Hours	
Fire Technology Courses	
FIRS 1401 Firefighter Certification I (43.0203) (3-3)	A hours
An introduction to firefighter safety and development. Topics include Protection Rules and Regulations, firefighter safety, fire science, persor contained breathing apparatus, and fire reports and records. Students subjects; demonstrate the use of self contained breathing apparatus; expepress and records; relate fire service subject matter to firefighting safe	Texas Commission on Fire nal protective equipment, self

#### FIRS 1407 Firefighter Certification II (43.0203)

The study of basic principles and skill development in handling fire service hose and ladders. Topics include the distribution system of water supply, basic building construction and emergency service communication, procedures and equipment. Students will describe hose construction, care, maintenance and testing; demonstrate hose rolls, drags, carries and loads; identify the principles of ladder construction, care and testing; identify the types of water distribution systems and demonstrate proficiency in water supply operations; list the types of construction and building material hazards that affect firefighter safety; state the procedures of receiving alarms and identify alarm devices, equipment and radio procedures. (SCANS 5, 6, 7, 8, 9, 10,11) Prerequisite: Consent of department chair.

#### FIRS 1413 Firefighter Certification III (43.0203)

#### FIRS 1419 Firefighter Certification IV (43.0203)

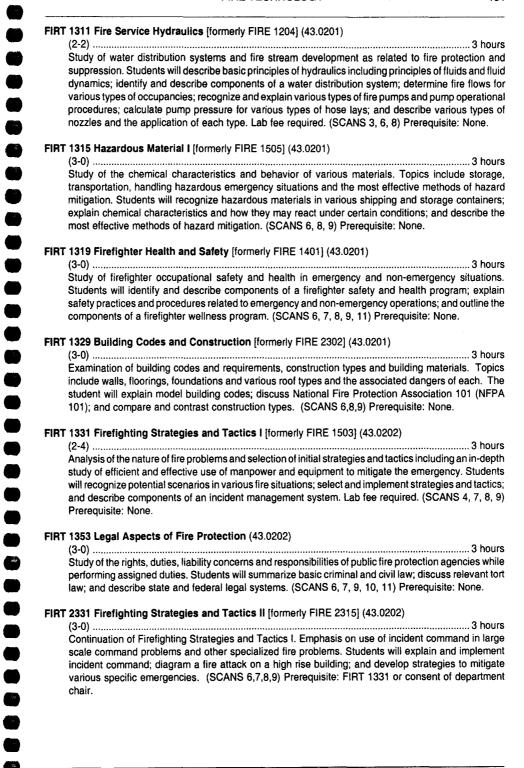
#### FIRS 1423 Firefighter Certification V (43.0203)

The study of ropes and knots, rescue procedures and techniques, and hazardous materials. Preparation for certification as a basic firefighter. Students will describe and demonstrate proper rescue techniques to include search, removal and packing of victims; describe and demonstrate life safety, harnesses, repelling and vehicle extrication; describe and demonstrate various parts of the rope, various knots and their uses; and identify definitions of hazardous materials and describe incident management of hazardous materials. (SCANS 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair.

#### FIRS 1429 Firefighter Certification VI (43.0203)

(SCANS 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair.

FIRS	1433 Firefighter Certification VII (43.0203) (2-4)
	An in-depth study and practice of simulated emergency operations and hands-on live fire training exercises, incident command procedures and combined operations using proper extinguishing methods. Emphasis on safety. Students will describe the general requirements of National Fire Protection Association (NFPA) standards applicable to live fire; extinguish or control live fires while using hose streams and portable extinguishers safely and effectively; and operate within a command structure utilized by all participants. (SCANS 5, 6, 7, 8, 9, 10, 11) Prerequisite: Consent of department chair.
	1191 Special Topics in Fire Protection and Safety Technology/Technician [formerly FIRE 1107 201]
	(0-3)
FIRT	1301 Fundamentals of Fire Protection [formerly FIRE 1402] (43.0202) (3-0)
	Study of the philosophy, history and fundamentals of public and private fire protection. Topics include statistics of fire and property loss, agencies involved in public and private protection, legislative development, departmental organization, training and staffing. Students will describe a modern fire protection agency; outline the organizational and staffing requirements for fire protection; and identify public and private fire protection agencies. (SCANS 1, 2, 6, 7, 8, 9) Prerequisite: None.
FIRT	<b>1303 Fire and Arson Investigation I</b> [formerly FIRE 2301] (43.0201) (3-0)
	In-depth study of basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. The student will determine point of origin and the cause of the fire; identify motives of fire setters; and describe the elements of the combustion process. (SCANS 2, 4, 5, 6, 7, 9) Prerequisite: None.
FIRT	<b>1305 Public Education Programs</b> [formerly FIRE 2307] (43.0202) (2-2)
	Preparation of firefighters and fire officers to develop public fire safety awareness. Emphasis on implementation of fire and public safety programs in an effort to reduce the loss of life. The student will identify safety programs for various target groups; and conduct fire and public safety programs within a community. Lab fee required. (SCANS 6, 7, 8, 9) Prerequisite: None.
FIRT	1307 Fire Prevention Codes and Inspections [formerly FIRE 1306] (43.0201) (3-0)
	Study of local building and fire prevention codes. Emphasis on fire prevention inspections, practices and procedures. Students will identify and apply provisions of local building and fire prevention codes to fire prevention inspections, and describe fire inspection practices and procedures including hazard recognition and correction. (SCANS 7, 8, 9, 10) Prerequisite: None.
FIRT	<b>1309 Fire Administration I</b> [formerly FIRE 2303] (43.0202) (3-0)
	Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer. The student will explain the intra-organizational cooperation needed for a fire department to function properly; describe fundamental management and organizational principles; and demonstrate leadership and management skills at the company grade level. (SCANS 6, 7, 9, 10) Prerequisite: None.



FIRT 2380 Cooperative Education - Fire Protection and	Safety Technology/Technician [formerly FIRE
2377] (43.0201)	

2 hours

Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of 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 nrs
General Education Requirement	58
CHEM 1311 General Inorganic Chemistry I and	
CHEM 1111 Fundamentals of Chemistry Laboratory I	4
CHEM 1312 General Inorganic Chemistry II and	
CHEM 1112 Fundamentals of Chemistry Laboratory II	4
COSC 1415 Introduction to Computer Science	4
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	
MATH 1314 College Algebra or higher level math	
MATH 1316 Plane Trigonometry or higher level math	
MATH 1348 Analytic Geometry or higher level math	3
MATH 2313 Calculus I or higher level math	
PHED (any two one-hour activity courses)	2
PHYS 1401 College Physics I or PHYS 2425 Engineering Physics I	4
PHYS 1402 College Physics II or PHYS 2426 Engineering Physics II	4
SPCH 1315 Public Speaking	
,	

	BIOL 2470 Marine Ecology
	GEOL 1403 Physical Geology
	GEOL 1404 Historical Geology
Tota	al Semester Hours
<u> </u>	DI 4400 Physical Carleys (40 0004 5400)
GE	<b>DL 1403 Physical Geology</b> (40.0601.5139) (3-3)
	This course is a study of the physical and chemical aspects of the Earth's interior and exterior crus Students will study the origin, occurrence, and classification of minerals, rocks, structures an 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.
GE(	<b>DL 1404 Historical Geology</b> (40.0601.5139) (3-3)
	Students study the chronological sequence of events in the physical history of the Earth and its lift 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
eco	Anthropology is a comprehensive study of man and his works. The discipline includes human origin an elopment, variation in physical types, and aspects of human culture such as family patterns and customnomics, religions, languages, and handicrafts and technology. ANTH 2301 and ANTH 2351 will fulf all science requirements at many universities.
AN	TH 2301 Physical Anthropology (45.0301.5142) (3-0)
	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 physic 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
AN?	FH 2351 Cultural Anthropology (45.0201.5342)
	(3-0)
	Geography
und	Courses in geography are designed to acquaint students with the world and its peoples. Major aspect oth physical and cultural geography are studied in an integrated manner in order to provide a greater erstanding of world conditions. GEOG 1301 and GEOG 1302 will fulfill social science requirements by colleges.
	OG 1301 Principles of Geography I (45.0701.5142)
GE	(3-0)

#### **GEOG 1302 Principles of Geography II** (45.0701.5142)

German (see English and Foreign Languages)

Government (see Social Sciences)

**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) as a Licensed Chemical Dependency Counselor (LCDC) in order to accept employment relating to victims of alcohol and drug abuse. The core curriculum in human services can lead to an associate in applied science degree or a certificate of completion in human services. The human services program provides the student with the required 270 clock hours of chemical dependency coursework as well as the supervised 300-hour practicum.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

### Course of Study for Associate in Applied Science Degree Alcohol and Drug Abuse

	Semester Hrs
General Education Requirements	30
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
GOVT 2301 U.S. and Texas Government,	
GOVT 2302 American National Government	
HIST 1301 U.S. History to 1877	3
HPRS 1106 Medical Terminology (BIOL 1170)	
MATH 1332 Structures of College Mathematics I or higher level math	
PHED (any two one-hour activity courses)	2
PSYC 2301 Introduction to Psychology	3
SPCH 1311 Introduction to Speech Communication or	
SPCH 1321 Business and Professional Speech	3

Major Requirements	. 33
DAAC 1304 Pharmacology of Addiction (HUMS 1302)	
DAAC 1307 Addicted Family Intervention	
DAAC 1309 Assessment Skill of Alcohol and Other Drug Addictions	
DAAC 1311 Counseling Theories (HUMS 1308)	
DAAC 1314 Dynamics of Group Counseling	3
DAAC 1317 Basic Counseling Skills (HUMS 1306)	3
DAAC 1319 Introduction to Alcohol and Other Drug Addictions (HUMS 1301)	3
DAAC 1341 Counseling Alcohol and Other Drug Addictions (HUMS 2310)	3
DAAC 1343 Current Issues (HUMS 2401)	
DAAC 2366 Practicum - Alcohol/Drug Abuse Counseling (HUMS 2350)	
*Approved Elective	3
Total Semester Hours	. 63
*See department chair for list of approved electives.	

Students who wish only to qualify to take the TCADA licensure or TAADAC certification examination may do so by successfully completing 21 semester hours of human services courses including DAAC 2366 Practicum.

Students who wish to transfer to an upper-level institution should check requirements of that institution. Students entering the program must meet with the department chair prior to enrollment. Students will need to provide proof of immunization against tetanus/diphtheria, rubella (German measles), rubeola (measles), mumps, and hepatitis B prior to entering the program.

### **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 and secure employment may continue their studies toward a degree on a parttime basis without having to repeat major or related courses in the degree sequence.

### **Course of Study for Certificate of Completion**

Level I certificates are TASP-waived.

#### Level I - Alcohol and Drug Abuse

Semester Hrs
ieneral Education Requirement9
COSC 1301 Introduction to Computer Systems3
ENGL 1301 Composition and Rhetoric
SPCH 1311 Introduction to Speech Communication or
SPCH 1321 Business and Professional Speech
Major Requirements21
DAAC 1304 Pharmacology of Addiction (HUMS 1302)3
DAAC 1311 Counseling Theories (HUMS 1308)
DAAC 1317 Basic Counseling Skills (HUMS 1306)
DAAC 1319 Introduction to Alcohol and Other Drug Addictions (HUMS 1301)3
DAAC 1341 Counseling Alcohol and Other Drug Addictions (HUMS 2310)3
DAAC 2366 Practicum - Alcohol/Drug Abuse Counseling (HUMS 2350)
DAAC 2366 Practicum – Alcohol/Drug Abuse Counseling (HUMS 2350)

## **Human Services Courses**

DAAC 1304 Pharmacology of Addiction [formerly HUMS 1302] (51.1501)
(3-0)
DAAC 1307 Addicted Family Intervention (51.1501)
(3-0)
DAAC 1309 Assessment Skill of Alcohol and Other Drug Addictions (51.1501) (3-0)
Examines procedures by which a counselor/program identifies and evaluates an individual's strengths, weaknesses, problems, and needs which will be used in the development of a treatment plan. Prepares the student to appropriately explain assessment results and individual rights to clients. (SCANS 5, 6, 9, 10) Prerequisite: DAAC 1304, DAAC 1311, DAAC 1317 and DAAC 1319 or department chair approval.
DAAC 1311 Counseling Theories [formerly HUMS 1308] (51.1501) (3-0)
An introduction to major theories of various treatment modalities including reality therapy, psychodynamic, grief therapy, client-centered therapy, rational-emotive therapy, cognitive-behavioral approaches such as life skills training, behavior modification, and the introduction to experiential therapies as they relate to detoxification, residential, outpatient, and extended treatment. (SCANS 5, 6, 9, 10, 11) Prerequisite: None.
DAAC 1314 Dynamics of Group Counseling (51.1501)
(3-0)
DAAC 1317 Basic Counseling Skills [formerly HUMS 1306] (51.1501) (3-0)
This course is designed to facilitate development of the basic communication skills necessary to develop an effective helping relationship with clients. Includes the utilization of special skills to assist individuals, families, or groups in achieving objectives through exploration of a problem and its ramifications; examination of attitudes and feelings; consideration of alternative solutions; and decision making. (SCANS 5, 6, 9, 11) Prerequisite: None.
DAAC 1319 Introduction to Alcohol and Other Drug Addictions [formerly HUMS 1301] (51.1501)
(3-0)
are discussed. Response alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented. (SCANS 5, 7, 9, 10) Prerequisite: None.

#### DAAC 1341 Counseling Alcohol and Other Drug Addictions (formerly HUMS 2310) (51.1501) This course will focus on special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client. Design and utilization of treatment planning using a treatment team approach will be introduced. Confidentiality and ethical issues will be reviewed and practiced. (SCANS 5, 7, 9, 10) Prerequisite: None. DAAC 1343 Current Issues [formerly HUMS 2401] (51,1501) A study of issues that impact addiction counseling. Special populations, dual diagnosis, ethics, gambling, and infectious diseases associated with addiction counseling will be investigated. (SCANS 4, 5, 7, 9, 10, 11) Prerequisites: DAAC 1304, DAAC 1311, DAAC 1317 and DAAC 1319 or department chair approval. DAAC 1391 Special Topics in Alcohol/Drug Abuse Counseling (51.1501) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. May be repeated for credit if course content changes. (SCANS 5, 6, 9, 11) Prerequisites: DAAC 1311 and DAAC 1317. DAAC 2366 Practicum - Alcohol/Drug Abuse Counseling [formerly HUMS 2350] (51.1501) Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. (SCANS 4, 5, 6, 9, 10, 11) Prerequisites: 18 semester hours of DAAC courses including DAAC 1311, DAAC 1317, and a "B" average in all DAAC coursework and department chair approval.

Latin (see English and Foreign Languages)

# Law Enforcement/Criminal Justice

Faculty: Jim McKown, chair; Sidney Lyle, Brad S. 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degrees

#### Law Enforcement/Criminal Justice Option

Semester ni
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 higher level math
PHED (any two one-hour activity courses)
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
of off following of the control of t
Related Requirements
POFI 2401 Word Processing (OFST 1404) or POFT 1429 Keyboarding and Document Formatting
(OFST 1421) or POFT 2401 Document Formatting and Skillbuilding (OFST 1422)
(6.61 1.21) 5. 1. 2. 1.
Major Requirements
*CJCR 1400 LE – Basic Jail Course (CRIJ 2520)
CJLE 1303 Basic Telecommunication Certification (CRIJ 1379)
CJLE 1333 Traffic Law and Investigation (CRIJ 1322)
CJLE 1394 Special Topics: Traffic Management and Supervision (CRIJ 2331)
*CJSA 1312 Crime in America (CRIJ 1307**)
CJSA 1313 Court Systems and Practices (CRIJ 1306**)
*CJSA 1322 Introduction to Criminal Justice (CRIJ 1301**)
*CJSA 1327 Fundamentals of Criminal Law (CRIJ 1310**)
CJSA 1327 Puridamentals of Chillinal Law (Child 1310 )
CJSA 1342 Criminal investigation (CRIJ 2314 )
CJSA 1359 Police System and Practices (CRIJ 2328**)
CJSA 2300 Legal Aspects of Law Enforcement (CRIJ 2323**)
B) (10 and the bound of stated from the fellowing goal of sources
PLUS any nine hours selected from the following pool of courses
CJCR 1304 LE – Probation and Parole (CRIJ 1321)
CJCR 1307 LE – Correctional Systems and Practices (CRIJ 2313**)
CJCR 1391 Special Topics: Corrections/Correctional Administration (CRIJ 2330)
CJLE 1211 Basic Firearms (CRIJ 2471)
CJSA 1308 Criminalistics I (CRIJ 2370)
CJSA 1317 Juvenile Justice System (CRIJ 1313**)
CJSA 1325 Criminology (CRIJ 2578)
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.

Students must complete 67 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 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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/Corrections Option

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	3
MATH 1332 Structures of College Mathematics I or higher level math	3
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Speech	3
Related Requirements	
POFI 2401 Word Processing (OFST 1404) or POFT 1429 Keyboarding and Document Formatt	ing
(OFST 1421) or POFT 2401 Document Formatting and Skillbuilding (OFST 1422)	4
Major Requirements	37
CJCR 1304 LE - Probation and Parole (CRIJ 1321)	3
CJCR 1307 LE - Correctional Systems and Practices (CRIJ 2313**)	
CJCR 1391 Special Topics: Corrections/Correctional Administration (CRIJ 2330)	
*CJCR 1400 LE - Basic Jail Course (CRIJ 2520)	
CJLE 1303 Basic Telecommunication Certification (CRIJ 1379)	3
*CJSA 1312 Crime in America (CRIJ 1307**)	
CJSA 1313 Court Systems and Practices (CRIJ 1306**)	
CJSA 1317 Juvenile Justice System (CRIJ 1313**)	
*CJSA 1322 Introduction to Criminal Justice (CRIJ 1301**)	3
*CJSA 1327 Fundamentals of Criminal Law (CRIJ 1310**)	3
CJSA 1342 Criminal Investigation (CRIJ 2314**)	3
CJSA 2300 Legal Aspects of Law Enforcement (CRIJ 2323**)	3
PLUS any nine hours selected from the following pool of courses	9
CJLE 1211 Basic Firearms (CRIJ 2471)	2
CJLE 1333 Traffic Law and Investigation (CRIJ 1322)	3
CJLE 1394 Special Topics: Traffic Management and Supervision (CRIJ 2331)	3
CJSA 1308 Criminalistics I (CRIJ 2370)	
CJSA 1325 Criminology (CRIJ 2578)	3
CJSA 1347 Police Organization and Administration (CRIJ 1318)	3
CJSA 1359 Police System and Practices (CRIJ 2328**)	3
Total Semester Hours	. 67

\*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.

Students must complete 67 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 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

# Certificates of Completion in Law Enforcement

Level I certificates are TASP-waived.

# <u>Level I – Emergency Telecommunications/Dispatcher</u>

Semester Hrs
General Education Requirements13
*COSC 1301 Introduction to Computer Systems
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing
POFI 2401 Word Processing (OFST 1404) or POFT 1429 Keyboarding and Document Formatting
(OFST 1421) or POFT 2401 Document Formatting and Skill Building (OFST 1422) 4
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech3
Major Requirements
*CJCR 1400 LE – Basic Jail Course (CRIJ 2520)4
CJLE 1303 Basic Telecommunication Certification (CRIJ 1379)
*CJSA 1312 Crime in America (CRIJ 1307**)
CJSA 1313 Court Systems and Practices (CRIJ 1306**)
*CJSA 1322 Introduction to Criminal Justice (CRIJ 1301**)
*CJSA 1327 Fundamentals of Criminal Law (CRIJ 1310**)
CJSA 1342 Criminal Investigation (CRIJ 2314**)
,
Total Semester Hours
Level I - County Correctional Officer
Semester Hrs
General Education Requirements
*COSC 1301 Introduction to Computer Systems
POFI 2401 Word Processing (OFST 1404) or POFT 1429 Keyboarding and Document Formatting
(OFST 1421) or POFT 2401 Document Formatting and Skill Building (OFST 1422)
(6, 6, 1, 12)
Major Requirements 10
Major Requirements
*CJCR 1400 LE - Basic Jail Course (CRIJ 2520)
*CJCR 1400 LE – Basic Jail Course (CRIJ 2520)
*CJCR 1400 LE - Basic Jail Course (CRIJ 2520)
*CJCR 1400 LE – Basic Jail Course (CRIJ 2520)
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*CJCR 1400 LE – Basic Jail Course (CRIJ 2520)
*CJCR 1400 LE - Basic Jail Course (CRIJ 2520)

Prior to admission to the correctional officer program, applicants must be approved by the TDCJ-ID which requires the following qualifications:

. Be at least 18 years of age.

10, 11) Prerequisite: None.

- · Be a high school graduate or possess a state GED.
- · Complete the TDCJ application with all attachments.
- · Pass the TDCJ entrance examination.
- Pass the pre-employment interview.
- Pass a background check.

\*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.

\*\*Texas accrediting agencies have designated 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

#### Level I - Basic Law Enforcement Academy Certificate

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 four courses (20 semester hours) in the law enforcement curriculum. College credit for the six 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 an application packet.

The to damped to the decessing program, approache must complete an appr	Semester Hrs
Major Requirements	20
CJLE 1506 Basic Peace Officer I	5
CJLE 1512 Basic Peace Officer II	
CJLE 1518 Basic Peace Officer III	5
CJLE 1524 Basic Peace Officer IV	5
Related Requirements	2
PHED 1106 Jogging and Walking	1
PHED 1111 Weight Training	1
Total Semester Hours	22
Law Enforcement/Criminal Justice Course	es
CJCR 1304 LE – Probation and Parole [formerly CRIJ 1321] (43.0102) (3-0)	3 hours
A survey of the structure, organization and operation of probation and parole s applicable state statutes and administrative guidelines. The student will desc qualifications for employment as a probation or parole practitioner; demonstrate and treatment practices; and create and develop community relations strategies 11) Prerequisite: None.	ervices. Emphasis on cribe the professional skills in management
**CRIJ 2313 Correctional Systems and Practices (43.0104.5442) CJCR 1307 LE – Correctional Systems and Practices [formerly CRIJ 2325] (43.0 (3-0)	3 nours
A study of the role of corrections in the criminal justice system. Topics include or of correctional systems, institutional operations, management, alternatives treatments and rehabilitation, and current and future issues. The student will ide	to institutionalization, entify the organization

and role of corrections; distinguish operations and procedure within correctional programs; and appraise rehabilitation, alternatives to institutionalization, and future issues. (SCANS 2, 4, 6, 7, 8, 9,

#### CJCR 1391 Special Topics in Corrections/Correctional Administration: Corrections/Correctional Administration [formerly CRIJ 2330] (43.0102) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. The course also involves an in-depth look at community programs for adult and juvenile offenders and treatment modalities in various correctional settings. Student will discuss and debate future trends associated with community-based correction in America. (SCANS 6, 7, 9, 10, 11) Prerequisite: None. CJCR 1400 LE - Basic Jail Course [formerly CRIJ 2520] (43.0102) Provides instruction in human relations, observation, evaluation of prisoners, booking procedures, classification, mug shots, fingerprinting, strip searches, meals, medical services, visitation, inmates rights and privileges, detention areas, key, knife and tool control, disturbances, riots, fire procedures and release procedures. Taught in accordance with the current TCLEOSE instructor guides provided by the Commission for course #1005. The student will comply with licensure requirements of the state of Texas; demonstrate skills in the care, custody and control of jail inmates; and demonstrate an understanding of legal issues, gender and cultural diversity, and stress management techniques in a local correctional environment. Completion of course qualifies student to sit for licensure examination. (SCANS 2, 7, 9, 11) Prerequisite: None. \*\*CRIJ 2301 Community Resources in Corrections (43.0104.5342) CJCR 2324 LE - Community Resources in Corrections [formerly CRIJ 1372] (43.0102) An overview of diversionary practices and treatment programs available to offenders in a local context. Topics include selected recognized models and future trends in community treatment. The student will identify alternatives to incarceration; compare and contrast the strengths and weaknesses inherent to contemporary models of intermediate sanctions; and appraise future trends in community treatment options. (SCANS 1, 2, 9, 10, 11) Corequisites: CJSA 1318 AND CJCR 2325. CJCR 2325 LE – Legal Aspects of Corrections [formerly CRIJ 1373] (43.0102) A study of operation, management and legal issues affecting corrections. Analysis of constitutional issues involving rights of the convicted, as well as civil liability of correctional agencies and staff. The student will assess current case, statutory and constitutional law applicable to the correctional setting including clients, inmates and staff; explain and describe the various types and classifications of correctional populations; and explain consequences of civil and criminal liabilities. (SCANS 1.2.7.9. 10, 11) Corequisites: CJSA 1318 and CJCR 2324. **CJLE 1211 Basic Firearms** [formerly CRIJ 2471] (43.0107) Instruction in firearm safety, cleaning and care techniques, proper shooting principles, and proficiency with a handgun and shotgun. Student will learn basic repairs and adjustments to the weapon and will have to conduct live fire on the range. Lab fee required. Lab fee does not include ammunition. (SCANS 6, 7, 8, 11) Prerequisite: Be a declared CJLE major, be enrolled in other CJLE courses or consent of department chair. \*\*Texas accrediting agencies have designated 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

#### CJLE 1303 Basic Telecommunication Certification [formerly CRIJ 1379] (43.0107) Topics include overview of law enforcement functions, history of public safety communications, federal laws regulating public safety communications, radio communication systems, radio operations, fire and EMS dispatch considerations, telephone operations, law enforcement information systems, communication records, logs and documentation, legal issues, emergency management, police emergency situations, 9-1-1/computer aided dispatch, media relations, stress management and crises intervention. Required course for law enforcement telecommunication personnel prior to completion of 12 months of service. The student will demonstrate radio operations, identify legal issues regarding telecommunications, process radio logs and documentation, prioritize emergency calls for management, and identify crisis intervention techniques. (SCANS 1, 2, 5, 6, 8, 9, 10) Prerequisite: None. CJLE 1333 Traffic Law and Investigation [formerly CRIJ 1322] (43.0107) Instruction in the basic principles of traffic control, traffic law enforcement, court procedures and traffic law. Emphasis on the need for a professional approach in dealing with traffic law violators and the police role in accident investigation and traffic supervision. The student will identify background and underlying principles of the traffic law enforcement effort; describe the legal requirements which govern and control the making and enforcement of criminal laws and traffic laws in particular; explain the procedures to maximize the individual officer's personal safety during a stop, particularly in a criminal situation; explain the factors which influence the officer and violator during their face to face contact; explain the importance of meeting the objectives of a traffic program, i.e. reduction of traffic fatalities and prosecution of traffic offenses; and identify the various enforcement activities that lead to achieving an effective traffic program. (SCANS 1, 3, 6, 9, 11) Prerequisite: None. CJLE 1394 Special Topics in Law Enforcement/Police Science: Traffic Management and Supervision [formerly CRIJ 2331] (43.0107) Students will examine police responsibilities in traffic planning, and will interpret written information, charts and graphs in order to project the cost of traffic flow maintenance. Students will write proposals to allocate manpower and equipment on a cost effective basis in order to solve or reduce engineering problems associated with the enforcement of traffic laws. Students will make comprehensive investigative reports of vehicle accidents and demonstrate an understanding of state reporting procedure for accidents involving casualties. (SCANS 1, 2, 4, 5, 6, 7, 9, 10, 11) Prerequisite: CJLE 1333. CJLE 1506 Basic Peace Officer I (43.0107) Introduction to fitness and wellness, history of policing, professionalism and ethics, United States Constitution and Bill of Rights, criminal justice system, Texas Penal Code, Texas Code of Criminal Procedure, civil process and stress management. This course taken in conjunction with Basic Peace Officer II, III and IV will satisfy the TCLEOSE-approved Basic Peace Officer Training Academy. (SCANS 6, 7, 9, 10, 11) Prerequisite: None. Corequisite: CJLE 1512, CJLE 1518, CJLE 1524. CJLE 1512 Basic Peace Officer II (43.0107) Basic preparation for a new peace officer, Covers field note taking, report writing, "use of force" law and concepts, problem solving, multiculturalism, professional policing approaches, patrol procedures, victims of crime, family violence, MHMR, crowd management, HAZMAT and criminal investigation. This course taken in conjunction with Basic Peace Officer I, III and IV will satisfy the TCLEOSEapproved Basic Peace Officer Academy. (SCANS 6, 7, 9, 10, 11) Prerequisite: None. Corequisite: CJLE 1506, CJLE 1518, CJLE 1524. CJLE 1518 Basic Peace Officer III (43.0107) Basic preparation for a new peace officer. Covers laws pertaining to controlled substances, crowd management, personal property and crime scene investigation. This course taken in conjunction with Basic Peace Officer I, II and IV will satisfy the TCLEOSE-approved Basic Peace Officer Academy.

(SCANS 6, 7, 9, 10, 11) Prerequisite: None. Corequisite: CJLE 1506, CJLE 1512, CJLE 1524.

#### CJLE 1524 Basic Peace Officer IV (43.0107) Basic preparation for a new peace officer. Covers laws directly related to police field work. Topics include Texas Transportation Code, intoxicated driver, Texas Penal code, elements of crimes, Texas Family Code, Texas Alcoholic Beverage Code, and civil liability. Requires the demonstration and practice of the skills of a police officer including patrol, driving, traffic stop skills, use of force, mechanics of arrest, firearm safety and emergency medical care. Also includes study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, note taking and report writing, vehicle operation, traffic direction, crowd control and jail operations. This course taken in conjunction with Basic Peace Officer I. II and III will satisfy the TCLEOSE-approved Basic Peace Officer Training Academy. (SCANS 6, 7, 9, 10, 11) Prerequisite: None. Corequisite: CJLE 1506, CJLE 1512, CJLE 1518. CJSA 1308 Criminalistics I [formerly CRIJ 2370] (43.0104) Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification and handling of evidence for scientific analysis. The student will describe the care required in identifying, collecting and preserving evidence for scientific examination and explain the significance of field and laboratory finding. Lab fee required. (SCANS 2, 4, 6, 7, 8, 9) Prerequisite: CJSA 1342. \*\*CRIJ 1307 Crime in America (45.0401.5242) **CJSA 1312 Crime in America** [formerly CRIJ 1307] (43.0104) The study of crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes and crime prevention. The student will explain the psychological, social and economic impact of crime in society and identify characteristics of major crime, the impact on society and the prevention thereof. (SCANS 1, 2, 3, 4, 6, 7, 9, 11) Prerequisite: None. \*\*CRIJ 1306 Court Systems and Practices [formerly Courts and Criminal Procedures] (22.0101.5442) CJSA 1313 Court Systems and Practices [formerly CRIJ 1306] (43.0104) (3-0) 3 hours Examination of the role of the judiciary in the criminal justice system. Topics include the structure of the American court system, prosecution, right to counsel, pretrial release, grand jury process, adjudication process, types and rules of evidence, and sentencing concepts. The student will describe the American judiciary system and its structure; identify the roles of judicial officers; identify the trial process from pretrial to sentencing; and interpret the role of evidence. (SCANS 1, 2, 5, 6, 7, 9, 11) Prerequisite: CJSA 1322. \*\*CRIJ 1313 Juvenile Justice System (43.0104.5242) CJSA 1317 Juvenile Justice System [formerly CRIJ 2322] (43.0104) A study of the juvenile justice process. Topics include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of police agencies, role of correctional agencies and theories concerning delinquency. The student will describe the juvenile law and the role of juvenile courts; explain the roles of police and correctional agencies concerning delinquency; and review and contrast the theories of delinquent conduct. (SCANS 1, 2, 6, 9) Prerequisite: None. \*\*Texas accrediting agencies have designated 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

#### CJSA 1318 Court Management [formerly CRIJ 1371] (43.0104) Exploration of operational issues in the administration of American courts. Topics include responsibilities of court personnel, records management and organizational management topics. The student will identify operational issues in the administration of American courts including duties and responsibilities of court personnel; explain contemporary record management systems; and outline code of ethics, management styles, budgeting procedures and critical thinking. (SCANS 1, 2, 4, 6, 7, 9, 11) Corequisites: CJCR 2324 and CJCR 2325. \*\*CRIJ 1301 Introduction to Criminal Justice (43.0104.5142) CJSA 1322 Introduction to Criminal Justice [formerly CRIJ 1301] (43.0104) An overview of the criminal justice system. Topics include the history and philosophy of criminal justice, the definition of crime and its nature and impact. The student will describe and explain the history, philosophy and ethical considerations of criminal justice; define the nature and impact of crime on society and how it is integrated into the criminal justice system; distinguish between civil and criminal court systems; and interpret the relationship between the components of the criminal justice system. (SCANS 1, 2, 5, 6, 9, 11) Prerequisite: None. **CJSA 1325 Criminology** [formerly CRIJ 2578] (43.0104) This course examines the cases, treatment and prevention of crime and delinquency. Students will analyze the various aspects of deviant behavior, criminological and methodological, relative to the social sciences. The student will identify and explain the various theories of causation of criminal behavior; identify and appraise the avenue of prevention; outline the various research methods/ methodology used in criminological research; and identify the categories and sources of criminological data utilized in interpreting crime trends. (SCANS 1, 2, 6, 7, 9, 10, 11) Prerequisite: CJSA 1322. \*\*CRIJ 1310 Fundamentals of Criminal Law (22.0101.5342) CJSA 1327 Fundamentals of Criminal Law [formerly CRIJ 1310] (43.0104) A study of the nature of criminal law. Topics include philosophical and historical development, major definitions and concepts, classification of crime, elements of crime and penalties, and individual criminal responsibilities. The student will explain the historical and philosophical development of the nature of criminal law; describe definitions and concepts of criminal law and the classifications of crimes and penalties using Texas statutes as illustrations; list the elements of crimes using the Texas statutes as an illustration; and discuss criminal responsibilities as they apply to the criminal statutes. (SCANS 1, 4, 6, 7, 9, 11) Prerequisites: CJSA 1322. \*\*CRIJ 2314 Criminal Investigation (43.0104.5542) CJSA 1342 Criminal Investigation [formerly CRIJ 2314] (43.0104) Study of investigative theory, the collection and preservation of evidence, sources of information, concepts of interviewing and interrogation, the use of forensic science, and trial preparation. The student will define the goals and objectives of criminal investigation; demonstrate ability to conduct proper crime scene investigations; illustrate the use of forensic science for various statutory offenses; and organize the criminal case including field notes, reports, crime scene activities and mandatory documentation of statutory warning. (SCANS 2, 3, 6, 9, 10, 11) Prerequisite: CJSA 1322. \*\*Texas accrediting agencies have designated 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

CJSA 1347 Police Organization and Administration [formerly CRIJ 1318] (43.0104)
(3-0)
**CRIJ 2328 Police Systems and Practices (43.0104.5742)
CJSA 1359 Police Systems and Practices [formerly CRIJ 2328] (43.0104) (3-0)
Exploration of the profession of police officer. Topics include organization of law enforcement systems the police role, police discretion, ethics, police-community interaction, and current and future issues. The student will explain the application of ethics, discretion, and sensitivity to the police profession and describe the organization of law enforcement systems and its relationship to current and future issues (SCANS 2, 4, 6, 7, 8, 9, 10, 11) Prerequisite: CJSA 1322 and CJSA 1312.
**CRIJ 2323 Legal Aspects of Law Enforcement (43.0104.5642) CJSA 2300 Legal Aspects of Law Enforcement [formerly CRIJ 2323] (43.0104)
(3-0)
**Texas accrediting agencies have designated 10 law enforcement courses as academic transfer course

\*\*Texas accrediting agencies have designated 10 law enforcement courses as academic 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 1313, CRIJ 2301, CRIJ 2313, 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.

# **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.

There is no unique curriculum for students planning to pursue a career in law. Generally, a liberal arts education is preferred. To insure that the pre-law student enrolls in the proper courses, the student must consult with the pre-law advisor at the accepting four-year college prior to registration each semester. The associate of applied science degree requirements listed under Degree Requirements (refer to index) will serve as a basic curriculum guide. The student is encouraged to take elective course work from the legal assistant program as part of a pre-law degree. Again, seek assurance from the accepting four-year pre-law advisor at the senior college that course work from the legal assistant program will transfer.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

# Course of Study for Associate in Applied Science Degree Legal Assistant

	ester Hrs
General Education Requirements	17
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government .	3
MATH 1314 College Algebra <u>or</u> MATH 1324 Mathematical Analysis for Business I <u>or</u> higher level math	. 3
PHED (any two one-hour activity course)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Major Requirements	41
LGLA 1303 Legal Research (LEGL 2302)	
LGLA 1305 Legal Writing (LEGL 1301)	3
LGLA 1313 Introduction to Paralegal Studies (LEGL 1302)	3
LGLA 1341 Administrative Law (LEGL 2317)	
LGLA 1346 Civil Litigation I (LEGL 1305)	
LGLA 1347 Civil Litigation II (LEGL 2316)	
LGLA 1353 Will, Trusts and Probate Administration (LEGL 2311)	3
LGLA 1355 Family Law (LEGL 1304)	
LGLA 2239 Certified Legal Assistant Review (LEGL 2360)	
LGLA 2301 Environmental Law (LEGL 2350)	
LGLA 2303 Torts and Personal Injury Law (LEGL 2312)	
LGLA 2313 Criminal Law and Procedure (LEGL 2355)	3
LGLA 2333 Advanced Legal Document Preparation (LEGL 2301)	
LGLA 2380 Cooperative Education-Paralegal/Legal Assistant (LEGL 2377)	
Edit 12000 000porativo 2200attori i araiogar 20gar 7000tari (2202 2077)	
Related Requirements	14
BUSI 2301 Business Law	
POFI 2401 Word Processing (OFST 1404)	
POFL 1305 Legal Terminology (OFST 1324)	
POFL 1459 Legal Transcription (OFST 2415)	4
Total Semester Hours	72
Course of Study for Certificate of Completion	
Level I certificates are TASP-waived.	
<u> Level I – Legal Assistant</u>	
General Education Requirements	6
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
·	
Major Requirements	23
LGLA 1303 Legal Research (LEGL 2302)	3
LGLA 1305 Legal Writing (LEGL 1301)	3
LGLA 1313 Introduction to Paralegal Studies (LEGL 1302)	3
LGLA 2380 Cooperative Education - Paralegal/Legal Assistant (LEGL 2377)	3
POFI 2401 Word Processing (OFST 1404)	4
POFL 1305 Legal Terminology (OFST 1324)	3
POFL 1459 Legal Transcription (OFST 2415)	
Total Semester Hours	29
A total of 29 semester hours and a minimum grade point average of 2.0 are required for a level I o	ertificate

#### Level II - Advanced Legal Assistant

The 29 semester hours specified in level I certificate – legal assistant plus the following courses are required: LGLA 1353 Wills, Trusts and Probate Administration (LEGL 2311)......3 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). Fulltime students and/or those taking legal assistant courses may qualify for student membership in the national organization. **Legal Assistant Courses** LGLA 1303 Legal Research [formerly LEGL 2302] (22.0103) This course provides a working knowledge of the fundamentals of effective legal research. Topics include law library techniques, computer assisted legal research, briefs and legal memoranda. (SCANS 4, 6, 7) Prerequisite: None. LGLA 1305 Legal Writing [formerly LEGL 1301] (22.0103) This course provides a working knowledge of the fundamentals of effective legal writing. Topics include briefs, legal memoranda, case and fact analysis, citation forms and legal writing styles. (SCANS 1, 6) Prerequisite: None. LGLA 1313 Introduction to Paralegal Studies [formerly LEGL 1302] (22.0103) (3-0) 3 hours This course provides an overview of the paralegal profession including ethical obligations, regulation, professional trends and issues, and the paralegal's role in assisting the delivery of legal services. (SCANS 5, 6, 9, 10, 11) Prerequisite: None. LGLA 1341 Administrative Law [formerly LEGL 2317] (22.0103) (3-0) \_\_\_\_\_\_\_3 hours This course presents fundamental concepts of administrative law and procedure in governmental agencies at all levels with emphasis on the paralegal's role in the administrative process. Topics include creation of governmental agencies, operation, rule making and adjudication, (SCANS 6, 7) Prerequisite: None. LGLA 1346 Civil Litigation I [formerly LEGL 1305] (22.0103) This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal's role. Civil Litigation I together with Civil Litigation II covers litigation from the pretrial stage to the post trial phase. (SCANS 4, 6, 9, 10, 11) Prerequisite: None.

LGL	A 1347 Civil Litigation II [formerly LEGL 2316] (22.0103) (3-0)
	This course presents fundamental concepts and procedures of civil litigation with emphasis on t paralegal's role. Civil Litigation II together with Civil Litigation I covers litigation from the pretrial state to the post trial stage. (SCANS 2, 7) Prerequisite: LGLA 1346.
LGL/	A 1353 Wills, Trusts and Probate Administration [formerly LEGL 2311] (22.0103)
	(3-0)
	<b>1355 Family Law</b> [formerly LEGL 1304] (22.0103)
	(3-0)
	A 2239 Certified Legal Assistant Review [formerly LEGL 2360] (22.0103) (2-0)
	This course provides a review of the mandatory and optional topics covered in the Certified Legal Assistant Examination administered by the National Association of Legal Assistants.
LGL/	A 2301 Environmental Law [formerly LEGL 2350] (22.0103)
	(3-0)
LGL/	A 2303 Torts and Personal Injury Law [formerly LEGL 2312] (22.0103) (3-0)
	This course presents fundamental concepts of tort law with emphasis on the paralegal's role. Top include intentional torts, negligence and strict liability. (SCANS 2, 6, 7) Prerequisite: None.
LGL	A 2313 Criminal Law and Procedure [formerly LEGL 2355] (22.0103)
	(3-0)
LGL/	A 2333 Advanced Legal Document Preparation [formerly LEGL 2301] (22.0103)
	(3-0)
LGL	A 2380 Cooperative Education – Paralegal/Legal Assistant [formerly LEGL 2377] (22.0103)
	(1-20)

# **Maintenance Technologies**

Faculty: Galen Ballard, chair; James Bates.

There are three options available to students in the maintenance technologies program.

The associate in applied science degree in building and property maintenance technology option 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.

The associate in applied science degree in heating, ventilation and air conditioning (HVAC) technology option trains students in 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.

The associate in applied science degree in maintenance technology option 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.

While a certificate of technology with an emphasis in either building and property maintenance, heating, ventilation and air conditioning, or maintenance 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

# Course of Study for Associate in Applied Science Degree Building and Property Maintenance Technology Option

Se	emester Hrs
General Education Requirements	20
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Govern	ment 3
MATH 1314 College Algebra or higher level math	3
PHED (any two one-hour activity courses)	2
PSYC 2302 Applied Psychology	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Technical Core	16
CBFM 1424 Interior Maintenance (MAIN 2402)	4
HART 1403 A/C Control Principles (HVAC 1400)	4
HART 1407 Refrigeration Principles (HVAC 1401)	4
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
Major Requirements	
CNBT 1342 Building Codes and Inspections	3
CNBT 1416 Construction Technology I (BLDG 1601)	4
CNBT 1446 Construction Estimating I (BLDG 2601)	4
CNBT 1450 Construction Technology II (BLDG 1602)	4
CNBT 1453 Construction Technology III (BLDG 1603)	
CNBT 2380 Cooperative Education - Construction/Building Technology/Technician (B	LDG 2377) 3
CNBT 2439 Construction Technology IV (BLDG 1604)	4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4
Total Semester Hours	66

Course of Study for Associate in Applied Science Dec Heating, Ventilation and Air Conditioning Technology Option	
S	emester 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 or GOVT 2302 American National Government	ent 3
MATH 1314 College Algebra or higher level math	3
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
Technical Core	16
CBFM 1424 Interior Maintenance (MAIN 2404)	4
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
MCHN 1401 Sheet Metal I (HVAC 1405)	4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4
Major Requirements	31
HART 1403 A/C Control Principles (HVAC 1400)	4
HART 1407 Refrigeration Principles (HVAC 1401)	4
HART 1442 Commercial Refrigeration (HVAC 1403)	4
HART 1445 Gas and Electric Heating (HVAC 1404)	
HART 1492 Special Topics: Mechanical Code (HVAC 2405)	4
HART 2380 Cooperative Education - Heating, Air Conditioning and	
Refrigeration Technologies/Technician (HVAC 2377)	3
HART 2445 Air Conditioning Systems Design (HVAC 2302)	4
HART 2436 Troubleshooting (HVAC 2404)	4
Total Semester Hours	67
Course of Study for Associate in Applied Science Deg <u>Maintenance Technology Option</u> s	emester Hrs
General Education Requirements	20
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	ent3
MATH 1314 College Algebra or higher level math	3
PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Technical Core	
CBFM 1424 Interior Maintenance (MAIN 2404)	
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
	4 4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4 4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4 4 4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M.	4 4 33 AIN 2377) . 3
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M. CNBT 1342 Building Codes and Inspection	4 4 33 AIN 2377) . 3
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M. CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)	4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M. CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)  HART 1403 A/C Control Principles (HVAC 1400)	
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)  HART 1403 A/C Control Principles (HVAC 1400)  HART 1407 Refrigeration Principles (HVAC 1401)	
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)  Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M CNBT 1342 Building Codes and Inspection ————————————————————————————————————	
Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)  HART 1403 A/C Control Principles (HVAC 1400)  HART 1407 Refrigeration Principles (HVAC 1401)  HART 1445 Gas and Electric Heating (HVAC 1404)  HART 1449 Heat Pumps (HVAC 1404)	
Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)  HART 1403 A/C Control Principles (HVAC 1400)  HART 1407 Refrigeration Principles (HVAC 1401)  HART 1445 Gas and Electric Heating (HVAC 1404)  HART 1449 Heat Pumps (HVAC 1404)  HART 2445 Air Conditioning Systems Design (HVAC 2302)	
Major Requirements  CBFM 2381 Cooperative Education – Building/Property Maintenance and Manager (M CNBT 1342 Building Codes and Inspection  CNBT 1416 Construction Technology I (BLDG 1601)  HART 1403 A/C Control Principles (HVAC 1400)  HART 1407 Refrigeration Principles (HVAC 1401)  HART 1445 Gas and Electric Heating (HVAC 1404)  HART 1449 Heat Pumps (HVAC 1404)	

# **Certificates of Technology in Maintenance Technologies**

Certificates of technology are available in the following job-specific fields. See the program chair for course requirements.

Level I certificates are TASP-waived.

<u> Level I – Basic Carpenter Helper</u>	
	Semester Hrs
CNBT 1342 Building Codes and Inspection	3
CNBT 1416 Construction Technology I (BLDG 1601)	4
CNBT 1450 Construction Technology II (BLDG 1602)	4
COSC 1301 Introduction to Computer Systems	
PSYC 2302 Applied Psychology	3
Total Semester Hours	17
<u> Level I – Basic Construction Technician</u>	
ONDT 4040 Dulleton Onder and becausely	Semester Hrs
CNBT 1342 Building Codes and Inspection	
CNBT 1416 Construction Technology I (BLDG 1601)	
CNBT 1450 Construction Technology II (BLDG 1602)	4
CNBT 1453 Construction Technology III (BLDG 1603)	4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4
Total Semester Hours	19
<u> Level I – Intermediate Construction Technician</u>	
	Semester Hrs
CBFM 1424 Interior Maintenance (MAIN 2404)	4
CNBT 1342 Building Codes & Inspection	
CNBT 1416 Construction Technology I (BLDG 1601)	4
CNBT 1450 Construction Technology II (BLDG 1602)	4
IEIR 1491 Special Topics: National Electric Code (ELEC 2410)	4
PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4
Total Semester Hours	23
<u> Level I – Basic Cabinetmaker Technician</u>	
	Semester Hrs
CBFM 1424 Interior Maintenance (MAIN 2404)	4
CNBT 1416 Construction Technology I (BLDG 1601)	
COSC 1301 Introduction to Computer Systems	
PSYC 2302 Applied Psychology	
WDWK 1413 Cabinet Making (BLDG 2603)	4
Total Semester Hours	18
<u> Level I – Basic HVAC Technician</u>	
	Semester Hrs
COSC 1301 Introduction to Computer Systems	3
HART 1403 A/C Control Principles (HVAC 1400)	4
HART 1407 Refrigeration Principles (HVAC 1401)	4
HART 1445 Gas and Electrical Heating (HVAC 1404)	4
HART 1492 Special Topics: Mechanical Code (HVAC 2405)	4
PSYC 2302 Applied Psychology	3

# <u>Level I - Sheet Metal Technician</u>

		Semester Hrs
	COSC 1301 Introduction to Computer Systems	
	HART 1407 Refrigeration Principles (HVAC 1401)	4
	HART 2445 Air Conditioning Systems Design (HVAC 2302)	
	MCHN 1401 Sheet Metal I (HVAC 1405)	
	PSYC 2302 Applied Psychology	3
Γota	al Semester Hours	18
	Level I - Commercial Refrigeration Maintenance Tecl	nioian
	Level 1 - Commercial Reingeration Maintenance Tech	<u>imician</u>
	•	Semester Hrs
	CBFM 1424 Interior Maintenance (MAIN 2404)	4
	COSC 1301 Introduction to Computer Systems	
	HART 1403 A/C Control Principles (HVAC 1400)	
	HART 1407 Refrigeration Principles (HVAC 1401)	
	HART 1442 Commercial Refrigeration (HVAC 1403)	
	HART 1445 Gas and Electric Heating (HVAC 1404)	4
	HART 1449 Heat Pumps (HVAC 1404)	4
	HART 2436 Troubleshooting (HVAC 2404)	4
	IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	
	PSCY 2302 Applied Psychology	3
Tota	al Semester Hours	38
	<u> Level I – Basic Plumbing Technician</u>	
	•	Semester Hrs
	CBFM 1424 Interior Maintenance (MAIN 2404)	
	CNBT 1416 Construction Technology I	
	COSC 1301 Introduction to Computer Systems	
	PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	4
	PSYC 2302 Applied Psychology	
Γota	al Semester Hours	18
	Level II – Construction Estimator	
٠	ECYCLII OONSHAOHOI ESIMAIOI	
	CBFM 1424 Interior Maintenance (MAIN 2404)	Semester Hrs
	CNBT 1342 Building Codes & Inspection	
	CNBT 1342 Building Codes & Inspection  CNBT 1416 Construction Technology I (BLDG 1601)	
	CNBT 1450 Construction Technology II (BLDG 1602)	
	COSC 1301 Introduction to Computer Systems	
	HART 2445 A/C Design (HVAC 2302) IEIR 1491 Special Topics: National Electric Code (ELEC 2410)	4 A
	MATH 1332 Structures of College Math I PFPB 1413 Introduction to the Plumbing Trade (MAIN 1402)	
	PSYC 2302 Applied PsychologyWDWK 1413 Cabinet Making (BLDG 2603)	4
	• • • • • • • • • • • • • • • • • • • •	
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Γota	ai Semester Hours	43

## Level II - Intermediate HVAC Technician

	Semester Hrs
COSC 1301 Introduction to Computer Systems	3
HART 1391 Special Topics: Business Operations (HVAC 2305)	
HART 1403 A/C Control Principles (HVAC 1400)	
HART 1407 Refrigeration Principles (HVAC 1401)	4
HART 1442 Commercial Refrigeration (HVAC 1403)	4
HART 1445 Gas and Electrical Heating (HVAC 1404)	4
HART 1451 Energy Management (HVAC 2409)	4
HART 1492 Special Topics: Mechanical Code (HVAC 2405)	4
HART 2445 Air Conditioning Systems Design (HVAC 2302 )	4
IEIR 1491 Special Topics: National Electrical Code (ELEC 2410)	4
PSYC 2302 Applied Psychology	
F3 TO 2302 Applied Esychology	
Total Semester Hours	44
Level III – HVAC Shop Manager	
May only be awarded along with or following completion of associate or higher	er-level degree.
	Semester Hrs
BMGT 1301 Supervision (MGMT 1301)	3
BMGT 1303 Principles of Management (MGMT 1302)	
HRPO 1311 Human Relations (MGMT 2304)	
HRPO 2301 Human Resources Management	3
Building and Property Management Courses	
CNBT 1342 Building Codes and Inspections (15.1001) (3-0)	2 hours
An examination of the building codes and standards applicable to building construct processes. (SCANS 1, 3, 5, 8, 9, 10) Prerequisite: None.	
CNBT 1416 Construction Technology I [formerly BLDG 1601] (15.1001) (3-3)	4 hours
A comprehensive course in site preparation, foundation, form work and framing. To tools and equipment; basic site preparation; basic foundations and form work; and t framing methods and systems. Lab fee required. (SCANS 1, 3, 4, 8, 9) Prerequis	pics include safety; basic floor, wall and
CNBT 1446 Construction Estimating I [formerly BLDG 2601] (15.1001)	
(3-3)Fundamentals of estimating materials and labor costs in construction. Lab fee requ	
3, 5, 6) Prerequisite: CNBT 1453 and CNBT 2439.	лгеа. (SCANS 1, 2,
CNBT 1450 Construction Technology II [formerly BLDG 1602] (15.1001) (3-3)	4 hours
An intermediate course in site preparation, foundation, form work and framing in r	
construction. Topics include safety; tools and equipment; site preparation and foundations and related form work; and floor, wall, ceiling and roof framing method fee required. (SCANS 1, 3, 5, 8, 9, 11) Prerequisite: None. Corequisite: CNBT 14	d layout; concrete; s and systems. Lab

,	(3-3)
•	An intermediate course in foundation and form work, exterior trim and finish, and interior finish
	residential and commercial construction. Topics include safety; tools and equipment; concre
	joundations and related form work; exterior building finish; and interior floors, walls and ceiling finish
I	Lab fee required. (SCANS 1, 3, 4, 6, 8) Prerequisite: CNBT 1416. Corequisite: CNBT 2439.
	2380 Cooperative Education - Construction/Building Technology/Technician [formerly BLD
2377]	(15.1001)
	(1-20)
( ;	Career related activities encountered in the student's area of specialization are offered through cooperative agreement between the college, employer and student. Under supervision of the colle and the employer, the student combines classroom learning with work experience. Directly related 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. (SCANS 5, 7, 9, 10, 11) Prerequisi
(	Consent of the department chair.
CNBT	2439 Construction Technology IV [formerly BLDG 1604] (15.1001)
	(3-3)
1	An advanced course in site preparation, framing and interior finish for residential, light and commerce construction. Topics include safety, tools and equipment; finish site work and equipment; alternate raming systems and methods; interior doors and windows, walls and floors. Lab fee required. (SCAN) 3, 5, 8, 10) Prerequisite: CNBT 1450 or consent of department chair.
	K 1413 Cabinet Making [formerly BLDG 2603] (48.0703)
	(3-3)
	Emphasis on the safe use of portable and stationary power tools. Finishing techniques include prop
	conding sealing staining and finishing techniques. Lab fee required (SCANS 1.2.4.8)
:	sanding, sealing, staining and finishing techniques. Lab fee required. (SCANS 1, 2, 4, 8, Prerequisite: None.  Heating, Ventilation, Air Conditioning Technology Courses
HART	sanding, sealing, staining and finishing techniques. Lab fee required. (SCANS 1, 2, 4, 8, Prerequisite: None.  Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician
HART Busin	sanding, sealing, staining and finishing techniques. Lab fee required. (SCANS 1, 2, 4, 8, Prerequisite: None.  Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician less Operations [formerly HVAC 2305] (15.0501)
HART Busin	sanding, sealing, staining and finishing techniques. Lab fee required. (SCANS 1, 2, 4, 8, Prerequisite: None.  Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician less Operations [formerly HVAC 2305] (15.0501)  [3-0]
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician less Operations [formerly HVAC 2305] (15.0501)  3-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  13-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  [3-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  13-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ess Operations [formerly HVAC 2305] (15.0501)  3-0)
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HART Busin (	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  13-0)
HART (	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  13-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician (1998)
HART (	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician ress Operations [formerly HVAC 2305] (15.0501)  3-0)
HART Busin	Heating, Ventilation, Air Conditioning Technology Courses  1391 Special Topics in Heating, Air Conditioning and Refrigeration Technologies/Technician less Operations [formerly HVAC 2305] (15.0501)  3-0)

HART 1445 Gas and Electric Heating [formerly (3-3)	4 hours
A study of the procedures and principles us electric furnaces. Lab fee required. (SCANS	ed in servicing heating systems including gas fired and
IART 1449 Heat Pumps [formerly HVAC 1404] (	(15.0501)4 hours
A study of heat pumps, heat pump control ci	ircuits, defrost controls, auxiliary heat, air flow and other e required. (SCANS 5, 8, 9) Prerequisite: None.
IART 1451 Energy Management [formerly HVA	C 2409] (15.0503)4 hours
Basic heat transfer theory; sensible and late lighting and fenestration types; and conduct energy audit recommendations based on loc	nt heat loads; building envelope construction; insulation, ting energy audit procedures. The course also develops cal utility rates, building use and construction. Laboratory eports, installing energy saving devices and measuring
IART 1492 Special Topics in Energy Manageme Code [formerly HVAC 2405] (15.0503)	ent and Systems Technology/Technician: Mechanical
Topics address recently identified current e pertinent to the technology or occupation and	vents, skills, knowledge and/or attitudes and behaviors direlevant to the professional development of the student erience. Lab fee required. (SCANS 1, 2, 7, 8) Prerequisite:
IART 2380 Cooperative Education - Heating echnician [formerly HVAC 2377] (15.0501)	, Air Conditioning and Refrigeration Technologies/
Career related activities encountered in the cooperative agreement between the college, and the employer, the student combines clas a technical discipline, specific learning object	a student's area of specialization are offered through a perployer and student. Under supervision of the college seroom learning with work experience. Directly related to tives guide the student through the paid work experience. rning outcomes vary. (SCANS 5, 7, 9, 10, 11) Prerequisite:
HART 2436 Troubleshooting [formerly HVAC 24	• • •
An advanced course in application of troubles air conditioning and refrigeration components	4 hours shooting principles and use of test instruments to diagnose s and system problems including conducting performance Prerequisite: HART 1403 and HART 1407.
HART 2445 Air Conditioning Systems Design (	
A study of the properties of air and results of	4 hours cooling, heating humidifying or dehumidifying; heat gain ent selection and balancing the air system. (SCANS 1, 3,
Maintenance	Technology Courses
CBFM 1424 Interior Maintenance [formerly MAII	
(3-3)	

### CBFM 2381 Cooperative Education - Building/Property Maintenance and Manager [formerly MAIN 2377] (46.0401) Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of department chair. PFPB 1317 Lawn Irrigation Systems [formerly MAIN 1391] (46.0501) In-depth instruction in the design and layout installation of residential lawn irrigation systems. The student will design a lawn irrigation system; write a material take-off sheet; install a lawn irrigation system; and identify and correct problem systems. Lab fee required. (SCANS 1, 3, 6, 8, 9) Prerequisite: PFPB 1413 Introduction to the Plumbing Trade [formerly MAIN 1402] (46.0502) An introduction to the plumbing craft including mathematical operations applicable to the plumbing trade, hand tools, power tools, safety practices, and material identification. Presents theory and application of basic plumbing technology. Involves practical instruction in both new construction and repair work. Students learn blueprint interpretation, basic calculations, and customer relations. Lab fee required. (SCANS 1,3,5,8) Prerequisite: None.

# Management/Tech Prep

Faculty: J.D. Roberts, chair; Sue Jones, 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 three certificates of technology including general management, small business and industrial supervision.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

# Course of Study for Associate in Applied Science Degree Management

Seme	ster Hrs
General Education Requirements	23
ACCT 1370 Introduction to College Accounting	3
*COSC 1301 Introduction to Computer Systems or	
ITSC 1401 Introduction to Computers (BCIS 1401)	
ECON 2301 Principles of Economics I (Macro) or ECON 2302 Principles of Economics II (Macro)	/licro)3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government	
MATH 1324 Mathematical Analysis for Business I or any other college-level mathematics	3
PHED (any two one-hour activity courses)	
SPCH 1321 Business & Professional Speech	3

lajor Requirements	27
BMGT 1301 Supervision (MGMT 1301)	3
BMGT 1303 Principles of Management (MGMT 1302)	
BMGT 1305 Communications in Management	
BMGT 2303 Problem Solving and Decision Making	
BMGT 2309 Leadership (MGMT 2302)	
BMGT 2311 Management of Change	
BMGT 2382 Cooperative Education – Business Administration and Management,	
General (MGMT 2377)	3
HRPO 1311 Human Relations (MGMT 2304)	
MRKG 1311 Principles of Marketing (MGMT 1321)	
**Approved management electives	
otal Semester Hours	65
ndicates courses which may be articulated by tech-prep agreement with high school.  See department chair for list of approved electives.  Certificates of Technology – Management  Level I certificates are TASP-waived.	
Level I – General Management Option	
Level 1 denoted management option	Semester Hrs
BMGT 1301 Supervision (MGMT 1301)	
BMGT 1303 Principles of Management (MGMT 1302)	
BMGT 1305 Communication in Management	
BMGT 2303 Problem Solving and Decision Making	
BMGT 2382 Cooperative Education – Business Administration and Management,	
General (MGMT 2377)	3
	9
*COSC 1301 Introduction to Computer Systems or ITSC 1401 Introduction to Computers (BCIS 1401)	
ITSC 1401 Introduction to Computers (BCIS 1401)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	3 3
ITSC 1401 Introduction to Computers (BCIS 1401)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	3
ITSC 1401 Introduction to Computers (BCIS 1401)	
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) ***Approved management elective  stal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting	
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  ptal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301)	
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) ***Approved management elective  ***Detail Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management	
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  total Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management,	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  **Dital Semester Hours  Level I – Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education – Business Administration and Management, General (MGMT 2377)	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  btal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management, General (MGMT 2377)  BUSG 1315 Small Business Operations (MGMT 2332)	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) ***Approved management elective  ***Detail Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management, General (MGMT 2377) BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331)	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  Level I – Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education – Business Administration and Management, General (MGMT 2377) BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331) *COSC 1301 Introduction to Computer Systems_or	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) ***Approved management elective  Level I – Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education – Business Administration and Management, General (MGMT 2377) BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331) *COSC 1301 Introduction to Computer Systems_or ITSC 1401 Intro to Computers (BCIS 1401)	Semester Hrs
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304)  **Approved management elective  btal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management, General (MGMT 2377)  BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331)  *COSC 1301 Introduction to Computer Systems or ITSC 1401 Intro to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304)	Semester Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) **Approved management elective  otal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management, General (MGMT 2377) BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331) *COSC 1301 Introduction to Computer Systems or ITSC 1401 Intro to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304) MRKG 1311 Principles of Marketing (MGMT 1321)	Semester Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
ITSC 1401 Introduction to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304)  **Approved management elective  otal Semester Hours  Level I - Small Business Option  ACCT 1370 Introduction to College Accounting BMGT 1301 Supervision (MGMT 1301) BMGT 1305 Communications in Management BMGT 2382 Cooperative Education - Business Administration and Management, General (MGMT 2377)  BUSG 1315 Small Business Operations (MGMT 2332) BUSG 2309 Small Business Management (MGMT 2331)  *COSC 1301 Introduction to Computer Systems or ITSC 1401 Intro to Computers (BCIS 1401) HRPO 1311 Human Relations (MGMT 2304)	Semester Hrs 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

Level I - Industrial Supervision Option	
Semes	ster Hours
BMGT 1301 Supervision (MGMT 1301)	
BMGT 1303 Principles of Management (MGMT 1302)	
BMGT 1305 Communications in ManagementBMGT 1331 Production and Operation Management (MGMT 1361)	3
BMGT 2303 Problem Solving and Decision Making	
BMGT 2382 Cooperative Education – Business Administration and Management,	J
General (MGMT 2377)	3
*COSC 1301 Introduction to Computer Systems or ITSC 1401 Intro to Computers (BCIS HRPO 1311 Human Relations (MGMT 2304)	1401) 3
OSHT 1313 Accident Prevention, Inspection and Investigation (OSHA 1305)*  **Approved management elective	
Total semester hours	30
*Indicates courses which may be articulated by tech-prep agreement with high school.  **See department chair for list of approved electives.	
Level III - Management Advanced Skills Certificate	
	nester Hrs
ENGL 2311 Technical and Report Writing	
ITSC 1305 Introduction to PC Operating Systems (BCIS 1302)	
**Approved management elective (advanced)	3
Total Semester Hours	9
**See department chair for list of approved electives.	
Management Courses	
BMGT 1191, 1292 or 1391 Special Topics in Business Administration, General (52.0201)	O b
(1-0, 2-0 or 3-0)	behaviors ne student.
BMGT 1301 Supervision [formerly MGMT 1301] (52.0201)	
(3-0)	counseling, s and skills zing at the upervision; rvisor; and
BMGT 1302 Principles of Retailing [formerly MGMT 1331] (08.0705)	2 hours
(3-0)	trends and factors that traditional/ ess; and list etition, the

BMGT 1303 Principles of Management [formerly MGMT 1302] (52.0201)	-
(3-0)	ce of uding ation roles
BMGT 1305 Communications in Management (52.0201)	
(3-0)	tion's s and ation
BMGT 1307 High Performance Work Teams (52.0201)	
(3-0)	and sonal tools
BMGT 1313 Principles of Purchasing (52.0202) (3-0)	noure
The purchasing process as it relates to such topics as inventory control, price determination, verselection, negotiation techniques and ethical issues. The student will describe the purchasing fund as it relates to other departments within the company; identify the basic concepts used in purchasions; and explain the relationships of materials management and inventory control to purchasing process. Lab fee required. (SCANS 4, 5, 9, 10, 11) Prerequisite: None.	endor action asing
BMGT 1319 Introduction to Business Logistics [formerly MGMT 2365] (52.0203)	
(3-0)	ment at will s and ision-
BMGT 1331 Production and Operations Management [formerly MGMT 1361] (52.0205) (3-0)	Ontre
Fundamentals of the various techniques used in the practice of production management to inclocation, design and resource allocation. The student will identify important factors of plant location design, resource allocation, and equipment selection and utilization; and demonstrate the ability to planning, scheduling, inventory management and quality control techniques. Lab fee requisites (SCANS 4, 5, 6, 7, 9) Prerequisites: None.	clude n and o use
BMGT 2303 Problem Solving and Decision Making (52.0201)	
(3-0)	blem group entify using

#### BMGT 2309 Leadership [formerly MGMT 2302] (52.0201) Concepts of leadership and its relationship to management. Prepares the student with leadership and communication skills needed to inspire and influence. The student will determine individual leadership styles as related to self and others; distinguish differences between leadership and management; explain the effects of leadership style on organizational environment and its result on followers' motivation; and apply principles of leadership to organizational group dynamics. Lab fee required. (SCANS 5, 6, 7, 9, 11) Prerequisite: None. BMGT 2311 Management of Change (52.0201) Knowledge, skills and tools that enable a leader/organization to facilitate change in a pro-active participative style. The student will explain the roles of change agent and champion in the process of change within the organization; show the progression of change from introduction to completion, examining barriers to successful implementation; and demonstrate ability to analyze internal and external environments as well as stakeholder issues in showing need for change. Lab fee required. (SCANS 5, 6, 7, 9, 11) Prerequisite: None. BMGT 2331 Total Quality Management (52.0201) Quality of productivity in organizations. Includes planning for quality throughout the organization, analysis of costs of quality, and employee empowerment. The student will define the role of quality in production and service systems; explain concepts related to quality costs; list and define the quality improvement process using analysis; and participate in problem solving experiences through creative team development. Lab fee required. (SCANS 5, 6, 7, 9) Prerequisite: None. BMGT 2341 Strategic Management (52.0201) Strategic management process involving analysis of how organizations develop and implement a strategy for achieving organizational objectives in a changing environment. The student will explain the processes involved in management strategy development and develop a strategic management plan for an organization. Lab fee required. (SCANS 4, 6, 7, 9) Prerequisite: Six hours of business management courses or consent of department chair. BMGT 2382 Cooperative Education - Business Administration and Management, General [formerly MGMT 2377] (52.0201) Career related activities encountered in the student's area of specialization are offered through a 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, 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; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of department chair. BUSG 1315 Small Business Operations [formerly MGMT 2332] (52.0701) A course in the unique aspects of managing a small business. Topics address management functions including how managers plan, exercise leadership, organize and control the operations. The student will discuss the unique aspects of managing a small business; explain the importance of developing employees to enhance business profits; describe the employment process; explain the elements of total quality management programs; compare purchasing procedures and inventory control in two small businesses; and compare computerized operations of two small businesses. Lab fee required.

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

#### BUSG 1393 Special Topics in Finance, General (52.0801) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course places emphasis on eight key elements of financial planning; obtaining, planning, saving, borrowing, spending, managing risk, investing, and retirement and estate planning. Lab fee required. (SCANS 4, 6, 8, 9) Prerequisite: None. **BUSG 2307 Legal and Social Environment of Business** (52.0101) The role of law in business and society including government regulations of business, legal reasoning, sources of law, social policy, legal institutions, antitrust, security regulations, consumer protection, environmental laws, worker health and safety, employment discrimination, and other laws affecting business. Lab fee required. (SCANS 5, 6, 7, 9) Prerequisite: None. BUSG 2309 Small Business Management [formerly MGMT 2331] (52.0701) A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies and legal issues. The student will describe important issues about small business; identify essential management skills required of a successful entrepreneur; and prepare a business plan. Lab fee required. (SCANS 6, 7, 9, 10) Prerequisite: None. HRPO 1191 Special Topics in Human Resources Management (52.1001) (1-0) \_\_\_\_\_\_\_1 hour Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. (SCANS 2, 5, 6, 11) Prerequisite: None. HRPO 1311 Human Relations [formerly MGMT 2304] (52.1003) Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment. The student will evaluate human relations including diversity, attitudes, self-esteem and interpersonal skills to promote career success; identify and evaluate the causes and effects of stress in the workplace; develop individual and group communication, listening and decision making skills; and analyze how theories of motivation and human behavior impact strategies of change management. Lab fee required. (SCANS 5, 7, 9, 10, 11) Prerequisite: None. HRPO 2301 Human Resources Management (52.1001) Behavioral and legal approach to the management of human resources in organizations. The student will describe and explain the development of human resources management; evaluate current methods of job analysis, recruitment, selection, training/development, performance appraisal, promotion, and separation; discuss management's ethical, socially responsible, and legally required actions; assess methods of compensation and benefits planning; and examine the role of strategic human resource planning in support of organizational mission and objectives. Lab fee required. (SCANS 4, 5, 6, 7, 11) Prerequisite: None. HRPO 2307 Organizational Behavior (52.1003) The analysis and application of organizational theory, group dynamics, motivation theory, leadership concepts and the integration of interdisciplinary concepts from the behavioral sciences. The student will explain organizational theory as it relates to management practices, employee relations, and structure of the organization to fit its environment and operation; analyze leadership styles and determine their effectiveness in employee situations; discuss experience in managing and resolving organizational problems; describe the impact of corporate culture and atmosphere on employee behavior; and analyze and discuss team dynamics, team building strategies and cultural diversity. Lab

fee required. (SCANS 5, 6, 7, 9, 11) Prerequisite: None.

#### MRKG 1311 Principles of Marketing [formerly MGMT 1321] (52.1401)

### **Mass Communication**

Faculty: Steve Goff, chair.

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

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

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

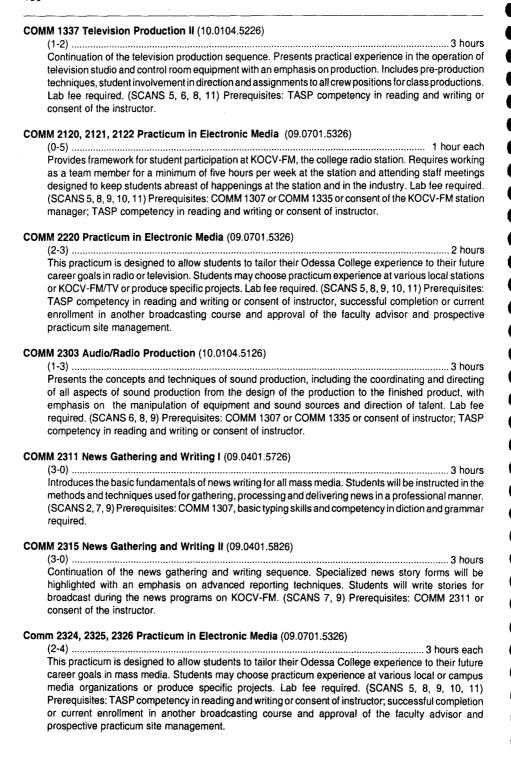
# Course of Study for Associate in Arts Degree Broadcasting

	Semester Hrs
General Education Requirements	49
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign Language or Science (eight hours in same discipline)	
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	
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 Speech	3
Major Requirements	6
COMM 1307 Introduction to Mass Communications	
COMM 1335 Survey of Radio and Television	3

AND and the form of the And form the following accuracy	0
AND any nine hours selected from the following courses	ح
COMM 1318 Basic Photography I	
COMM 1336 Television Production I	
COMM 1337 Television Production II	
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	3
COMM 2315 News Gathering and Writing II	3
COMM 2324 Practicum in Electronic Media	
COMM 2325 Practicum in Electronic Media	3
COMM 2326 Practicum in Electronic Media	3
COMM 2331 Announcing for Radio and Television	3
•	
Total Semester Hours	64
Course of Study for Associate in Arts Degree	2
Mass Communication	-
mass Communication	
	Semester Hrs
General Education Requirements	49
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)	8
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	
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 Speech	
<u>-</u>	
Major Requirements	3
COMM 1307 Introduction to Mass Communications	
AND any 12 hours selected from the following courses	12
COMM 1131 Publications	
COMM 1132 Publications	
COMM 1316 News Photography	
COMM 1318 Basic Photography I	
COMM 1319 Basic Photography II	3
COMM 1335 Survey of Radio and Television	3
COMM 1336 Television Production I	
COMM 2131 Publications	-
COMM 2131 Publications	
COMM 2303 Audio and Radio Production	1
COMM 2311 News Gathering and Writing I	
COMM 2315 News Gathering and Writing II	
COMM 2325 Practicum in Electronic Media	3
COMM 2326 Practicum in Electronic Media	3
Tatal Camanian Harris	
Total Semester Hours	64

#### **Mass Communication Courses**

COM	M 1131, 1132, 2131, 2132 Publications (09.0401.5426) (0-5)
	Gives students the opportunity to tailor their Odessa College experience to further their career goa in mass communication. Students will work on the staff of at least one of the official college publication for up to five hours a week under faculty supervision. (SCANS 5, 6, 7, 9) Prerequisites: TAS competency in reading and writing; COMM 1307 or equivalent experience or consent of the instructors.
СОМ	M 1307 Introduction to Mass Communications (09.0403.5126)
	(3-0)
	M 1316 News Photography (09.0401.5526) C 1351 Photojournalism I (50.0406) (2-4)
	Presentation of photographic techniques used by photojournalists in newspapers, magazines, at trade publications including news, feature, sports, editorial portraits, and photo essays. Includes study of layout design and the freelance market. Lab fee required. (SCANS 2, 5, 6, 8, 9) Prerequisite COMM 1318 or ARTS 2356.
	M 1318 Basic Photography I (50.0605.5130) S 2356 Photography I (50.0605.5130)
Anı	(2-4)
	Introduction to the basics of photography. Includes camera operation, techniques, knowledge chemistry, and presentation skills. Emphasis on design, history, and contemporary trends as a mear of developing an understanding of photographic aesthetics. The student will assess and selection equipment, supplies and techniques to incorporate basic theories of film, exposure, development filters and printing. Students will use efficient learning techniques to acquire and apply creative knowledge and to communicate with others. Lab fee required. (SCANS 4, 8, 9, 11) Prerequisite: Non-
	M 1319 Basic Photography II (50.0605.5230) S 2357 Photography II (50.0605.5230)
	(2-4)
COM	M 1335 Survey of Radio and Television (09.0403.5226) (3-0)
	(3-0)
COM	IM 1336 Television Production I (10.0104.5226)
	(1-2)
	Presents practical experience in the operation of television studio and control room equipment, we an emphasis on production. Includes pre-production techniques, student involvement in direction as



COMM 2331 Announcing for Radio and Television (23.1001.6126)	
(1-2)	3 hours
Helps prepare the student for a career in voice talent for radio and televi	sion. Includes proper
pronunciation, articulation, interviewing, reading of news and commercial copy	
and sports. Lab fee required. (SCANS 1, 6, 9, 11) Prerequisites: COMM 13	07 or COMM 1335 or

consent of instructor; TASP competency in reading and writing or consent of instructor.

### **Mathematics**

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

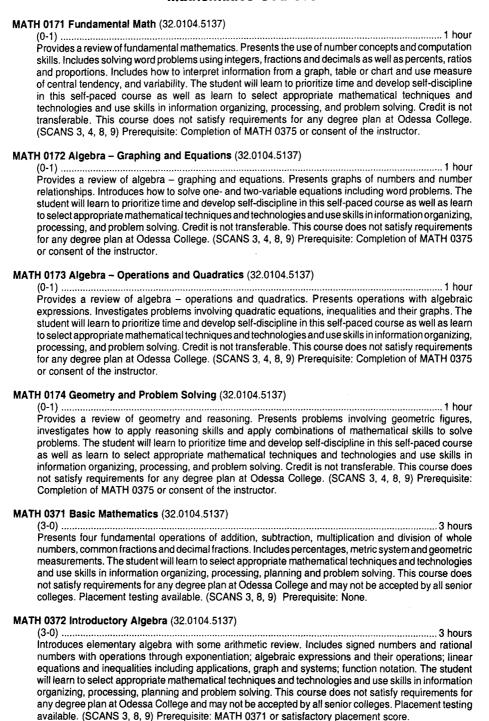
The mathematics department is guided by the following objectives: (1) pre-professional training for mathematicians and teachers of mathematics; (2) preparation of students for further study of science, engineering, industry and business; (3) adequate mathematical training for students in occupational-technical 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

mattematios	
	Semester Hrs
General Education Requirements	41
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (sophomore level)	6
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History from 1877	3
Lab Science	12
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking	3
Major Requirements	19
*MATH 1348 Analytic Geometry	
MATH 1946 Arialytic Geometry	
MATH 2314 Calculus II	
MATH 2315 Calculus III	
MATH 2318 Linear Algebra	
MATH 2320 Differential Equations	
Related Requirements	4
COSC 1415 Introduction to Computer Science	
Total Semester Hours	63

\*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, MATH 0375, MATH 1314 or MATH 1332.

#### **Mathematics Courses**



#### MATH 0375 Intermediate Algebra (32.0104.5237) A study of real number operations, linear and quadratic inequalities, exponents and radicals, polynomial and rational expressions, polynomial, rational and radical equations, and their graphs. 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 exponential and logrithmic 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. MATH 1332 Structures of College Mathematics I (27.0101.5137) Topics covered will include sets, logic, number systems, relations and applications, concepts of mathematics and problem solving. The student will learn to select appropriate mathematical techniques and technologies and use these skills in problem solving. Students will develop and/or discover mathematical relationships. This course is designed primarily for liberal arts and education majors. (SCANS 3, 8, 9, 11) Prerequisite: MATH 0375 or high school algebra II or passing score on TASP math

2313.

#### MATH 1333 Structures of College Mathematics II (27.0101.5137) Topics covered will include algebra, geometry, measurement, and an introduction to probability and statistics. The student will learn to select appropriate mathematical techniques and technologies and use these skills in problem solving. The students will develop and/or discover mathematical relationships.This course is designed primarily for liberal arts and education majors. (SCANS 3, 8, 9, 11) Prerequisites: MATH 1332 or MATH 0375 or satisfactory placement score. MATH 1342 Mathematical Statistics (27.0501.5137) Introduces elements of statistics. Includes frequency distributions, measures of central tendency, elementary probability, binomial distribution, measures of variation, normal distributions, random sampling, tests of significance, t-test and chi-square test. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. Recommended for students in education, social science and physical science as well as mathematics. (SCANS 3, 6, 8, 9) Prerequisite: MATH 0375 passed with a "C" or better or satisfactory placement score. MATH 1348 Analytic Geometry (27.0101.5537) Presents fundamental concepts, straight line, circle, conics, simplification of equations, algebraic curves, transcendental curves, polar coordinates, parametric equations and other concepts. 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 1316 or equivalent, or completed independent school district/OC concurrent enrollment form. MATH 1442 Business Statistics (27.0501.5137) (3-3) \_\_\_\_\_\_\_4 hours Provides an introduction to techniques of collection, presentation analysis and interpretation of numerical data. Stresses application of correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models and programming. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. (SCANS 3, 6, 8, 9) Prerequisite: MATH 1324. MATH 2313 Calculus I (27.0101.5937) Presents a study of rate of change of functions, limits, derivatives of algebraic and trigonometric functions, integration and applications. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3, 8, 9, 11) Prerequisite or corequisite: MATH 1348. MATH 2314 Calculus II (27.0101.5937) Extends topics of MATH 2313 to include differentiation and integration of a wider class of functions, to include transcendental functions. Also includes application of these processes to solutions of a wider range of problems including moments of mass sequences, and infinite 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. (SCANS 3, 8, 9, 11) Prerequisite: MATH

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#### MATH 2318 Linear Algebra (27.0101.6137)

#### MATH 2320 Differential Equations (27.0301.5137)

A study of equations of order one, linear differential equations, non-homogeneous equations, differential operators, the Laplace transform, inverse transforms, applications, equations of order one and higher degree. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning and problem solving. The student should be able to probe for mathematical meaning and, perhaps, describe these meanings to others. (SCANS 3, 8, 9, 11) Prerequisite: MATH 2314.

#### Medical Lab Technology (see Clinical Laboratory Sciences)

### **Metal Trades Technologies**

Faculty: Galen Ballard, chair; James Mosman.

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

The associate in applied science degree in industrial machinist technology option is designed to provide students a broad background of basic knowledge in the field of mechanical design and production. Skills are developed in the operation of machine tools, mathematics, communications, layout and blueprint reading so as to provide students with sufficient knowledge for entry employment in the trade.

The associate in applied science degree in industrial welding technology option provides the student with sufficient skills 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, 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

# Course of Study for Associate in Applied Science Degree Industrial Machinist Technology

ral Education Requirements	
	17
COSC 1301 Introduction to Computer Systems	
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Go	overnment3
MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics	s l <u>or</u>
higher level math	3
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
	40
nical Core	19
DFTG 1405 Technical Drafting I (DRAF 1401) or	
DFTG 1409 Basic Computer-Aided Drafting (DRAF 2408)	
MCHN 1438 Basic Machine Shop I (MACH 1401)	4
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	4
PTRT 1301 Overview of Petroleum Industry (PETR 1300)	3
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
Requirements	30
MCHN 1405 Metals and Heat Treatment (MACH 2403)	الا
MICHN 1405 Metals and fleat freatment (MACH 2405)	
MCHN 1413 Basic Milling Operations (MACH 1403)	
MCHN 1441 Basic Machine Shop II (MACH 1402)	4
MCHN 2381 Cooperative Education - Machinist/Machine Technologist (MACH	2377) 3
MCHN 2433 Advanced Lathe Operations (MACH 2401) or	
MCHN 1416 Machine Tool Repair	4
MCHN 2437 Advanced Milling Operations (MACH 2402) or	
MCHN 1416 Machine Tool Repair	
HBTC 2335 NC/CNC Programming (MACH 2405)	
RBTC 2335 NC/CNC Programming (MACH 2405)	
RBTC 2335 NC/CNC Programming (MACH 2405)	
RBTC 2447 Computer Integrated Manufacturing (MACH 2404)	4
	4
RBTC 2447 Computer Integrated Manufacturing (MACH 2404)	66 e Degree
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements	66  e Degree  Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements	66  e Degree  Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements  COSC 1301 Introduction to Computer Systems	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 Gove	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics higher level math	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics higher level math PHED (any two one-hour activity courses)	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics higher level math	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 MATH 1314 College Algebra or MATH 1332 Structures of College Mathematics higher level math PHED (any two one-hour activity courses)	Semester Hrs
RBTC 2447 Computer Integrated Manufacturing (MACH 2404)  Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric of ENGL 1312 Report Writing  GOVT 2301 U.S. and Texas Government of GOVT 2302 American National Go MATH 1314 College Algebra of MATH 1332 Structures of College Mathematics higher level math  PHED (any two one-hour activity courses)  SPCH 1315 Public Speaking of SPCH 1321 Business and Professional Speech	Semester Hrs 3 3 3 3 1 or 3 4 3 3 4 5 5 1 or 3 4 5 5 1 or 3 5 1 or
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral 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 GoMATH 1314 College Algebra or MATH 1332 Structures of College Mathematics higher level math  PHED (any two one-hour activity courses)  SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	Semester Hrs
Semester Hours  Course of Study for Associate in Applied Science Industrial Welding Technology  ral Education Requirements  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric of ENGL 1312 Report Writing  GOVT 2301 U.S. and Texas Government of GOVT 2302 American National Go MATH 1314 College Algebra of MATH 1332 Structures of College Mathematics higher level math  PHED (any two one-hour activity courses)  SPCH 1315 Public Speaking of SPCH 1321 Business and Professional Speech	Semester Hrs

Major Requirements	raduction to Con Motel Are (MIC) Wolding (MICI D 000)	3!
WLDG 1430 Intri	roduction to Gas Metal Arc (MIG) Welding (WELD 2402)	***************************************
WLDG 1434 INIII	roduction to Gas Tungsten Arc (TIG) Welding (WELD 2404)roduction to Pipe Welding (WELD 1402)	•••••••
WLDG 1433 IIIII	roduction to Pipe Weiding (WELD 1402)	***************************************
WLDG 1407 Inco	operative Education – Welder/Welding Technologist (WELD 2377).	***************************************
WLDG 2406 Inte	ermediate Pipe Welding	***************************************
WLDG 2413 Wel	Iding Using Multiple Processes	
	vanced Blueprint Interpretation and Cost Analysis	
	vanced Gas Tungsten Arc (TIG) Welding	
Total Semester Hours	rs	67
Certificat	tes of Technology in Metal Trades Technol	ogies
	logies are available in the following job-specific fields. See the depa and Permian Basin job opportunities.	artment chair fo
oodise requirements a	and i entitled basin job opportunities.	
	Level I certificates are TASP-waived.	
<u>Leve</u>	el I – Computerized Numerical Control Programmer	
		Semester Hr
	oduction to Computer Systems	3
	hnical Drafting (DRAF 1401) or	,
MCHN 1409 B	Basic Computer-Aided Drafting (DRAF 2408)sic Machine Shop I (MACH 1401)	4
	CNC Programming (MACH 2405)	
	nputer Integrated Manufacturing (MACH 2404)	
Total Semester Hours	's	18
	Level I - Milling Machine Operator	
	•	Semester Hr
MCHN 1413 Bas	sic Milling Operations (MACH 1403)	
	sic Machine Shop I (MACH 1401	
	sic Machine Shop II (MACH 1402)	
	vanced Milling Operations (MACH 2402) or	
MCHN 1416 P	Machine Tool Repair	4
Total Semester Hours	·s	16
	Level I – Engine Lathe Operator	
	•	Semester Hr
	oduction to Computer Systems	
MCHN 1438 Bas	sic Machine Shop I (MACH 1401)	4
MCHN 1438 Bas MCHN 1441 Bas	sic Machine Shop I (MACH 1401)sic Machine Shop II (MACH 1402)	4
MCHN 1438 Bas MCHN 1441 Bas MCHN 2433 Adv	sic Machine Shop I (MACH 1401)sic Machine Shop II (MACH 1402)vanced Lathe Operations (MACH 2401) <u>or</u>	4 4
MCHN 1438 Bas MCHN 1441 Bas MCHN 2433 Adv MCHN 1416 I	sic Machine Shop I (MACH 1401)sic Machine Shop II (MACH 1402)vanced Lathe Operations (MACH 2401) <u>or</u> Machine Tool Repair	4 4
MCHN 1438 Bas MCHN 1441 Bas MCHN 2433 Adv MCHN 1416 I	sic Machine Shop I (MACH 1401)sic Machine Shop II (MACH 1402)vanced Lathe Operations (MACH 2401) <u>or</u>	

Level I – General Welder	Semester Hrs
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)	4
WLDG 1434 Introduction to Gas Tungsten (TIG) Welding (WELD 2404)	4
WLDG 2413 Welding Using Multiple Processes	4
Total Semester Hours	20
<u>Level I – Fitter Welder</u>	Composion Una
WLDG 1413 Introduction to Blueprint Reading for Welders (WELD 1403)	Semester Hrs
WLDG 1413 Introduction to Bideprint Reading for Welders (WELD 1403)WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	Δ
WLDG 1435 Introduction to Pipe Welding (WELD 1402)	4
WLDG 2406 Intermediate Pipe Welding	4
WLDG 2431 Advanced Blueprint Interpretation and Cost Analysis	4
Total Semester Hours	20
Level I - Pipe Welding Foreman	
	Semester Hrs
WLDG 1413 Introduction to Blueprint Reading for Welders (WELD 1403)	4
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	4
WLDG 1430 Introduction to Gas Metal Arc (MIG) Welding (WELD 2402) or	4
WLDG 1434 Introduction to Gas Tungsten Arc (TIG) Welding (WELD 2404)	4
WLDG 1435 Introduction to Pipe Welding (WELD 1402)	4
WLDG 2406 Intermediate ripe Welding	4
Total Semester Hours	20
Level I – Certified Welder	
	Semester Hrs
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)	4
WLDG 1435 Introduction to Pipe Welding (WELD 1402)	
WLDG 2406 Intermediate Pipe Welding	4
Total Semester Hours	20
Level II - Machinist Option	
<u>Level II – Macililist Option</u>	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 (DRAF 2408)	4
MATH 1314 College Algebra or higher level math	
MCHN 1405 Metals and Heat Treatment (MACH 2403)	
MCHN 1416 Machine Tool Repair or MCHN 2433 Advanced Lathe Operations (N	
MCHN 1438 Basic Machine Shop I (MACH 1401)	
MCHN 1441 Basic Machine Shop II (MACH 1402)	
MCHN 2381 Cooperative Education – Machinist/Machine Technologist (MACH 2	
RBTC 2335 NC/CNC Programming (MACH 2405)RBTC 2447 Computer Integrated Manufacturing (MACH 2404)	
WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)	
• ,	
Total Competer House	12

	<u>Level II – Machine Shop Foreman Option</u> 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 (DRAF 2408)
	MATH 1314 College Algebra or higher level math
	MCHN 1405 Metals and Heat Treatment (MACH 2403)
	MCHN 1413 Basic Milling Operations (MACH 1403)
	MCHN 1438 Basic Machine Shop I (MACH 1401)
	MCHN 1441 Basic Machine Shop II (MACH 1402)
	MCHN 2381 Cooperative Education – Machinist/Machine Technologist (MACH 2377)
	MCHN 2433 Advanced Lathe Operations (MACH 2401) or MCHN 1416 Machine Tool Repair 4
	OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)
	RBTC 2335 NC/CNC Programming (MACH 2405)
	RBTC 2447 Computer Integrated Manufacturing (MACH 2404)
	WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)4
Tota	Semester Hours
	Level II – Welding Machine Operator
	Semester Hrs
	BMGT 1301 Supervision (MGMT 1301)
	COSC 1301 Introduction to Computer Systems
	ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing
	MCHN 1438 Basic Machine Shop I (MACH 1401)4
	SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
	WLDG 1413 Introduction to Blueprint Reading for Welders (WELD 1403)
	WLDG 1421 Introduction to Welding Fundamentals (WELD 1401)
	WLDG 1430 Introduction to Gas Metal Arc (MIG) Welding (WELD 2402)
	WLDG 1434 Introduction to Gas Tungsten Arc (TIG) Welding (WELD 2402)
	WLDG 1435 Introduction to Pipe Welding (WELD 1402)
	WLDG 1437 Introduction to Metallurgy (WELD 2403)
	*WLDG 2406 Intermediate Pipe Welding
	or WLDG 2413 Welding Using Multiple Processes
	or WLDG 2431 Advanced Blueprint Interpretation and Cost Analysis
	or WLDG 2451 Advanced Gas Tungsten Arc (TIG) Welding4
Tota	Semester Hours44
*See	department chair prior to enrollment.
	Machine Technology Courses
MCH	N 1401 Sheet Metal I [formerly HVAC 1405] (48.0506)
	(3-3)
	An introduction to the materials, tools and techniques used in the sheet metal industry. Review of trade
	math problems involving measurement of lines, area, volume, weight and geometric figures. Introduction
	of types and uses of hand, layout and cutting tools along with bending and forming machines. Practice
	of material types and properties along with the principles of layout and metal forming. The student will
	identify common sheet metal and hand tools and machines; identify and select common fasteners;
	match materials and their properties; select materials for proper applications; and list layout procedures.
	The student will calculate area, volume and weight of geometric figures; use hand and layout tools;
	bending and forming machines, fasteners, parallel and radial line development, and triangulation in
	developing patterns; and cut, bend, form and join sheet metal fittings. Lab fee required. (SCANS 1, 2,
	3, 8, 10) Prerequisite: None.
	o, o, roj i rerequisite. Horie.

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

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

#### MCHN 1416 Machine Tool Repair (48.0507)

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

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

A continuation of Basic Machine Shop I (MCHN 1438). The student will identify machine parts and their functions; select layout tools and techniques; define machine shop terminology; perform basic machine setups; calculate common shop formulas; perform semi-precision layout; execute grinding techniques; demonstrate basic machine operations; and apply proper measuring tools. Students will learn to understand and interpret more complex blueprints, and approach practical problems using precision measuring instruments. Advanced math skills will be stressed for speeds and feeds calculations. Students will select and use a variety of equipment such as power hacksaw, bandsaw and pedestal grinders. This course stresses advanced lathe operation and set up and requires classroom and laboratory performance to demonstrate maximum machine tool performance. Lab fee required. (SCANS 1, 3, 4, 8, 9, 10) Prerequisite or corequisite: MCHN 1438 or consent of department chair.

#### MCHN 2381 Cooperative Education – Machinist/Machine Technologist [formerly MACH 2377] (48.0501)

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

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

A nours An advanced study of milling machine operations. Identification and/or use of milling cutters and support tooling including end mills, slab mills, face mills, involute cutters, rotary tables, and indexing heads. A review of related math and machine theory. This is a follow-up course to MCHN 2433. The student will identify specialty cutters; interpret advanced operations formulas; calculate speeds and feeds; calculate machine coordinates; perform set up of advanced milling procedures; and perform advanced milling operations. The student will demonstrate proficiency in task interpretation and ability to communicate problem-solving techniques to customers and employers. Competencies stress quality of finished products. This is the capstone course for the Milling Machine Operator Option Level I Certificate. Lab fee required. (SCANS 1, 4, 5, 6, 8, 9) Prerequisite or corequisite: MCHN 2433 or consent of department chair.

#### RBTC 2335 NC/CNC Programming [formerly MACH 2405] (15.0405)

A study of the principles and concepts of numerical control through computer applications, specifically in the area of programming for the control of machine tools in CIM. The student will identify the basic types of numerical-controlled machines; demonstrate an understanding of the fundamental steps of planning for the use of numerical control; describe axes relationship and tape readout characteristics; write an exercise in specific programming for an NC/CNC machine; and machine a model of a program he/she has written. Competencies emphasize setup operation, organization of graphs and troubleshooting. Student may work with a lab partner to complete required projects. Special tasks assigned to meet specific needs to satisfy quality expectations. This is the capstone course for the Computerized Numerical Control Programmer Option Level I Certificate. Lab fee required. (SCANS 1, 3, 5, 6, 8, 9) Prerequisite: RBTC 2447 or consent of department chair.

#### RBTC 2447 Computer Integrated Manufacturing (CIM) [formerly MACH 2404] (15.0405)

#### **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)

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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: Consent of department chair.

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

#### WLDG 2413 Welding Using Multiple Processes (48.0508)

#### WLDG 2431 Advanced Blueprint Interpretation and Cost Analysis (48.0508)

#### WLDG 2451 Advanced Gas Tungsten Arc (TIG) Welding (48.0508)

### Music

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

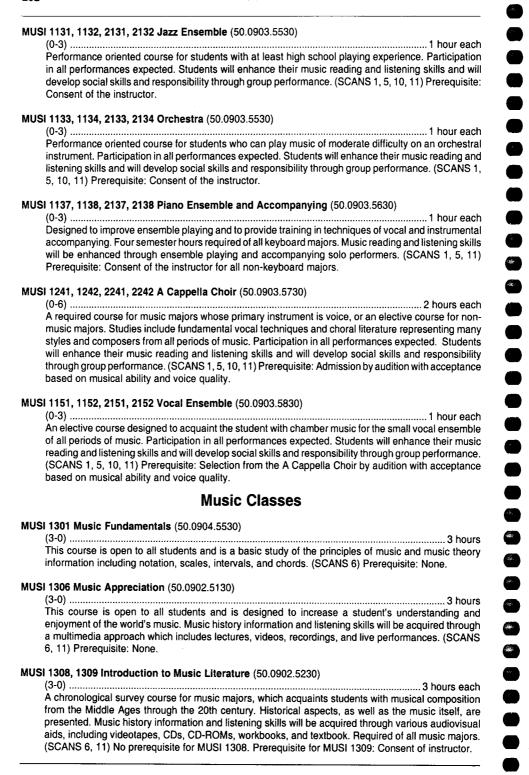
The Odessa College music department, offering an associate in arts degree in music, provides a high quality academic program and cultural enrichment for all Ector County area residents. Courses and performing organizations supply pre-professional training for the music major, fulfill general education 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.

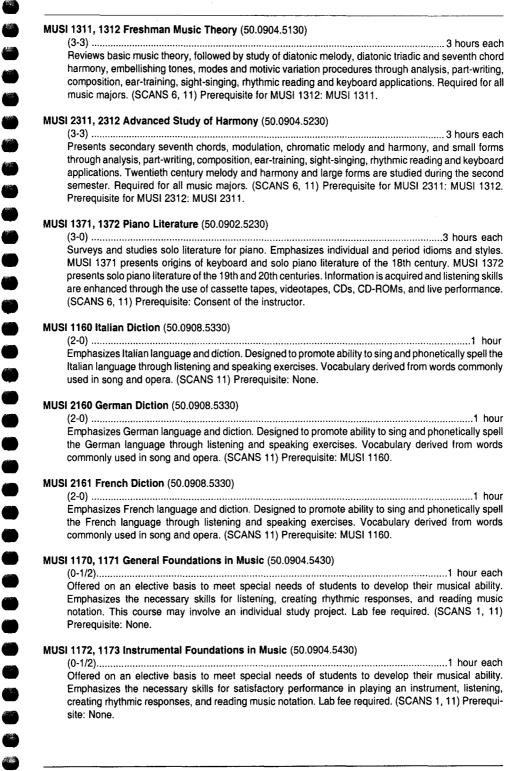
## Course of Study for Associate in Arts Degree Music

<b>!</b>	Semester Hrs
General Education Requirements	38
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	3
GOVT 2302 American National Government	3
*Foreign Language, Math, or Science	6
HIST 1301 U.S. History to 1877	
HIST 1302 U.S. History from 1877	3
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking	3
Major Requirements	34
Class Piano, Secondary Piano, or Piano Ensemble (Piano Majors)	
Freshman Principal Instrument or Voice	
MUSI 1308 and MUSI 1309 Introduction to Music Literature	
MUSI 1311 and MUSI 1312 Freshman Music Theory	
MUSI 2311 and MUSI 2312 Advanced Study of Harmony	
Music Ensemble	
Sophomore Principal Instrument or Voice	4
Total Semester Hours	72
(Vidi Semester Fixers	
*Six to eight semester hours in same discipline.	
Music Ensemble Courses	

MUSI 1121, 1122, 2121, 2122 Concert Band (50.0903.5530)

None.





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MUSI 1181, 1182, 2181, 2182 Class Piano (50.0907.5130)

#### **Private Lessons**

Private study of piano, organ, voice, string, brass, woodwind, and percussion instruments is available to all students on both beginning and advanced levels of instruction. Students will develop and/or enhance their music reading and listening skills through practice and performance on their instrument. Music majors will have a one-hour lesson on their major instrument. They may also have a 1/2 hour lesson on a secondary instrument. Non-music majors may have a one-half hour or one-hour lesson. Five hours of practice per week are 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 eac
MUAP 2209, 2210 Sophomore Cello (50.0903.5430) (0-1)	2 hours eac
MUAP 1213, 1214 Freshman Double Bass (50.0903.5430) (0-1)	2 hours eac
MUAP 2213, 2214 Sophomore Double Bass (50.0903.5430) (0-1)	2 hours eac
MUAP 1217, 1218 Freshman Flute (50.0903.5430) (0-1)	2 hours eac
MUAP 2217, 2218 Sophomore Flute (50.0903.5430) (0-1)	2 hours eac
MUAP 1221, 1222 Freshman Oboe (50.0903.5430) (0-1)	2 hours eac
MUAP 2221, 2222 Sophomore Oboe (50.0903.5430) (0-1)	2 hours eac
MUAP 1225, 1226 Freshman Bassoon (50.0903.5430) (0-1)	2 hours eac
MUAP 2225, 2226 Sophomore Bassoon (50.0903.5430) (0-1)	2 hours eac
MUAP 1229, 1230 Freshman Clarinet (50.0903.5430) (0-1)	2 hours eac
MUAP 2229, 2230 Sophomore Clarinet (50.0903.5430) (0-1)	2 hours eac
MUAP 1233, 1234 Freshman Saxophone (50.0903.5430) (0-1)	2 hours eac
MUAP 2233, 2234 Sophomore Saxophone (50.0903.5430) (0-1)	
MUAP 1237, 1238 Freshman Cornet or Trumpet (50.0903.5430) (0-1)	2 hours eac
MUAP 2237, 2238 Sophomore Cornet or Trumpet (50.0903.5430) (0-1)	2 hours eac
MUAP 1241, 1242 Freshman French Horn (50.0903.5430) (0-1)	
MUAP 2241, 2242 Sophomore French Horn (50.0903.5430) (0-1)	

MUAP 2245, 2246 Sophomore Trombone or Baritone (50.0903.5430) (0-1)	2 hours each
MUAP 1253, 1254 Freshman Tuba (50.0903.5430) (0-1)	2 hours each
MUAP 2253, 2254 Sophomore Tuba (50.0903.5430) (0-1)	2 hours each
MUAP 1257, 1258 Freshman Percussion (50.0903.5430) (0-1)	2 hours each
MUAP 2257, 2258 Sophomore Percussion (50.0903.5430) (0-1)	2 hours each
MUAP 1261, 1262 Freshman Classical Guitar (50.0903.5430) (0-1)	2 hours each
MUAP 2261, 2262 Sophomore Classical Guitar (50.0903.5430) (0-1)	2 hours each
MUAP 1265, 1266 Freshman Organ (50.0903.5430) (0-1)	2 hours each
MUAP 2265, 2266 Sophomore Organ (50.0903.5430) (0-1)	2 hours each
MUAP 1269, 1270 Freshman Piano (50.0903.5430) (0-1)	2 hours each
MUAP 2269, 2270 Sophomore Piano (50.0903.5430) (0-1)	2 hours each
MUAP 1281, 1282 Freshman Voice (50.0903.5430) (0-1)	2 hours each
MUAP 2281, 2282 Sophomore Voice (50.0903.5430) (0-1)	2 hours each
MUAP 1165, 1166, 2165, 2166 Secondary Organ (50.0903.5430) (0-1/2)	1 hour each
MUAP 1169, 1170, 2169, 2170 Secondary Piano (50.0903.5430) (0-1/2)	1 hour each
MUAP 1181, 1182, 2181, 2182 Secondary Voice (50.0903.5430) (0-1/2)	1 hour each
MUAP 1187, 1188, 2187, 2188 Secondary Instrument (50.0903.5430)	1 hour each

NURSING 207

### **Nursing RN/LVN/Tech-Prep**

Faculty - Odessa: Becky Hammack, director; Marylin Boomer, Laura Cralle, Amanda Darling, Dee Ann Decker, Eva Mauldin, Gail Meagher, Jan Phillips, Robbie Rogers, Lori Wingate.

Faculty - Andrews: Patricia Bayless, chair; Stacy Wallis.

Faculty - Monahans: 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 below.

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 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-Associate Degree Level - Evening Option:

The RN Evening Option is designed for students to attend nursing classes and clinicals primarily during the 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 Option for the LVN – Associate Degree Level:

The Transition Option is designed for persons who are already licensed vocational nurses. The transition courses are the initial courses, which serve 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 these courses, the LVN will receive 16 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.

#### **Vocational Nursing Option – Andrews and Monahans Extensions:**

The Vocational Nursing Option 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.

The associate degree program is accredited by the Board of Nurse Examiners for the State of Texas and the National League for Nursing Accrediting Commission. The vocational programs are accredited by the Board of Vocational Nurse Examiners for the State of Texas. Curriculum plans are approved by the Texas Higher Education Coordinating Board. Information concerning tuition and fees, and length of the program are available from NLNAC, 61 Broadway, New York, NY 10006; 1-800-669-9656.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

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### Admission requirements for the Career Ladder Option, RN-Evening Option, Transition/Validation for the LVN, and the Tech-Prep/Career Ladder Option:

- Applications must be submitted by:
   June 1 for fall admission.
   October 1 for spring admission.
- Persons who have been convicted of a felony or misdemeanor or who have a history of substance
  abuse must request a declaratory order from the Board of Nurse Examiners for the State of Texas
  prior to admission. Information and documentation must be submitted to the board prior to
  application for licensure. Eligibility for licensure will be decided by investigation. Persons who have
  been convicted of a felony will not qualify as an eligible candidate to take the National Council for
  Licensure Examination (NCLEX) Practical Nurse (PN).
- Prerequisites for Career Ladder Option (Prerequisites for RN Evening Option are listed under degree plan):
  - BIOL 2401 Anatomy and Physiology I must have completed within last five years. BIOL 2402 Anatomy and Physiology II must have completed within last five years. MATH 1332 Structures of College Mathematics or higher level math. RNSG 1201 Pharmacology
- College cumulative GPA 2.0 or higher in all courses.
- Official high school transcript or GED.
- 6. Passed TASP and/or satisfactory scores on ASSET placement tests.
- 7. A satisfactory score on the nursing entrance exam.
- Current CPR certification in Basic Life Support for Professionals (American Heart Association Course C or Red Cross Basic Life Support for the Professional).
- 9. Proof of health and accident insurance and professional liability coverage.
- Students wishing to apply for admission or persons seeking additional information should contact the Counseling Center at Odessa College.
- 11. All courses (nursing and non-nursing) must be passed with a grade of "C" or better.

#### Admission requirements for VN Option – Andrews and Monahans Extensions:

- 1. Applications should be submitted no later than March 1 for fall admission.
- 2. Official high school transcript or GED.
- 3. College cumulative GPA of 2.0 or higher in all courses.
- 4. A satisfactory score on the vocational nursing entrance exam.
- Current CPR certification (American Heart Association Course C or Red Cross Basic Life Support for the Professional).
- Persons who have been convicted of a felony will not qualify as an eligible candidate to take the National Council for Licensure Examination (NCLEX) – Practical Nurse (PN).
- Students wishing to apply for admission or persons seeking additional information should contact either the Counseling Center at Odessa College or the program directors in Andrews or Monahans.
- 8. All courses (nursing and non-nursing) must be passed with a grade of "C" or better. A "C" is 75%.
- 9. All qualified applicants will be interviewed by the program director in either Andrews or Monahans.
- Proof of health and accident insurance and professional liability coverage.

Although English language proficiency is not required for admission to the nursing options, successful completion of the program necessitates good communication skills in English. There is no discrimination due to age, sex, color, race, cultural or ethnic background, or national origin.

The nursing programs focus on the nursing care of clients with common health problems. Clinical experience is concurrent within each course and includes medical, surgical, obstetrical, pediatric, psychiatric, 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 grade of "C" in

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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.

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

#### RN-Career Ladder Option - Vocational/Associate Degree Level

The Career Ladder Nursing Option is designed to allow students maximum flexibility in education. Students have the option of progressing through the two levels of nursing. After completion of the first year of nursing courses, the student has the option of taking summer vocational courses (see courses designated by an asterisk). The completion of the summer option results in a certificate of completion and the qualifications for taking the licensure exam for licensed vocational nurse (LVN). Successful completion of the second year of nursing courses results in an associate in applied science degree and the qualifications to take the licensure exam for registered nurse (RN). All nursing students must have current CPR certification and are governed by policies in the Nursing Student Handbook.

	Semester Hrs	
Prerequisites/Bridge Courses	13	
BIOL 2401 Anatomy and Physiology I	4	
BIOL 2402 Anatomy and Physiology II	4	
HPRS 1106 Medical Terminology (BIOL 1170)	1	
PSYC 2301 Introduction to Psychology		
RNSG 1108 Dosage Calculations for Nursing	1	
The difference of the bodge outside the training		
First Year		
Summer Session II		
ENGL 1301 Composition and Rhetoric	2	
SPCH 1315 Public Speaking		
SPOR 1315 Public Speaking	3	
First Semester		
RNSG 1201 Pharmacology (NURS 1201)	2	
RNSG 1215 Health Assessment (NURS 1102)		
RNSG 1219 Preparation for Basic Nursing Care (NURS 1503/NURS 1504)	2	
RNSG 1261 Clinical Nursing I (NURS 1503/NURS 1504)		
RNSG 1423 Introduction to Professional Nursing (NURS 1503)		
PSYC 2314 Lifespan Growth and Development		
Second Semester		
COSC 1301 Introduction to Computer Systems		
RNSG 1244 Nursing Skills (NURS 1306/NURS 1805)	2	
RNSG 1462 Clinical Nursing II (NURS 1306/NURS 1805)		
RNSG 2504 Care of the Client with Common Health Care Needs (NURS 1805)		
hivod 2004 Care of the Chefit with Confinion Health Care Needs (NOHS 1005)		
Summer Sessions I and II		
*VNSG 1230 Maternal-Neonatal Nursing (NURS 1821)		
*VNSG 1413 Applied Nursing Skills II (NURS 1222/NURS 1821)	4	
*VNSG 1460 Clinical Practical Nurse (NURS 1821)	4	
VNOG 1400 Olimical Flactical Nuise (NOTIO 1021)	т	
*Vocational level (These courses are optional.)		
Students who successfully complete the vocational level with a cumulative GPA of 2.0 or	better in all course	
work are eligible to take the state board examination for licensure as a vocational nu	rse and receive a	
certificate of completion.		
Certificate of Completion.		

Second Year				
First Semester				
BIOL 2420 Microbiology	4			
PHED 1100 Lifestyle Assessment and Modification				
RNSG 1512 Nursing Care of the Childbearing and Childrearing Family (NURS 2807)				
RNSG 2361 Clinical Nursing III (NURS 2807)				
Second Semester				
GOVT 2301 U.S. & Texas Government	3			
RNSG 2360 Clinical Nursing IV (NURS 2808)	3			
RNSG 2514 Care of the Client With Complex Health Care Needs (NURS 2808)	5			
Total Hours	"			
	_			
Students planning to enter the associate-degree level may take an additional academic course from th curriculum for the second year.				
Students successfully completing the associate-degree level are eligible to take the state board examinatio for licensure as a registered nurse.	'n			
RN Associate Degree Nursing Program – Evening Option				
The Odessa College RN Evening Option offers students a sequence of evening classes leading to a 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 b	е			
held during day hours. Prior to entering the nursing program, the student must have completed th	e			
prerequisite/bridge course requirements designated in the curriculum and be currently certified in CPR. A				
students are governed by policies in the Nursing Student Handbook. The vocational nursing courses at	re			
students are governed by policies in the Nursing Student Handbook. The vocational nursing courses as available to the Evening Option students during the day.				
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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 Hir Prerequisite/Bridge Courses	<b>s</b> 3 4 4 4 3 3 3 1 1 3 3 1 3 2 2 2 2			
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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 Hr  Prerequisite/Bridge Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  BIOL 2420 Microbiology  COSC 1301 Introduction to Computer Systems  ENGL 1301 Composition and Rhetoric  GOVT 2301 U.S. & Texas Government  HPRS 1106 Medical Terminology (BIOL 1170)  PHED 1100 Lifestyle Assessment and Modification  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing  SPCH 1315 Public Speaking  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)  RNSG 1215 Health Assessment (NURS 1102)  RNSG 1261 Clinical Nursing I (NURS 1503/NURS 1504)  RNSG 1423 Introduction to Professional Nursing (NURS 1503)	<b>s</b> 34443333113313 22224 24			

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Summer Session I & I!  *VNSG 1230 Maternal-Neonatal Nursing (NURS 1821)		•
*VNSG 1413 Applied Nursing Skills II (NURS 1222/NURS 182 )	••••••	4
*VNSG 1460 Clinical Practical Nurse (NURS 1821)		4
*Vocational level. (These courses are optional).		
Students who successfully complete the vocational level with a cumulative GPA		
work are eligible to take the state board examination for licensure as a voca certificate of completion.	tional nurse and rece	eive a
Second Year		
First Semester		
RNSG 1512 Nursing Care of the Childbearing and Childrearing Family (N		
RNSG 2361 Clinical Nursing III (NURS 2807)		3
Second Semester		
RNSG 2360 Clinical Nursing IV (NURS 2808)		
RNSG 2514 Care of the Client With Complex Health Care Needs (NURS	2808)	5
Total Hours	***************************************	72
Transition Option for the LVN - Associate D	oaree I evel	
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Prior to taking the transition courses, licensed vocational ourses must be	icensed to practice or	ırsina
Prior to taking the transition courses, licensed vocational nurses must be lin the state of Texas. Upon successful completion of the transition courses, stude		
in the state of Texas. Upon successful completion of the transition courses, stude	nts will follow the curric	culum
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav	nts will follow the curric	culum
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav	nts will follow the curric e current CPR certific	culum
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in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste	er Hrs 4 4 3
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in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste	er Hrs 4 4 3 1 3
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste	er Hrs 4 4 3 1
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  COSC 1301 Introduction to Computer Systems  HPRS 1106 Medical Terminology (BIOL 1170) or consent of instructor.  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing (or consent of instructor)  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)	nts will follow the curric e current CPR certific Semeste	culum eation 
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must have and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  COSC 1301 Introduction to Computer Systems  HPRS 1106 Medical Terminology (BIOL 1170) or consent of instructor.  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing (or consent of instructor)  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)	nts will follow the curric e current CPR certific Semeste	culum eation 
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must have and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste  Semeste	culum eation 
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  COSC 1301 Introduction to Computer Systems  HPRS 1106 Medical Terminology (BIOL 1170) or consent of instructor.  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing (or consent of instructor)  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)  *RNSG 1227 Transition From Vocation to Professional Nursing (NURS 1*RNSG 2162 Clinical Nursing for Transition to Professional Nursing/Med Nursing (NURS 1601)	nts will follow the curric e current CPR certific Semeste  601)  601-Surgical	er Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  COSC 1301 Introduction to Computer Systems  HPRS 1106 Medical Terminology (BIOL 1170) or consent of instructor.  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing (or consent of instructor)  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)  *RNSG 1227 Transition From Vocation to Professional Nursing (NURS 1*RNSG 2162 Clinical Nursing for Transition to Professional Nursing/Med Nursing (NURS 1601)  RNSG 2504 Care of the Client With Common Health Care Needs (NURS)	nts will follow the curricle current CPR certific  Semeste  601)	culum r Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must have and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curricle current CPR certific  Semeste  601)	culum r Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must have and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste  Semeste  601)  cal-Surgical	culum r Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must have and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	nts will follow the curric e current CPR certific Semeste  Semeste  601)  cal-Surgical	culum eation  4 Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I  BIOL 2402 Anatomy and Physiology II  COSC 1301 Introduction to Computer Systems  HPRS 1106 Medical Terminology ( BIOL 1170) or consent of instructor.  PSYC 2301 Introduction to Psychology  PSYC 2314 Lifespan Growth and Development  RNSG 1108 Dosage Calculations for Nursing (or consent of instructor)  First Year  First Semester  RNSG 1201 Pharmacology (NURS 1201)	nts will follow the curric e current CPR certific Semeste  Semeste  601)  ical-Surgical	culum eation  Fr Hrs
in the state of Texas. Upon successful completion of the transition courses, stude for the upper level of the career ladder program. All nursing students must hav and are governed by policies in the Nursing Student Handbook.  Prerequisite Courses  BIOL 2401 Anatomy and Physiology I	Semeste  Semeste  1805)	culum eation  Fr Hrs

2

	NORSING
	Second Year
Firs	st Semester
	GOVT 2301 U.S. and Texas Government
	PHED 1100 Lifestyle Assessment and Modification
	RNSG 2360 Clinical Nursing IV (NURS 2808)
	RNSG 2514 Care of the Client With Complex Health Care Needs (NURS 2808)5
	nen students have successfully completed RNSG 1227 and RNSG 2162, they are eligible to enter the ond year of the curriculum.
٧	ocational Nursing Option – Andrews and Monahans Extensions
voc	hose students who wish to complete their education at the vocational level. Successful completion of the ational level qualifies the student as an eligible candidate to take the National Council for Licensure mination for vocational nurses. The student will receive a certificate of completion from Odessa College.  Course of Study for Certificate of Completion
	Semester Hrs
Firs	st Semester
	VNSG 1227 Essentials of Medication Administration (NURS 1612)
	VNSG 1300 Chilical Plactical Notes (Vocational Notes )
	VNSG 1500 Nursing in Health and Illness I
	VNSG 1502 Applied Nursing Skills I (NURS 1611)
Sec	cond Semester
	VNSG 1219 Professional Development (NURS 1611)
	VNSG 1406 Maternal/Newborn Nursing (NURS 1613)
	VNSG 1407 Pediatric Nursing (NURS 1613)
	VNSG 1461 Clinical Practical Nurse II/Vocational Nurse
	VNSG 1509 Nursing in Health and Illness II (NURS 1614)

MUDCINO

#### **Nursing Courses**

VNSG 1238 Mental Illness (NURS 1612) 2
VNSG 1463 Clinical Practical Nurse Ill/Vocational Nurse 4
VNSG 1510 Nursing in Health and Illness Ill (NURS 1615) 5

#### **RNSG 1201 Pharmacology** [formerly NURS 1201] (51.1601)

Summer Session I and II

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#### RNSG 1215 Health Assessment [formerly NURS 1102] (51.1601) Development of skills and techniques required for a comprehensive health assessment within a legal/ ethical framework. Lab fee required. (SCANS 1, 2, 5, 6, 9, 10, 11) Prerequisites: BIOL 2401 and BIOL 2402 or consent of instructor. RNSG 1219 Preparation for Basic Nursing Care [formerly NURS 1503/NURS 1504] (51.1601) Development of basic nursing skills for care of diverse clients across the life span. Topics include knowledge, skills, and professional values within a legal/ethical framework. Study of the concepts and principles essential for demonstrating competence in the performance of nursing procedures, including medical terminology. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: BIOL 1170, BIOL 2401, BIOL 2402, PSYC 2301, and RNSG 1108. Corequisites: RNSG 1201, RNSG 1215, RNSG 1261, and RNSG 1423. RNSG 1227 Transition From Vocational to Professional Nursing [formerly NURS 1601] (51.1601) Topics include health promotion, expanded assessment, analysis of data, nursing process, pharmacology, multidisciplinary teamwork, communication, and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework throughout the life span. Preparation for role transition from vocational to professional nursing. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: BIOL 1170, BIOL 2401, BIOL 2402, COSC 1301, PSYC 2301, PSCY 2314, RNSG 1108, RNSG 1201 and Texas license to practice as a LVN. Corequisites: RNSG 2162 and RNSG 2504. RNSG 1244 Nursing Skills II [formerly NURS 1306/NURS 1805] (51.1601) (0-6) \_\_\_\_\_\_\_2 hours Study of the concepts and principles necessary to perform intermediate or advanced nursing skills; and demonstrate competence in the performance of nursing procedures. Topics include knowledge, judgment, skills and professional values within a legal/ethical framework. (SCANS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: RNSG 1201, RNSG 1215, RNSG 1219, RNSG 1261, and RNSG 1423. Corequisites: RNSG 1561 and RNSG 2414. RNSG 1261 Clinical Nursing I – Medical Surgical Nursing [formerly NURS 1503/NURS 1504] (51.1601) (0-6) \_\_\_\_\_\_\_2 hours A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Clinical experiences are provided in medical-surgical nursing units in a variety of structured health care settings. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: BIOL 1170, BIOL 2401, BIOL 2402, PSYC 2301, and RNSG 1108. Corequisites: RNSG 1201, RNSG 1215, RNSG 1219, and RNSG 1423. RNSG 1423 Introduction to Professional Nursing [formerly NURS 1503] (51.1601) Introduction to the profession of nursing including the roles of the registered nurse with emphasis on the application of a systematic, problem-solving process to provide care to diverse clients across the life span; and including applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Health care needs relating to the integumentary system, sensory needs, and homeostasis are studied. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: BIOL 1170, BIOL 2401, BIOL 2402, PSYC 2301, and RNSG 1108. Corequisites: RNSG 1201, RNSG 1215, RNSG 1219, and RNSG 1261.

NURSING

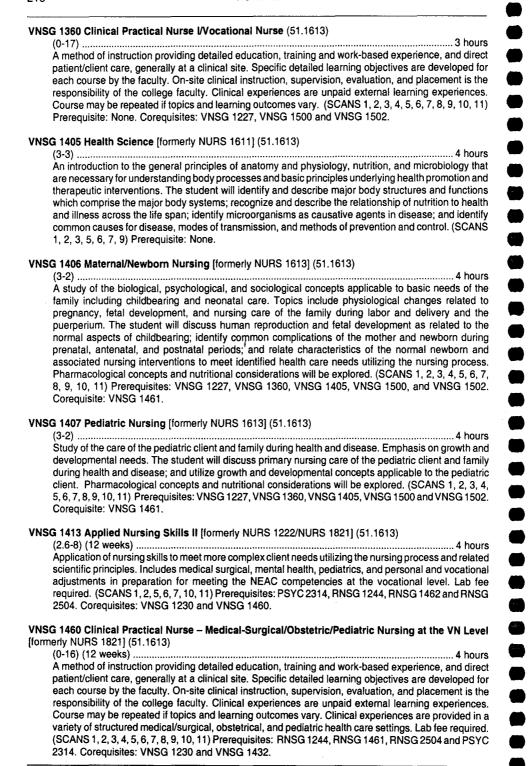
#### 214 RNSG 1462 Clinical Nursing II - Medical-Surgical Nursing [formerly NURS 1306/NURS 1805] (51.1601) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Clinical experiences are provided in structured medical-surgical and perioperative units in a variety of health care settings. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1201, RNSG 1215, RNSG 1219, RNSG 1261, and RNSG 1423. Corequisites: RNSG 1244 and RNSG 2504. RNSG 1512 Nursing Care of the Childbearing and Childrearing Family [formerly NURS 2807] (51.1601) (4-3) 5 hours Study of the concepts related to the provision of nursing care for childbearing and childrearing families; application of systematic problem-solving processes and critical thinking skills, including a focus on the childbearing family during preconception, prenatal, antipartum, neonatal, and postpartum periods and the childrearing family from birth to adolescence; and competency in knowledge, judgment, skill and professional values within a legal/ethical framework. Theory related to community health, women's health, nutrition, and teaching are included. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1244, RNSG 1462, RNSG 2504 and PSYC 2314. Corequisite: RNSG 2360. RNSG 2162 Clinical Nursing for Transition to Professional Nursing/Medical-Surgical Nursing [formerly NURS 1601] (51.1601) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Clinical experiences are provided in a variety of structured medical-surgical health care settings and in simulated learning experiences. Lab fee required. (SCANS 1, 2, 5, 6, 7, 10, 11) Prerequisites: BIOL 1170, BIOL 2401, BIOL 2402, COSC 1301, PSYC 2301, PSYC 2314, RNSG 1108, RNSG 1201 and Texas license to practice as a LVN. Corequisites: RNSG 1227 and RNSG 2504. Successful completion of this course as a corequisite with RNSG 1227 and RNSG 2504 allows the student to be eligible to enter the second year of the Odessa College Nursing Career Ladder Option curriculum. RNSG 2360 Clinical Nursing IV - Adult/Pediatric Critical Care Nursing/Mental Health Nursing Professional Development [formerly NURS 2808] (51.1601) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Clinical experiences are provided in a variety of structured adult and pediatric critical care and mental health settings. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1512 and RNSG 2361. Corequisite: RNSG 2514. RNSG 2361 Clinical Nursing III - Obstetric/Pediatric/Women's Health/Community Health Nursing [formerly NURS 2807] (51.1601) A method of instruction providing detailed education, training and work-based experience and direct

patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation, and placement is the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Clinical experiences are provided in a variety of structured obstetrical, pediatric and community settings. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 144, RNSG 1462, RNSG 2504, and PSYC 2314. Corequisite: RNSG 1512.

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#### RNSG 2504 Care of the Client With Common Health Care Needs - Medical-Surgical Nursing | | | | NURS 1805] (51.1601) Application of a systematic problem-solving process and critical-thinking skills to provide nursing care to diverse clients/families across the life span with common health care needs. Opportunities for collaboration with members of the multidisciplinary health care team. Content includes applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Theory includes (but is not limited to) care of adults with cardiovascular, endocrine, GI/GU, immunological, neurological, oncological, orthopedic, renal and respiratory alterations. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1201, RNSG 1215, RNSG 1219, RNSG 1261, and RNSG 1423. Corequisites: RNSG 1244 and RNSG 1462. RNSG 2514 Care of the Client With Complex Health Care Needs [formerly NURS 2808] (51.1601) Application of a systematic problem-solving process and critical-thinking skills to provide nursing care to diverse clients/families across the life span with complex health care needs in health maintenance and health restoration. Opportunities to collaborate with members of the multidisciplinary health care team. Topics include the role of the nurse as client advocate and coordinator of care and applicable competencies in knowledge, judgment, skills, and professional values within a legal/ethical framework. Includes care of adult and pediatric clients in critical care and mental health settings. Lab fee required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1512 and prerequisite or corequisite: RNSG 2360. VNSG 1219 Professional Development [formerly NURS 1611] (51.1613) (2-0) \_\_\_\_\_\_2 hours Study of the importance of professional growth. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. The student will describe the role of the licensed vocational nurse in multi-disciplinary settings inclusive of basic principles of leadership and management; discuss the role of professional organizations and regulatory agencies, and identify criteria and appropriate resources for continuing education. (SCANS 1, 2, 5, 6, 7, 9, 10, 11) Prerequisites: VNSG 1227, VNSG 1360, VNSG 1405, VNSG 1500 and VNSG 1502. VNSG 1227 Essentials of Medication Administration [formerly NURS 1612] (51.1613) (2-1) \_\_\_\_\_\_2 hours General principles of medication administration including determination of dosage, preparation, safe administration, and documentation of multiple forms of drugs. Instruction includes various systems of measurement. The student will demonstrate accurate dosage calculation; discuss the principles of medication administration safety; and identify the elements of accurate documentation of medication administration. Math proficiency is determined by examination. (SCANS 1, 2, 3, 4, 5, 6, 9, 10, 11) Prerequisite: None. VNSG 1230 Maternal-Neonatal Nursing [formerly NURS 1821] (51.1613) Utilization of the nursing process in the assessment and management of the childbearing family. Emphasis on the bio-psycho-socio-cultural needs of the family during the phases of pregnancy, childbirth, and the neonatal period including abnormal conditions. Prepares the student to meet the NEAC competencies at the vocational level. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: RNSG 1244, RNSG 1561, RNSG 2504 and PSYC 2308. Corequisites: VNSG 1432 and VNSG 1460. VNSG 1238 Mental Illness [formerly (NURS 1612] (51.1613) Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process. The student will identify common mental illnesses and maladaptive behavior; utilize the nursing process to assist in planning care for the individual with mental illness or maladaptive behavior; and discuss trends in the management of the individual requiring psychotherapeutic treatment and pharmacologic agents. Therapeutic communication is emphasized. (SCANS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: VNSG 1219, VNSG 1406, VNSG 1407, VNSG 1461 and VNSG 1509. Corequisite: VNSG 1463.

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## VNSG 1461 Clinical Practical Nurse II/Vocational Nurse (51.1613)

#### VNSG 1463 Clinical Practical Nurse Ill/Vocational Nurse (51,1613)

#### VNSG 1500 Nursing in Health and Illness I [formerly NURS 1611] (51.1613)

#### VNSG 1502 Applied Nursing Skills I [formerly NURS 1611] (51.1613)

#### VNSG 1509 Nursing in Health and Illness II [formerly NURS 1614] (61.1613)

#### VNSG 1510 Nursing in Health and Illness III (formerly NURS 1615) (51.1613)

# Occupational Safety and Health Technology

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

The occupational safety and health 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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

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

	Semester Hrs
General Education Requirements	23
BIOL 2306 General Ecology or GEOL 1403 Physical Geology	
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 higher level math	3
PHED (any two one-hour activity courses)	
PSYC 2302 Applied Psychology or HRPO 1311 Human Relations (MGMT 2304)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	

Major Requirements	37
EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	3
EPCT 1341 Principles of Industrial Hygiene (OSHA 1320)	3
EPCT 1344 Environmental Sampling and Analysis (OSHA 1310)	
EPCT 1349 Environmental Regulation Interpretation and Applications (OSHA 2390)	
OSHT 1309 Physical Hazard Control (OSHA 1315)	3
OSHT 1313 Accident Prevention, Inspection and Investigation (OSHA 1305)	3
OSHT 1325 Safety Training Presentation Techniques	
OSHT 2380 Cooperative Education – Occupational Safety and Health	
Technology/Technician (OSHA 2377)	3
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	4
QCTC 1301 Total Quality Management	
QCTC 1341 Statistical Process Control (OSHA 2393)	
*OSHT Elective (any OSHT course not required)	3
Related Requirements	8
**EMED 1501 Basic Emergency Care	
PTRT 1301 Overview of Petroleum Industry (PETR 1300)	
Total Semester Hours	68
*Students may choose from the following pool of courses depending on their individual infollocal industry need: OSHT 1321 Fire Protection Systems, OSHT 1391 or 1491 Special Topics in Occ Safety and Health Technology/Technician, OSHT 1405 OSHA Regulations – Construction Indust 2405 Ergonomics and Human Factors in Safety.	cupational

\*\*The emergency medical technology program is currently under revision by the Texas Department of Health, Emergency Medical Services Division and the Texas Higher Education Coordinating Board. The revisions are anticipated to be completed by Sept. 1, 2000, and the program and courses listed in this catalog will be changed accordingly. Contact LeeDon Martin, department chair, for information regarding the revised program.

# **Course of Study for Certificate of Technology**

Level I certificates are TASP-waived.

### Level I - Occupational Safety and Health Technology

	Semester Hrs
General Education Requirements	6
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	22
EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	
EPCT 1344 Environmental Sampling and Analysis (OSHA 1310)	
OSHT 1313 Accident Prevention, Inspection and Investigation (OSHA 1305)	3
OSHT 1325 Safety Training Presentation Techniques	3
OSHT 2380 Cooperative Education - Occupational Safety and Health	
Technology/Technician (OSHA 2377)	3
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	4
QCTC 1301 Total Quality Management	
Related Requirements	3
PTRT 1301 Overview of Petroleum Industry (PETR 1300)	3
Total Semester Hours	31

# Occupational Safety and Health Technology Courses

EPCT 1301 Hazardous Waste Operations and Emergency Response (HAZWOPER) Training and Related Topics [formerly OSHA 2396] (15.0507)  (3-0)
Minimum certification requirements of a hazardous waste site worker as found in 29CFR-1910.120 and 40CFR.264 and 265.16. Designed for industrial, manufacturing and technical workers where state/federal regulations require industrial safety training. Course completers will be certified as a Hazardous Waste Operations Emergency Response Technician (HAZWOPER). Students will be required to exhibit problem-solving, self management, and communication skills while working within a safety environmental team. Within this team environment, students will be responsible for effective allocation of resources and group monitoring of team decisions. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.
<b>EPCT 1341 Principles of Industrial Hygiene</b> [formerly OSHA 1320] (15.0507) (3-1)
Basic concepts in threshold limits, dose response and general recognition of occupational hazards, including sampling statistics, calibration and equipment use. A study of the control of occupational hazards, and sample collection and evaluation methods. Students learn to anticipate, recognize, evaluate and control environmental factors or stresses arising in or from the work place. Students will prepare written reports and recommend actions as a team effort on the results of their findings from workplace sampling. Lab fee required. (SCANS 1, 2, 5, 7, 8, 9, 10) Prerequisite: OSHT 1313 or consent of department chair.
<b>EPCT 1344 Environmental Sampling and Analysis</b> [formerly OSHA 1310] (15.0507) (3-0)
Sampling protocol, procedures, quality control, preservation technology and field analysis. Emphasis on analysis commonly performed by the field technician. Competencies include performing and interpreting basic theories, functions, application and analysis of those instruments used in air, water and soil monitoring. The student will be able to prepare a report on the impurities and pollutants in the environment. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: None.
EPCT 1349 Environmental Regulation Interpretation and Applications [formerly OSHA 2390] (15.0507) (3-0)
An in-depth study of the major federal and state environmental regulations. Covers all pertinent regulatory requirements and strictures affixed to industry by agencies such as the RRC, DOT, FERC, DOE and OSHA. The student will read, interpret and analyze the effects of such rulings and prepare the proper responses. (SCANS 1, 2, 6, 9) Prerequisite: None.
OSHT 1309 Physical Hazards Control [formerly OSHA 1315] (15.0701) (3-0)
A study of the common physical hazards in industry and methods of workplace design and redesign to control hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards. Student will compile a list of written process safety information for employees involved with highly hazardous chemicals and recommend the purchasing of safety equipment. Students will be required to exhibit problem-solving, self management and communication skills while working in a safety analysis group. Within this group, students will be responsible for organizing and evaluating safe use, storing, manufacturing, handling or moving hazardous chemicals at the job site or any combination of these activities. (SCANS 1, 4, 5, 6, 9, 10, 11) Prerequisite: None.
OSHT 1313 Accident Prevention, Inspection and Investigation [formerly OSHA 1305] (15.0701).
(3-0)

OSE	IT 1321 Fire Protection Systems (15.0701)
•••	(3-0)
	Study of fire protection systems and their applications with emphasis on the National Fire Protection Association codes. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.
OSH	TT 1325 Safety Training Presentation Techniques (15.0701) (3-0)
	General principles of developing and presenting effective industrial/business training. Emphasis or instructor qualifications and responsibilities, principles of learning and teaching, methods and techniques of teaching including use of teaching aids, and presentation skills. (SCANS 4, 5, 6, 7, 8, 9, 10, 11 Prerequisite: None.
	IT 1391 or OSHT 1491 Special Topics in Occupational Safety and Health Technology/Techniciar 0701)
	(3-0) or (4-0)
	Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.
)SF	<b>IT 1405 OSHA Regulations – Construction Industry</b> [formerly OSHA 2395] (15.0701) (3-2)
	A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry. Designed for industrial, manufacturing and technical workers where state federal regulations require industrial safety training. Course competencies meet 29-CFR-1910 and 1926. Course includes hazard communication, lock-out/tag-out, emergency action, confined space entry, and other industry related subjects. Major emphasis will be placed on written programs, training requirements and implementation of the programs to withstand OSHA inspection and civil litigation Students will be required to exhibit problem-solving, self management and communication skills while working within a safety environmental team. Within this team environment, students will be responsible for effective allocation of resources and group monitoring of team decisions. Lab fee required. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None.
	IT 2380 Cooperative Education – Occupational Safety and Health Technology/Technician (formerly IA 2377) (15.0701)
	(1-20)
	Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite Consent of department chair.
OSł	#T 2401 OSHA Regulations – General Industry [formerly OSHA 2395] (15.0701) (4-0)
	A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to general industry. Designed for industrial, manufacturing and technical workers where state/federal regulations require industrial safety training. Course competencies meet 29-CFR-1910 and 1926. Course includes hazard communication, lock-out/tag-out, emergency action, confined space entry and other industry related subjects. Major emphasis will be placed on written programs, training requirements and implementation of the programs to withstand OSHA inspection and civil litigation. Students will be required to exhibit problem-solving, self management and communication skills while working within a safety environmental team. Within this team environment, students will be responsible for effective allocation of resources and group monitoring of team decisions. (SCANS 4, 5, 6, 7, 8, 9, 10, 11

Components of statistics including techniques of collection, presentation, analysis and interpretation of numerical data as applied to statistical control. Stresses application of correlation methods, analysis of variance, dispersion, sampling quality control, reliability, mathematical models and programming. Students will be required to exhibit problem-solving, self management and communication skills while working within a safety assessment group. Within this group, students will be responsible for effective measurement of safety performance, unsafe conditions and contributing factors. Students will be required to calculate using various models, probabilities and accident rates. (SCANS 1, 3, 4, 5, 6, 9, 10, 11) Prerequisite: None.

# **Office Systems Technology**

Faculty: Nancy Stewart, chair; Billie Duncan, Wende Ramos.

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, medical or legal 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, medical or legal. This degree provides students with a broad knowledge of office procedures and applications in the computer and other automated equipment.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Office Systems Technology GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government ............ 3 MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business or POFI 1449 Spreadsheet (OFST 1406) .......4 \*POFT 1429 Keyboarding and Document Formatting (OFST 1421) or \*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science, POFT 2381 Cooperative Education - Administrative Assistant/Secretarial Science, POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410) ......4 POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410) or BUSI 1301 Introduction to Business or BMGT 1301 Supervision (MGMT 1301) .......3 Total Semester Hours ......71 \*Indicates courses which may be articulated by agreement with high school. Course of Study for Certificate of Technology Level I certificates are TASP-waived. Level I - Office Clerk Semester Hrs \*POFT 1429 Keyboarding and Document Formatting (OFST 1421) or \*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science, General (OFST 1424) ...... 4

# Level II - Office Assistant

The 22 semester hours specified in Level I Certificate – Office Clerk plus the following courses:

	Semester Hrs
General Education Requirements	9
*COSC 1301 Introduction to Computer Systems	3
MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business or	
higher level math	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	ა
Major Requirements	26
POFI 1445 Integrated Software Applications II (OFST 2402) or	
POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410)	
POFI 1449 Spreadsheet (OFST 1406)	
POFI 1491 Special Topics in Information Processing/Data Entry Technician (OFST 2	
POFT 1409 Administrative Office Procedures I (OFST 2421)	
POFT 2312 Business Communications II (OFST 2420)	3
POFT 2381 Cooperative Education – Administrative Assistant/Secretarial Science,	0
General (OFST 2377)POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or	3
POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410)	4
FOR 1 2433 Advanced Document Formatting and Skinbullding (OFS 1 2410)	4
Total Semester Hours	57
A total of 57 semester 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 Spe Students may earn a Level III Certificate (Advanced Skills Certificate) – Office Manager by completing the following requirements. Level III certificates may only be awarded along we completion of associate or higher-level degree.	ment Specialist
· · ·	Semester Hrs
Major Requirements	
POFI 1445 Integrated Software Applications II (OFST 2402)	
т т т т т т т т т т т т т т т т т т т	
Related Requirements	6
BMGT 1303 Principles of Management (MGMT 1302)	
BMGT 2303 Problem Solving and Decision Making	
•	
Total Semester Hours	10
A total of 10 semester hours and a minimum grade point average of 2.0 are required for a Lev (Advanced Skills Certificate) – Office Management Specialist.	el III Certificate
*Indicates courses which may be articulated by agreement with high school.	

# Course of Study for Associate in Applied Science Office Systems Technology – Legal Emphasis

Semester Hrs
General Education Requirements17
*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 3
MATH 1314 College Algebra <u>or</u> MATH1324 Mathematical Analysis for Business <u>or</u> higher level math
PHED (any two one-hour activity courses) 2
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
of off 1919 rubile opeaking of off 1921 business and ribiessional opeech
Major Requirements
POFI 1449 Spreadsheet (OFST 1406) 4
*POFI 2401 Word Processing (OFST 1404)4
POFL 1305 Legal Terminology (OFST 1324)3
POFL 1459 Legal Transcription (OFST 2415)4
POFL 2401 Legal Document Processing (OFST 2455)4
POFT 1302 Business Communications I (OFST 1402)
POFT 1409 Administrative Office Procedures I (OFST 2421)
POFT 1425 Business Math and Machine Applications (OFST 1401) 4
*POFT 1429 Keyboarding and Document Formatting (OFST 1421) or
POFT 2401 Document Formatting and Skillbuilding (OFST 1422)
*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science,
General (OFST 1424)4
POFT 2303 Speed and Accuracy Building
POFT 2312 Business Communications II (OFST 2420)
POFT 2381 Cooperative Education – Administrative Assistant/Secretarial Science,
General (OFST 2377)
POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or
POFI 1491 Special Topics in Information Processing/Data Entry Technician (OFST 2401) or
POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410) 4
Related Requirements3
HRPO 1311 Human Relations (MGMT 2304)3
Total Semester Hours71
Total Semester nours
Course of Chudu for Contilions of Toobrology
Course of Study for Certificate of Technology
Level I certificates are TASP-waived.
<u>Level I – Legal Office Clerk</u>
Semester Hrs
*POFI 2401 Word Processing (OFST 1404)4
POFL 1305 Legal Terminology (OFST 1324)3
POFT 1302 Business Communications I (OFST 1402)3
POFT 1425 Business Math and Machine Applications (OFST 1401) 4
*POFT 1429 Keyboarding and Document Formatting (OFST 1421) or
POFT 2401 Document Formatting and Skillbuilding (OFST 1422)4
POFT 2303 Speed and Accuracy Building 3
Total Semester Hours21
A total of 21 semester hours and a minimum grade point average of 2.0 are required for a level I certificate.
*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 the follo S	Semester Hrs
General Education Requirements	
*COSC 1301 Introduction to Computer Systems	3
MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business I or	
higher level math	3
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	3
Najor requirements	26
POFI 1449 Spreadsheet (OFST 1406)	
POFL 1459 Legal Transcription (OFST 2415)	
POFT 1409 Administrative Office Procedures I (OFST 2421)	4
*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science,	
General (OFST 1424)	
POFT 2312 Business Communications II (OFST 2420)POFT 2381 Cooperative Education – Administrative Assistant/Secretarial Science,	s
General (OFST 2377)	3
POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or	
POFI 1491 Special Topics in Information Processing/Data Entry Technician (OFST	2401) or
POFT 2433 Advanced Document Formatting Skillbuilding (OFST 2410)	
otal Semester Hours	56
Level III (Advanced Skills Certificate) - Legal Office Technology Sp	pecialist
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded	e Technology
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded ollowing completion of associate or higher level degree.	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded ollowing completion of associate or higher level degree.	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or4
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or4
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded following completion of associate or higher level degree.  **Major Requirements**  POFI 1445 Integrated Software Applications II (OFST 2402)  **Related Requirements**  LGLA 1313 Introduction to Paralegal Studies (LEGL 1302)  LGLA 2333 Advanced Legal Document Preparation (LEGL 2301)	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Offic Specialist by completing the following requirements. Level III certificate may only be awarded ollowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or  4
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or
Students may earn a Level III Certificate (Advanced Skills Certificate) – Legal Office Specialist by completing the following requirements. Level III certificate may only be awarded collowing completion of associate or higher level degree.  Major Requirements	e Technology d along with or

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POFI 1449 Spreadsheet (OFST 1406)	
*POFI 2401 Word Processing (OFST 1404)	(
POFM 1202 Computers in Health Care (OFST 2101)	
POFM 1213 Medical Terminology I (OFST 1515)	
POFM 1353 Medical Coding (OFST 1515)	
POFT 1431 Medical Transcription I (OFST 2408)	
POFT 1302 Business Communications I (OFST 1402)	
POFT 1409 Administrative Office Procedures I (OFST 2421)	
POFT 1425 Business Math and Machine Applications (OFST 1401) *POFT 1429 Keyboarding and Document Formatting (OFST 1421) or	4
POFT 1429 Reyboarding and Document Formatting (OFST 1421) or POFT 2401 Document Formatting and Skillbuilding (OFST 1422)	
*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science,	•••••••••••••••••••••••••••••••••••••••
General (OFST 1424)	
POFT 2303 Speed and Accuracy Building	
POFT 2312 Business Communications II (OFST 2420)	
POFT 2381 Cooperative Education – Administrative/Secretarial Science,	•
General (OFST 2377)	
POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or	
POFI 1491 Special Topics in Information Processing/Data Entry Technician (OF	
POFT 2433 Advanced Document Formatting and Skillbuilding (OFST 2410)	
Related Requirements	
BIOL 2404 Human Anatomy and Physiology	4
Total Semester Hours	76
Total Semester Hours	, 14
A total of 72 semester hours and a grade point average of 2.0 are required for associate in degree.	applied science
uog. 00.	
*Indicates courses which may be articulated by agreement with high school.	
Course of Study for Certificate of Technology	
Level I certificates are TASP-waived.	
Level I - Medical Office Clerk	
	Semester Hrs
*POFI 2401 Word Processing (OFST 1404)	4
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POFM 1213 Medical Terminology I (OFST 1515)	
POFM 1213 Medical Terminology I (OFST 1515)	
POFM 1353 Medical Coding (OFST 1515)	
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POFM 1353 Medical Coding (OFST 1515)	

#### **Level II - Medical Office Assistant**

The 23 semester hours specified in Level I Certificate - Medical Office Clerk, plus the following courses: General Education Requirements .......9 MATH 1314 College Algebra or MATH 1324 Mathematical Analysis for Business I or POFM 1202 Computers in Health Care (OFST 2101) .......2 \*POFT 1492 Special Topics in Administrative Assistant/Secretarial Science, General (OFST 1424) .......4 POFT 2381 Cooperative Education - Administrative Assistant/Secretarial Science. POFT 2401 Document Formatting and Skillbuilding (OFST 1422) or POFI 1491 Special Topics in Information Processing/Data Entry Technician (OFST 2401) or A total of 56 semester hours and a minimum grade point average of 2.0 are required for a level II certificate. \*Indicates courses which may be articulated by agreement with high school. Level III (Advanced Skills Certificate) - Medical Office Technology Specialist Students may earn a Level III (Advanced Skills Certificate) - Medical Office Technology Specialist by completing the following requirements. Level III certificate may only be awarded along with or following completion of associate of higher-level degree. POFI 1445 Integrated Software Applications II (OFST 2402) or POFI 1491 Special Topics in Information Processing/Data Entry Technician (OFST 2401) ...... 4 POFM 2413 Medical Transcription II (OFST 2417) ......4 Total Semester Hours ......11 A total of 11 semester hours and a minimum grade point average of 2.0 are required for Level III (Advanced Skills Certificate) - Medical Office Technology Specialist. \*Indicates courses which may be articulated by agreement with high school. Office Systems Technology Courses POFI 1445 Integrated Software Applications II [formerly OFST 2402] (52.0407) Continued study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases and/or presentation media software. Lab fee required. (SCANS 2, 3, 4, 5, 6, 7, 8, 9, 10) Prerequisite: POFI 2401.

	(3-2)4 h
	Skill development in the use of a spreadsheet software package. Topics include worksheet crea and manipulation functions, templates, macro programming database functions, data-table feat and graphics. Lab fee required. (SCANS 2, 3, 6, 9) Prerequisite: POFT 1429 or approval of departrichair. Corequisite: POFT 1425 or approval of instructor.
	FI 1491 Special Topics in Information Processing/Data Entry Technician [formerly OFST 2-0407]
	(3-2)
PO	FI 2401 Word Processing [formerly OFST 1404] (52.0407) (3-2)
	Instruction in the various aspects of a word processing software package. Emphasis on the use of editing features to produce business documents. Lab fee required. (SCANS 1, 2, 6, 8, 9, Prerequisite: POFT 1429 or equivalent.
POI	FL 1305 Legal Terminology [formerly OFST 1324] (52.0403) (3-0)
	An introduction to legal terminology including spelling, pronunciation and definition of legal terms an overview of the law and the professions. (SCANS 1, 2, 6, 11) Prerequisite: None.
POI	<b>L 1459 Legal Transcription</b> [formerly OFST 2415] (52.0403) (3-2)
	Skill development in comprehensive vocabulary, listening, organizing and transcribing client-qu documents used in a legal office. Lab fee required. (SCANS 1, 2, 3, 4, 6, 9) Prerequisites: POFI 2 or other word processing skills, POFL 1305, and POFT 1429 or equivalent, or type 50 wpm.
POI	FL 2401 Legal Document Processing [formerly OFST 2455] (52.0403) (3-2)
	Skill development in the production of legal documents used in the legal and court systems. Lab required. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10) Prerequisites: POFI 2401 and POFL 1305.
POI	FM 1202 Computers in Health Care [formerly OFST 2101] (52.0404) (1-2)
	Introduction to a computerized method for the management and operation of health care informat systems for various types of medical facilities. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9, Prerequisite: None.
POI	FM 1213 Medical Terminology I [formerly OFST 1515] (52.0404) (2-0)
	Instruction in the practical application of a medical vocabulary system. Topics include struct recognition; analysis; definitions; spelling; pronunciation; and combination of medical terms f prefixes, suffixes, roots, and combining forms; identify correct pronunciation, spelling and definit of medical terms; and interpret correctly the contents of a written patient scenario. (SCANS 1, 2, 5, 6, 8, 9, 11) Prerequisite: None.
	FM 1353 Medical Coding [formerly OFST 1515] (52.0404) (3-0)
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POFM 1431 Medical Transcription I [formerly OFST 2408] (52.0404)
(3-2)
POFM 2413 Medical Transcription II [formerly OFST 2417] (52.0404)
(3-2)
POFT 1127 Introduction to Keyboarding [formerly OFST 1200] (52.0408)
(0-3)
POFT 1302 Business Communications I [formerly OFST 1402] (52.0501)
(3-0)
POFT 1409 Administrative Office Procedures I [formerly OFST 2421] (52.0401)
(3-2)
POFT 1425 Business Math and Machine Applications [formerly OFST 1401] (52.0408)
(3-2)
POFT 1429 Keyboarding and Document Formatting [formerly OFST 1421] (52.0408) (3-2)
Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9) Prerequisite: None.
POFT 1492 Special Topics in Administrative Assistant/Secretarial Science, General – Office Bookkeeping [formerly OFST 1424] (52.0401)
(3-2)
POFT 2303 Speed and Accuracy Building (52.0408)
(2-3)

# POFT 2312 Business Communications II [formerly OFST 2420] (52.0501) Skill development in practical applications which emphasize the improvement of writing skills necessary for effective business communications. Instruction in proofreading and editing skills necessary to assure accuracy in written documents and business correspondence. (SCANS 1, 2, 3, 4, 5, 6, 8, 9, 10, 11) Prerequisites: POFT 1302 and POFT 2401. POFT 2381 Cooperative Education - Administrative Assistant/Secretarial Science, General [formerly OFST 2377] (52.0401) Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 2, 3, 4, 5, 6, 7, 9, 11) Prerequisite: Consent of department chair. POFT 2401 Document Formatting and Skillbuilding [formerly OFST 1422] (52.0408) A continuation of keyboarding skills in document formatting, speed, and accuracy. Emphasis on proofreading, editing, and following instruction, and keying documents from various copy. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9, 10) Prerequisite: POFT 1429 or equivalent. POFT 2433 Advanced Document Formatting and Skillbuilding [formerly OFST 2410] (52.0408) Study of advanced concepts in a variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision making, composition, placement, accuracy, and speed development. Lab fee required. (SCANS 1, 2, 3, 4, 6, 8, 9) Prerequisite: POFT 2401. Orientation

Faculty: Dr. Art Brownell, coordinator; Angelica Moreno, assistant coordinator.

ORIE 1100 Orientation is designed to assist those new to Odessa College in gaining the knowledge necessary to function effectively in a college environment. To improve student success, the course will teach academic skills and provide information on available campus resources. Students will be encouraged to develop more definite career plans and an educational plan to fit the career goal. Students will also have a contact point with an Odessa College professional (the course instructor) during the most crucial eight weeks of their college career. ORIE 1100 Orientation is required for first-time students who are taking six or more credit hours.

#### **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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree

#### **Petroleum Technology**

	Semester Hrs
General Education Requirements	17
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric or ENGL 1312 Report Writing	3
GOVT 2301 U.S. and Texas Government	
MATH 1314 College Algebra	3
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	
Major Requirements	39
PTRT 1301 Overview of Petroleum Industry (PETR 1300)	
PTRT 1303 Drilling (PETR 2310)	
PTRT 1307 Production Methods (PETR 1320)	3
PTRT 1309 Corrosion Basics (PETR 2360)	
PTRT 1312 Petroleum Regulations (PETR 2390)	
PTRT 1316 Petroleum Computer Applications (PETR 1380)	
PTRT 1324 Petroleum Instrumentation (PETR 1370)	
PTRT 2331 Well Completions (PETR 1311)	
PTRT 2332 Artificial Lift (PETR 2388)	3
PTRT 2336 Well Workover (PETR 2325)	
PTRT 2380 Cooperative Education – Petroleum Technology/Technician (PETR 237	'7) 3
*Petroleum Electives (any PTRT course not required)	
Related Requirements	10
EPCT 1301 Hazardous Waste Operations and Emergency Response (OSHA 2396)	
OSHT 1325 Safety Training Presentation Techniques	3
OSHT 2401 OSHA Regulations - General Industry (OSHA 2395)	
Total Companion House	00

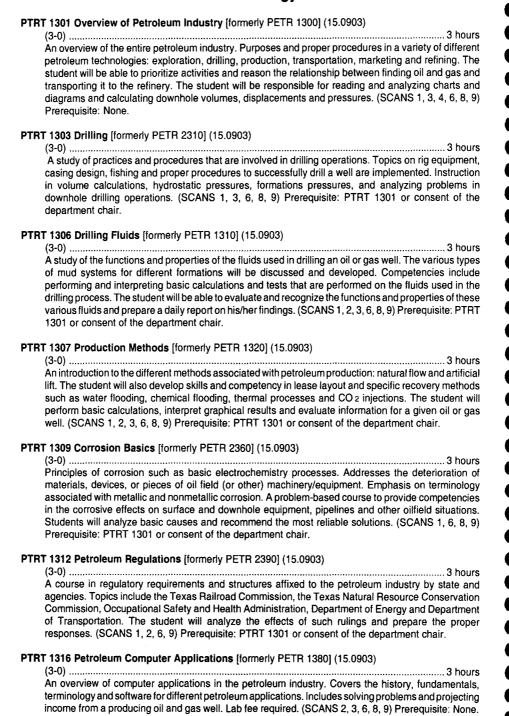
\*Students may choose from the following list of courses depending on their individual needs: PTRT 1306 Drilling Fluids (PETR 1310), PTRT 1317 Natural Gas Processing I, PTRT 1318 Natural Gas Production (PETR 2331), PTRT 1321 Oil Field Hydraulics (PETR 1301), PTRT 2337 Natural Gas Processing II (PETR 2389), PTRT 2340 Well Stimulation (PETR 2382), PTRT 2341 Pipelining (PETR 2350), PTRT 2343 Refining Methods (PETR 2340), PTRT 1391 or PTRT 1491 Special Topics in Petroleum Technology/Technician.

# Certificate of Technology Options Level I certificates are TASP-waived.

Level I - Well Head Pu	ır	ım	per
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## **Petroleum Technology Courses**



### PTRT 1317 Natural Gas Processing I (15.0903) An overview of natural gas processing operations. Fundamentals of gas processing, the nature of heat and how it implements the process, gas plant processing equipment, and procedures from raw materials to the refined products. (SCANS 2, 8, 9) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 1318 Natural Gas Production [formerly PETR 2331] (15.0903) An overview of the aspects of natural gas production including gas well testing; field handling of gas well casing head gas; separation, metering, and dehydration equipment; and gas compression/ transportation systems. Includes handling corrosives, corrosive and inert gases, and equipment for separation, dehydration and control of natural gas. (SCANS 8, 9) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 1321 Oilfield Hydraulics (formerly PETR 1301) (15.0903) Presents hydraulics applicable to drilling, completion and production. Includes calculating and evaluating the characteristics of the flowing and static fluids in various tubular and annular systems. (SCANS 1, 3, 6, 8, 9) Prerequisite: PETR 1301 or consent of the department chair. PTRT 1324 Petroleum Instrumentation [formerly PETR 1370] (15.0903) Surveys the instruments, measurements, and control devices used with the major aspects of the petroleum industry. Basic terminology, functions, and applications of the various instruments will be discussed. (SCANS 1, 2, 3, 6, 8, 9) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 1391 or PTRT 1491 Special Topics in Petroleum Technology/Technician (15.0903) Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: None. PTRT 2331 Well Completions [formerly PETR 1311] (15.0903) Prepares the student to evaluate the effects of drilling through the production formation and choose the tools and procedures for completing a drilled wellbore. The student will participate as a team member in recognizing problems and implementing a correct plan of action in completing an oil or gas well. (SCANS 1, 2, 5, 6, 8, 9) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 2332 Artificial Lift [formerly PETR 2388] (15.0903) Practical aspects of artificial lift in conventional production systems. Designed for students who have completed PTRT 1307 Production Methods and who need further knowledge of various lift systems. Includes such topics as sucker rod pumps, tubing and rod strings, tubing anchors, beam pumps, gas lift and submersible pumping systems, wellheads and equipment involved in secondary recovery systems. (SCANS 6, 7, 8) Prerequisite: PTRT 1301 or consent of the department chair. **PTRT 2336 Well Workover** [formerly PETR 2325] (15.0903) (3-0) \_\_\_\_\_\_\_3 hours In-depth study and analysis of the various problems associated with the producing wellbore. Students discuss and evaluate the economics of working over an oil or gas well. Presents basic competencies of oil and gas well servicing, workover, plugging, reentry, equipment needs and maintenance programs. Students 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 or gas well. (SCANS 1, 2, 3, 4, 6, 8, 9) Prerequisite: PTRT 1301 or consent of the department chair.

### PTRT 2337 Natural Gas Processing II (15.0903) A course in accuracy, quality, and validation of gas and liquid measurement techniques for field and plant operating personnel. General principles of correct techniques of measurement and proper procedures to correct errors will be emphasized. (SCANS 2, 8, 9) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 2340 Well Stimulation [formerly PETR 2382] (15.0903) Variables necessary for stimulating oil or gas wells to increase production. Includes factors in determining the economics of a producing well as to fracture or acidize the pay zones. (SCANS 3, 6, 8, 9) Prerequisite: PETR 1301 or consent of the department chair. PTRT 2341 Pipelining [formerly PETR 2350] (15.0903) An overview of the construction, repair and maintenance of pipeline systems: product, oil, natural gas, salt water and fresh water. Appropriate types of lines for various applications will be discussed. (SCANS 3, 6, 8, 9) Prerequisite: PETR 1301 or consent of the department chair. PTRT 2343 Refining Methods [formerly PETR 2340] (15.0903) An overview of petroleum refining techniques including the process, equipment, and support personnel necessary to convert crude petroleum or natural gas in to the different products and uses. (SCANS 8) Prerequisite: PTRT 1301 or consent of the department chair. PTRT 2380 Cooperative Education-Petroleum Technology/Technician [formerly PETR 2377] (15.0903) Career related activities encountered in the student's area of specialization are offered through a 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. (SCANS 5, 7, 9, 10, 11) Prerequisite: Consent of the department chair.

# **Photography**

Faculty: Steve Goff, chair.

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

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

# Course of Study for Associate in Applied Science Degree Photography

Semester h	Hrs
General Education Requirements	. 23
ARTS 1311 Design I	3
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
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	. 39
*COMM 1307 Introduction to Mass Communication	3
COMM 1318 or ARTS 2356 Photography I	3
COMM 1319 or ARTS 2356 Photography II	3
PHTC 1313 History of Photography (PHOT 2370)	3
PHTC 1341 Color Photography I (PHOT 2371)	3
PHTC 1343 Expressive Photography (PHOT 2360)	3
PHTC 1345 Illustrative Photography I (PHOT 2311)	
PHTC 1349 Photo Digital Imaging I (PHOT 2390)	
PHTC 2301 Intermediate Photography (PHOT 1361)	3
PHTC 2341 Color Photography II (PHOT 2372)	
PHTC 2349 Photo Digital Imaging II	
PHTC 2380 Cooperative Education - Commercial Photography (PHOT 2377)	
PLUS any one course from this pool of three courses	
PHTC 1347 Landscape Photography	
PHTC 1351 Photojournalism I or COMM 1316 News Photography	
PHTC 2331 Architectural Photography	
Total Semester Hours	65
*Course description may be found in the Mass Communication section of this catalog.	
Course of Study for Certificate of Completion  Level I certificates are TASP-waived.	

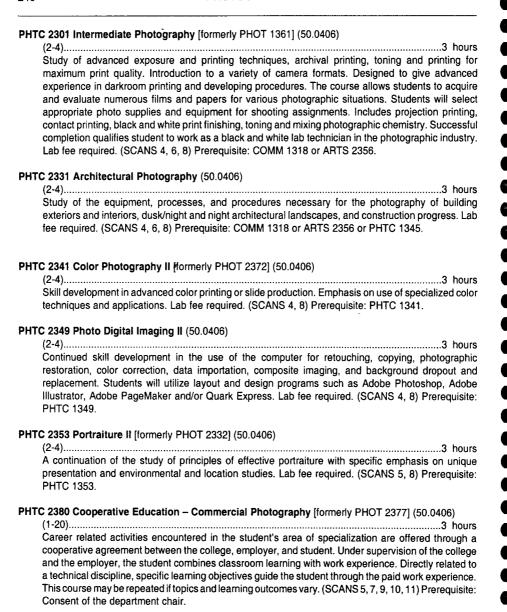
# **Level I – Photo Lab Assistant**

	Semester Hrs
COMM 1318 or ARTS 2356 Photography I	3
COMM 1319 or ARTS 2357 Photography II	3
PHTC 1341 Color Photography I (PHOT 2371)	3
PHTC 1349 Photo Digital Imaging I (PHOT 2390)	3
PHTC 2301 Intermediate Photography PHOT 1361)	3
PHTC 2341 Color Photography II (PHOT 2372)	3
Total Semester Hours	18

# Level I - Digital Imaging Assistant

Semeste	
DMM 1318 or ARTS 2356 Photography I	
DMM 1319 or ARTS 2357 Photography II	3
HTC 1341 Color Photography I (PHOT 2371)	
HTC 1349 Photo Digital Imaging I (PHOT 2390)	
HTC 2341 Color Photography II (PHOT 2372)	
HTC 2349 Photo Digital Imaging II	č
emester Hours	18
<u>Level I – Portrait Studio Assistant</u>	
Semeste	
DMM 1318 or ARTS 2356 Photography I	3
DMM 1319 or ARTS 2357 Photography II	
HTC 1341 Color Photography I (PHOT 2371)	3
HTC 1349 Photo Digital Imaging I (PHOT 2390)	3
HTC 1353 Portraiture I (PHOT 2331)	3
HTC 2301 Intermediate Photography (PHOT 1361)	
HTC 2341 Color Photography II (PHOT 2372)	
tTC 2349 Photo Digital Imaging II	
fTC 2353 Portraiture II (PHOT 2332)	3
emester Hours	27
Photography Courses	
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Photography Courses  1318 Photography I (50.0605.5130) 356 Photography I (50.0605.5130)	
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## PHTC 1341 Color Photography I [formerly PHOT 2371] (50.0406) Examination of color theory as it applies to photography. Emphasis on color concepts and the intricacies of seeing and photographing in color. Students will learn how to select color films and filters for various photographic lighting conditions. Emphasis is on printing from color negatives with assignments designed to help the student identify the intricacies of seeing and photographing in color. Lab fee required. (SCANS 4, 8) Prerequisite: COMM 1318 or ARTS 2356. PHTC 1343 Expressive Photography [formerly PHOT 2360] (50.0406) A study of formal, professional, and individual uses of photography by applying photographic technology to personalized needs. Emphasis on creative visual thinking, problem solving and the exploration of personal vision. Lab fee required. (SCANS 8, 9) Prerequisite: COMM 1318 or ARTS 2356. PHTC 1345 Illustrative Photography I [formerly PHOT 2311] (50.0406) Instruction in the technical aspects involved in commercial photography. Topics include lighting equipment, techniques of production photography, reproduction principles, illustrative techniques, and advertising. Students will learn how to organize and maintain equipment and materials in a photographic studio and select proper lighting for a variety of photographic studio situations. Lab fee required. (SCANS 4, 6, 8) Prerequisite: COMM 1318 or ARTS 2356. PHTC 1347 Landscape Photography (50.0406) Skill development in the inspection of the landscape visually and photographically utilizing various camera formats. Topics include exploration of historic, geographical, and cultural locations, and review of landscape photographers. Lab fee required. (SCANS 6) Prerequisite: COMM 1318 or ARTS 2356. PHTC 1349 Photo Digital Imaging I (formerly PHOT 2390) (50.0406) Instruction in the computer as an electronic darkroom. Topics include color and gray scale images and image conversion and presentation. Students will select and choose a variety of image-capture devices utilizing Adobe Photoshop. Computer scanning techniques include image control, manipulation and enhancement of photographs and line art plus the importing and exporting of text and graphics from multiple sources. Lab fee required. (SCANS 4, 8) Prerequisite: COMM 1318 or ARTS 2356, or consent of instructor. PHTC 1351 Photojournalism I (50.0406) **COMM 1316 News Photography** (09.0401.5526) Presentation of photographic techniques used by photojournalists in newspapers, magazines, and trade publications including news, feature, sports, editorial portraits, and photo essays. Includes a study of layout design and the freelance market. Lab fee required. (SCANS 2, 5, 6, 8, 9) Prerequisite: COMM 1318 or ARTS 2356. PHTC 1353 Portraiture | [formerly PHOT 2331] (50.0406) A study of the photographic principles applied to portrait lighting, posing, printing, and subject rapport. Introduces skills to produce professional studio portraiture. Practice gained by making photographs through actual work with adult and child models. Students will learn to assume leadership roles by directing posing techniques of models and selecting proper camera lenses and backgrounds during portrait sessions. Lab fee required. (SCANS 5, 8) Prerequisite: COMM 1318 or ARTS 2356.



# **Physical and Health Education**

Faculty: Karin Carlson, chair; Chad Bell, Paul Chavez, Matt Figger, Tricia Floyd, Don Green, Pat Hodges, Scott Hyland, Orlando Ontiveroz, Jim Watkins, Rick Zimmerman.

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

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

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

Semi	ester Hrs
General Education Requirements	45
**BIOL 1406 General Biology I	4
**BIOL 1407 General Biology II	4
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	3
ENGL (sophomore level)	3
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 1314 College Algebra or higher level math	3
MATH 1342 Mathematical Statistics or higher level math	
Science (with lab)	4
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	
***Approved Electives	9
Total Semester Hours	67

<sup>\*</sup>PHED 1100 should be the first course taken in physical education.

<sup>\*\*</sup>CHEM 1311, CHEM 1312, plus CHEM 1111 and CHEM 1112, may be substituted for BIOL 1406 and BIOL 1407.

<sup>\*\*\*</sup>Electives will be selected from the following three-hour classes based on senior institution requirements: PHED 1238, PHED 2278, PHED 1304, PHED 1306, PHED 1308, PHED 1309, PHED 1321, PHED 1322, PHED 1331, PSYC 2301 and SOCI 1301.

Students majoring in exercise and sport science in preparation for a teaching career are required to take four activity classes selected from the following areas:

One class from Fitness Activities One class from Lifetime Activities One class from Team Sports One class from Aquatics

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

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

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

# **Course of Study for Associate in Science Degree**

#### **Athletic Training Option**

Semester Hrs

General Education Requirements 4
BIOL 1406 General Biology I
BIOL 1407 General Biology II
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
MATH 1314 College Algebra or higher level math
*PHED (any two one-hour activity courses)
Science (with lab)
SPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech
Elective
Major Requirements 13
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
Approved Lieutives
Total Semester Hours

<sup>\*</sup>PHED 1100 should be the first course taken in physical education.

<sup>\*\*</sup> Approved Electives: CHEM 1311, CHEM 1312, BCIS 1401, PHED 1238, PHED 1301, PHED 1331, PSYC 2301 and SOCI 1301.

The athletic training program is designed to meet the lower level requirements of the National Trainers Association and the state of Texas Licensure Act for Athletic Trainers. The program is a practical education-work experience approach to gaining the knowledge and skills needed to fulfill requirements for national certification as determined by the NATA and Texas state licensure as determined by the Texas Department of Health

The Odessa College physical education degree option in athletic training is designed to meet the first two-year needs of students interested in pursuing a career in athletic training and meeting the specific educational and practicum requirements outlined by these two organizations.

### **Fitness Activities** PHED 1100 Lifestyle Assessment and Modification (31,0501,5128) Provides learning opportunities to introduce and maintain higher education health standards. Includes assessment of cardiovascular endurance, muscular strength and endurance, flexibility, body composition. nutrition, stress and blood pressure. Students will select and participate in physical activities which will produce desired physical results. This course culminates with an individualized lifelong wellness plan. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: None. PHED 1101 Aerobic Dance (36.0108.5128) A total body conditioning program emphasizing cardiovascular endurance, muscular strength and endurance, flexibility, coordination, and muscle tone. Students will perform basic calculations to determine appropriate target heart rate zones, establish fitness goals, and select appropriate activities to attain those goals. Students will participate in a group project. An exercise log will be kept by class participants detailing time spent in aerobic activities. Students will analyze postural and nutritional habits and be encouraged to initiate healthful lifestyle changes when needed. Includes a preliminary one-time, two-hour orientation. Lab fee required. (SCANS 3, 4, 5, 9, 10) Prerequisite: None. PHED 1102 Cycling (36.0108.5128) Designed to give basic understanding of principles of cycling; includes pedal cadence, shifting, gear ratio, training safety and maintenance. Students will be required to set personal fitness goals and to monitor their progress during the course. Lab fee required. (SCANS 9, 10) Prerequisite: None. PHED 1103 Defensive Tactics (36.0108.5128) Includes lectures, demonstrations and practice in basic skills and techniques of a variety of defensive movements and protection methods. Students will learn vulnerable areas of the human body that will enable students to defend themselves against an attacker. Self-confidence and self-management will be enhanced by class participation. Lab fee required. (SCANS 9, 10) Prerequisite: None. PHED 1104 Advanced Defensive Tactics (36.0108.5128) (0-3) \_\_\_\_\_\_\_1 hour Includes lectures, demonstrations and practice in basic advanced techniques of self-protection as well as striking and delivering a variety of kicks. Self-confidence and self-management will be enhanced by class participation. Lab fee required. (SCANS 9, 10) Prerequisite: PHED 1103. PHED 1105 Gymnastics (36.0108.5128) (0-3) \_\_\_\_\_\_\_1 hour Includes instruction in performance of various gymnastics skills on all apparatus. Instruction includes flexibility and strength training as well as spotting techniques. Student will use efficient learning techniques to acquire and apply new knowledge and skills. Each student will develop self-esteem and self-management skills through participation in this class. Lab fee required. (SCANS 9, 10) Prerequisite: None.

PHED 1106 Jogging/Walking (36.0108.5128)
(0-3)
PHED 1107 Judo/Karate (36.0108.5128) (0-3)
Emphasizes basic skills and techniques of American karate. Students will learn vulnerable areas of the human body and be instructed in defensive and offensive techniques to protect oneself. Students will work in small groups and partner situations in which personal qualities will be a secondary benefit of this class. Lab fee required. (SCANS 9, 10) Prerequisite: None.
PHED 1108 Physical Conditioning, Aerobic Super Circuit (36.0108.5128)
(0-3)
PHED 1109 Physical Conditioning, Aerobic Super Circuit – Advanced (36.0108.5128) (0-3)
Combines weightlifting with aerobic activities in a structured, formatted conditioning program that trains the whole body. Orientation and physical assessments enable students to personalize their workouts and help them attain their fitness goals. Workouts are computer-monitored and instructor-enhanced. Also includes instruction in the proper techniques of training specific body areas. Includes a preliminary one-time, two-hour orientation. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: PHED 1108 or consent of the instructor. (Must be at least 16 years old.)
(0-3)
PHED 1111 Weight Training (36.0108.5128)
(0-3)
PHED 1112 Adaptive Personalized Fitness (36.0108.5128)
(0-3)
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	D 1113 Weight Training, Advanced (36.0108.5128)  (0-3)
	Continued improvement in strength and flexibility and the opportunity to develop specific muscle groups. Lab fee required. (SCANS 3, 4, 9, 10) Prerequisite: PHED 1111 or consent of the instructor.
	Lifetime Activities
	D 1114, PHED 1115, PHED 2116 Beginning, Intermediate and Advanced Horsemanship
	(0-3)
PHE	D 1116 Badminton (36.0108.5128)
	(0-3)
PHE	D 1117 Bowling (36.0108.5128)
	(0-3)
PHE	D 1118 Social Dance (36.0114.5130)
	(0-3)
PHE	D 1119 Golf (36.0108.5128)
	(0-3)
PHE	D 1120 Ice-Skating, Beginning (36.0108.5128)
	(0-3)
PHE	D 1121 Racquetball (36.0108.5128)
	(0-3)
PHE	ED 1122 Recreational Sports (36.0108.5128)
	(0-3)

HED 1123 Skiing (36.0108.7128) (0-3)	
This course is designed to prepare the student for efficient skiing techniques to apply to different of terrain/snow conditions encountered on the required ski trips during the mid-winter and/or sessions. Students should check with senior institution regarding course transferability. Specific required. (SCANS 9, 10) Prerequisite: None.	spring
HED 1124 Tennis, Beginning (36.0108.5128)	1 hau
(0-3) Emphasizes beginning skills in execution of forehand and background strokes, the serve a volley. Includes rules, strategies and etiquette in both singles and doubles. Lab fee required. (\$9, 10) Prerequisite: None.	nd the
HED 1125 Tennis, Advanced (36.0108.5128) (0-3)	1 hau
Emphasis placed on proper execution of basic strokes as well as specialty shots such as to overhead and spins. Includes competitive activities in singles and doubles. Lab fee required. (S 9, 10) Prerequisite: PHED 1124 or consent of the instructor.	he lob
HED 2120 Ice-Skating, Advanced (36.0108.5128)	4.1
(0-3)	ced or I skills: de and
outside mohawks, one-foot turns, and combinations of the above. Lab fee required. (SCANS 8, 9, 10, 11) Prerequisite: PHED 1120 or consent of instructor.	2, 5, 6
	2, 5, 6,
8, 9, 10, 11) Prerequisite: PHED 1120 or consent of instructor.  Team Sports  HED 1128 Basketball, Men's (36.0108.5128)	
8, 9, 10, 11) Prerequisite: PHED 1120 or consent of instructor.  Team Sports	1 hour eaches ms and to set
Team Sports  HED 1128 Basketball, Men's (36.0108.5128)  (0-3)	1 hour eaches ns and to ser quired
Team Sports  HED 1128 Basketball, Men's (36.0108.5128) (0-3) Presents rules of the sport while emphasizing individual and team fundamentals. The class to individuals how to contribute to a group effort and how to recognize specific basketball problem devise strategies to overcome those problems. In addition, participants are encouraged individual and team goals and exert effort necessary to accomplish those goals. Lab fee recognize specific basketball problems.	1 hoursessessessessessessessessessessessesses
Team Sports  HED 1128 Basketball, Men's (36.0108.5128)  (0-3)	1 hour eaches ns and to set quired. 1 hour eaches ns and to set quired.

## PHED 1131 Football, Touch (36.0108.5128) Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific football problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5, 9, 10) Prerequisite: None. PHED 1132 Rodeo (36.0108.5128) Presents rules of the sport while instructing individuals on the fundamentals of all rodeo events, both men's and women's individual and team. The class teaches individuals how to contribute to a group effort while encouraging individuals to excel in one specialized rodeo area. Participants are taught how to recognize and solve specific rodeo event problems. Students are also encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5, 9, 10) Prerequisite: Consent of the instructor. PHED 1133 Softball (36.0108.5128) (0-3) \_\_\_\_\_\_\_1 hour Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific softball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5, 9, 10) Prerequisite: None. PHED 1134 Volleyball (36.0108.5128) Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific volleyball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (SCANS 5, 9, 10) Prerequisite: None. Aquatics 1 PHED 1146 Red Cross Life Saving (Life Guarding) (36.0108.5128) (0-3) \_\_\_\_\_\_1 hour 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)** (0-3) \_\_\_\_\_\_1 hour 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) (0-3)	1 hour
A water conditioning program emphasizing muscle tone, strength, flexibility, coor cardiovascular endurance. This will be accomplished through participation in several activities (water polo, volleyball and basketball). Emphasis will be on basic skills, rules, a of each activity. Both individual and team effort will be stressed. Lab fee required. (SC, Prerequisite: PHED 1147 or consent of the instructor.	rdination and water sports and strategies
HED 1150 Water Aerobics (36.0108.5128) (0-3)	1 hour
Personal instruction, in an aquatic environment, which emphasizes muscle tone, stren and cardiovascular endurance. Emphasis is placed on learning exercises, calculation ind heart rates and in developing a routine. Each student will design and lead the class in tor she has developed. Includes a preliminary one-time orientation. Lab fee required. (Sign 10) Prerequisite: None.	ngth, flexibility dividual target the routine he
PHED 1152 Scuba Diving (36.0108.5328)	
(0-3)	d open water g one another
Competitive Athletics	
HED 1136 Varsity Baseball (36.0108.5128)	
(0-3)  Designed for advanced baseball players competing on collegiate level. Students will be to new knowledge and skills to improve individual and team performance. An understandir concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the	aught to apply ng of the team
HED 1137 Basketball, Varsity (36.0108.5128) (0-3)	1 hour
Designed for advanced basketball players competing on collegiate level. Students will apply new knowledge and skills to improve individual and team performance. An unders team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of	I be taught to tanding of the
PHED 1138 Golf, Varsity (36.0108.5128)	
(0-3)  Designed for advanced golfers competing on collegiate level. Students will be taught	1 hour
knowledge and skills to improve individual and team performance. An understanding concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of the	g of the team
PHED 1139 Rodeo, Varsity (36.0108.5128)	
(0-3)  Designed for advanced participants in rodeo competing on collegiate level. Students wi	1 hour
apply new knowledge and skills to improve individual and team performance. An unders team concept and team unity will be stressed. (SCANS 5, 9, 10) Prerequisite: Consent of	tanding of the
PHED 1141 Track and Field, Varsity (36.0108.5128) (0-3)	1 hour

PHED	1142 Varsity Softball (36.0108.5128)
n o	0-3)
	1171 Athletic Training Clinical Practicum I (31.0506.7128)
ii S p re b	1-20)
	2136 Varsity Baseball (36.0108.5128)
n	0-3)
	2137 Basketball, Varsity (36.0108.5128)
a	0-3)
	2138 Golf, Varsity (36.0108.5128)
È k	0-3)
PHED	2139 Rodeo, Varsity (36.0108.5128)
à	0-3)
	2141 Track and Field Varsity (36.0108.5128)
b u	0-3)
	2142 Varsity Softball (36.0108.5128)
r	0-3)

#### 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 1166 CPR for Allied Health (51.0301.5328) (0-1) \_\_\_\_\_\_1 hour Provides multi-media and skills instruction in American Red Cross CPR at the professional rescuer (those with a duty to respond) level. Emphasis is placed on individual and group skills for responsible action, decision making, and problem solving when faced with an emergency situation; utilization of knowledge necessary for special resuscitation situations; and maintenance of recognized standards of ethical care by first responders. Certification may be obtained in adult one rescuer, adult two rescuer, infant and child CPR. Complies with O.S.H.A. standards, and meets or exceeds Department of Transportation national and state requirements for first responder courses as recognized by the Texas Department of Health. Lab fee required. (SCANS 5, 7, 9, 10, 11) Prerequisites: Proof of admission into an allied health program and consent of instructor. PHED 1238 Personal Health Assessment and Strategies (31.0501.5128) (2-0) \_\_\_\_\_\_2 hours 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.

	(2-2) 3 hours
	Provides instruction in effective officiating methods and techniques for sports such as baseball basketball and track. Emphasis is placed on rules interpretation and the positive communication of tha interpretation to others, organization of rules information relative to game and tournament play and protest procedures, utilization of problem-solving techniques relevant to officiating contests, and maintenance of a positive self-image and sociability in group contest environments. Lab fee required (SCANS 5, 6, 9, 10) Prerequisite: Consent of the instructor.
PH	ED 1309 Techniques of Officiating Sports II (12.0204.5128)
	(2-2)
PΗ	ED 1321 Techniques of Coaching Sports I (31.0506.5128) (2-2)
	Provides instruction in fundamental skills of coaching, individual and team play, organization of practices, and the handling of teams during the competitive seasons of sports such as baseball, basketball and track. Emphasis is placed on the ability of the coach to teach, exercise leadership, negotiate internal team problems, organize and communicate necessary information pertinent to team success, monitor team progress, utilize problem-solving and decision-making skills, maintain ethica standards and responsibility for team actions, and clearly demonstrate skills necessary for effective communication and motivation of the team. Lab fee required. (SCANS 5, 6, 7, 9, 10, 11) Prerequisite: Consent of the instructor.
PH	ED 1322 Techniques of Coaching Sports II (31.0506.5128) (2-2)
	(2-2)
PH	ED 1331 Movement and Recreation (31.0101.5128)
	(2-2)
PH	ED 1332 Game Skills for Equestrian Sports and Recreation (31.0101.5128)
	(2-1)
РН	ED 1346 Drug Use and Abuse (51.0301.5228)
	(3-0)

#### PHED 2278 Nutrition in Exercise and Sport (31.0501.5228)

#### PHED 2376 Prevention and Care of Athletic Injuries (51.0301.5328)

## **Physical Therapist Assistant**

Faculty: Lynn Dammann, chair; Peggy Manning, academic coordinator of clinical education; Tana Pipes, paraprofessional.

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, traction, compression, 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 internships at hospitals and private clinics. These combined experiences provide students with an opportunity for educational development as well as occupational competence. Licensure of physical therapist assistants is required in the State of Texas and graduates are eligible to take the licensure examination.

Because internship space is limited, students are admitted selectively. To be considered for admission to the program, prospective students must be high school graduates or equivalent, achieve a satisfactory score on selected entrance examinations, complete BIOL 2401 Anatomy and Physiology I and BIOL 2402 Anatomy and Physiology II, have good character references, complete a specified number of volunteer or observation hours in a physical therapy 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. "d HPRS 1106. 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. The physical therapist assistant program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

Note: All physical therapist assistant students are required to have health and accident insurance and specified immunizations. Liability insurance is also required and is a part of the regular college fee schedule.

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.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

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

Promonicita Common	Semester Ars
Prerequisite Courses	
BIOL 2401 Anatomy and Physiology I	
BIOL 2402 Anatomy and Physiology II	4
First Year	
Ouroman Occasion	
Summer Session	
ENGL 1301 Composition and Rhetoric	
HPRS 1106 Medical Terminology (BIOL 1170)	
MATH 1332 Structures of College Math	3
First Semester	
COSC 1301 Introduction to Computer Systems	3
GOVT 2301 U.S. and Texas Government or	
GOVT 2302 American National Government	3
GOVT 2502 American National Government	
PTHA 1201 The Profession of Physical Therapy (PTAP 1401)	2
PTHA 1305 Basic Patient Care Skills (PTAP 1401)	
PTHA 1321 Clinical Pathophysiology (PTAP 1301)	
THA 1021 Omnodit adiophysiology (1 TAI 1001)	
Second Semester	
PHED 1166 CPR for Allied Health	
PSYC 2301 Introduction to Psychology or PSYC 2302 Applied Psy	
PTHA 1325 Communication in Health Care (PTAP 1302)	3
PTHA 1431 Physical Agents (PTAP 1502)	
SPCH 1321 Business and Professional Speech	
·	
Summer Session	
PTHA 2488 Internship I (PTAP 1441)	4
Second Year	
First Semester	
PTHA 1413 Functional Anatomy (PTAP 2401)	4
PTHA 2201 Assessment Skills (PTAP 2401/PTAP 2601)	2
PTHA 2388 Internship II (PTAP 2342)	
PTHA 2409 Therapeutic Exercise (PTAP 2601)	
1 1177 E-700 THORAPOUND EXOTOROU (1 777 E-0017	
Second Semester	
PTHA 2431 Management of Neurological Disorders (PTAP 2702)	4
PTHA 2435 Rehabilitation Techniques (PTAP 2702)	4
PTHA 2489 Internship III (PTAP 2443)	4
Total Hours	
Physical Therapist Assistant C	ourses
•	
PTHA 1201 The Profession of Physical Therapy [formerly PTAP 140	1] (51.0806)
(2-0)	2 hours
Introduction to the profession of physical therapy including the histo	
therapy. Legal aspects and ethical concepts that help prepare the s	
of the health care team and terminology used in the profession are	studied. (SCANS 1, 2, 4, 5, 6, 11)
Corequisites: PTHA 1305 and PTHA 1321.	

#### PTHA 1305 Basic Patient Care Skills [formerly PTAP 1401] (51.0806) Introduction to the theory and application of basic patient handling, functional skills, assessment techniques, and measurement techniques. Vital signs, medical asepsis, dressings and bandaging, body mechanics, bed mobility and transfers, normal sensorimotor development and developmentallybased preambulation activities and progressive gait training are studied. (SCANS 1, 2, 6, 9, 11) Corequisites: PTHA 1201 and PTHA 1321. PTHA 1321 Clinical Pathophysiology [formerly PTAP 1301] (51.0806) Study of the pathogenesis, prognosis, and therapeutic management of diseases/conditions commonly encountered in physical therapy. The ability to acquire information specific to diagnoses that affect the physical therapy treatment setting, diseases and injuries involving the musculoskeletal and neuromuscular systems, and the need for physical therapy intervention are stressed. (SCANS 1, 2, 5, 6, 11) Corequisites: PTHA 1201 and PTHA 1305. PTHA 1325 Communication in Health Care [formerly PTAP 1302] (51.0806) (3-0) \_\_\_\_\_\_\_ 3 hours Integration of communication theories and principles for optimal delivery of health care. Encompasses psychosocial aspects of health care; verbal, nonverbal and written communication skills; patientpractitioner interaction, including working with diverse patient populations throughout the life span with special emphasis on the geriatric population; and concepts of the practitioner's self-esteem and selfmanagement and their impact on the health care setting. (SCANS 1, 2, 5, 6, 7, 10, 11) Prerequisites: PTHA 1201, PTHA 1305 and PTHA 1321. Corequisite: PTHA 1431. PTHA 1413 Functional Anatomy [formerly PTAP 2401] (51.0806) Study of human anatomy and its application to the motion of the musculoskeletal system as it relates to normal activities and dysfunctions. Integration of skills related to the kinesiological assessment of the human body. Provides the student with a working knowledge of the human musculoskeletal and neuromuscular systems and an understanding of how these systems interact to produce efficient human movement. (SCANS 1, 2, 6, 11) Prerequisites: PTHA 1201, PTHA 1305, PTHA 1321, PTHA 1325, PTHA 1431 and PTHA 2488. Corequisites: PTHA 2201, PTHA 2388, and PTHA 2409. PTHA 1431 Physical Agents [formerly PTAP 1502] (51.0806) Study of the biophysical principles, assessment, and application of therapeutic physical agents with specific emphasis on indications, contraindications, medical efficacy, and physiological effects. Thermal agents, hydrotherapy, ultrasound, electromagnetic radiations, electrical current, biofeedback, traction, intermittent compression, continuous passive motion, and therapeutic massage are studied. (SCANS 1, 2, 3, 6, 8, 9, 11) Prerequisites: PTHA 1201, PTHA 1305 and PTHA 1321. Corequisite: PTHA 1325. PTHA 2201 Assessment Skills [formerly PTAP 2401/PTAP 2601] (51.0806) (1-3) \_\_\_\_\_\_2 hours Study of assessment techniques used in physical therapy to prepare the physical therapy assistant to assist physical therapy management. The acquisition of muscle function information by use of manual muscle testing; joint range of motion information by use of goniometry; gait information by use of rudimentary gait analysis; and sensory, coordination, and postural assessments are included. (SCANS 1, 2, 3, 6, 9) Prerequisites: PTHA 1201, PTHA 1305, PTHA 1321, PTHA 1325, PTHA 1431 and PTHA 2488. Corequisites: PTHA 1413, PTHA 2388 and PTHA 2409. PTHA 2388 Internship II – Physical Therapist Assistant [formerly PTAP 2342] (51.0806) An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the

college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary. This internship provides continued exposure to the clinical environment. Students observe and utilize skills obtained in the classroom and laboratory. Provides opportunities for selecting and applying procedures and equipment, improving decision-making, problem-solving and reasoning abilities. Consists of a two day per week experience for twelve weeks under close supervision by a licensed physical therapist or licensed physical therapist assistant. (SCANS 1, 2, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: PTHA 1201, PTHA 1305, PTHA 1321, PTHA 1325, PTHA 1431 and PTHA 2488. Corequisites: PTHA 1413, PTHA 2201 and PTHA 2409.

#### PTHA 2409 Therapeutic Exercise [formerly PTAP 2601] (51.0806)

#### PTHA 2431 Management of Neurological Disorders [formerly PTAP 2702] (51.0806)

#### PTHA 2435 Rehabilitation Techniques [formerly PTAP 2702] (51.0806)

#### PTHA 2488 Internship I – Physical Therapist Assistant [formerly PTAP 1441] (51.0806)

#### PTHA 2489 Internship III - Physical Therapist Assistant [formerly PTAP 2443] (51.0806)

An experience external to the college for an advanced student in a specialized field involving a written agreement between the educational institution and a business or industry. Mentored and supervised by a workplace employee, the student achieves objectives that are developed and documented by the college and that are directly related to specific occupational outcomes. This may be a paid or unpaid experience. This course may be repeated if topics and learning outcomes vary. This internship provides the final clinical experience. Consists of a six-week, full-time experience designed as a capstone experience to simulate an actual working environment. Students observe and utilize skills obtained in the classroom and laboratory. Provides opportunities for selecting and applying procedures and equipment, improving decision-making, problem-solving and reasoning abilities. The student will be able to improve upon the skills already learned and additional techniques specific to individual facilities. Close supervision by a licensed physical therapist or licensed physical therapist assistant is required. Upon completion of this internship, an additional capstone experience in the form of a mock state board exam is included. (SCANS 1, 2, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: PTHA 1201, PTHA 1305, PTHA 1321, PTHA 1325, PTHA 1413, PTHA 1431, PTHA 2201, PTHA 2388, PTHA 2409, and PTHA 2488. Corequisites: PTHA 2431 and PTHA 2435.

#### **Physics**

Faculty: G. Brent McAfee, chair; Dr. Ashok Khosla.

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

## Course of Study for Associate in Science Degree Physics

•	Semester Hrs
General Education Requirements	56
COSC 1415 Introduction to Computer Science	4
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign language sequence 1411, 1412, 2311, 2312	
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 2313 Calculus I	
MATH 2314 Calculus II	
MATH 2315 Calculus III	3
MATH 2320 Differential Equations	
PHED (any two one-hour activity courses)	2
SPCH 1315 Public Speaking	
Major Requirements	8
PHYS 2425 Engineering Physics I	4
PHYS 2426 Engineering Physics II	4
Total Semester Hours	64

<sup>\*</sup>Prerequisite to MATH 2313 should be taken during the summer prior to freshman enrollment. Students with strong mathematics background should consider advanced standing examinations.

#### **PHYSICS** 257 PHYS 1401 College Physics I (40.0801.5339) A study of classical mechanics, molecular physics, and heat with applications. Recommended for students of medicine, dentistry, veterinary medicine, optometry, biology, and architecture. The student will be involved in reading information or problems and using critical-thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite: Passed all sections of the TASP exam and have a working knowledge of algebra and trigonometry. PHYS 1402 College Physics II (40.0801.5339) (3-3) 4 hours A study of classical electricity, magnetism, mechanical wave motion, optics, and practical aspects of modern physics. The student will be involved in reading information or problems and using criticalthinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite: PHYS 1401. PHYS 2425 Engineering Physics I (40.0801.5439) A study of classical mechanics, and thermodynamics for students aspiring to professional academic degrees in the fields of physical science, various engineering specialties, and mathematics. The student will be involved in reading information or problems and using critical thinking skills and mathematics to organize the information or to arrive at an answer; also requires student writing skills in order to communicate the information acquired in a written format. Lab fee required. (SCANS 1, 3, 6, 9) Prerequisite or corequisite: MATH 2313. 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 university curricula.

## Course of Study for Associate in Arts Degree Psychology or Sociology

9	Semester Hrs
General Education Requirements	53
COSC 1415 Introduction to Computer Science	4
ENGL 1301 Composition and Rhetoric	3
ENGL 1302 Composition and Literature	3
ENGL (sophomore level)	6
General Education Elective	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
Lab Sequence in BIOL, CHEM, GEOL or PHYS	8
MATH 1332 Structures of College Mathematics I	3
MATH 1333 Structures of College Mathematics II	
PHED (any two one-hour activity courses)	2
PHIL 2306 Introduction to Philosophy II	3
SPCH 1315 Public Speaking	3

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

Current Issues in Psychology.

#### **Psychology Option**

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Major Requirements	12
PSYC 2301 Introduction to Psychology	
PSYC 2302 Applied Psychology	3
PSYC 2308 Child Psychology	
SOCI 1301 Principles of Sociology	
Total Semester Hours	65
Note: The following electives may be substituted for above courses to accommodate	e the transferring
institution: PSYC 2303 Business Psychology, PSYC 2306 Human Sexuality, PSYC 2314	Lifespan Growth
and Development, PSYC 2315 Psychology of Adjustment, PSYC 2319 Social Psychology	and PSYC 2340

Major Requirements 12 SOCI 1301 Principles of Sociology 3 SOCI 306 Social Problems 3 SOCI 2306 Social Psychology 3 SOCI 2306 Social Psychology 3 SOCI 2308 Social Psychology 3 SOCI 2306 Human Sexuality and SOCI 2371 Fundamental Research Design.  Course of Study for Associate in Science Degree Psychology  General Education Requirements SEMBOL 1406 General Biology 1 SOCI 2301 Sociology II 4 SOCI 2302 American National Government 3 SOCI 2301 Sociology II 4 SOCI 2302 American National Government 3 SOCI 1301 Principles of Sociology II 4 SOCI 2302 American National Chemistry I Fundamentals of Chemistry Lab II 4 SOCI 2302 American National Chemistry I Fundamentals of Chemistry Lab II 4 SOCI 2302 American National Government 3 SOCI 2302 American National Government 3 SOCI 2302 American National Government 3 SOCI 2302 American National Socience	Sociology Option	
SOCI 1301 Principles of Sociology SOCI 1306 Social Problems SOCI 2326 Social Psychology 3 SOCI 2326 Social Psychology 3 SOCI 2306 Social Psychology 3 Total Semester Hours Social Psychology Social Semester Hours Social Semester Hours Social Semester Hours Course of Study for Associate in Science Degree Psychology Semester Hrs  General Education Requirements Social Semester Hrs BIOL 1406 General Biology I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I CHEM 1310 Composition and Rhetoric SENGL 1302 LS. History to 1877 SHIST 1302 LS. History to 1870 SEMESTER Hrs  General Education Requirements SENGL 1301 Principles of Sociology SEMESTER Hrs  General Education Requirements SENGL 1302 Composition and Rhetoric SENGL 1302 Com	Major Requirements	
SOCI 1306 Social Problems	SOCI 1301 Principles of Sociology	3
SOCI 2326 Social Psychology 3 PSVC 2301 Introduction to Psychology 3 Total Semester Hours   Social Sesarch Design.  Course of Study for Associate in Science Degree   Psychology  Semester Hrs   Semester Hrs   BIOL 1406 General Biology I   Social Semester Hrs   Semester Hrs   Social Semester Hours   Social Semester Hours   Social Semester Hrs   Social Semester Hours   Social Semester Hours   Social Semester Hours   Social Semester Hrs   Social Semester Hrs   Social Semester Hrs   Social Semester Hours   Social Semester Hours   Social Semester Hours   Social Semester Hrs   Social Semester Hours   Social Semester Hrs   Social Semester Hrs	SOCI 1306 Social Problems	3
Total Semester Hours	SOCI 2326 Social Psychology	3
Note: The following electives may be substituted for above courses to accommodate the transferring institutions. SOCI 2301 Sociology of the Family, SOCI 2306 Human Sexuality and SOCI 2371 Fundamental Research Design.  Course of Study for Associate in Science Degree Psychology  Semester Hrs  General Education Requirements	PSYC 2301 Introduction to Psychology	3
Psychology	Note: The following electives may be substituted for above courses to accommodate institution: SOCI 2301 Sociology of the Family, SOCI 2306 Human Sexuality and SOCI 237	the transferring
Semester Hrs   Seme	Course of Study for Associate in Science Degre	е
Seneral Education Requirements   52	Psychology	
BIOL 1406 General Biology I	• ••	Semester Hrs
BIOL 1407 General Biology	General Education Requirements	52
CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I		
CHEM 1312/1112 General Inorganic Chemistry II Fundamentals of Chemistry Lab II		
ENGL 1301 Composition and Rhetoric   3	CHEM 1312/1112 General Inorganic Chemistry II Fundamentals of Chemistry Lab II	4
ENGL 1302 Composition and Literature		
ENGL (sophomore level)   3   GOVT 2301 U.S. and Texas Government   3   GOVT 2302 American National Government   3   3   GOVT 2302 American National Government   3   3   HIST 1301 U.S. History to 1877   3   HIST 1302 U.S. History from 1877   3   MATH 1314 College Algebra or more advanced   3   MATH 1342 Mathematical Statistics   3   MATH 1342 Mathematical Statistics   3   PHED (any two one-hour activity courses)   2   SPCH 1321 Business and Professional Speech   3   SPCH 1321 Business and Professional Speech   3   SPCH 1321 Business and Professional Speech   3   SPYC 2301 Introduction to Psychology   3   PSYC 2302 Applied Psychology   3   PSYC 2308 Child Psychology   3   SOCI 1301 Principles of Sociology   3   SOCI		
GOVT 2301 U.S. and Texas Government   3	FNGL (sophomore level)	3
GOVT 2302 American National Government		
HIST 1302 U.S. History from 1877   3		
MATH 1314 College Algebra or more advanced       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2         SPCH 1321 Business and Professional Speech       3         Major Requirements       12         PSYC 2301 Introduction to Psychology       3         PSYC 2308 Child Psychology       3         PSYC 2308 Child Psychology       3         SOCI 1301 Principles of Sociology       3         Sociology         Semester Hours         Course of Study for Associate in Science Degree         Sociology         Semester Hrs         General Education Requirements       52         BIOL 1406 General Biology I       4         BIOL 1406 General Biology I       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       4         COSC 1415 Introduction to Computer Science       4         ENGL 1301 Composition and Rhetoric       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2301 U.		
MATH 1342 Mathematical Statistics 3 PHED (any two one-hour activity courses) 2 SPCH 1321 Business and Professional Speech 3  Major Requirements 12 PSYC 2301 Introduction to Psychology 3 PSYC 2302 Applied Psychology 3 PSYC 2308 Child Psychology 3 SOCI 1301 Principles of Sociology 3 SOCI 1301 Principles of Sociology 3 Total Semester Hours 64  Course of Study for Associate in Science Degree Sociology 5  BIOL 1406 General Biology 1 4 BIOL 1407 General Biology 1 4 BIOL 1407 General Biology I 4 CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab 1 4 CHEM 1312/1112 General Inorganic Chemistry II Fundamentals of Chemistry Lab II 4 COSC 1415 Introduction to Computer Science 4 ENGL 1301 Composition and Rhetoric 3 ENGL (sophomore level) 3 ENGL (sophomore level) 3 GOVT 2302 American National Government 3 GOVT 2302 American National Government 3 HIST 1301 U.S. History from 1877 3 HIST 1302 U.S. History from 1877 3 MATH 1314 College Algebra of higher level math 3 MATH 1342 Mathematical Statistics 3 PHED (any two one-hour activity courses) 2		
PHED (any two one-hour activity courses)   2   SPCH 1321 Business and Professional Speech   3   3	MATH 1314 College Algebra or more advanced	3
SPCH 1321 Business and Professional Speech		
Major Requirements         12           PSYC 2301 Introduction to Psychology         3           PSYC 2302 Applied Psychology         3           PSYC 2308 Child Psychology         3           SOCI 1301 Principles of Sociology         3           Total Semester Hours         64           Course of Study for Associate in Science Degree Sociology           Semester Hrs           General Education Requirements         52           BIOL 1406 General Biology I         4           BIOL 1407 General Biology II         4           CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab I         4           CHEM 1312/11112 General Inorganic Chemistry II Fundamentals of Chemistry Lab II         4           COSC 1415 Introduction to Computer Science         4           ENGL 1301 Composition and Rhetoric         3           ENGL 1302 Composition and Literature         3           ENGL (sophomore level)         3           GOVT 2301 U.S. and Texas Government         3           GOVT 2302 American National Government         3           HIST 1301 U.S. History to 1877         3           HIST 1302 U.S. History from 1877         3           MATH 1314 College Algebra or higher level math         3           MATH		
PSYC 2301 Introduction to Psychology	, ,	
PSYC 2302 Applied Psychology       3         PSYC 2308 Child Psychology       3         SOCI 1301 Principles of Sociology       3         Total Semester Hours       64         Course of Study for Associate in Science Degree Sociology         Semester Hrs         General Education Requirements       52         BIOL 1406 General Biology I       4         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       4         COSC 1415 Introduction to Computer Science       4         ENGL 1301 Composition and Rhetoric       3         ENGL 1302 Composition and Literature       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History from 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra or higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2	Major Requirements	12
PSYC 2308 Child Psychology	PSYC 2301 Introduction to Psychology	دع
SOCI 1301 Principles of Sociology	PSYC 2308 Child Psychology	3
Total Semester Hours		
Course of Study for Associate in Science Degree Sociology           Semester Hrs           General Education Requirements         52           BIOL 1406 General Biology I         4           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         4           COSC 1415 Introduction to Computer Science         4           ENGL 1301 Composition and Rhetoric         3           ENGL 1302 Composition and Literature         3           ENGL (sophomore level)         3           GOVT 2301 U.S. and Texas Government         3           GOVT 2302 American National Government         3           HIST 1301 U.S. History to 1877         3           HIST 1302 U.S. History from 1877         3           MATH 1314 College Algebra or higher level math         3           MATH 1342 Mathematical Statistics         3           PHED (any two one-hour activity courses)         2	· · · · · · · · · · · · · · · · · · ·	
BIOL 1406 General Biology I       4         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       4         COSC 1415 Introduction to Computer Science       4         ENGL 1301 Composition and Rhetoric       3         ENGL 1302 Composition and Literature       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History to 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra or higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2	Course of Study for Associate in Science Degre Sociology	e Semester Hrs
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 4 COSC 1415 Introduction to Computer Science 4 ENGL 1301 Composition and Rhetoric 3 ENGL 1302 Composition and Literature 3 ENGL (sophomore level) 3 GOVT 2301 U.S. and Texas Government 3 GOVT 2302 American National Government 3 HIST 1301 U.S. History to 1877 3 HIST 1302 U.S. History from 1877 3 MATH 1314 College Algebra or higher level math 3 MATH 1342 Mathematical Statistics 3 PHED (any two one-hour activity courses) 2	BIOL 1406 General Biology I	4
CHEM 1312/1112 General Inorganic Chemistry II Fundamentals of Chemistry Lab II 4 COSC 1415 Introduction to Computer Science 4 ENGL 1301 Composition and Rhetoric 3 ENGL 1302 Composition and Literature 3 ENGL (sophomore level) 3 GOVT 2301 U.S. and Texas Government 3 GOVT 2302 American National Government 3 HIST 1301 U.S. History to 1877 3 HIST 1302 U.S. History from 1877 3 MATH 1314 College Algebra of higher level math 3 MATH 1342 Mathematical Statistics 3 PHED (any two one-hour activity courses) 2	BIOL 1407 General Biology II	4
COSC 1415 Introduction to Computer Science       4         ENGL 1301 Composition and Rhetoric       3         ENGL 1302 Composition and Literature       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History to 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra of higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2	CHEM 1311/1111 General Inorganic Chemistry I Fundamentals of Chemistry Lab II.	4 1
ENGL 1301 Composition and Rhetoric       3         ENGL 1302 Composition and Literature       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History to 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra of higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2	COSC 1415 Introduction to Computer Science	4
ENGL 1302 Composition and Literature       3         ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History to 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra or higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2	FNGL 1301 Composition and Rhetoric	3
ENGL (sophomore level)       3         GOVT 2301 U.S. and Texas Government       3         GOVT 2302 American National Government       3         HIST 1301 U.S. History to 1877       3         HIST 1302 U.S. History from 1877       3         MATH 1314 College Algebra or higher level math       3         MATH 1342 Mathematical Statistics       3         PHED (any two one-hour activity courses)       2		
GOVT 2302 American National Government	ENGL (sophomore level)	3
HIST 1301 U.S. History to 1877		
HIST 1302 U.S. History from 1877		
MATH 1314 College Algebra or higher level math 3 MATH 1342 Mathematical Statistics 3 PHED (any two one-hour activity courses) 2	HIST 1301 U.S. History to 1877	3
MATH 1342 Mathematical Statistics	MIST 1302 U.S. HISTORY from 18//	3ع
	MATH 1342 Mathematical Statistics	3

	12
SOCI 1301 Principles of Sociology	
SOCI 1306 Social Problems	
SOCI 2326 Social Psychology	
PSYC 2301 Introduction to Psychology	
tal Compater Harris	64
otal Semester Hours	04
Psychology Courses	
SYC 2301 Introduction to Psychology (42.0101.5140)	
(3-0)(3-0)	3 hours
Presents a basic understanding of psychological terms, theories, and methodologies in discipline that studies behavior and mental processes. Cognitive abilities such as prodecision making, and communication, affective states like building self-esteem and subehavioral events, where one participates as a group member, are explored. Information interpretation, and communication of a psychological nature are the basis on which predicated. In this way, psychological principles are understandable in the context of biomeurotransmitters and hormones, personality theory, learning principles, life-span relationships, abnormal psychology, and therapies. A wide application of a variety of top of this introductory course. (SCANS 5, 6, 9, 10, 11) Prerequisite: None.	oblem solving, sociability, and on acquisition, this course is logy, the brain, development,
SYC 2302 Applied Psychology (42.0101.5240) (3-0)	3 hours
Presents a wide array of interpersonal challenges relating to the workplace. Criti competencies include leadership, negotiation, team building, cohesiveness, and containing the interrelationships of organizational behavior across the spectrum from our property of the containing the interrelationships of organizational behavior across the spectrum from our property of the containing the contain	ommunication. Ir similarities to
our diversities is a major focus. Personal qualities that reinforce job success such as sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.	ed situations to
sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.  SYC 2303 Business Psychology (42.0101.5240)	ed situations to 5, 6, 7, 9, 10)
sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.	ed situations to 5, 6, 7, 9, 10) 3 hours d to Industrial/ science of I/O namics, conflict on, motivation,
sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.  SYC 2303 Business Psychology (42.0101.5240)  (3-0)	ed situations to 5, 6, 7, 9, 10) 3 hours d to Industrial/ science of I/O namics, conflict on, motivation, itive strategies
sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.  SYC 2303 Business Psychology (42.0101.5240)  (3-0)	ed situations to 5, 6, 7, 9, 10)
sociability, self-management, and workplace ethics are presented in practical, job-relate enhance the student's job future as an effective and valued employee. (SCANS 5 Prerequisite: None.  SYC 2303 Business Psychology (42.0101.5240) (3-0)  Through the presentation of workplace interpersonal skills students are introduced Organization Psychology. Taking an integrative and eclectic approach to the art and psychology, the following topics will be addressed: organizational bahavior, group dyn resolution, politics, sabotage and scapegoating, workplace romance, communication personality variables, leadership, and stress and adaptation. Students will apply cognit to real-life workplace scenarios. (SCANS 5, 6, 7, 9, 10) Prerequisite: None.  SYC 2306 Human Sexuality (42.0101.5342) (3-0)  An in-depth study of human sexuality across the life cycle utilizing legal, ethical, sociolog and psychological perspectives. Course incorporates current research and theories impact of social and cultural expectations on human sexual behavior. (SCANS	ed situations to 5, 6, 7, 9, 10)

#### PSYC 2314 Lifespan Growth and Development(42.0701.5140) Presents the growth and developmental stages of prenatal, birth, childhood adolescence, young and middle adulthood, old age and death. Focuses on biological/genetic and environmental influences on cognitive, physical, and socioemotional/psychological development. Involves observations of, and interactions with, people in different human life-span stages. (SCANS 6) Prerequisite: None. PSYC 2315 Psychology of Adjustment (42.0101.5640) (3-0) \_\_\_\_\_\_3 hours Adjustment to life's difficult side is the focus of this course. Effectively managing one's time in the face of stress and time constraints, coping with a diversity of perception from others, interpreting and communicating information from others in different social settings provides students with a wide application of psychological information. In more tangential ways, personal qualities such as responsibility in the face of conflict and frustration will be addressed, along with self-management, and communication of problems and concerns to others that often present barriers to healthy adjustment. (SCANS 4, 5, 6, 9, 10, 11) Prerequisite: None. **PSYC 2319 Social Psychology** (42.1601.5142) Presents methodologies and research dealing with human behavior in social situations. Interpersonal abilities, being a team member, leadership roles, and adjustment to diversity are a major focus. Problem solving in groups, communicating with others, self-management skills, and responsibility as psychosocial attributes will be addressed. The way society's institutions, group affiliations, and group dynamics influence an individual's behavior is the emphasis of this course. (SCANS 5, 9, 10, 11) Prerequisite: None. PSYC 2340 Current Issues in Psychology [formerly PSYC 2371] (42.0101.5540) Designed for psychology majors. Current Issues provides the psychology major with an in-depth analysis of topics that will be required in specific courses offered at the university junior and senior level. Information acquisition, interpretation, and critical thinking in the following areas are highlighted: neuropsychology, brain, hormones, and neurotransmitters; cognitive and behavioral psychology and learning theory, abnormal psychology, social psychology and psychosocial influences in group dynamics, as well as an understanding of gender differences in relationships, and human sexuality. Cognitive abilities, problem solving, group dynamics, and interpersonal communication are competencies that students are required to demonstrate, (SCANS 5, 6, 9, 10, 11) Prerequisite: PSYC 2302; additional 3 hours of psychology courses and consent of department chair. **Sociology Courses SOCI 1301 Principles of Sociology** (45.1101.5142) Introduces the student to sociological concepts, theories and new ways of thinking about social issues such as poverty, inequality and deviance. Examines various social institutions and their contributions to social life; identifies the social groups that make up society; and explores the significance of culture and social structure for understanding human behavior. Telecourse and self-paced courses also available. (SCANS 6, 9) Prerequisite: None. **SOCI 1306 Social Problems** (45.1101.5242) (3-0) \_\_\_\_\_\_\_3 hours Critically analyzes the causes of social policy, responses to and implications of numerous social problems utilizing a sociological imagination. Course includes field trips and guest speakers to obtain firsthand knowledge of social problems and to meet professionals who work directly with them. The course is designed to introduce students to social problems as well as to stimulate critical thinking about

problems and their solutions. (SCANS 5, 6, 7, 9, 10, 11) Prerequisite: None.

#### **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

## 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 other courses, or they will be dropped from the program. Prior to entering the practicum portion of the program, students are required to complete a physical examination, which includes drug screening. Background checks are required for all applicants.

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 application packets for admission by April 30, for review by the admissions committee.

Note: Students must obtain and maintain a policy of health and accident insurance throughout their enrollment. Students must purchase liability insurance at the beginning of each semester.

Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Radiologic Technology

Summer Session II	Semester Hrs
MATH 1332 Structures of College Mathematics or higher level math	3
*RADR 1301 Introduction to Radiography (XRAY 1304)	3
RADR 1311 Basic Radiographic Procedures (XRAY 1314)	3
First Year	
First Semester	
BIOL 2404 Human Anatomy and Physiology	
RADR 1266 Practicum I (XRAY 1221)	
RADR 1303 Patient Care (XRAY 1301)	
RADR 2301 Intermediate Radiographic Procedures (XRAY 1111/2201)	
RADR 2309 Radiographic Imaging Equipment (XRAY 1401)	3
Second Semester	
PHED (any one-hour activity course)	
RADR 1313 Principles of Radiographic Imaging I (XRAY 1402)	
RADR 1366 Practicum II (XRAY 1322)	
RADR 2305 Principles of Radiographic Imaging II (XRAY 2202)	3
RADR 2431 Advanced Radiographic Procedures (XRAY 1112/2201)	4
Summer Sessions	
Summer Session I	
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Govern	nment 3
RADR 1367 Practicum III (XRAY 1323)	
Summer Session II	•
SPCH 1321 Business and Professional Speech	3
Second Year	
First Semester	
COSC 1301 Introduction to Computer Systems	
RADR 2217 Radiographic Pathology (XRAY 1301)	
RADR 2333 Advanced Medical Imaging (XRAY 2401)	3
RADR 2366 Practicum IV (XRAY 2321)	3
Second Semester	
ENGL 1301 Composition and Rhetoric	3
RADR 1291 Special Topics in Medical Radiologic Technology	2
RADR 2313 Radiation Biology and Protection (XRAY 2402)	
RADR 2367 Practicum V (XRAY 2322)	3
Summer Session I	
RADR 1167 Practicum VI (XRAY 2323)	1
RADR 2235 Radiologic Technology Seminar (XRAY 2323)	2
Total Hours	72
*Note: RADR 1301 may not make during Summer Session II (this class is also offered in the	spring semester
on Tuesday and Thursday from 6-7:20 p.m.). RADR 1301 is open to anyone considering a ca technology.	

#### **Radiologic Technology Courses**

#### RADR 1167 Practicum VI – Medical Radiologic Technology/Technician [formerly XRAY 2323] (51.0907) (0-8) \_\_\_\_\_\_1 hour Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. 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: performance of all duties required of a registered radiologic technologist to include patient positioning, technical factor selection, interpersonal communication skills and film critique (film evaluation regarding anatomy, positioning and technical factors); reading and understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographs on patients with the required supervision; ability to prioritize and organize activities necessary to complete examinations; completion of necessary paperwork (some on computer) related to radiographic examinations performed; assisting radiologist with fluoroscopic examinations; demonstrating specific exams with a model (performance evaluation). Includes the following clinical rotations: ultrasound, nuclear medicine, radiation therapy and quality assurance. (SCANS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: RADR 2367. Corequisite: RADR 2235.

#### RADR 1266 Practicum I - Medical Radiologic Technology/Technician [formerly XRAY 1221] (51.0907) (0-16) \_\_\_\_\_\_\_2 hours Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. Introduces the clinical environment at a major facility. Requires observing operation of the X-ray department while rotating through different work areas. Student participates as a team member while learning to develop and utilize good interpersonal communication skills, better enabling the student to meet patients needs. Competencies include: the production of standard radiographs of the chest, abdomen and upper and lower extremities to include film critique (film evaluation regarding anatomy, positioning and technical factors); reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment when producing standard radiographs on patients with direct supervision (pre-competency) and indirect supervision (post-competency); demonstrate ability to prioritize and organize activities necessary to complete examinations; evaluate and correct performance. in the presence of a technologist, following a discussion identifying the problem and solution; completion of necessary paperwork (some on computer) related to radiographic examinations performed; demonstration of specific exams with a model (performance evaluation) is required. Presents clinical introduction to fluoroscopic examination and film critique. (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1303, RADR

#### RADR 1301 Introduction to Radiography [formerly XRAY 1304] (51.0907)

2301, and RADR 2309.

This course includes the historical development of radiography, basic radiation protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the program and the health care system. The student will define basic medical terms; exhibit ethical and legal standards; demonstrate basic radiation protection practices; identify chemicals and steps in radiographic film processing (darkroom procedures); demonstrate a basic understanding of radiographic equipment and auxiliary devices; identify the prime exposure factors and relate the role of radiography to health care. (SCANS 1, 2,3, 6, 9, 10) Prerequisite: None. Corequisite: RADR 1311.

#### **RADR 1303 Patient Care** [formerly XRAY 1301] (51.0907)

#### RADR 1311 Basic Radiographic Procedures [formerly XRAY 1314] (51.0907)

#### RADR 1313 Principles of Radiographic Imaging I [formerly XRAY 1402] (51.0907)

#### RADR 1366 Practicum II – Medical Radiologic Technology/Technician [formerly XRAY 1322] (51.0907)

Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. 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 patient's needs. Competencies include: production of standard radiographs of the chest, abdomen and upper and lower extremities with indirect supervision (post-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 (precompetency) and 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 related to radiographic examinations performed; assisting radiologist with fluoroscopic examinations and demonstrating specific examinations with a model (performance evaluation). (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: RADR 1266. Corequisites: RADR 1313, RADR 2305, and RADR 2431.

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Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. 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 patient's needs. Competencies include: discussion and demonstration of all standard radiographic positions, with direct supervision (pre-competency) and 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 the computer) related to radiographic examinations performed; assisting radiographers in obtaining radiographs on trauma patients; assisting radiologist with fluoroscopic examinations and demonstrating specific exams with a model (performance evaluation). Includes the following in clinical rotations: special procedures, CT, breast imaging, magnetic resonance, quality assurance and heart catherization. (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: RADR 1366.

#### RADR 2217 Radiographic Pathology [formerly XRAY 1301] (51.0907)

#### RADR 2235 Radiologic Technology Seminar [formerly XRAY 2323] (51.0907)

#### RADR 2301 Intermediate Radiographic Procedures [formerly XRAY 1111/XRAY 2201] (51.0907)

#### RADR 2305 Principles of Radiographic Imaging II [formerly XRAY 2202] (51.0907)

#### RADR 2309 Radiographic Imaging Equipment [formerly XRAY 1401] (51.0907) A study of the equipment and physics of X-ray production, basic X-ray circuits, and the relationship of equipment components to the imaging process. The student will describe the equipment and physics of X-ray circuits, and the relationship of equipment components to the imaging process. (SCANS 1, 2, 3, 6, 8, 11) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1266, RADR 1303 and RADR 2301. RADR 2313 Radiation Biology and Protection [formerly XRAY 2402] (51.0907) A study of the effects of radiation exposure on biological systems, typical medical exposure levels. methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. Presents a review of atomic physics. The student must write and present a term paper. The student will describe the production of x-radiation, the biophysical mechanisms of radiation damage and the somatic and genetic effects of radiation exposure on humans; state typical dose ranges for routine radiographic procedures; explain basic methods and instruments for radiation monitoring, detection, and measurement; and apply appropriate radiation protection practices. (SCANS 1, 2, 3, 6, 7, 9, 11) Prerequisite: RADR 2333. Corequisites: RADR 1291 and RADR 2367. RADR 2333 Advanced Medical Imaging [formerly XRAY 2401] (51.0907) An introduction to the use of computers in medical imaging and a survey of specialized imaging modalities. Includes neuroradiography, digital X-ray imaging, computer tomography, angiography, arteriography, foreign body localization, stereoradiography and interventional procedures. The student will explain the use of computers in medical imaging; describe the various specialized imaging modalities; and differentiate between images produced by different modalities and identify the anatomy demonstrated. (SCANS 1, 2, 6) Prerequisites: RADR 1313, RADR 2305, RADR 2309 and RADR 2431. Corequisites: RADR 2217 and RADR 2366. RADR 2366 Practicum IV - Medical Radiologic Technology/Technician (formerly XRAY 2321) (51.0907) Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. 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) and 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; and demonstrating specific examinations with a model (performance evaluation). Includes the following clinical rotations: special procedures, computerized tomography, breast imaging, magnetic resonance,

cardiac catherization laboratory, ultrasound, nuclear medicine, radiation therapy and quality assurance. (SCANS 1, 4, 5, 6, 7, 8, 9, 10, 11) Prerequisite: RADR 1367. Corequisites: RADR 2217 and RADR 2333.

Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences will be unpaid. This course may be repeated if topics and learning outcomes vary. 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 patient's needs. Competencies include: discussion and demonstration of all standard radiographic positions and ability to produce radiographs on trauma patients, with direct supervision (pre-competency) and 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 examinations with a model (performance evaluation). Includes the following clinical rotations: ultrasound, nuclear medicine, radiation therapy and quality assurance. (SCANS 1, 4, 5, 8, 11) Prerequisite: RADR 2366. Corequisites: RADR 1291 and RADR 2313.

#### RADR 2431 Advanced Radiographic Procedures [formerly XRAY 1112/XRAY 2201] (51.0907)

#### Reading

Faculty: Pam Williamson, chair; Tammy Patni, Mona Sandlin.

An effective citizen must read well; therefore, reading courses develop efficient tools for use in both the academic and workplace environment. All 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.

#### **READ 0371 Basic Reading (32.0108.5235)** Initiates instruction in developmental reading with emphasis on building vocabulary, increasing reading rate, and improving comprehension. Aims to empower students with independent learning techniques and effective study skills to enhance self-esteem and reaffirm the belief in self as a successful learner. Includes individual diagnosis of reading strengths and weaknesses for placement in multi-leveled materials. Lab fee required. (SCANS 1, 9, 10) Prerequisite: None or placement by counselors. **READ 0372 College Reading** (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 iob 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 or placement by counselors. READ 0373 Advanced College Reading (32.0108.5235) Continues independent work to maintain improved critical reasoning skills designed to meet specific needs in comprehension, vocabulary, reading rate, and study skills. The student monitors and corrects ineffective behavior as he assesses himself accurately, sets personal goals, and monitors progress. Lab fee required. (SCANS 1, 7, 9, 10) Prerequisite: READ 0372 passed with a "C" or better, satisfactory placement score or reading faculty approval. **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. 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 Maintenance Technologies) Religion (see Social Sciences)

## **Respiratory Care**

Faculty: Jacque Sullivan, chair; Rhonda McMurrian, clinical coordinator; Gloria Hearne, Dr. John Bray, medical director.

Odessa College offers an intensive program, which prepares the student to become an integral part of the allied health team. The program graduates a student with an associate of applied science degree and qualifies them to apply for the Certified Respiratory Therapist (CRT) examination administered by the National Board for Respiratory Care.

The curriculum balances general educational and technical courses with supervised clinical practice in conjunction with area medical affiliates. These combined experiences provide students with an opportunity for educational development as well as occupational competence during the 24-month program.

Students are admitted on a selected basis due to limited space in the clinical area of study. To be considered for admission to the program, a prospective student must be a high school graduate or equivalent, achieve a satisfactory score on selected entrance exams, complete a hospital observation, and be approved by the admissions committee. After acceptance into the program, all students are required to maintain a grade of "C" or better in all respiratory care courses 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 described in the catalog. Prior to entering the clinical portion of the program, students are required to complete a physical examination, including drug screening, and provide records of current immunization status.

Note: All respiratory care students are required to have health and accident insurance. Liability insurance is also required and is part of the regular college fee schedule.

The Odessa College respiratory care program is accredited by the Committee on Accreditation of Allied Health Programs through the recommendations of the Committee on Accreditation of Respiratory Care.

Students wishing to apply or seeking additional information should contact the Counseling Center. Prospective students are to submit their applications for admission prior to March 31.

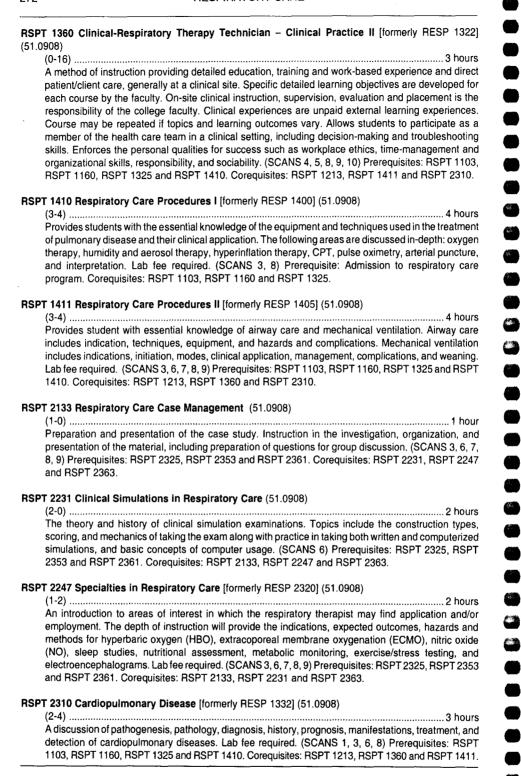
Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Respiratory Therapy

#### First Year

	Semester Hrs
BIOL 2401 Anatomy and Physiology I	4
MATH 1332 Structures of College Math or higher level math	3
Summer Session II	
BIOL 2402 Anatomy and Physiology II	4
Fall Semester	
COSC 1301 Introduction to Computer Systems	
PHED 1166 CPR for Allied Health	
RSPT 1103 Medical Terminology	
RSPT 1160 Clinical Practice I (RESP 1111)	
RSPT 1325 Respiratory Care Sciences (RESP 1301)	3
RSPT 1410 Respiratory Care Procedures I (RESP 1400)	4
Spring Semester	
RSPT 1213 Basic Respiratory Care Pharmacology (RESP 1115)	2
RSPT 1360 Clinical Practice II (RESP 1322)	3
RSPT 1411 Respiratory Care Procedures II (RESP 1405)	4
RSPT 2310 Cardiopulmonary Disease (RESP 1332)	3
SPCH 1321 Business and Professional Speech	3

nmer Sessions I & II	
RSPT 2314 Mechanical Ventilation (RESP 1310)	
RSPT 2360 Clinical Practice III (RESP 2352)	3
Second Year	
Semester	
BIOL 2420 Microbiology	4
RSPT 2325 Cardiopulmonary Diagnostics (RESP 2315)	
RSPT 2353 Neonatal/Pediatric Cardiopulmonary Care (RESP 2364)	
RSPT 2361 Clinical Practice IV (RESP 2352)	3
ing Semester	
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	
RSPT 2133 Respiratory Care Case Management	1
RSPT 2231 Clinical Simulations in Respiratory Care	
RSPT 2247 Specialties in Respiratory Care (RESP 2320)	
RSPT 2363 Clinical Practice V (RESP 2362)	3
ıl Hours	70
11 11 UU 3	1 &
Respiratory Care Courses	
• •	
T 1103 Medical Terminology (51.0908)	4 5
(1-0)	
	orbot ckille
An introduction to medical terms which will provide the student with the written and vaccessary to communicate with health care personnel (SCANS 1) Prorequisite: A	
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac	
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Acrespiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  T 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP]	Imission to
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necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  The 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1908]  (0-6)  A method of instruction providing detailed education, training and work-based experience patient/client care, generally at a clinical site. Specific detailed learning objectives are deeach course by the faculty. On-site clinical instruction, supervision, evaluation and place responsibility of the college faculty. Clinical experiences are unpaid external learning e Course may be repeated if topics and learning outcomes vary. Provides the initial expensional environment. Strengthens communication and decision-making skills by obsequent administration of respiratory care modalities. Requires application of patient assessment utilizing medical terminology, documentation, interpretation of medical records, and provides to apply sterilization techniques. (SCANS 1, 5, 6, 8, 9, 11) Prerequisite: Admission to respiratory.	Imission to  1111]1 hour and direct veloped for ment is the experiences. sure to the rvation and echniques, opportunity
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  PT 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1908]  (0-6)	Imission to  1111]1 hour and direct veloped for ment is the experiences. systion and echniques, opportunity iratory care
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  PT 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 2908)  (0-6)	Imission to  1111]1 hour and direct veloped for ment is the kperiences. sure to the vation and echniques, opportunity iratory care2 hours
respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  The Title Clinical Respiratory Therapy Technician - Clinical Practice I [formerly RESP 1908]  (0-6)  A method of instruction providing detailed education, training and work-based experience patient/client care, generally at a clinical site. Specific detailed learning objectives are deeach course by the faculty. On-site clinical instruction, supervision, evaluation and place responsibility of the college faculty. Clinical experiences are unpaid external learning e Course may be repeated if topics and learning outcomes vary. Provides the initial experiences are unpaid external learning experiences are unpaid ex	Imission to  1111]1 hour and direct veloped for ment is the kperiences. sure to the vation and echniques, opportunity iratory care2 hours assification,
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necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  17 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1908]  (0-6)	Imission to  1111]1 hour and direct veloped for ment is the xperiences. sure to the vation and echniques, opportunity iratory care2 hours assification, us system.
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  To 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1998]  (0-6)	Imission to  1111]1 hour e and direct veloped for ment is the experiences. sure to the rvation and echniques, opportunity iratory care2 hours assification, us system. SPT 1410.
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  To 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1908)  (0-6)  A method of instruction providing detailed education, training and work-based experience patient/client care, generally at a clinical site. Specific detailed learning objectives are deeach course by the faculty. On-site clinical instruction, supervision, evaluation and place responsibility of the college faculty. Clinical experiences are unpaid external learning er Course may be repeated if topics and learning outcomes vary. Provides the initial expensional environment. Strengthens communication and decision-making skills by obse administration of respiratory care modalities. Requires application of patient assessment utilizing medical terminology, documentation, interpretation of medical records, and provides to apply sterilization techniques. (SCANS 1, 5, 6, 8, 9, 11) Prerequisite: Admission to respiratory Corequisites: RSPT 1103, RSPT 1325 and RSPT 1410.  To 1213 Basic Respiratory Care Pharmacology [formerly RESP 1115] (51.0908) (2-0)  A study of pharmacological principles/practices of respiratory care drugs. Emphasis on cliroutes of administration, dosages/calculations, and interaction of the autonomic nervo (SCANS 3, 6, 7, 8, 9, 11) Prerequisites: RSPT 1103, RSPT 1103, RSPT 1160, RSPT 1325 and FCOrequisites: RSPT 1360, RSPT 1411 and RSPT 2310.	Imission to  1111]1 hour e and direct veloped for ment is the evalion and echniques, opportunity iratory care2 hours assification, us system. ISPT 14103 hours es. Lab fee
necessary to communicate with health care personnel. (SCANS 1) Prerequisite: Ac respiratory care program. Corequisites: RSPT 1160, RSPT 1325 and RSPT 1410.  To 1160 Clinical-Respiratory Therapy Technician – Clinical Practice I [formerly RESP 1998]  (0-6)	Imission to  1111]1 hour e and direct veloped for ment is the evalion and echniques, opportunity iratory care2 hours assification, us system. ISPT 14103 hours es. Lab fee



	T 2314 Mechanical Ventilation [formerly RESP 1310] (51.0908)
	(2-3)
RSP	T 2325 Cardiopulmonary Diagnostics [formerly RESP 2315] (51.0908)
	(2-4)
	A study of physical, radiological, hemodynamic, laboratory, nutritional, and cardiopulmonary diagnostic assessment of the pulmonary patient. Lab fee required. (SCANS 3, 6, 7, 8, 9) Prerequisites: RSPT 2314 and RSPT 2360. Corequisites: RSPT 2353 and RSPT 2361.
RSP	T 2353 Neonatal/Pediatric Cardiopulmonary Care [formerly RESP 2364] (51.0908)
	(2-4)
	T 2360 Clinical-Respiratory Therapy Technician – Clinical Practice III [formerly RESP 1333] 908)
	(0-12)
	A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Provides the student opportunities to demonstrate responsibility, creative thinking, and decision-making skills in critical area. (SCANS 4, 5, 6, 7, 8, 9, 10, 11) Prerequisites: RSPT 1213, RSPT 1360, RSPT 1411 and RSPT 2310. Corequisites RSPT 2314.
	<b>T 2361 Clinical-Respiratory Therapy Technician – Clinical Practice IV</b> [formerly RESP 2352] 908)
	(0-16)
	A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Prepares the student for advanced respiratory techniques including radiologic techniques, operating room rotations, neonatal care, cardiac catheterization, and adult and pediatric critical care. (SCANS 5, 6, 7, 8, 9, 10, 11) Prerequisites: RSPT 2314 and RSPT 2360. Corequisites: RSPT 2325 and RSPT 2353.
	T 2363 Clinical-Respiratory Therapy Technician - Clinical Practice V [formerly RESP 2362 908)
,	(0-16)
, 5 , . 0	(U-10) 3 Hours

Safety (see Occupational Safety and Health Technology)

#### **Social Sciences**

Faculty: Dr. Bill Rutherford, chair; Dr. Brian Dille, James Gaddy, Glen Findley, Dr. Tom Heiting, Dr. Dick Kennedy, Dr. Mike Myers, Robert Porter.

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.

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

,	Semester Hrs
General Education Requirements	52
COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	
ENGL (sophomore level)	
Foreign Language 1411 and 1412	8
Foreign Language (sophomore level)	6
GOVT 2301 U.S. and Texas Government	3
GOVT 2302 American National Government	
*HIST 1301 U.S. History to 1877	
*HIST 1302 U.S. History From 1877	
MATH 1332 Structures of College Mathematics I or higher level math	3
MATH 1333 Structures of College Mathematics II or higher level math	
PHED (any two one-hour activity courses)	
SPCH 1315 Public Speaking	
Major Requirements	12
ECON 2301 Principles of Economics I (Macro)	
ECON 2302 Principles of Economics II (Micro)	3
HIST 2311 History of Modern Europe to 1815	3
HIST 2312 History of Modern Europe Since 1815	3
the test state of the second state of the seco	
Total Semester Hours	64
*HIST 2301, History of Texas may be substituted for either HIST 1301 or HIST 1302.	

#### **Economics Courses**

	(3-0)
	economic theory and practice. Emphasizes macroeconomic theory and practice. Includes money an banking, national income and employment, economic growth, public spending and international economy. (SCANS 6) Prerequisite: None.
ECC	ON 2302 Principles of Economics II (Micro) (45.0601.5142) (3-0)
	Designed to provide communication and interpretation of fundamental analytic concepts of economitheory 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.
	<b>Government Courses</b>
GO۱	7T 2301 U.S. and Texas Government (45.1002.5142)
	(3-0)
GO۱	TT 2302 American National Government (45.1002.5142) (3-0)
	Disseminates information and interprets the institution of government including the presidency Congress, the courts and bureaucracy of the U.S. government. Includes study of domestic and foreign policy issues such as managing the economy, national defense, welfare, civil liberties and civil rights This course does not satisfy the government requirement for teacher certification by the Texas Education Agency. (SCANS 6) Prerequisite: None.
	History Courses
HIS.	7 1301 United States History to 1877 (45.0802.5142) (3-0)
	Organizes, interprets, and evaluates the European background, establishment of colonial foundations rise of American nationality, growth and sectional crisis, and the Civil War and Reconstruction. (SCANS 6, 9) Prerequisite: None.
HIS:	(3-0)
	Deals with the growth of big businesses and accompanying problems. Includes the interpretation and evaluation of American imperialism, causes and results of World War I, causes of World War II, postwa adjustments and prospective solutions. (SCANS 6, 9) Prerequisite: None.
HIS:	7 2301 History of Texas (45.0802.5242) (3-0)
	Organizes and interprets the history of Texas. Stresses European approach to Texas, Spanish and French rivalry, exploration and control, Anglo-American colonization, relations with Mexico, Texas Revolution, Texas as a republic, annexation, statehood, reconstruction and other political and economic developments. (SCANS 6, 9) Prerequisite: None.

	of Modern Europe to 1815 (45.0801.5442)
Surveys and Europe. Empl 17th centuries	nterprets the social, economic and political developments in Medieval and Modern hasizes the Renaissance, Protestant Reformation, overseas expansion during 16th and, struggle for parliamentary government in England, French Revolution and Napoleonic IS 6) Prerequisite: None.
	of Modern Europe Since 1815 (45.0801.5442)
Includes an in	terpretation and evaluation of the Napoleonic era, rise of liberalism and nationalism, esults of World War II, postwar problems and prospective solutions. (SCANS 6, 9) None.
HIST 2381 Afro-An	nerican History (45.1101.5342)
Organizes and	I interprets the role and contributions of Afro-Americans to development and culture of tes. (SCANS 6) Prerequisite: None.
	Philosophy and Religion Courses
	ction to Philosophy I (38.0101.5135)
Presents an questions about students seek	adventure in ideas including the interpretation of those ideas. Asks anew ultimate ut the significance of life. With insights gleaned from world's greatest philosophers to clarify own ideas and beliefs concerning themselves, their world and their ultimate at thinking is an important component of this course. (SCANS 6, 9) Prerequisite: None
	etion to Philosophy II (Ethics) (38.0101.5335)
Introduces etl questions, "W of goodness,	
BIBL 1171 Acts of	
Communicate to outlying pa	
BIBL 1372 Old Tes	
An introduction	n and survey of the Old Testament. Emphasizes historical setting, types of religious religious element underlying the whole. (SCANS 6) Prerequisite: None.
BIBL 1373 New Te	
Introduces su Gospels, expa	
	of the Life of Christ
(3-0) Presents a st Prerequisite: I	udy of the life of Christ as portrayed by Matthew, Mark, Luke and John. (SCANS 6) None.

#### BIBL 2372 The Life and Letters of Paul

Sociology (see Psychology and Sociology)

Spanish (see English and Foreign Languages)

#### Speech

Faculty: J. Deanne Causey, chair; William Neff, Vicki Patrick, Joe Willis.

The speech department recognizes that effective communication is an essential skill in college, 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.

Introduction to Speech 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
General Education Requirements  COSC 1301 Introduction to Computer Systems	3
ENGL 1301 Composition and Rhetoric	
ENGL 1302 Composition and Literature	3
ENGL (sophomore level)	
Foreign language 1411 and 1412	8
GOVT 2301 U.S. and Texas Government	
GOVT 2302 American National Government	3
HIST 1301 U.S. History to 1877	3
HIST 1302 U.S. History From 1877	3
PHED (any two one-hour activity courses)	2
Science (two sequential semesters of a laboratory science)	8
Major Requirements	18
SPCH 1311 Introduction to Speech Communication	
SPCH 1315 Public Speaking	3
SPCH 1321 Business and Professional Speech	
SPCH 2333 Discussion and Small Group Communication	
SPCH 2335 Argumentation and Debate	3
SPCH 2341 Introduction to Oral Interpretation	3
Total Semester Hours	63

#### **Speech Courses**

SPCH 1311 Introduction to Speech Communication (23.1001.5135)
(3-0)
SPCH 1315 Public Speaking (23.1001.5335)
(3-0)
SPCH 1321 Business and Professional Speech (23.1001.5235)
(3-0)
SPCH 2333 Discussion and Small Group Communication (23.1001.5635)           (3-0)
This course introduces the group communication process as it applies to various situations. Emphasis is placed on group theories and development, leadership concepts, personality role development and problem solving methods. Participation in group presentations is required. (SCANS 5, 6, 7, 9, 10, 11) Prerequisite: None.
SPCH 2335 Argumentation and Debate (23.1001.5935)           (3-0)
(3-0) 3 hours. This course introduces various argumentation techniques. The student will learn basic research skills and methods of cataloging evidence. The student will learn to organize and present ideas in effective communication paradigms. Individual debate and team formats will be demonstrated. (SCANS 5, 6, 9, 10, 11) Prerequisite: None.
SPCH 2341 Introduction to Oral Interpretation (23.1001.5735)  (3-0)

## **Surgical Technology**

Faculty: Leola Rutledge, chair.

The surgical technology program prepares graduates to become allied health professionals and an integral part of the team of practitioners who work with the surgeon, the operating room nurse and other skilled professionals to deliver the highest possible level of patient care in the operating room. The role of the surgical technologist encompasses maintaining a safe environment for patients undergoing invasive therapeutic and diagnostic procedures by preparation, handling and operation of sterile supplies and specialized instrumentation. The surgical technologist possesses knowledge of the theory and application of aseptic technique and generally functions as the sterile member of the surgical team.

The first semester courses include medical terminology, asepsis, microbiology, pharmacology, anesthesia, wound healing, sterilization/disinfection, patient/client care concepts and an introduction to clinical experience. A course in CPR for Allied Health also is completed during this semester as well as medical terminology. During the second semester applied psychology is presented, and the didactic and clinical curricula are expanded to include an introduction to surgical pathology and its relationship to surgical procedures. Opportunity is also given in the clinical course to increase knowledge and skills in general surgical procedures. The six-weeks 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. A current CPR certification will be received in the PHED 1166 course.

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.

Note: Students must maintain health and accident insurance throughout their enrollment. Students also are expected to have proof of professional liability insurance through the college.

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 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.

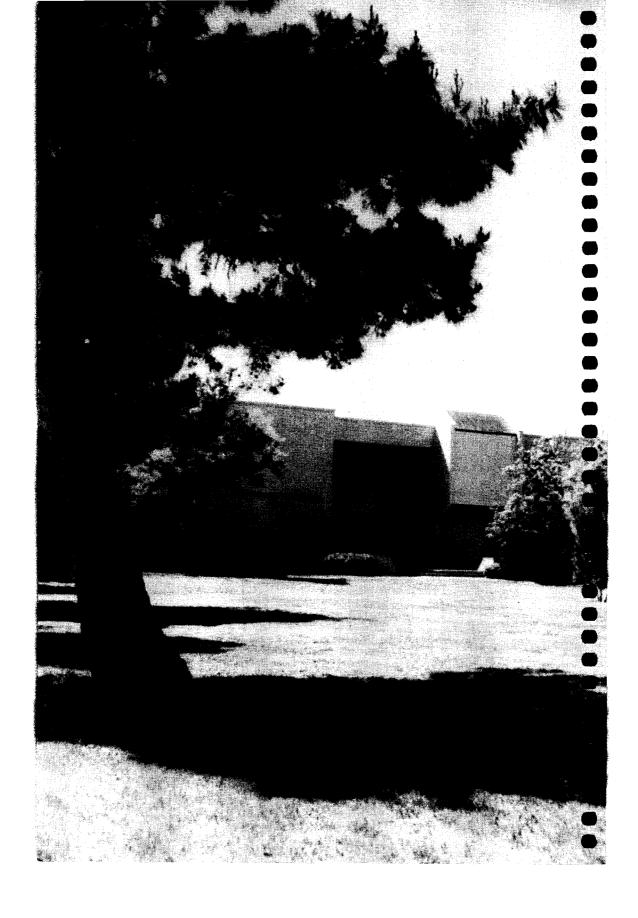
Due to the implementation of the Workforce Education Course Manual mandated by the Texas Higher Education Coordinating Board, course prefixes have changed. However, courses previously taken toward degree or certificate requirements are not affected.

## Course of Study for Associate in Applied Science Degree Surgical Technology

	Semester Hrs
Prerequisite courses	8
BIOL 2401 Anatomy and Physiology I	4
BIOL 2402 Anatomy and Physiology II	4
First Year	
First Semester	
HPRS 1106 Medical Terminology (BIOL 1170)	
PHED 1166 CPR for Allied Health	
SRGT 1309 Fundamentals of Aseptic Technique	3
SRGT 1405 Introduction to Surgical Technology (SURG 1612)	4
SRGT 1460 Clinical I – Surgical/Operating Room Technician (SURG 1411)	4
SRGT 1491 Special Topics in Surgical/Operating Room Technician	4
Second Semester	
PSYC 2302 Applied Psychology	
SRGT 1441 Surgical Procedures I (SURG 1613)	4
SRGT 1442 Surgical Procedures II (SURG 1613)	4
SRGT 2660 Clinical II - Surgical/Operating Room Technician (SURG 1614)	6
Summer Session I	
SRGT 2461 Clinical III - Surgical/Operating Room Technician (SURG 1615)	4

Second Year	
First Semester	
BIOL 2420 Microbiology	4
ENGL 1301 Composition and Rhetoric	3
GOVT 2301 U.S. and Texas Government or GOVT 2302 American National Government	t <b>3</b>
MATH 1332 Structures of College Mathematics or higher-level math	3
PHED 1100 Lifestyles Assessment and Modification	1
Second Semester	
COSC 1301 Introduction to Computer Systems	3
ENGL 1302 Composition and Literature	د 3
PSYC 2301 Introduction to PsychologySPCH 1315 Public Speaking or SPCH 1321 Business and Professional Speech	دع
SPOR 1315 Public Speaking of SPOR 1321 Business and Professional Speech	J
Total Hours	72
Course of Study for Certificate of Completion	
<u> Level II – Surgical Technology</u>	
Sen	nester Hrs
Prerequisite courses	8
BIOL 2401 Anatomy and Physiology I	4
BIOL 2402 Anatomy and Physiology II	4
First Semester	
HPRS 1106 Medical Terminology (BIOL 1170)	
PHED 1166 CPR for Allied Health	
SRGT 1309 Fundamentals of Aseptic Technique	
SRGT 1405 Introduction to Surgical Technology (SURG 1612)	4
SRGT 1460 Clinical I – Surgical/Operating Room Technician (SURG 1411)SRGT 1491 Special Topics in Surgical/Operating Room Technician	
Shar 1491 Special ropics in Surgical/Operating Hoons recinician	······ <del>4</del>
Second Semester	
PSYC 2302 Applied Psychology	3
SRGT 1441 Surgical Procedures I (SURG 1613)	4
SRGT 1442 Surgical Procedures II (SURG 1613)	4
SRGT 2660 Clinical II - Surgical/Operating Room Technician (SURG 1614)	6
Summer Session I	
SRGT 2461 Clinical III - Surgical/Operating Room Technician (SURG 1615)	4
Total Hours	46
TOWN TOWN OF THE PROPERTY OF T	40
Surgical Technology Courses	
SRGT 1309 Fundamentals of Aseptic Technique (51.0909)	
(3-0)	3 hours
In-depth coverage of aseptic technique principles and practices, infectious processes, wou	nd healing,
and creation and maintenance of the sterile field. (SCANS 1, 3, 5, 9, 10) Prerequisites: BIO	
BIOL 2402. Corequisites: SRGT 1405, SRGT 1460 and SRGT 1491.	
SRGT 1405 Introduction to Surgical Technology [formerly SURG 1612] (51.0909)	
(4-0)	
Orientation to surgical technology theory, surgical pharmacology and anesthesia, and p	
concepts. (SCANS 1, 3, 5, 9, 10) Prerequisites: BIOL 2401 and BIOL 2402. Corequisites: S SRGT 1460 and SRGT 1491.	nG 1 1309,
SHOT 1400 AND SHOT 1491.	

#### SRGT 1441 Surgical Procedures I [formerly SURG 1613] (51.0909) Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. (SCANS 3, 4, 5, 6) Prerequisites: SRGT 1309, SRGT 1405, SRGT 1460 and SRGT 1491. Corequisite: SRGT 2660. SRGT 1442 Surgical Procedures II [formerly SURG 1613] (51.0909) Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the thoracic, peripheral vascular, plastic/reconstructive, EENT, cardiac, and neurological surgical specialties incorporating instruments, equipment and supplies required for safe patient care. (SCANS 1, 6, 8) Prerequisites: SRGT 1309, SRGT 1405, SRFT 1441, SRGT 1460 and SRGT 1491. Corequisite: SRGT 2660. SRGT 1460 Clinical I - Surgical/Operating Room Technician [formerly SURG 1411] (51.0909) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. Lab fee required. (SCANS 3, 4, 5, 6) Prerequisites: BIOL 2401 and BIOL 2402. Corequisites: SRGT 1309, SRGT 1405 and SRGT 1491. SRGT 1491 Special Topics in Surgical/Operating Room Techniques (51.0909) Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This is a companion course to SRGT 1405 Introduction to Surgical Technology, and expands and amplifies ideas and concepts proffered in the introductory course. In this continuing study of surgical technology, the higher level concepts are covered. (SCANS 1, 3, 5, 9, 10) Prerequisites: BIOL 2401 and BIOL 2402. Corequisites: SRGT 1309, SRGT 1405 and SRGT 1460. SRGT 2461 Clinical III - Surgical/Operating Room Technician [formerly SURG 1615] (51.0909) A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. (SCANS 5, 8, 9, 10) Prerequisites: SRGT 1309, SRGT 1405, SRGT 1441, SRGT 1442, SRGT 1460, SRGT 1491, SRGT 2660 and completion of all academic courses. SRGT 2660 Clinical II - Surgical/Operating Room Technician [formerly SURG 1614] (51.0909) (0-21) \_\_\_\_\_\_\_6 hours A method of instruction providing detailed education, training and work-based experience and direct patient/client care, generally at a clinical site. Specific detailed learning objectives are developed for each course by the faculty. On-site clinical instruction, supervision, evaluation and placement are the responsibility of the college faculty. Clinical experiences are unpaid external learning experiences. Course may be repeated if topics and learning outcomes vary. (SCANS 4, 5, 6, 8, 10) Prerequisites: SRGT 1309, SRGT 1405, SRGT 1460 and SRGT 1491. Corequisites: SRGT 1441 and SRGT 1442. Vocational Nursing (see Nursing) Welding Technology (see Metal Trades) X-Ray Technology (see Radiologic Technology)





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# Faculty and Staff

## Faculty and Staff

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David Dunn Gary S. Johnson Sandra Shaw Walter D. Smith

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	Dean of Administration
	Dean of Technical Studies and Curriculum
	Dean of Workforce and Continuing Education
	. Dean of Learning Resources and Developmental Education
	Dean of Arts, Humanities and Distance Education
T G Thomas, B.A., D.V.M., M.P.H	Dean of Science and Health
6	tudent Life
<u>3</u>	<u>tudent Life</u>
Admissions	
Tanya Hughes, B.B.A., M.A.	Director of Admissions
Tanya Hughes, B.B.A., M.A.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics	Assistant Director of Admissions
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics To Be Named	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics To Be Named Chad Bell, B.A., M.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics To Be Named Chad Bell, B.A., M.S.  Paul Chavez, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S.  Matt Figger, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named  Chad Bell, B.A., M.S.  Paul Chavez, B.S.  Matt Figger, B.S.  Tricia Floyd, B.S., M.Ed.  Betty Fredrickson-Sorrells, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A. Orlando Ontiveroz, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A. Orlando Ontiveroz, B.S. Seane Parker, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A. Orlando Ontiveroz, B.S. Seane Parker, B.S. Wayne Turley, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S. Paul Chavez, B.S. Matt Figger, B.S. Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S. Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A. Orlando Ontiveroz, B.S. Seane Parker, B.S. Wayne Turley, B.S. Jim Watkins, B.S.	
Tanya Hughes, B.B.A., M.A.  Deidre Nesmith, B.A.  Athletics  To Be Named Chad Bell, B.A., M.S.  Paul Chavez, B.S. Matt Figger, B.S.  Tricia Floyd, B.S., M.Ed. Betty Fredrickson-Sorrells, B.S.  Don Green, B.S., M.Ed. Scott Hyland, B.S., M.A. Orlando Ontiveroz, B.S. Seane Parker, B.S. Wayne Turley, B.S. Jim Watkins, B.S. Rick Zimmerman, B.S., M.S.	

Enrollment Management	
	Student Development Specialist
	Coordinator of Student Recruiting
Sherrie Lang, B.S., M.Ed., Ed.D.	Director of Testing and Assessment
Media Relations and Publications	
Cheri Dalton, B.A	Director of Media Relations and Publications
	Graphic Designer
Wayne Wunsch, B.A	Newswriter
Registrar	
Phil W. Ebensberger, B.B.A., M.A	Registrar and Records Management Office
	Assistant Registra
Student Development	
	Director of Student Development
	Counselor
	Director of Career Services
Date Williams, D.A., W.A.	Director of Career Services
Student Financial Services	
	Director of Student Financial Services
Leslie Neiman, B.S.	Assistant Director of Student Financial Services
Student Support Services	
	Director of Student Support Services
	Academic Specialist
Kristi Muñoz, B.A., M.A	
Upward Bound	
	Director of Upward Bound
<u>.</u>	<u>nstruction</u>
Children's Center	
Sharon Omachel, A.A.S	
Continuing Education	
	Director of Allied Health
Melissa Elliott, B.B.A	Computer Lab Instructor
Fred Gibson, B.B.A Dire	ector of Business Development/Business Incubator Manager
Geoffrey Schaffer-Harris, B.A	Technical Supervisor, Ector County Breath Alcohol Program
Dovid Ligath B A	GED Coordinator
Davio nealii, D.A	JOBS Coordinator
Irene Kelleher, B.S.	
Irene Kelleher, B.S	Director of Community Services
Irene Kelleher, B.S	Director of Community Services
Irene Kelleher, B.S	Director of Community Services
Irene Kelleher, B.S	Director of Community Services

Developmental Education	
Russell Haynes, B.A., M.A.	Counselor/Title III Student Development Specialist
Claudia Philpott, B.A., M.A.	Basic Skills Specialist
Instructional Television	
Brian K. Dille, B.A., M.A., Ed.D.	Director of Instructional Television
KOCV-FM/TV Public Broadcasting	
Royce Bodiford, B.S	General Manager
	Administrative Assistant
Doug Cole, A.A., B.A	Radio Station Manager
	Chief Engineer
Chad Hauris, B.S.	Radio Operations Coordinator
Russell McBride	Traffic Director
	Development Director
Delores Stokes	Programming and Production Director
Learning Resources Center	
	Director of Information Technology
	Webmaster
	Head of Technical Services
	Network Technician
	Director of Library Services
	Graphic Artist
Pat Quintero, A.A., B.A	Serials Librarian
Bases Taskeigal Turining Ocuton	
Pecos Technical Training Center	Director
Wichelle Workman, A.A., B.S., W.S	Director
Tech-Prep	
Robert Muñoz A A R S M Ed	
Trobert Withoz, A.A., D.O., W.La.	
_	
<u>Sı</u>	upport Staff
Accounting	
Kristi Gibbs, B.B.A.	Director of Accounting
Linda James	Budget & Grants Accountant
Debbie Pollock	Cashier's Office Manager
Bookstore	Bookstore Manager
Sammle Molder, A.A	Bookstore Manager
Access of Bullion	
Campus Police	<b>2</b> 11.4.40 = "
Alfredo Fonseca, A.A.	Chief of Campus Police
Human Descures	
Human Resources	B # 8 * * * * * * * * * * * * * * * * * *
Debbie Mapes, B.B.A.	Payroll Specialist
beny George, A.A.	
Information Services	
	Director of Information Commission
Maying Renson A A S	
Charles Everett A A	Senior Systems Analyst
April Falkner A A S	Senior Systems Analyst Programmer/Analyst
ripin - undroi, rarao	riogrammei/Analyst

Physical Plant	
Bob Chastain, A.A.S.	Director of Physical Plant
Al Almadova	Custodial Supervisor
Mark Cortez	Electrical, HVAC, Plumbing Supervisor
Lucy Griffith	
Bryan Heifner	Director of Building Services
Lionel Loya	
Philip Stell, A.A.S.	
Max White, B.S.	Grounds Supervisor
	·
Purchasing Office	
Roxana Patton, A.S., B.B.A.	Director of Purchasing & Business Services
Patricia Boydstun	Manager of Central Services

## **Department and Program Chairs or Directors**

Agriculture	
Anthropology	
Art	
Automotive Technology	Jurl Davis
Biology	Rebecca Hennig
Building Trades	Galen Ballard
Business Administration	J.D. Roberts
Chemistry	G. Brent McAfee
Child and Parent Development	Lucinda Hurlbut
Clinical Laboratory Sciences	Susan Rav
Computer Information Systems	
Computer Network and Information Technology	
Computer Science	
Cosmetology	
Culinary Arts	Peter Lewis
Diesel Technology	
Developmental Education	
Drafting	
Economics	
Education, Elementary and Secondary	
Electrical & Electronics	
Emergency Medical Technology	
Engineering	Yancy Nuñez
English	
Fire Technology	
Foreign Languages	
Geography	G Brent McAfee
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	
Mass Communication	Sieve Gon

Malla and	Vanny Nyman
Mathematics	
Music	
Nursing, Odessa College Campus	
Nursing, Andrews Vocational Program	Patricia Ann Bayless
Nursing, Monahans Vocational Program	Stacy Wallis
Occupational Safety and Health Technology	J.D. Roberts
Office Systems Technology	
Petroleum Technology	J. D. Roberts
Philosophy	Dr. William Rutherford
Photography	Steve Goff
Physical Education	
Physical Therapist Assistant	S. Lynn Dammann
Physics	
Psychology	Don Jacobs
Radiologic Technology	Carolyn Sue Leach
Reading	Pam Williamson
Refrigeration & Air Conditioning	Galen Ballard
Religion	Dr. William Rutherford
Respiratory Care	Jacquelyn Sullivan
Social Sciences	Dr. William Rutherford
Sociology	Don Jacobs
Speech	Deanne Causey
Surgical Technology	
Welding	Galen Ballard

## **Faculty**

## Carolyn Amiet

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

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

#### James K. Bates

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

#### Chad Bell

Women's Track Coach and Instructor of Physical Education; B.A., University of Victoria; M.S., Eastern Kentucky University

## Sylvia Blain

Department Chair and Associate Professor of Cosmetology, A.A.S., Odessa College; B.B.A., University of Texas of the Permian Basin

#### Marylin M. Boomer

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

## 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

FACULTY 289

#### 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

#### · Karin Carlson

Department Chair and Assistant Professor of Physical Education, B.S. University of North Texas

#### Cynthia Casparis

Assistant Professor of Legal Assistant, B.M.E., West Texas State University; M.Ed., Texas Tech University

## J. Deanne Causey

Department Chair and 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

#### Lonnie Clark

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

#### Raymond L. Cone

Department Chair and Assistant Professor of Computer Information Systems, Computer Network and Information Technology, and 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

#### **Amanda Darling**

Instructor of Nursing, A.A.S., Midland College; B.S.N., Texas Tech University Health Science Center

#### Johnna M. Davila

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

#### Jurl O. Davis

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

#### 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

#### Kristen Deramus

Instructor of Biology; B.S., M.S., University of Texas of the Permian Basin

#### 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

#### 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

## R. Matt Figger

Assistant  $\overline{\text{Men}}$ 's Basketball Coach and Instructor of Physical Education, B.S., Eastern Kentucky University

## **Robert Glen Findley**

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

290 FACULTY

#### Tricia L. Flovd

Women's Basketball Coach and Instructor of Physical Education, B.S., University of Nebraska at Omaha; M.A., Ball State University

#### **Beverly Forsyth**

Instructor of English, B.S., M.A., University of Texas of the Permian Basin

#### James Gaddy

Instructor of Government, B.A., University of Texas of the Permian Basin; M.A., Southwest Texas State University

#### Raji Ganesan

Associate Professor of Chemistry, B.S., Ethiraj College for Women; M.S., Indian Institute of Technology; Ph.D., Texas Tech University

#### Steven Goff

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

#### **Terry Gouley**

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

#### Don Green

Women's Softball Coach and Instructor of Physical Education, B.S., Phillips University; M.Ed., University of Tennessee at Chattanooga

#### Filmore Guinn

Instructor of Computer Science and Computer Information Systems, A.A., Odessa College; B.S., University of Texas of the Permian Basin

#### **Becky Hammack**

Director of Nursing, A.S.N., B.S.N., Angelo State University; M.S.N., Abilene Christian University

#### 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

#### 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

#### Lucinda Hurlbut

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

#### Scott W. Hyland

Assistant Women's Basketball Coach and Instructor of Physical Education, B.S., University of Mary; M.A., University of Nebraska at Omaha

#### 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

#### A. Sue Jones

Instructor of Management, B.B.A., University of Texas of the Permian Basin

#### James P. Jordan

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

#### Mark Jordan

Professor of English, B.A., University of Texas at Austin; M.A., University of Houston; Ph.D., Texas Tech University

FACULTY 291

#### **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

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

#### LeeDon Martin

Department Chair and Assistant Professor 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

#### Trina Maurer

Instructor of Computer Science, Computer Info Systems, Computer Network and Information Technology, B.B.A., University of Texas at Austin

#### G. Brent McAfee

Department Chair of Chemistry, Geology and Physics 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 Associate 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

#### Rhonda McMurrian

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

#### James McPherson

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 S. Miller**

Associate Professor of Law Enforcement/Criminal Justice, A.A., Odessa College; B.A., University of Texas of the Permian Basin; M.Ed., Sul Ross State University

#### James Mosman

Instructor of Welding, A.A.S., Odessa College

#### **David Mulry**

Associate Professor of English, B.A., Middlesex Polytechnic, London, England; Ph.D., University of Kent, Canterbury, England

#### J. Mike Myers

Professor of History and Government, B.A., M.A., Hardin Simmons University; Ph.D., Texas Christian 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.

#### William Neff

Instructor of Speech, B.A., M.A., California State University at Fresno

#### **Connie Nichols**

Instructor of Management, B.B.A., Texas Tech University

#### Yancy Nuñez

Department Chair of Engineering and Mathematics and Associate Professor of Mathematics, B.S., M.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

#### Tammy Patni

Instructor of Reading, B.S., Texas Tech University; M.A., University of Texas of the Permian Basin

#### Vicki Dublin Patrick

Instructor of Speech, B.F.A., M.F.A., Texas Christian University

#### **Barry Phillips**

Professor of Art, B.S., M.Ed., Texas Tech University

## Barry Phillips III

Assistant Professor 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

#### **Tana Pipes**

Paraprofessional in Physical Therapy Assistant, A.A.S., Odessa College

## Robert B. Porter

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

#### **Wende Ramos**

Instructor of Office Systems, A.A., Odessa College; B.B.A., University of Texas of the Permian Basin

#### Susan Rav

Director and Associate Professor of Clinical Lab Science, B.S., University of Arizona; M.S., University of Texas of the Permian Basin

#### Lvnn Reese

Assistant Professor of Occupational Safety and Health 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

#### James D. Roberts

Department Chair of Business Administration, Management, Occupational Safety and Health Technology and Petroleum Technology and Associate Professor of Occupational Safety and Health Technology and 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

#### Ann Rusnak

Instructor of Spanish, B.A., St. Mary's College; M.A., Middlebury College

#### William Rutherford

Department Chair of Social Sciences and 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; M.S., Sul Ross State University



Medical Director of Radiologic Technology, B.A., Loyola College, Montreal, Quebec, Canada; M.D., McGill University, Montreal, Quebec, Canada

#### 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 Professor of English, B.A., Texas Tech University; M.A., University of Texas at Austin; Ph.D., Texas Tech University

#### Michael Sodd

Instructor of Cosmetology, A.A.S., Odessa College

#### Steve Sofge

Instructor of Biology, A.S., Odessa College; B.S., Texas Tech University; M.S., University of Texas of the Permian Basin

## Nancy S. Stewart

Department Chair of Legal Assistant and Office Systems Technology and Instructor of Office Systems Technology, B.B.A., Baylor University

#### Glynna 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

#### Jacquelyn Sullivan

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

## Linda Sullivan

Associate Professor of Cosmetology, A.A.S., Odessa College; B.S.O.E., Wayland Baptist University

## Charles E. Sweatt

Professor of Mathematics, B.S., M.S., West Texas State University; Ed.D., Nova University

## **Randy Talley**

Choral Director and Instructor of Music, B.M.E., M.M., West Texas State University

#### **Brandon Tate**

Assistant Professor of Emergency Medical and Fire Technology, A.A.S., Odessa College; B.S., Regis University

#### Linda L. Trimmier

Associate Professor of Vocational Nursing, Monahans, B.S.N., Texas Tech University Health Sciences Center

#### Theresa Vaughn

Instructor of Cosmetology, A.S., Midland College

#### Stacy S. Wallis

Instructor of Vocational Nursing, Andrews, A.A.S., Amarillo College

#### Jim Watkins

Director of Graham Center, 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

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

#### Rick Zimmerman

Baseball Coach and Instructor of Physical Education, B.S., M.S., Fort Hays, Kansas State College

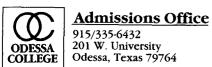
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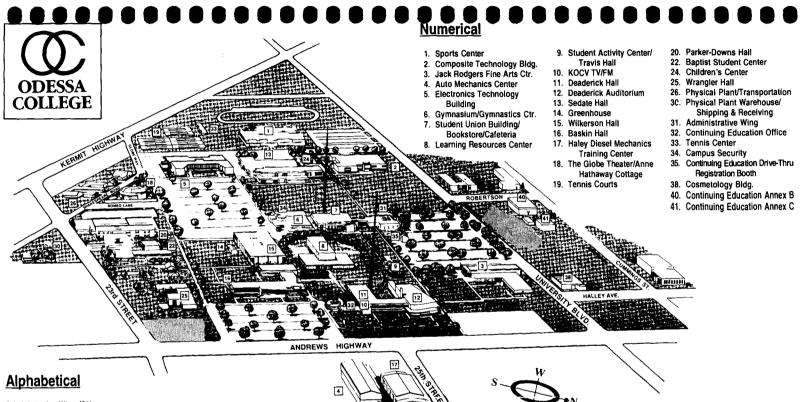
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# **APPLICATION FOR ADMISSION**

Semester for which you are applying	J Fa	all		Spring	Summer I	☐ Sumr	ner II 🗖	Midwinter
STUDENT BACKGROUND								
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Administrative Wing (31)
Auto Mechanics Center (4)
Baptist Student Center (22)
Baskin Hall (16)
Campus Security (34)
Children's Center (24)
Composite Technology Building (2)
Continuing Education Drive-Thru
Registration Bo

Cosmetology Bldg. (38)
Deaderick Auditorium (12)
Deaderick Hall (11)
Electronics Technology Building (5)
The Globe Theater/Anne Hathaway
Cottage (18)
Greenhouse (14)
Gymnasium/Gymnastics Center (6)
Haley Diesel Mechanics Training

Center (17)
Jack Rodgers Fine Arts Center (3)

KOCV TV/FM (10)
Learning Resources
Center (8)
Parker-Downs Hall (20)
Physical Plant Warehouse/
Shipping & Receiving (30)
Physical Plant/Transportation (26)
Sedate Hall (13)
Sports Center (1)
Student Activity Center/Travis Hall (9)

Student Union Building/ Bookstore/Cafeteria (7) Tennis Center (33) Tennis Courts (19) Wilkerson Hall (15) Wrangler Hall (25) ` Campus Map

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Becky Beard



