ODESSA COLLEGE ACADEMIC CATALOG

FALL 2015
SPRING 2016

Table of Contents

Volume 68, August 2015

In adopting course numbers and descriptions from The Academic Course Guide and Workforce Education Course Manuals as instituted by the Texas Higher Education Coordinating Board, some course numbers and descriptions may change from previous catalogs. However, other changes may occur

after this catalog is published. These changes will be on record in the Office of the Vice President for Instruction.

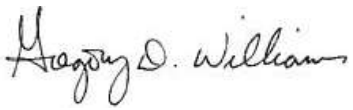
Welcome to Odessa College. I commend you on the decision to further your education. More importantly, I congratulate you on your commitment to your future. With so few real guarantees in life, it is comforting to know that an education will be a definite positive influence on the quality of opportunities you will have in both your personal and professional endeavors.

Odessa College embraces students from a variety of backgrounds. You may be graduating from high school and looking to complete your basic requirements at a college that will provide a solid foundation of transferable credits. Or, you may be a "non-traditional student" – a person who has worked hard for years, but would like to pursue that lingering dream of a special career that you always deep-down wanted to pursue.

Odessa College makes more opportunities possible by catering classes to varying lifestyles. OC realizes that there can be a need for online courses in addition to the typical in-classroom courses. Life happens – especially if you are working and raising a family at the same time as taking classes. We are here to work with you in order to help you succeed.

Now – bottom line – college needs to be affordable. Odessa College takes this need seriously. We look to keep the courses, books and fees at a level that makes an education attainable by all that seek to better themselves. There are many opportunities for financial aid and scholarships. Just ask us…we will help you find a way to achieve your desired education.

Sincerely,



Dr. Gregory D. Williams
Odessa College President

Campus Directory

Office		Location	Phone
Adult Basic Education	GED, ESOL classes	Annex B	335-6380
Bookstore		201 W. University	335-6655
Cafeteria		SAUL 1st Floor	335-6435
Campus Police		PD Portable After Hours:	335-6666 238-6334
Chief of Staff / Chief Student Services Officer		ADM 201	335-6750
Children's Center		SH 119	335-6480
Computer Lab		LRC 301-303	335-6878
Continuing Education		DH 101	335-6582
Curriculum*		CT 100C	335-6508
Dean of Arts and Sciences*		CT 100A	335-6412
Executive Dean of Career, Technical and Workforce Education*		ET 152	335-6686
Director of Intercollegiate Athletics*		SC 213A	335-6567
General Information			335-6400
Human Resources		ADM 104	335-6606
Learning Resources Center		LRC	335-6640
Marketing & Communications Office*	Schedules	ADM 213	335-6416
OC Global*		CTE 133	335-6783
Pecos Center			445-5535
President's Office*		ADM 201	335-6410
Purchasing Office*		Purchasing & Receiving (warehouse)	335-6425
Resource Development	Development, Scholarships, Alumni	ADM 101	335-6648
Sports Center & Community Recreation		Sports Center	335-6348
Student Accounts Services	Payment Plans, Past Due Tuition, & Third Party	SAUL 106	335-6407 335-6420
Student Activities Office		Wi-Fi Cafe	335-6403

Office		Location	Phone
Student Government Association		SAUL 221	335-6819
Student Housing – Century Commons		Century Commons 101	335-6300
Student Learning Center	Tutoring Center, Basic Skills Lab, Computer Lab	LRC 113	335-6673
Student Services	Admissions Advising Financial Aid Records Office Student Recruiting Wrangler Express	SAUL 1st Floor SAUL 204 SAUL 101 SAUL 1st Floor SAUL 205 SAUL 1st Floor	335-6400
Testing Center		LRC 209	335-6620
Title V		DH 141	335-6783
Vice President for Business Affairs*		ADM 203	335-6415
Vice President for Information Technology*		ADM 213	335-6400
Vice President for Institutional Effectiveness*		ADM 210	335-6446
Vice President for Instruction*		ADM 202	335-6413
Vice President for Student Services*		ADM 212	335-6683
Wi-Fi Java Cyber Café		Travis Hall	335-6891
Veteran Affairs		SAUL 202B	335-6833
Virtual College of Texas*		CT 100C	335-6508

*closed during lunch - visit www.odessa.edu for more information

About Odessa College

The Board of Trustees of the Odessa 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 years. Almost 6,000 students are currently 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 are offered 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 35-acre plot by 1960. During the 1990's, OC received a number of major property donations as the college continued to expand to serve the educational needs of its students and service area.

Role and Mission

Odessa College leads the way in preparing its students and community for the future. The College offers exemplary courses, programs, and services to assist students in achieving their educational goals and becoming lifelong learners, community builders, and global citizens. Odessa College empowers its employees to model excellence in their service to students, colleagues, and community.

Odessa College is an open door, two-year institution offering quality career, technical, and academic courses for certification or associate degrees. Additionally, the College offers continuing education, remedial and compensatory education, and provides guidance and counseling programs. Odessa College primarily serves individuals located in our service area and insists on excellence in teaching, research, and public service.

Purpose

The purpose of Odessa College, as prescribed by the Texas Higher Education Coordinating Board, is to provide:

1) Technical programs up to two years in length leading to associate degrees or certificates.
2) Career and technical programs leading directly to employment in semi-skilled and skilled occupations.
3) Freshman and sophomore courses in arts and sciences.
4) Continuing adult education programs for occupational or cultural upgrading.
5) Compensatory education programs designed to fulfill the commitment of an admissions policy allowing the enrollment of disadvantaged students.
6) A continuing program of counseling and guidance designed to assist students in achieving their individual educational goals.
7) Workforce development programs designed to meet local and statewide needs.
8) Adult literacy and other basic skills programs for adults.

Institutional Responsibility

Odessa College, within its role and mission, must serve the public to:

1) 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.

5) Protect intellectual exploration and academic freedom.

6) Strive for intellectual excellence.

7) Provide educational opportunity for all who can benefit from post-secondary education and training.

8) 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. Three 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, seven television stations, 21 radio stations and more than 120 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. 2020.

Accreditation

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

- American Heart Association
- Commission on Accreditation of Allied Health Education Programs
- Commission on Accreditation in Physical Therapy Education
- Committee on Accreditation of Education Programs for the Emergency Medical Services Professions
- Joint Review Committee on Education in Radiologic Technology
- National Automotive Technicians Education Foundation
- National League for Nursing Accrediting Commission, Inc.
- National Association of Schools of Music
- Southern Association of Colleges and Schools
- Texas Board of Nursing
    - Associate Degree Nursing
    - Vocational Nursing
- Texas Commission on Fire Protection
- Texas Department of Licensing and Regulation
- Texas Department of State Health Services
- Texas Department of Aging and Disabilities Services – Long Term Care Division, Medication Aide Program
- Texas State Board of Examiners of Professional Counselors
- Texas State Board of Social Worker Examiners

School Year/Learning Options

School Year

Please consult the college's Schedule of Credit Classes Bulletin or Academic Calendar for specific beginning and ending dates of the semesters/sessions.

Fall Semester

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

Maymester Session

Odessa College offers a mini-semester between the end of the spring semester and the beginning of summer school if the calendar allows. This mini-semester is similar to Odessa College's midwinter semester and will allow students to enroll in a three-hour course, which, together with both summer sessions will provide the opportunity to do the normal course work for a normal semester. This schedule opportunity is open to all college students who would like to maximize their number of semester hours in the summer.

Summer Sessions I and II

The summer sessions consist of two terms of approximately five weeks each and one eight-week term, 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 five week session.

Credit earned in a course is equivalent to that offered in the same course during a regular semester. Information regarding summer sessions can be obtained from the OC Help Center.

Midwinter Semester

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 only one course during this special session.

Day and Evening Classes

Day and evening classes are available to help OC students meet their individual needs. 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.

Weekend College

Odessa College's Weekend College offers students alternatives for those unable to attend college during a traditional time frame.

Weekend College Features:

- Standard eight-week format classes that meet once a week on Friday evening, Saturday mornings, or Saturday afternoons.
- The opportunity to complete the entire core curriculum of the Associate of Arts (A.A.), Associate of Science (A.S.) or the Associate of Arts in Teaching (A.A.T)
- Additional courses in selected majors are offered for students who wish to earn an A.A., A.S., or A.A.T. degree and many students transfer to a four-year institution to earn a bachelor's degree.
- Developmental courses that improve the basic skills of students whose academic foundation needs strengthening are available.

Weekend College is here to help…

- Individuals unable to attend weekday or evening classes due to travel requirements, overtime hours, varied or rotating shifts.
- Single parents or stay-at-home parents.
- Students wanting to accelerate their academic progress.
- Individuals anticipating a career change.
- People working full-time seeking advancement.
- Individuals planning to re-enter the job market or beginning a new career.
- Anyone whose family or professional responsibilities make it difficult to attend regular classes during the week.

Weekend College students are held to the same academic performance standards as traditional students and Weekend College course content matches the college's weekday offerings. Weekend College students must apply and be accepted to Odessa College in order to enroll in Weekend College classes. No special permission is needed to enroll in Weekend College and registration is through Web Advisor, or your Success Coach, as with traditional courses.

For more information, please contact the Division of Arts & Sciences at 432.335.6412 or Wrangler Express at 432.335.6849.

Distance Education/OC Global

OC Global is the name of Odessa College's distance education department. OC Global offers accredited completely online courses and degrees. Go to www.myocglobal.com.

WebEx (Video Conferencing) Courses

These courses are broadcasted live through the Internet using our WebEx videoconferencing system. Students are able to interact with their instructors in real-time using instant messaging, whiteboard and webcam tools. Students participate in these courses from home or at one of our extension centers.

Virtual College of Texas (VCT)

VCT allows students to take online classes or begin work on an online degree from a partner college if the course or degree is not readily available at Odessa College. Students have access to hundreds of online courses from colleges throughout the state. Starting and ending dates may vary from those of Odessa College's courses. For a list of courses and online degrees offered through VCT go to: http://www.vct.org/. To register for a VCT course or program, call 432-335-6508.

Extension Centers

The Pecos Technical Training Center provides many of the courses, both credit and Continuing Education, that are offered on the Odessa College main campus. Odessa College also offers classes and programs although more limited in number and scope, at extension sites in Monahans, Andrews, and Seminole.
Students registering for classes at the Pecos Center may register at that center during the designated registration time for Pecos.–Students have the option of registering online, the extension center or on the OC main campus.

Registration dates and times are listed in the schedule of credit classes for each semester. Area newspapers and radio stations also carry notices of registration dates and times.

Information about classes offered at any of the extension sites is available online or on campus from the OC Help Center and the Wrangler Express. Specific information about course offerings at the Pecos Technical Training Center is also available from the center staff 432-445-5535 or 432-335-6809.
More info can be viewed online at www.odessa.edu/extension/.

Career and Technical Programs

Odessa College offers a wide variety of technical programs that focus on the high-wage, high-skill, and high demand career fields of the 21st century. These programs enable students to enter their chosen career fields as skilled employees after one or two years of college work.

These programs are designed to meet local, regional, and statewide labor-market needs and increase the employability of students. Our innovative yet realistic approach to career and technical education is made possible through the support of local industry, businesses and public agencies that look to the community college for skilled personnel. New programs are added following a data-driven process that incorporates community workforce needs, student interests, and economic factors.

OC continually works 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.

Career and Technical programs carry college credit leading to an associate in applied science degree, a certificate of technology or a certificate of completion. Additionally, many career and technical programs provide opportunities for students to earn industry-recognized licensures or credentials, or transfer to four-year universities.

Continuing Education and Workforce Training

Odessa College offers a wide variety of short-term, non-credit courses and training programs in the areas of personal enrichment, professional development and job skill enhancement. These courses range from one-day workshops to one-year programs. Continuing education units (CEUs) are awarded for successful completion of most courses. Many professionals may obtain CEUs for certification and licensure requirements.

Non-credit courses, seminars, and workshops offer a wide range of topics intended to accommodate individuals of all ages and interests. We offer face-to-face and online class options. There are no entrance requirements for most continuing education courses. A schedule of classes is available from the Continuing Education Office in Deaderick Hall, by calling 432-335-6582, and on the web at www.odessa.edu/ce.

Workforce Development Training for Business and Industry

Your company's employee training needs, like its products, are unique. Odessa College Continuing Education and Workforce Development works with you to provide training and education to meet those needs. We provide quality, cost-effective workforce training that can be customized around your industry and your employees. You can enroll employees in courses taught on the main campus, at one of our extension sites, or we can bring the course to your facility.

Adult Basic Education (ABE)

Odessa College offers basic education classes for adults who have not completed high school and English classes for adults whose first language is not English. During a typical school year, enrollment in Adult Basic Education classes averages 800 students. The Texas Educating Adults Management System Report shows a total of 767 students were enrolled in the 2010-2011 academic year. Of those, 40 students were enrolled at the Adult Secondary Education (ASE) level. Odessa College's ABE Program has met or surpassed 100% of State and Federal Performance Standards for the past eight years.

Adult Basic Education classes range from basic instruction, through advance secondary education and prepare adults to successfully complete the state administered high school equivalency General Education Development (GED) test. An online GED Preparation and Ready for Work Program has been implemented in Alpine and Big Bend. Funding was received to expand this program to Andrews, Kermit, Pecos and Odessa for 2011. This will allow student to pursue their GED preparation in class, at home and wherever they have internet connections.

English language instruction is offered for out-of-school adults whose first language is not English. Odessa College provides five levels of progressive instruction in listening, speaking, reading, and writing. Interactive listening and computer labs supplement classroom instruction with student access to the Internet.

The main goal of the department is to serve adults who are functioning below the postsecondary level of education and who lack sufficient mastery of basic educational skills to enable them to function effectively in society. As well as, assist students who are unable to speak, read, or write the English language.

For more information on classes, registration dates, and requirements, contact the Adult Basic Education department at 432-335-6380 or come to the office in Annex B or see www.odessa.edu/abe.

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.

The department's mission is to promote health and wellness to our campus and community by providing healthy lifestyle activities and programs in a supportive and educational environment.
The 110,000 sq. ft. recreational and fitness center offers:

- Heated Indoor Pool
- Water Slide
- Group Fitness Classes
- Zumba and Aqua Zumba
- Water Aerobics Classes
- Weight Room
- Cardio Center
- Aerobic/Dance Studio
- Indoor and Outdoor Tracks
- Basketball
- Volleyball
- Racquetball
- Tennis
- Equipment Checkout
- Swim Lessons
- K-12 Summer Camps
- Lifeguarding Classes
- Hunter Safety Classes
- MORE!

❖ Two gyms – one varsity gym and ICA community gym
❖ Facility and pool rentals are available.

Contact the Facility Contracts Office at 432-335-6754 for more information.

OC encourages community residents to utilize the facility by purchasing an annual or semester membership. For more information on enrolling in classes or purchasing a membership, stop by the OC Sports Center Front Office, visit www.wranglersports.com or call 432-335-6FIT (6348).

Admissions and Registration

Admission to the College

Admissions: 432-335-6432
Wrangler Express: 432-335-6849
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. 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's file becomes part of the permanent Odessa College file. The student 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.

Applying for Admission

Please note: Applications are available in the Admissions office, located in the Wrangler Express, first floor of the Saulsbury Campus Center. If you prefer to apply online, go to www.odessa.edu and click on the New Students link to follow the provided steps. As of the fall 2006 semester, all students applying for admission or readmission must complete a core residency questionnaire to determine residency status for tuition purposes. Students must also submit documentation of TSI (Texas Success Initiative) status. All transcripts and other official documents submitted for admission purposes become the property of Odessa College and will not be returned to the student.

1) **Returning Students Not Currently Enrolled** – Students who have attended OC but have not taken classes within the last calendar year must reapply for admission in the Admissions Office.
2) **High School Graduates –** Graduates from an accredited high school need to submit an official high school transcript with date of graduation and rank in class. Odessa College defines an accredited high school as a Texas public high school authorized through the Texas Education Agency, the Texas Private School Accreditation Commission, the Southern Association of Colleges and Schools, or if located in a state other than Texas, that state's comparable agencies and/or regional accrediting association.
3) **GED** – Students who have successfully passed testing requirements under the General Education Development Test must submit official GED test scores.
4) **Transfer Students** – Transfer students who are seeking admission **must provide an official transcript from every institution attended.**
5) **Home Schooled Students** – Homeschooled students seeking admission to Odessa College are required to:
    a. Be at least 16 years of age.
    b. Submit a completed and signed application of admission.
    c. Comply with TSI requirements.
    d. Provide an official notarized transcript that must meet all TEA standards.
6) **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 2, 3 or 4 above. Students admitted on individual approval without a GED or high school transcript are not eligible to receive Title IV federal financial assistance. An official copy of coursework completed may be requested.
7) **International Students** – 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. Deadlines for receipt of materials: March 1 for summer, June 1 for fall, October 1 for spring. Please contact the Enrollment Services Coordinator at 432-335-6851. Applicants' files must contain the following:
    a. Odessa College International Application for Admission and Registration Survey.
    b. A $50 (U.S. currency – money order or cashier's check) non-refundable application fee.
    c. A deposit of $1,500 (U.S. currency – money order or cashier's check) to be held in escrow. The

deposit will be returned to the student during the last semester of the students study with OC.

d. Copy(ies) of passport information (name, passport number, address, etc.)

e. Official high school or college/university transcript(s). Transcripts must be translated into English. (Athletes must provide a secondary and college/university transcripts if transferring). Please click for a list of Foreign Credential Evaluation services.

f. Official score report on the Test of English as a Foreign Language (TOEFL) with a minimum score of 525 on the paper test or 70 on the Internet based test. For testing information visit: www.ets.org/toefl

g. When receiving a borderline score on the TOEFL, the Vice President of Student Services and Enrollment Management may select a panel of Odessa College employees to further evaluate English proficiency based on interview conversations, transcripts showing English instruction, other English proficiency tests or writing samples. Contact the Enrollment Services Coordinator for additional information at 432-335-6851.

h. A physician's statement with evidence of good physical health and showing proof of immunization against diphtheria and tetanus within the last 10 years, a negative result on tuberculosis test and a bacterial meningitis vaccination if under the age of 30 and attending a Texas college or university for the first time.

i. Financial statement showing proof of a minimum of $17,000 in available funds per calendar year to cover educational and living expenses. *International students are not eligible for any financial aid through Odessa College Student Financial Aid Office.*

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

8) **Special Enrollment Opportunities for Current High School Students include:**

a. ***Dual Credit*** – High school juniors and seniors can earn college credit through Odessa College while they earn high school credit through their high school for selected courses. Students must have permission of the school district and their parents/legal guardians and must come from a school with an Articulation Agreement with Odessa College. The *dual credit* program is open to students who meet the following criteria (printable checklist):

i. Have the appropriate score on the TAKS, TSIA, STAAR EOC, SAT or ACT;

ii. Have an overall high school grade point average of 3.0 or above in the semester immediately preceding enrollment in a college course;

iii. Have the approval of their high school counselor; and

iv. Pay tuition fees for the college courses unless other arrangements have been made.

High School students interested in *dual credit* enrollment opportunities should contact their high school counselor for assistance with course selection according to the high school *dual credit* class schedule. A maximum of two *dual credit* classes can be taken during any semester, unless the student has permission from High School Principal and OC Chief Academic Officer which allows for three classes to be taken during the semester. *Dual credit* students must be TSI exempt or must pass the TSIA in the content area(s) of classes they wish to take.

b. ***Dual Credit*** students must have the permission of the school district and must come from a school with an Articulation Agreement with Odessa College. *Dual Credit* is open to freshmen and sophomore students as well as junior and seniors who meet the following criteria:

i. Demonstrated outstanding academic performance and capabilities as evidenced by GPA, ACT, SAT or other assessment indicators.

ii. Student must meet minimum score requirements required on placement test(s) specified by Odessa College.

iii. Freshmen and sophomore students can enroll in one *Academic* course and one KINE course each semester; juniors and seniors can enroll in two *Dual Credit* courses each semester. Additionally, students must meet the Odessa College prerequisite requirements for all courses to be taken.

iv. Approvals from the parent/guardian and the Principal of the High School are required for *three or more courses (Juniors and Seniors).*

v. Approval from the Chief Academic Officer of Odessa College is required for admittance.

vi. Pay tuition and fees for the college courses unless prior arrangements have been made. High school students interested in

enrollment opportunities should contact their high school counselor for assistance with course selection according to the high school *Dual Credit* class schedule.

Programs With Selective Admissions Requirements

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 department representative about program admission requirements:

- Cosmetology
- Emergency Medical Services (second year)
- Fire Academy
- Nursing
- Physical Therapist Assistant
- Radiologic Technology
- Surgical Technology

Odessa College Success Intitiative Plan

A primary focus of Odessa College is to provide students with the opportunity to learn and be successful in reaching their educational goals. A significant part of providing these opportunities rests in activities to determine the college readiness of each person who enrolls for credit classes at OC. An individual who is not able to demonstrate college readiness in reading, writing, and/or mathematics will be directed to appropriate programs to bring those skills to the college readiness level through the college's Success Initiative Plan.

Odessa College's Success Initiative Plan has been developed in compliance with the requirements of the Texas Education Code, Sections 51.307, 51.3062 and 51.403(e). The official transcript of each student will clearly indicate the student's status for college readiness according to the Odessa College Success Initiative Plan.

All students enrolling at Odessa College on or after September 1, 2003, fall under the provisions of the Success Initiative Plan.

Success Initiative Standards

Prospective students may demonstrate college readiness by presenting official documentation of the approved exemption or passing scores on any of the approved tests. See "Exemptions/Waivers" for specific information. All new students who are not exempt must test. Odessa College administers the Texas Success Initiative Assessment (TSIA).

Advising and Developmental Requirements

Students whose test scores do not demonstrate college readiness in an area will be advised by a Student Success Coach as to the appropriate developmental course sequence for each area where developmental work is indicated. Students will be provided with a course of study plan clearly showing all developmental work to be completed to allow students to advance to college-level course work.

Students must begin appropriate developmental work the first semester of enrollment. Those who do not make a passing score in any of the three areas will be advised to enroll for appropriate developmental course work in at least two of the three skill areas. Enrollment according to the student's developmental plan will be continuous by semester until college readiness is documented by their grades or test scores. Students who present test scores showing only one area of deficiency are required to enroll in appropriate coursework in that area the first semester of enrollment and continue until college readiness is documented by their grades or by placement (TSIA) test scores.

Acquiring and Demonstrating College Readiness

Tables presented within the Success Initiative section or in individual subject areas of English, reading and math show the recommended placement in each subject area based on scores presented by the student. In all areas, students who are placed in developmental courses based on test scores are required to earn a grade of "C" or higher in each developmental course in order to progress to the next course in the sequence and eventually to the appropriate college level course.

When students with initial test scores above the state minimum deviation score have earned a grade of "C" or higher in all courses in a developmental course sequence, they will have satisfied requirements in the Odessa College Success Initiative Plan and will be eligible to enroll for college level courses in the related skill area.

Exemptions/Waivers

BASIS FOR EXEMPTION	REQUIREMENTS
ACT Test Results *Scores are valid for 5 years from date of testing*	Composite score of 23 with a minimum of 19 on both the English and/or math tests shall be exempt from these corresponding sections
SAT Test Results *Scores are valid for 5 years from date of testing*	Combined verbal and math score of 1070 or higher with a minimum of 500 on both the verbal and/or math test shall be exempt from these corresponding sections
STAAR EOC Test Results *Scores are valid for 5 years from date of testing*	A minimum score of Level 2 on the English III shall be exempt from the TSI Assessment for both reading and writing, and a minimum score of Level 2 on the Algebra II EOC shall be exempt from the TSI Assessment for the mathematics section.
TAKS Test Results *Scores are valid for 5 years from date of testing*	Minimum of 2200 in math and/or 2200 with a writing subscore of at least 3 in English/language arts (ELA)
College degree previously earned	Associate degree or higher
Transfer students from accredited private or out-of-state institution of higher education	Grades of "C" or higher in equivalent English, math or reading courses will be evaluated and will normally be used to document readiness
Previous course work at another Texas institution of higher education to document readiness	Grades of "C" or higher in equivalent English, math or reading readiness courses or college level courses
Level 1 Certificate students	Technical programs with 42 or fewer semester credit hours
Previous military service	Students who, on or after August 1, 1990, were honorably discharged, retired or released from active duty as a member of the armed forces of the U.S. or Texas National Guard or service as a member of a reserve component of the armed forces of the United States.
Current military service	Students who are serving on active duty as a member of the armed forces of the United States, Texas National Guard or reserve component of the armed forces of the U.S. and have been serving for at least three years preceding enrollment.
Students not seeking a degree or certificate – testing deferred	Students wishing to enroll in classes for personal enrichment. Those classes must not be of the nature to require college level skills in reading, writing or math. Maximum of 18 hours, cumulative.

Departmental Placement & Success Requirements

Reading

TEST	SCORE	COURSE
TSIA Texas Success Initiative Assessment	310-341 342-350 351 or above	**INRW 0373** **ENGL 1301** College Ready

English/Writing

TEST	SCORE	COURSE
TSIA Texas Success Initiative Assessment	Essay score on WritePlacer of 4 or below AND multiple choice score on Writing 0-362 Essay score on WritePlacer of 5 OR essay score of 4 AND multiple choice score on Writing 363 or higher	**INRW 0373 and 0375**, 6 hours required **College Ready**
Students who earn a grade of "D" or "F" in INRW 0373 may enroll for the same course or may enroll in ENGL 0171 before reattempting INRW 0373. Students must earn "C" or better in INRW 0373 or pass a state-approved exam to progress to ENGL 1301. Any exceptions are at the discretion of the department chair		

Mathematics

TEST	SCORE	COURSE
TSIA Texas Success Initiative Assessment	310-336 337-343 344-349 350 or higher	**MATH 0371, 0372, 0375** – 9 hours required **MATH 0372, 0375** – 6 hours required **MATH 0375** – 3 hours required College Ready

Developmental Course Progression

Students who have completed their required developmental sequence with grades of "C" or higher in a subject area may enroll in the appropriate college level course and they will have satisfied the TSI requirement for the subject area.

Evaluation of Developmental Coursework From Other Institutions

Odessa College will apply the same standards for coursework transferred to OC as it applies to its resident coursework in terms of meeting the standards of the Success Initiative Plan. Transfer grades in developmental courses that are lower than the grade of "C" will not be sufficient for the student to advance to the next course in the sequence or to the first college level course. The only exception will be for official designation on a transcript or other official documentation materials that the student has successfully met the Success Initiative standards of the sending institution.

Dropping Developmental Classes

Students enrolled in developmental classes for compliance with Odessa College's Success Initiative Plan and state law are expected to remain active in those classes so long as they are active in other classes. Should circumstances arise that make it critical for students to drop a developmental class while continuing with other classes, they will be allowed to do so, but only with the signature of their developmental teacher on the schedule change form. Students dropping a developmental class will also be required to sign a document provided by their instructor attesting that they fully understand the potential outcomes of the decision to drop.

Waiver of Developmental Course Requirements

A student enrolled for interim sessions or for summer school may elect to temporarily waive developmental requirements so long as the student does not enroll for a course or courses that require skills for areas in which the student has not met Success Initiative requirements.

When individual student circumstances warrant a temporary waiver, the vice president for instruction or designee may grant appropriate waivers to the college's policy of continuous enrollment in developmental course work. The individual approving the exception will document that exception on the student's developmental degree plan.

In the case where a student changes goals and pursues an approved Level I certificate, the student's developmental requirements will be waived as long as the student follows the certificate plan.

College Readiness and Degree Completion

A student must demonstrate college readiness by meeting Success Initiative standards in all three of the skill areas to be eligible to receive an advanced skills (Level II) certificate or associate degree from Odessa College.

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 residency status for tuition purposes will fall in one of four categories.

1) **In-district resident:** Students who are 18 years or older must be residents of the state of Texas for 12 months immediately prior to their enrollment, including the immediately preceding six months as residents in Ector County. 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 Ector County six months immediately prior to registration, but who have been a resident of Texas at least 12 months immediately 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 immediately 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.
4) **Foreign students:** Foreign students are considered out-of-state residents.

Residence Requirements for Tuition Purposes

Students with 150 or more semester hours of college courses from Texas public institutions of higher education may be subject to out-of-state tuition rates.

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 Records Office or Admissions Office. Questions or disputes regarding interpretation of these guidelines should be directed to the Records Office.

Residency 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 for tuition purposes, students should inquire at the Wrangler Express.

Students classified as non-residents for tuition purposes will remain in that classification as long as they attend OC or until they petition for and receive approval for a change of status. Students who have been classified as non-residents or out-of-district residents may petition for a change in their residency status prior to census day of a term. The right to petition for a change of residency status does not guarantee that a change will be approved. Students must meet the criteria set by the state concerning the burden of proof for residency and domicile, in order to be eligible for reclassification. Please contact the Wrangler Express by phone at 432-335-6489 or on the first floor of the Saulsbury Campus Center for further information.

Students classified as residents but who become non-residents or out-of-district residents at any time by virtue of a change of a legal residency by their own action or by the person controlling their domicile are required to notify the Records Office. Students who submit a change of address that changes their status from resident to non-resident or out-of-district resident will be automatically reclassified by the Records Office.

Important Student Information Concerning Tuition

In recent years, the state legislature of Texas has implemented various legislation designed to provide financial incentives that encourage students to progress through their degree programs in a timely manner.

Texas Education Code §54.068 permits institutions of higher education to charge a higher rate of tuition to resident undergraduate students with repeated or excess hours. This higher rate is not to exceed the rate charged to nonresident undergraduate students.

Course Drop Limitations

This bill provides that, except for several specific instances of good cause, undergraduate students enrolling as first-time freshmen at a public institution of higher education in fall 2007 or later will be limited to a total of six dropped courses during their entire undergraduate career while attending any public institution in Texas.

Under section §51.907 of the Texas Education Code, "an institution of higher education may not permit a student to drop more than SIX courses, including any course a transfer student has dropped at another institution of higher education." This statute was enacted by the State of Texas in spring 2007 and applies to students who enroll in a public institution of higher education as first-time freshmen in fall 2007 or later. Any course that a student was enrolled in for credit, but did not complete, is counted toward the six-course limit if:

1) the student was able to drop the course without receiving a grade or incurring an academic penalty;
2) the student's transcript indicates or will indicate that the student was enrolled in the course; and
3) the student is not dropping the course in order to withdraw from the institution.

The following exemptions for good cause could allow a student to drop a course without having it counted toward this limit, but it is the responsibility of the student to establish that good cause. Contact your Student Success Coach for more information before you drop a course.

1) a severe illness or other debilitating condition that affects the student's ability to satisfactorily complete a course;
2) the student's responsibility for the care of a sick, injured, or needy person if the provision of care affects the student's ability to satisfactorily a course;
3) the death of a person who:

a. is considered to be a member of the student's family under a rule adopted under this subsection for purposes of this subdivision; or
b. is otherwise considered to have a sufficiently close relationship to the student under a rule adopted under this subsection that the person's death is considered to be a showing of good cause;

4) the active duty service as a member of the Texas National Guard or the armed forces of the United States of:
   a. the student; or
   b. a person who is considered to be a member of the student's family under a rule adopted under this subsection for purposes of this subdivision.

Policies and procedures for implementation of this statute are being developed and will be published as soon as they are available.

Excess Credit Hours

Students who are Texas residents and enrolled in any public institution of higher education prior to Fall 1999 are exempt from the rules governing excess credit hours.

Students who are Texas residents and enrolled in any public institution of higher education for the first time Fall 1999 or later are subject to the following legislative requirements:

- Effective with students initially enrolling in the fall 1999 semester and subsequent terms, hours, including dual credit hours, attempted* by a resident undergraduate student that exceed more than 45 hours beyond the minimum number of hours required for their baccalaureate degree requirements at a Texas public senior college or university may be charged additional tuition, up to the level of that institution's nonresident charges.
- Effective with students initially enrolling in the fall 2006 semester and subsequent terms, hours, including dual credit hours, attempted* by a resident undergraduate student that exceed more than 30 hours beyond the minimum number of hours required for their baccalaureate degree requirements at a Texas public senior college or university may be charged additional tuition, up to the level of that institution's nonresident charges.

Students who have not selected a major are considered, by state law, to have a degree requirement of 120 hours.

For purposes of excess hours, resident undergraduate student includes a nonresident student who is permitted to pay resident tuition.

*Attempted hours are defined as course hours that the student is enrolled in after the census day of the semester (12th day of the semester for fall and spring, 4th day of the semester for each summer session).

The following types of hours are exempt and are not subject to the limitation on formula funding set out in §13.103 of this title (relating to Limitation on Formula Funding for Excess Hours):

1) hours earned by the student before receiving a bachelor's degree that has been previously awarded to the student;
2) hours earned through examination or similar method without registering for a course;
3) hours from remedial and developmental courses, workforce education courses, or other courses that would not generate academic credit that could be applied to a degree at the institution if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions;
4) hours earned by the student at a private institution or an out-of-state institution; and
5) hours not eligible for formula funding.

Developmental Courses

Students may be charged a higher rate of tuition, not to exceed the rate charged to nonresident undergraduate students, for remedial and developmental courses for which a student has exceeded 18 hours of remedial and developmental courses in a general academic teaching institution, or 27 hours of remedial and developmental courses in a public community college, public technical college, or public state college.

Repeated Courses

Students may be charged a higher rate of tuition, not to exceed the rate charged to nonresident undergraduate students, for any hours for a course that is the same (or substantially similar to a course) that the student previously attempted for two or more times at the same institution.

The following types of hours are exempt and are not subject to the limitation on formula funding set out in §13.105 of this title (relating to Limitation on Formula Funding for Repeated Hours for Attempted Course).

1) hours for remedial and development courses, if the course work is within the 27-hour limit at two-year colleges and the 18-hour limit at general academic institutions;
2) hours for special topics and seminar courses;

3) hours for courses that involve different or more advanced content each time they are taken, including but not limited to, individual music lessons, Workforce Education Courses, manual Special Topics courses (when the topic changes), theater practicum, music performance, ensembles, certain physical education and kinesiology courses, and studio art;
4) hours for independent study courses; and
5) hours for continuing education courses that must be repeated to retain professional certification.

Special Programs and Requirements

Health and Wellness for Students

Maintaining a healthy state of mind and body is important to student success in college. Even though Odessa College does not operate a student health clinic on campus, college services are available to provide referral options to a variety of local health care and other service facilities.

Students should contact the OC Help Center at 432-335-6433 for assistance in locating needed services.

Important Information About Bacterial Meningitis

Important information for all first time students starting ANYTIME AFTER spring 2012.

Beginning January 2012, all first time students and students that have not attended during the fall or spring semester immediately prior to your admitted semester at any Texas college or university that are under the age of 22 are required to have the bacterial meningitis vaccination or booster. Students will not be able to register until proof of vaccination or booster is on file

Please check our Website on a regular basis for any updates or changes at **www.odessa.edu**. If you have any questions, please email the Admissions Office at **admission@odessa.edu** or call 432.335.6849.

All public colleges and universities in Texas are required by action of the 77th Texas Legislature to notify all new students about bacterial meningitis and the potential health risks from that disease. The following information is provided for all students in compliance with the legislation.

Bacterial meningitis is a serious, potentially deadly disease that can progress extremely fast – so take utmost caution. It is an inflammation of the membranes that surround the brain and spinal cord. Bacteria that cause meningitis can also infect the blood. This disease strikes about 3,000 Americans each year, including 100-125 on college campuses, leading to 5-15 deaths among college students every year. There is a treatment, but those who survive may develop severe health problems or disabilities.

Due to increased risk for students living in close proximity and as required by the 81st Texas Legislature, all new students moving into on-campus housing facilities in the State of Texas must be vaccinated at least 10 days prior to moving into the residence hall or apartment unit.

What are the symptoms?

- High fever
- Severe headache
- Rash or purple patches on skin
- Vomiting
- Light sensitivity
- Stiff neck
- Confusion and sleepiness
- Nausea
- Lethargy
- Seizures

There may be a rash of tiny, red-purple spots caused by bleeding under the skin. These can occur anywhere on the body.

Increased numbers of symptoms mean higher risk, so when these symptoms appear seek immediate medical attention.

How is bacterial meningitis diagnosed?

- Diagnosis is made by a medical provider and is usually based on a combination of clinical symptoms and laboratory results from spinal fluid and blood tests.
- Early diagnosis and treatment can greatly improve the likelihood of recovery.

How is the disease transmitted?

- The disease is transmitted when people exchange saliva (such as by kissing, or by sharing drinking containers, utensils, cigarettes, toothbrushes, etc.) or come in contact with respiratory or throat secretions.

How do you increase your risk of getting meningitis?

- Exposure to saliva by sharing cigarettes, water bottles, eating utensils, food, kissing, etc.
- Living in close conditions (such as sharing a room/suite in a dorm or group home).

What are the possible consequences of the disease?

- Death (in 8 to 24 hours from perfectly well to dead)
- Permanent brain damage
- Kidney failure
- Learning disability
- Hearing loss, blindness
- Limb damage (fingers, toes, arms, legs) that requires amputation
- Gangrene
- Coma
- Convulsions

Can the disease be treated?

- Antibiotic treatment, if received early, can save lives and chances of recovery are increased. However, permanent disability or death can still occur.
- Vaccinations are available and should be considered for:
  - Those living in close quarters
  - College students 25 years old or younger
- Vaccinations are effective against four of the five most common bacterial types that cause 70 percent of the disease in the U.S. (but do not protect against all types of meningitis).
- Vaccinations take 7-10 days to become effective, with protection lasting 3-5 years.
- The cost of vaccine varies so check with your health care provider.
- Vaccination is very safe – most common side effects are redness and minor pain at the injection site for up to two days.

How do you find out more information?

- Contact your own health care provider.
- Contact the Ector County Health Department at 432-498-4141.
- Contact Web sites:
  - **www.cdc.gov/ncidod/dbmd/diseaseinfo**
  - **www.acha.org**

Immunizations

Students enrolled in health-related higher education courses that involve direct patient contact with potential exposure to blood or bodily fluids in educational, medical, or dental care facilities must comply with state mandated immunization requirements. These requirements are found in Title 25, Chapter 97, Subchapter B of the Texas Administrative Code, amended May 25, 2010.

Students must have the following vaccinations before they can engage in direct patient care activities:

1) Tetanus-diphtheria – One dose of tetanus-diphtheria toxoid (Td) is required within the last 10 years. The booster may be in the form of a tetanus-diphtheria-pertussis containing vaccine (Tdap).
2) Measles, Mumps, and Rubella Vaccines – A student born on or after January 1, 1957, must show acceptable evidence of vaccination of two doses of measles-containing vaccine administered since January 1, 1968 (preferably MMR vaccine).
3) Students born on or after January 1, 1957, must show acceptable evidence of vaccination of one dose of mumps vaccine, usually the MMR vaccine.
4) Students must show acceptable evidence of one dose of rubella vaccine, usually the MMR vaccine.
5) Hepatitis B Vaccine – Students are required to receive a complete series of hepatitis B vaccine prior to the start of direct patient care or show serological confirmation of immunity to hepatitis B virus.
6) Varicella Vaccine – Students are required to have received one dose of varicella (chickenpox) vaccine on or after the student's first birthday, or if the first dose was administered on or after the student's thirteenth birthday, two doses of varicella vaccine are required. A written statement from a parent (or legal guardian or managing conservator), school nurse, or physician attesting to a positive history of chicken pox disease, or of varicella immunity, is acceptable in lieu of a vaccine record. The form for documentation is available from the department chair for the area of study the student is pursuing.

Serologic confirmations of immunity (laboratory blood testing) to measles, rubella, mumps, hepatitis A, hepatitis B, or varicella, constitute acceptable documentation for the immunization requirements. Documentation must consist of a valid laboratory report.

A student may be provisionally enrolled in health-related courses if the student has received at least one dose of each of the specified vaccines prior to enrollment and does not participate in direct patient care activities. The student must complete the required vaccines on schedule in accordance with the Centers for Disease Control and Prevention's Recommended Adult Immunization Schedule as approved by the Advisory Committee on Immunization Practices (ACIP), American College of Obstetricians and Gynecologists (ACOG), the American Academy of Family Physicians (AAFP), and the American College of Physicians. Students not completing the vaccine requirements on schedule are subject to dismissal from the health occupations program at Odessa College.

Registration Process

Credit Classes

Odessa College allows students to register in person or on the web using WebAdvisor during scheduled registration events (see the Schedule of Credit Classes for the calendar). Students new to OC must complete the admissions process (see Index for admissions information pages) before they are allowed to register for classes.

Students who are enrolled for credit classes at OC 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 one or more semesters of non-enrollment in credit classes must verify the accuracy of their contact information, reaffirm residency status for tuition purposes, and supply appropriate transcripts if the student has attended any other college or university since first admission to OC.

Academic Advising and Scholastic Planning

Academic advising is an important part of the registration process that takes place in advance of actual registration. Each student has a reason for attending Odessa College and should plan his or her course of study accordingly. Student Success Coaches and faculty are available to assist students in academic planning and academic advising.

In addition to helping students plan class schedules and take courses needed for degree completion or transfer preparation, Student Success Coaches can provide insight, encouragement and referral services for students to make good decisions and to fulfill their individual educational goals.

Registration

The college designates specific dates and times for registration for upcoming semester or summer sessions. Exact dates and times of each registration event are published in the Schedule of Credit Classes for each semester, which is available online at www.odessa.edu. Students are strongly encouraged to utilize the web-based registration.

New students (first time in college or transfer students) and returning students who have not enrolled in credit classes at OC within the last calendar year must complete the application or reapplication process before registering for classes. Special information sessions for new students are held regularly. For more information call the OC Help Center at 432-335-6433.

In most cases, students who are enrolled at OC or who have been enrolled within the past calendar year are automatically eligible to participate in registration activities online through WebAdvisor at https://webadvisor.odessa.edu/. **All fees due for registration must be paid in full at the time designated for each semester in the class schedule.** Students are responsible to drop or withdraw from any course the student does not pay for or does not intend to attend.

Late Registration

By state law, there is a deadline for registering for college classes. The last day to register for a course is the first day the course meets in that term.

To determine the specific information about the last day to register for college classes, consult the college's Schedule of Credit Classes Bulletin for the appropriate term.

Add/Drop

To determine the specific information about the last day to register for college classes, consult the college's Schedule of Credit Classes Bulletin for the appropriate semester. Students who have been cleared to register on WebAdvisor may change their schedules online, although no student may drop a course on the Web. Students wishing to drop a developmental course must see their developmental instructor, who is authorized to make changes to students' developmental course placement. Students may not completely withdraw from all semester courses by use of the Web.

A schedule change fee of $25 will be charged for all changes made once the term begins, except those initiated by the college or those processed by the student on the Web.

Extension and Other Off-Campus Registration

Students who attend classes at extension centers are strongly encouraged to register using the WebAdvisor system after consulting with their Student Success Coach.

Students in certain allied health fields will be registered by their Student Success Coach. These students must consult their success coach for authorization to register on the WebAdvisor and/or to request to be registered for the appropriate courses.

Student Success Course

Strategies for Success courses are designed to assist students as they gain the knowledge necessary to function effectively in a college environment. To improve student success, the courses will teach basic academic skills and provide information about available campus resources. Students will be encouraged to develop more definite career plans and a plan to fit their educational goals. Students will also have a contact point with an Odessa College professional (their Student Success Coach) during the most critical weeks of their college career.

COLL 0171 Strategies for Success is designed to ensure that all non-concurrent college students who are taking at least three credit hours but have not yet accumulated 12 credit hours develop the basic educational skills necessary for college success. Strategies for Success uses AVID (Advancement Via Individual Determination) strategies to enhance the student's learning experience. This course includes note taking and time management strategies as well as learning style assessments and vital academic study skills. Students must enroll in and successfully complete (C or better) COLL 0171 or must re-enroll in the course the following semester. Students who are TSI (Texas Success Initiative, 2003) liable in two or more of the three developmental areas – reading, writing and math – may not enroll in a web course, but must take the course face-to-face. One-hour courses are offered during spring, summer and fall semesters. COLL 0171 does not satisfy requirements for any degree plan at Odessa College but is an institutional requirement.

Workforce and Continuing Education – Non-Credit Registration

Registration and payment of tuition is required prior to the beginning of each course. Students are encouraged to sign up early for a class, since some classes fill up quickly or have limited space available.
To register, contact the Continuing Education Office in person, by phone, Internet or fax (using a major credit card) or by mail. For contact information, visit www.odessa.edu/ce. The Continuing Education Office is located in the south wing of Deaderick Hall.

Audit of Credit Classes

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

1) A student may not register for an audit until the first class day.
2) Audit permission must be obtained from the appropriate department chair and the Registrar's Office.
3) There must be seats available before an auditing student will be permitted to enter a particular class.
4) Auditing students are not required to meet course prerequisites listed in the catalog.
5) Students auditing a course may not under any circumstances claim credit for the course.
6) A student registering for a course may not change from audit to credit or from credit to audit after the 12th class day during a long semester or fourth class day during a summer term. Requests for status change must be made in the Registrar's Office.
7) Charges for auditing a course are the same as for regular registration.

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, library privileges, obtaining copies of transcripts and student schedules.

Full information regarding ID cards can be obtained from the Wrangler Express in the Saulsbury Campus Center.

Parking on Campus

A permit is required for each vehicle (including motorcycles and mopeds) parked on campus. The parking permit is issued by the Wrangler Express when students pay their tuition and fees. Students also may purchase an additional permit at the Wrangler Express during registration or at other times of the year during regular office hours. A copy of parking regulations is available at the Wrangler Express 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 properly displayed will be issued a Citation. Failure to pay fines assessed by all citations will result in holds placed on registration and transcripts.

All vehicles must be parked in the appropriate parking spaces:

Visitors	- white spaces
Students	- yellow spaces
Employees	- blue spaces

Student Records

Accuracy of Student Records

It is the responsibility 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 to the Records Office. These submissions must be made in writing. Log in to the Odessa College website at www.odessa.edu and locate the Records Office home page from the departmental index. Under forms and procedures is a form for changing demographic information. The form will need to be completed and signed and returned to the Records Office by mail or by fax, (432) 335-6303. The Records Office may require supporting documentation for these changes.

Family Educational Rights and Privacy Act (FERPA) and Educational Record Inspection and Amendments

Odessa College complies fully with the Family Educational Rights and Privacy Act. FERPA affords students certain rights with respect to their education records, such as:

1) The right to inspect and review the student's education records within 45 days from the day the Records Office receives a written request for access. The written request should identify the specific record(s) the student wishes to inspect. The Records Office will make arrangements for access and notify the student of the time and place for records to be inspected. If the Records Office does not maintain the records, the student will be advised of the correct official to whom the request should be addressed. If the student requests copies of his/her records, appropriate copies will be made at a cost to the student of $0.15 per page. Letters waiving student's right to review will be excluded.
2) The right to request an amendment of the student's education record that the student believes is inaccurate or misleading. The request must be made in writing, identifying the record he/she wants changed, and specifying why it is inaccurate or misleading. The registrar, in consultation with the appropriate official, will examine the request and make a decision with regard to the request for amendment. If approved, the amendment will be made and the student notified. If the amendment is denied, the student will be notified of the decision and advised of his/her right to a hearing. Information regarding hearing procedures will be provided to the student at that time. If the student requests a hearing, the registrar will arrange the time and place and the student will be notified. The officials involved in the hearing process include the registrar, vice president for instruction, vice president for student services and the instructional dean over the division affected by the request. The vice president for instruction and the vice president for student services serve as the presiding officials. The decision of the presiding officials is final. Any objections to this decision by the student, instructional dean or registrar will be documented in the minutes of the hearing. Changes of grades are an exception and the current grade change policy, published in this catalog, is not affected by a student's right to request an amendment to his or her educational records.
3) The right to restrict disclosures of personally identifiable information (a.k.a. directory information) contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception, which permits disclosure without consent, is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the college in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the college has contracted (such as an attorney, auditor, or collection agent); a person serving on the board of trustees; or another school official in performing his or her tasks. A school official has a legitimate educational interest if he/she needs to review an education record in order to fulfill his/her professional responsibility. The second exception permits disclosure of personally identifiable information to governing agencies to which the college must report. The Texas Higher Education Coordinating Board (THECB) collects both directory and non-directory information (including social security numbers) regarding students enrolled at Odessa College. Any student who objects to the disclosure of directory information may do so by completing the appropriate form in the Records Office in the Saulsbury Campus Center. That form is available on the Records Office Web page at www.odessa.edu/dept/records. The registrar will relay the objection to the Texas Higher Education Coordinating Board (THECB), who will restrict disclosure of student information to third parties.

4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, S.W.
Washington, DC 20202-4605

Directory Information

Odessa College classifies the following student data as directory information: name, address, telephone number, e-mail address, field of study, enrollment status, degrees, certificates and other awards received, type of award(s) received, dates of attendance, student classification, and name of most recent previous educational institution attended. Other information cannot be released without signed authorization from the student. The Texas Higher Education Coordinating Board (THECB) collects directory and non-directory information. A student may elect to restrict the disclosure of directory information by completing the appropriate form in the **Records Office**. Contact the **Records Office** for additional information regarding the Family Educational Rights and Privacy Act (FERPA).

Financial Information

In-District Students

The total tuition and fee rate for residents of Ector County is $86 per semester credit hour with a minimum charge equivalent to three semester hours or $258. This rate includes a general services fee of $20 per hour and a student activity fee of $2 per hour.

Out-of-District Students

The total tuition and fee rate for Texas residents who reside outside of Ector County is $130 per semester credit hour with a minimum charge equivalent to three semester hours or $390. This rate includes a general services fee of $20 per hour and a student activity fee of $2 per hour.

Non-Resident Students

The total tuition and fee rate for out-of-state and foreign students is $150 per semester plus $162 per semester credit hour with a minimum charge equivalent to three semester hours or $636. This rate includes a general services fee of $20 per hour and a student activity fee of $2 per hour.

Other Fees

Other fees may be required such as fees for labs, student liability insurance, travel, testing, and private music instruction. Special program tuition may be required for certain courses that involve higher instructional costs.

Tuition Discounts

The “First Course is Free” discount waives standard tuition and fees for the first 3 credit hours taken at Odessa College. The discount applies to high school graduates taking their first class at Odessa College as well as transfer students taking their first class at Odessa College.

The “Academic Progress Discount” provides a 10% tuition discount upon completion of 30 credit hours until reaching 45 credit hours. It provides a 20% discount upon completion of 45 credit hours until reaching 60 credit hours. Student must maintain a 2.0 GPA to remain eligible for the discount.

Third Attempt Tuition Surcharge

Per state law, students who register for a credit course a third or subsequent time will be charged a tuition surcharge of $60 per credit hour. The “Third Attempt” tuition costs will not apply to developmental courses, continuing education courses, special-studies courses in which the content changes each time, or other select courses.

Reinstatement Fee

If a student is dropped from their course(s), but requests to be reinstated after the census date, the student must see the Registrar’s Office for approval. A reinstatement fee of $150 will be accessed and must be paid along with tuition immediately.

Schedule Change Fee/ Late Registration Fee

A schedule change fee of $25 will be charged for classes added/dropped after the first day of class.

A late registration of $25 will be charged to students registering on the first day of class through census day

Payment and Refund Policies

A student is responsible for the payment of charges incurred at Odessa College by the stated payment deadlines. Each student is responsible for understanding the charges and meeting all financial obligations on time. We recognize that many students receive financial assistance from third parties, including federal financial aid; but the ultimate financial responsibility belongs to the student.

Student Appeal

If you believe your bill is incorrect, or if you would like more information about a transaction on your bill, we must hear from you within 60 days of the bill that the item of concern first appeared.

Payment by Check

Current government issued identification is required for any payment. Proof of identification may include driver's license, U.S. passport or military identification card. 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.

Returned Check Policy

All returned checks are collected through Equifax, Inc. or Checks Inc. A returned check fee 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 his/her Student Success Coach shall be subject to the normal returned check penalties.

Payment by Credit Card

MasterCard, Visa, American Express and Discover are accepted for payment of tuition and fees with proper approval.

MasterCard, American Express and Discover are accepted for payment of tuition and fees with Nelnet on-line payments.

Payment Plan Options

Payment plans are available online thru Web Advisor. A $30 enrollment fee is charged each semester.

Third Party Payments

Payments made on behalf of the student by a company or government entity must provide proper documentation from such entity.

Students seeking a Police and Fire Exemption may do so by obtaining an exemption form the counseling center.

Debts Owed the College

All forms of indebtedness to the college, including tuition, fees, fines, payment plans, returned checks, property loss and property damage, must be paid before a student may re-enroll or have a transcript request honored. Failure to pay an outstanding account can result in the student being withdrawn from classes. Any past due or unpaid balances may be referred to a collection agency and may incur collection agency fees.
http://www.odessa.edu/dept/accounts/Student_Past_Due_and_Collection_Policy.pdf

Dropping a Course or Withdrawing From College

A student wishing to drop a developmental course or withdraw from college should contact their Student Success Coach. Students are encouraged to consult with instructors prior to dropping a class. Students may not withdraw from the college by use of the Web. Students must drop a class or withdraw from college before the official withdrawal date stated in the class schedule.

Students who are part of the Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student's orders must be presented to the Wrangler Express at the time of the withdrawal. For details, please contact the Wrangler Express.

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 complete the drop/withdrawal process will result in a grade of "F."

Refund Policy

In order to receive a refund you must initiate an official class drop prior to the drop deadline. College staff members or faculty are not responsible to submit schedule adjustments on behalf of the student. Refund of tuition and fees will be calculated on varying scales, depending on the course length. Refunds will be processed 7 to 10 business days after the final day of the refund period.

Odessa College reserves the right to deduct from the refund any outstanding financial obligations to the college.

Refunds Before First Day of Classes

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

If you withdraw or drop any courses after the approriate days listed below, you are still financially responsible for your tuition.

Refunds On and After First Day of Classes

Fall/Spring (16 week course(s))

Refund Schedule for Complete Withdrawl

Prior to 1st class day.....100%
First 15 class days.....70%
16th-20th class day.....25%
After 20th day.....NONE

Refund Schedule for Reduction in Course Load/Drop

Prior to 1st class day.....100%
First 15 class days..... 100%
16th-20th class day.....25%
After 20th day.....NONE

Fall/Spring (8 week course(s))

Refund Schedule for Complete Withdrawl

Prior to 1st class day.....100%
First 8 class days.....70%
9th-10th class day.....25%
After 10th day.....NONE

Refund Schedule for Reduction in Course Load/Drop

Prior to 1st class day.....100%
First 8 class days..... 100%
9th-10th class day.....25%
After 10th day.....NONE

Summer Semesters

Refund Schedule for Complete Withdrawl

Prior to 1st class day.....100%
First 5 class days.....70%
6th-7th class day.....25%
After 7th day.....NONE

Refund Schedule for Reduction in Course Load/Drop

Prior to 1st class day.....100%
First 5 class days..... 100%
6th- 7th class day.....25%
After 7th day.....NONE

Flex semester and non-semester length courses with a census date other than the 12th day class day (4th day for summer) will be calculated according to the Texas Administrative Code table

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.

Student Financial Aid

Odessa College is firmly committed to the philosophy of assisting 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 Aid Office administers four broad program areas: grants, loans, employment and scholarships. Students seeking financial assistance should complete a FAFSA (Free Application for Federal Student Aid) at www.fafsa.gov each spring. The results are used to determine eligibility for state and federal need-based programs. FAFSAs are accepted year around but late applicants may not have funds awarded before classes start. Students must maintain at least a 2.0 overall grade point average and meet satisfactory academic progress standards relating to completion of hours. Financial aid academic requirements differ from those required by the college. For more details, go to the OC Financial Aid website.

Types of Student Financial Assistance

Grants

The Federal Pell Grant is the core financial aid program. Family income, cost of education and enrollment status determine the award amount. Funds are disbursed in two payments per semester the first class day and the halfway point. Students may not receive Pell from two schools for the same semester.

The Texas Public Education Grant (TPEG) is also used for students with financial need who are enrolled in at least six credit hours.

Awarded grant funds are applied to unpaid charges and any unspent funds are deposited to the Wrangler Card or available as a check in the Student Accounts Office. Except for Pell, grants are awarded on a first-come, first-served basis until funds are depleted. Early application is strongly recommended.

Loans

The Federal Direct Loan Program allows students to borrow a long-term Stafford loan directly from the US Department of Education. No credit check is needed and interest rates are usually better than loans from private lending institutions. OC requires borrowers to initiate the application process for Stafford loans. Requirements include a FAFSA, an Odessa College loan application and completion of a promissory note and entrance counseling at www.studentloans.gov. All college transcripts must be on file and evaluated. Funds are disbursed in two payments per semester: the first class day and the halfway point. Funds for first-time, first-year borrowers are delayed thirty days after the semester starts. Exit counseling is required when enrollment drops below six credit hours or the borrower graduates. Loans and accrued interest are usually to be repaid over a ten year period.

Subsidized Federal Stafford Loans are available to borrowers who are enrolled in at least six credit hours and have financial need according to FAFSA results.

Unsubsidized Federal Stafford Loans provide aid to borrowers enrolled in at least 6 credit hours who do not qualify for a subsidized Stafford or who qualify for an amount less than the annual Federal Stafford limit.

The PLUS (Parent Loan for Undergraduate Students) program is available to parents of dependent students for school costs not covered by other aid. It is not subsidized, the interest rate is fixed and normal repayment is ten years. Repayment begins sixty days after disbursement and interest may be paid monthly or quarterly. A FAFSA must be completed by the student and the parent must pass a credit check.

Students who do not wish to be burdened with loans may opt to set up a payment plan with Odessa College. For more information, see “Payment Plan Options” on page 43.

Repayments

Under the United States Department of Education Repayment Policy, a student who receives federal grants and/or loans and stops attending class may have to repay part of the financial aid award.

Prior to withdrawing from school, a student should notify Student Financial Aid. Repayment amounts will vary depending on the amount and type of aid received. For instance, a fulltime student receiving $2,000 in grants and $1,000 in loans, with a cost of $1,000 for tuition, fees and books, and who completely withdraws from school after completing 10% of the semester, would be required to repay $700. A complete withdrawal from school after completing 20% of the semester would require a repayment of $400. For clarifications or questions about repayment obligations, please contact Student Financial Aid.

Campus Employment

The College Work-Study Programs provide employment opportunities to students who show financial need with a FAFSA and are enrolled in at least six hours. Students work in a wide variety of jobs on campus 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 twenty hours per week and arrange their working hours to not conflict with classes. Students only receive the funds that they earn. Application for the program is made by expressing an interest in receiving Work-Study funds on the FAFSA.

Non-Work-Study Jobs are available in some departments to students enrolled in at least six hours. These part-time jobs do not require a FAFSA and the employing department has flexibility in meeting employment needs.

Students seeking Work-Study or Non-Work-Study jobs can go to the Student Employment page on the OC website for a listing of job openings.

Scholarships

Odessa College annually awards more than $500,000 in academic scholarships to recognize scholastic merit. Some scholarships are designated for residents of Ector County and fourteen 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.
May 1 is the deadline to apply for academic scholarships awarded by OC Student Financial Aid for the upcoming school year. These include the Odessa College Academic, Hext Family Foundation, Property Deposit, Davidson, Slaton-Bassett, Joann Pickering Douglass and Ethel Russell scholarships. Applications are accepted year around but forms received after the deadline will be placed on a waiting list. Detailed information about each scholarship is available.

Students must submit a completed scholarship application and photocopies of high school and college transcripts to Student Financial Aid. Applicants are ranked according to grade point average, with some consideration given to an essay and completed coursework. Applications without a transcript will not be considered for funding. Scholarships are awarded to the highest ranking students until funds are depleted. Students must reapply each spring for the next school year.

Scholarships are offered each year through the OC art and music departments and are awarded based on participation, merit and ability. Other OC departments that award scholarships are: nursing, occupational safety and health technology, photography, instrumentation and social sciences. Contact the chairperson of the appropriate department for scholarship requirements.

The Odessa College Foundation also provides students with financial assistance. Students who are not eligible for federal or state aid may apply for a number of scholarships such as: Bassett, Chevron, ECISD Education Foundation, Energy Industrial, Half-Century, H.L. Mangrum, or Student Success Scholarship. Eligibility requirements are listed on the Foundation Scholarship Application on the Odessa College website.

In addition to the scholarships described above, others are available from off-campus individuals and organizations. Odessa College does not control nor make selections for these scholarships but application information is available in Student Financial Aid.

Tuition Tax Credits

Taxpayers may be eligible to claim the American Opportunity Credit against their federal income taxes. The credit may be claimed for the qualified tuition and related expenses of each student in the taxpayer's family who is enrolled at least halftime in college. Taxpayers may claim up to $2500 per eligible student.

The Lifetime Learning Credit may also be claimed against federal income taxes. Up to $2000 may be claimed for out-of-pocket expenses for qualified tuition and related expenses for all of the students in the family. Contact a tax advisor for details about claiming tuition tax credits.

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 OC Help Center located in Room 202B of the Saulsbury Campus Center. Veteran students are responsible for following all regulations of the VA and for notifying both the regional VA office in Muskogee and the OC Veteran's Office of any change in enrollment that may affect their educational benefits. Students must see the Veteran Coordinator prior to registration or add/drop to obtain permission.

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

Studies have shown that students benefit from attending classes by getting better grades. Accordingly, student attendance at every class is strongly encouraged and when an absence is unavoidable a student should consult with his or her instructor. Each instructor will provide specific details of their course policy regarding student attendance and absences in their syllabus.

Studies have also shown that, with rare exceptions, when a student misses 20% or more of scheduled class time, their grades will decline significantly. Accordingly, a student whose absences approach or exceed 20% of scheduled class time should immediately 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 TSIA should understand that attendance in those classes is mandatory under state law.

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

In order for all records to be 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. Students initiate this procedure with their Student Success Coach. When an individual other than the student initiates a withdrawal, that individual must be identified and verified for the student's protection, and that individual must provide written authorization from the student. Students who stop attending class without completing the withdrawal process will receive an "F" in the class for the semester. The withdrawal process is complete only after the student has returned the signed withdrawal form to his/her Success Coach and received a receipt showing the courses dropped.

Students who drop classes or completely 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. The date of the census day, for semester length courses, is listed in the Schedule of Credit Classes Bulletin. For non-semester length courses, contact your Student Success Coach.

Grades of "W" will be assigned to all students who withdraw during the official withdrawal period of any semester or session. The last day to drop or withdraw is published in the Schedule of Credit Classes Bulletin each semester.

Students who are part of Armed Forces Reserves may withdraw with a full refund if the withdrawal is due to their being ordered into active duty. A copy of the student's orders must be presented to the Wrangler Express at the time of the withdrawal. For details, please contact your Student Success Coach.

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 complete the drop/withdrawal process 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 student 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 are not permitted to enroll for more than 18 semester hours without from his/her Student Success Coach.

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 Maymester or midwinter sessions, one course may be taken for the normal amount of credit earned for one course during a regular semester.

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 Student Success Coach or faculty advisor to determine the best program possible.

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	DESCRIPTION	GRADE POINTS PER SEMESTER HOUR
A	Excellent	4
B	Above Average	3
C	Average	2
D	Passing, but poor	1
F	Failure	0

The following grades are not used for GPA calculations:

GRADE	DESCRIPTION
PA	Passing
I	Incomplete
P	In Progress
Z	No grade assessed; requires enrollment. Restricted to modular courses and non-course based options
N	Audit
W	Withdrawn
S	Advanced Standing (credit by examination) or awarded credit
T	Transfer credit

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

Students are expected to be familiar with their scholastic status at all times. Student Success Coaches 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.

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 institutional 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 institutional 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 for courses taken at Odessa College. The graduation grade point average is derived by dividing the total number of grade points by the total number of semester hours excluding developmental courses.

Honor Roll

Students making a grade of "A" in all courses during long semesters are listed on the President's Honor Roll. Students who make no grade lower than "B" are listed on the Dean's Honor Roll. Both full-time and half-time (6 semester hours or more) students are eligible for academic honors.

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. Using the graduation grade point average, 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*.

For the purpose of the commencement program and the commencement ceremony, the GPA used to calculate honors will be the graduation GPA for the immediately preceding semester. After all grades are submitted, the graduation GPA will be recalculated for the honors designation on the diploma and official transcript.

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 graduation GPA of 2.0 or higher; 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 semester, academic records of all students will be evaluated according to the following criteria:

1) The grade point average for the semester will be computed. If the GPA is 2.0 or higher, the student is considered to be in good standing.
2) If the GPA is less than 2.0, the cumulative GPA will be examined. If the cumulative GPA is 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.

Removal From Scholastic Probation

Students on scholastic probation return to good standing status by earning a GPA of 2.0 or higher the next 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 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 - 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 his/her Success Coach before enrolling for summer classes.

Appeal of Scholastic Suspension

If a student chooses to appeal scholastic suspension and apply for immediate re-admission, the student must also agree to abide by a personalized plan for success, created by his/her Student Success Coach. This agreement may include, but is not limited to, limited course enrollment options, required tutoring and workshops, and periodic meetings with the student's Success Coach and Faculty Mentor.A suspended student who has been approved for continued enrollment must meet the conditions of the

agreement outlined by the Success Coach. Failure to do so will result in the student being required to serve the imposed suspension for the next semester.

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 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 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, may be barred from enrolling for classes at Odessa College for the next two 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 may 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 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 student must request that the last grade earned will be the grade calculated in the cumulative grade point average. This is not an automatic process. Withdrawals and incompletes, however, may not be used to replace an earned grade.

Incomplete Grades

The conditional grade of "I" indicates that a student has not completed the required work for a course. This grade may be given only if (1) the student has passed all work completed, and (2) he/she has completed a minimum of 75% of the required coursework. This grade is given when circumstances beyond a student's control prevent him/her from completing the work for a course by the end of the scheduled semester.

A grade of "I" will only be assigned when the conditions for completions have been discussed and agreed upon by the instructor and the student. This agreement is to be documented by the instructor, who will provide a copy to the student. The final decision as to the student's eligibility for a grade of "I" rests with the instructor. If a grade of "I" is given, the student does NOT need to register for the course for the next semester. He/she must simply complete the work and submit it to the instructor for grading no later than the week of final exams in the subsequent long semester. A student may not withdraw from a course after being given a grade of "I." If the work is not completed and submitted to the instructor by the end of the long semester following the semester/session in which the grade was given, the grade of "I" will be changed to an "F." This grade cannot be contested or changed.

The instructor must submit to the Records Office a Request for a Grade Change in order for the grade of "I" to be updated.

A "Z" grade is restricted to modular courses and non-course based options (NCBOs). This grade indicates the course or NCBO was not completed and no other grade is assessed. For modular courses, enrollment by the student in a subsequent semester is required. The grade of "Z" will be given only if students have completed the minimum number of modules, as designated in the course syllabus.

Changes or Contested Grades

All grade changes must be requested and made no later than the end of the long semester following the one in which the original grade was assigned. Students who wish to contest a grade from an instructor must address the issue with the instructor, department chair, dean, then vice president for instruction, in that order no later than the end of the long semester following the one in which the contested grade was assigned. Any change of grade must be documented and submitted to the Records Office using the Grade Change Request form available on the Records Office website. Any grade change request received by Records Office will be processed in a timely manner.

Academic Fresh Start

Under the provisions of the Texas Education Code Section 51.931 a Texas resident applying for admission to Odessa College may elect to have ALL course work earned ten years prior to the requested enrollment date ignored for purposes of enrollment. For additional information regarding "Academic Fresh Start," contact the Records Office, Saulsbury Campus Center, 432-335-6404.

Transferring Credit to Odessa College

Previous course work satisfactorily completed at regionally accredited institutions of higher education will be evaluated for transfer upon request and may be applied toward a degree and/or certificate program at OC.

Transcripts of students who have applied for admission to Odessa College will be evaluated after they are received by the Office of Admissions or the Records Office. **PLEASE NOTE: An official transcript is required from each college attended. Only official transcripts will be evaluated, upon request.**

Students should provide a photocopy of their transcript to their Student Success Coach rather than wait for the evaluation to be completed.

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 the Texas Higher Education Coordinating Board rules and/or regulations.

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. The commissioner or his designee 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. These courses are intended for transfer among Texas public institutions of higher education. This provision may not apply to occupational or technical courses, which often vary greatly in content and are intended for specific workforce skills education.

Transfer of Odessa College Credit to Another Institution

With the adoption of the Texas Common Course Numbering System, transferring among Texas colleges and universities has become less difficult. This system allows students to take courses at OC that are numbered the same at many Texas public colleges and universities. When the course numbers are not identical, students may use the online course matrix at www.tccns.org to examine course equivalency.

General academic courses taken at OC normally transfer to all other accredited institutions at face value. Grades earned at one college may not 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 Student Success Coach 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. Student Success Coaches will assist.

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

When students at Odessa College transfer to another institution, no transcripts will be released until all financial encumbrances 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 shall be aware that this provision was intended to apply to general academic courses. These courses are intended for transfer among Texas public institutions of higher education. This provision may not apply to occupational or technical courses, which often vary greatly in content and are intended for specific workforce skills education.

International Baccalaureate (IB) Program

Odessa College recognizes the International Baccalaureate (IB) Program. Students may receive college credit for courses taken in an IB program if one of the following conditions apply:

Option 1: Odessa College will award at least 24 semester hours of course-specific credit in subject appropriate areas on all IB exam scores of 4 or higher as long as the incoming freshman has earned an IB diploma. If a score of 3 or lower is achieved on any course in this diploma, this option is invalid. The student must supply an official high school transcript indicating that the IB Diploma has been earned before college credit will be awarded. College credit will be awarded according to the chart below, but no letter grade will be assigned. Credit thus awarded will not be calculated into a student's official grade point average. The credit awarded will appear on the transcript as "AWC" in place of a letter grade. Credit earned in this manner will not be used to reduce any residence requirements in a degree program and credit will not be awarded by IB scores of 3 or lower. This may mean that the student will not receive 24 hours of college credit, regardless of the completion of the IB Diploma. Credit will not be awarded for an IB exam for a college course the student has completed previously or is currently enrolled in. An official IB score report, or an official transcript, must be received by the Odessa College Testing Center before credit will be awarded.

Option 2: If a student does not earn an IB diploma, credit may be granted according to the following chart. Credit earned in this manner may not be used to reduce residence requirements in any degree program nor will the credit count as part of a student's official grade point average. An official IB score report, or an official transcript, must be received by the Odessa College Testing Center before credit will be awarded

IB SUBJECT	SL SCORE	HL SCORE	OC/TCCN COURSE	CREDIT
English 1A		4	ENGL 1301 or 1302*	3
		5+	ENGL 1301 and 1302	6
Spanish A2 or B	5	4	SPAN 1311, 1312	612
		5+	SPAN1311, 1312, 2311, 2312	
Business & Management	5	4	BUSI 1301	3
Economics	5	4	ECON 2301 and 2301	6
Geography	5	4	HIST 1301 or 1302	3
		5+	HIST 1301 and 1302	6
History	5	4	HIST 1301 and 1302	3
		5+	HIST 1301 and 1302	6
Philosophy	5	4	PSYC 2301	3
		5+		
Psychology	5	4	PSYC 2301	3
		5+	PSYC 2301 and 2314	6
Biology	4		BIOL 1408	4
		5	BIOL 1406	4
Chemistry		5	CHEM 1305 + 1105 (lab)	4
	6		CHEM 1311 + 1111 (lab)	4
Physics		6	PHYS 1401 and 1402	8
Mathematics (HL only)		4	MATH 2413	4
Visual Arts	5	4	ARTS 1301	3
Music	5	4	MUSI 1306	3

* ENGL 1302 credit is awarded if the prerequisite credit has already been earned

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Academic Transcripts

The record of a student's academic history is known as the academic transcript. An official transcript bearing the signature of the registrar, along with the seal of the college, is the document used to transfer college courses from one college to another.

Official copies of transcripts are obtained from the Records Office, located in the Saulsbury Campus Center. Requests must be submitted in writing or using one of the two electronic options listed below. Persons presenting requests at the Records Office will be asked to show a picture identification card. If a third party is requesting the transcript for a student, the third party must have written permission from the student stating they may pick up the transcript. The third party must show a picture identification card matching the name stated in the written request. Written requests may be made via letter or on a transcript request form that has been signed and dated. Forms are available from the Records Office or on the web at www.odessa.edu/dept/records. The completed form must then be mailed, or scanned and emailed, to the Records Office.

Requests sent using online request form (available at www.odessa.edu/dept/records/transcripts.htm) are valid only for transcripts to be sent to another college or university for educational purposes.Persons requesting transcripts by mail should send the written request to Records Office, Odessa College, 201 W. University, Odessa, TX 79764 or email the signed request form to the Records Office at Records@odessa.edu.

Official transcripts will not be issued for students with unmet financial obligations to the college. College records are protected under FERPA regulations (see the Index for information regarding FERPA).

Planning and Applying for Degrees and Certificates

Students working toward a degree or certificate should consult with their Student Success Coach and faculty advisor early in their academic career to ensure that all required courses are being completed. The student is responsible for keeping a degree plan to track their academic progress. The student will file a signed copy of their completed plan and a signed degree/certificate application form with the Records Office after registering for the courses needed to complete the degree.

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 vice president for instruction.

Catalog Applicability

Due to degree plan enhancements as a result of Texas SB 497, students are encouraged to consult with a Student Success Coach to determine if the current catalog offers an advantage over a previously selected catalog. Students may elect to remain in a prior catalog, providing no more than seven years have elapsed since the degree plan was assigned. 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 dean.

Due to changing requirements for some career, technical and workforce education programs students may be required to follow the most up-to-date degree plan for their major. Students can check their program's website for the most-up-to-date degree plan.

Graduating students always 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 department chair and Student Success Coach.

Applying for Graduation

Students completing degree requirements during the fall or midwinter are expected to participate in the fall graduation ceremony. Students who complete requirements in the spring, Maymester, or summer terms will be expected to participate in the spring graduation ceremony 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. Students also must complete a degree application and submit it to the Records Office with a copy of their signed degree plan. The application for graduation is also available online at www.odessa.edu/dept/records.

Students may purchase graduation supplies including cap and gown, invitations, jewelry, etc., from the Odessa College Bookstore.

Second Degrees

Students who previously earned a degree at Odessa College may apply for a second degree after all stated degree requirements for the second degree have been completed. Students seeking two degrees simultaneously must meet residency requirements (minimum of 15 semester hours) and specific major requirements before each degree will be awarded.

Instructional Support Services

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

OC Help Center

The OC Help Center provides information about getting started in college as well as class 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. The OC Help Center staff is available to assist potential and current students with general questions about the college.

The OC Help Center also exists to help students make decisions and solve problems. Some of the services available to students are academic advisement, admissions/transfer information, crisis referral, and help with career guidance.

Assistance is free and confidential. Any problems or concerns that interfere with the attainment of academic, career, technical, and workforce or personal goals can be discussed with a Student Success Coach of the student's choice.

The center is located in Room 204 of the Saulsbury Campus Center. Students can schedule an appointment with a Student Success Coach by calling 432-335-6433, but walk-in students are also accommodated. Periodically, special activities, programs and structured group experiences will be offered as well. Online advising is also available by contacting the Odessa College web site under "Students."

Special Populations/Disability Services/Learning Assistance

Odessa College affirms that it will provide access to programs, services and activities to qualified individuals with known disabilities as required by Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990 (ADA), unless doing so poses an undue hardship or fundamentally alters the nature of the program or activity.

Disabilities may include hearing, mobility or visual impairments as well as hidden disabilities such as chronic medical conditions (arthritis, cancer, diabetes, heart disease, kidney disorders, lupus, seizure disorders, etc.), learning disabilities or psychiatric or emotional disabilities.

A student who comes to Odessa College with diagnosed disabilities which may interfere with learning may receive accommodations when the student requests them and submits proper documentation of the diagnosis. A Request for Accommodations form and guidelines for beginning the request process are available in the OC Help Center or on the Odessa College web site at www.odessa.edu/dept/counseling/disabilities.

The college strives to provide a complete and appropriate range of services for students with disabilities such as assistance with testing, registration, information on adaptive and assistive equipment, tutoring, assistance with access and accommodations for the classroom where appropriate.

For information regarding services, students with disabilities should contact the Office of Disability Services in the OC Help Center located in Room 204 of the Saulsbury Campus Center or call 432-335-6433.

Career Services

The Help Center includes Career Services which are available to both credit and non-credit students as well as alumni. Career guidance is available from a Student Success Coach who can administer and interpret various career assessments designed to assist students in determining the occupations and college majors that line up with their interests, work values, skills and abilities. Students will also be shown techniques for investigation of occupations that may be of interest.

Career services offered include career exploration, off campus employment opportunities, resume building, and job interview strategies. The OC Help Center also coordinates and hosts an annual Job Fair for all OC students and the community.

Students who have not yet decided on a major, who need career information, referral to other services or job placement assistance should contact the Help Center by calling 432-335-6433.

Testing Center

The Testing Center, LRC 209, offers a variety of testing and assessment services designed to help students set and meet educational goals. Tests that are offered on a walk-in basis every weekday include the TSIA test, which is required for placement into college classes; the TEAS and HOBET tests required for admission to many of the College's Nursing and Allied Health programs; make-up tests for Odessa College classes and proctored testing for students enrolled in courses at other institutions. Tests that are scheduled on a regular basis include SAT and ACT.

Students with special testing needs are accommodated in the Testing Center. Individuals using the Center's services must present photo identification and social security cards. Cell phones and other electronic devices must be left outside the testing rooms. Children must be accompanied by an adult who is not testing. Please visit www.odessa.edu/dept/test/ for more.

Learning Resources Center

The Murry H. Fly Learning Resources Center (LRC) is a full-service academic library whose mission is to serve Odessa College students, faculty, and staff.

The LRC has more than 50,000 electronic books, 30,000 print books, and over 4,000 media holdings (includingmusic, videos and CDs). The library subscribes to over 60 research databases that provide thousands of specialized sources, including magazines, newspapers, and scholarly journals. Other services include:

- Research librarians (at the "Ask a Librarian" desks and via email) who are available to help students with assignments and general questions
- "How-to-Use-the-Library" orientation classes and other tutorials
- Computers for online research
- A reserve collection specifically dedicated to student coursework
- Quiet study areas
- Retrieval of materials from local and Texas libraries
- Photocopiers and VHS/DVD players

Many of the LRC's resources are available online via Odessa College's web site, www.odessa.edu (click on Learning Resources Center). There, students not only have a gateway to multiple research services, but also links to related, helpful sites.

Additionally, the LRC offers informational exhibits, a summer reading club, contests, and events. Contact the LRC at 432-335-6640 or at www.odessa.edu/dept/library.

Developmental Education

Some students enter Odessa College lacking many of the basic skills necessary for college level reading, writing and mathematics. The developmental education program offers specialized courses and activities designed to help students acquire basic educational skills.

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.

Student Success Center

Located in the LRC, the Student Success Center (SSC) provides assistance to students in meeting their academic and career goals. We strive to provide new and updated resources and services at no charge to OC students.

Academic support services include tutoring, study skills training, and workshops. Tutoring is available for a variety of subjects including, but not limited to, college mathematics, English, government, history, speech, chemistry, biology, and all developmental coursework. TSI test prep is also provided to students. Computer lab assistants are available to help students with Blackboard, OC portal, student email, and more.

The Student Success Center provides tutoring services in a number of locations on and off campus:

- Math Lab, located on the second floor of the Wood Math and Science building, provides support for all math-related tutoring
- Synapse Lab, located on the third floor of the Wood Math and Science building, provides support for all science-related tutoring
- Writing Center, located on the first floor of Wilkerson Hall, provides support for all writing-related tutoring
- Main Student Success Center located in the Learning Resources Center, provides tutoring support for all other subjects
- Onsite tutoring is also available at our Ranch location in Gardendale.
- Online tutoring services are available 24/7 through Upswing

Appointments are preferred, but walk-ins are accepted as availability allows. All computers in the center have Internet access, Microsoft Office, and software resources to assist OC students in improving their reading, writing and mathematical skills. For more information or to make an appointment, please call 432-335-6673 or visit www.odessa.edu/dept/ssc/

Campus Facilities

Student Housing

The experience of living on campus while attending college provides students with an environment for learning and growth that goes beyond the classroom experience. Students who live in the on-campus residence facilities have expanded opportunities to learn about interpersonal relations, personal planning and time management, problem solving, and the benefits of cooperation. On-campus housing is available for Odessa College students who are enrolled for a minimum of six semester hours in fall and spring semesters. Students on competitive athletic scholarships are required to live on campus except under extenuating circumstances approved in advance through the Director of Student Life and the Athletic Director.

The rules of campus living include the basic human-relations ideals of respect for each other and each other's property as well as some specific restrictions, including but not limited to no alcoholic beverages or illegal drugs on campus, including student residences, no smoking in residence hall facilities, no weapons or explosive devices on campus, and no disruptive or destructive behaviors.

Century Commons

Century Commons, a contemporary on-campus residential facility with space for over 200 students, provides an apartment-type living arrangement with private bedroom space for each occupant. Each apartment is fully furnished, and residents share a common living area and kitchen. Students may choose either a four-bedroom or two-bedroom arrangement. Two-bedroom units have one bath, and four-bedroom units have two baths.

Wrangler Hall

Wrangler Hall is the on-campus home to the Men's Rodeo team and is also used for overflow or temporary housing, as requested. This facility is a suite style residence hall that comes equipped with laundry services, community microwaves and refrigerators. Cable and Internet access are included in each room.

Both Residence hall options include 15 meals per week. There is no food service on weekends. For information and reservations for student housing, call 432-335-6300.

Payment Options – One of the following options must be completed before a resident will be allowed to move in:

1) Pay the semester housing charge in full online via WebAdvisor, by mail, phone or in person at Wrangler Express. Payment can be made with cash, money order, check, Visa, Mastercard or Discover.
2) Pay the semester housing charge in full electronically through e-Cashier on the Odessa College web site www.odessa.edu. A $2.50 nonrefundable fee will be charged to pay in full electronically.
3) Arrange for monthly payments through FACTS Management installment plan by visiting e-Cashier on the Odessa College web site www.odessa.edu. A $25 per semester nonrefundable FACTS Enrollment Fee will be charged on this plan. No interest or finance charges will be assessed. Scheduled payments will be automatically drafted from a checking, savings or credit card account. (VISA not accepted.)

Bookstore

The Odessa College Bookstore is an auxiliary enterprise operated by Texas Book Company 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.

Children's Center

The Odessa College Children's Center provides daytime care for 91 children throughout the year for children ages six weeks to five-years-old; offered first to OC students, faculty, and staff, and then to the community. 25 additional children ages 6 – 11 are added in the summer. We are open year-round from 7:00 a.m. to 6:00 p.m. Monday through Friday, except on regularly scheduled college holidays. While providing childcare service, the Children's Center also serves as a learning laboratory for Odessa College students in child development, child psychology and lifespan classes.

Sports Center

The OC Sports Center is the home arena to the OC Wrangler and Lady Wrangler basketball teams and Lady Wrangler Volleyball Team. 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.

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.

Wrangler Express Center

The Wrangler Express Center is your first stop during your visit to Odessa College. The Wrangler Express provides various services and has extended hours to better serve YOU. During your visit, the Wrangler Express can assist you with:

- Applying for admissions
- Applying for financial aid
- Making a payment
- Setting up a payment
- Obtaining a student ID
- And much MORE…

Wrangler Express Center Hours:
Spring & Fall
Monday-Thursday: 7:30 am-7 pm
Friday: 7:30 am-5 pm
Saturday: 9 am-Noon

Summer I & II
Monday-Thursday: 8 am-7 pm
Friday: 7:30 am-5 pm
Closed Saturdays

For information, please call 432-335-6848.

Meeting Facilities

Odessa College has meeting facilities available for businesses, non-profit clubs and organizations on a space-available basis. All events scheduled at OC requiring beverages and/or food service should contact Great Western Dining at 432-335-6435. For information on room availability, set-up arrangements, and applicable fees, please contact the Facilities Contracts Office at 432-335-6754.

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 directions to campus buildings and events, vehicles with battery problems, keys locked in vehicles, and location of lost and found property.. The Police Department office phone is 432-335-6666. Police officers may be contacted on a 24-hour basis at 238-6334. The Police Department is located on the south end of campus, situated between Wilkerson Hall and the Wood Building of Math and Science.

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.

Emergency messages for students should be directed to the Office of the Vice President for Student Services on weekdays during normal business hours.

After hours emergency messages should be directed to the campus police at 432-238-6334.

Emergency Information

Odessa College has determined two means of communication for the purpose of notifying students, faculty and staff of emergency situations.

Wrangler Alerts

Students, their family and employees may register for Wrangler Alerts online. Wrangler Alerts is an automated system which allows individuals to have emergency messages sent via text or voicemail to cell phones, home phones or email. This is an opt-out service for all active students, faculty, and staff. Other registrations occurs online and information can be revised at any time based on the individual's preferences at www.odessa.edu/wrangleralerts.

Emergency Message Boards

The college is equipped with Messaging Boards in each building and in the event of an emergency the boards will provide key information regarding the emergency situation. An audible alarm will be heard to draw attention to the boards which will provide instruction on emergency evacuations, lockdowns or severe weather situations.

Campus Life

Student Activities

Odessa College's Philosophy is 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 faculty on an informal basis can provide students with insights and understanding about their society and can enrich the quality of students' lives. Student Activities provides a wide range of extracurricular opportunities including a full calendar of campus-based events and a game room with free access to a wide library of table, board, and video games.

Information about all Student Activities programs is available by contacting the Student Activities Office. The office is located in Saulsbury Campus Center 232, or can be reached by phone at 432-335-6403 and email at studentactivities@odessa.edu.

Specific opportunities for students to participate in student activities include the following:

Registered Student Organizations (RSOs)

An increasing number of diverse student organizations are active on campus. These groups include service organizations, honor societies, special interest groups, and organizations related to academic pursuits, such as criminal justice or welding. Odessa College RSOs meet on a regular basis, host campus events, and provide leadership and involvement opportunities for all students. Students may visit the Student Activities Office for more information about getting involved with an existing RSO, or creating a new one.

Student Government Association

The Student Government Association (SGA) exists to give students an active role in campus life. SGA meets on a weekly basis to discuss campus issues; communicates with students, staff, faculty, administration, and community organizations; provides personal and professional development opportunities; and supports and recognizes the other Odessa College RSOs. SGA is involved in the overall policy and decision-making process and assists in enhancing the overall quality and scope of education for Odessa College. SGA encourages all students to attend their weekly meetings, and can always be reached via email at sga@odessa.edu.

Intramurals

Intramural Sports provide an outlet for casual competition among members of the Odessa College community. Recurring league sports include volleyball, basketball, and flag football, with other sports operating as single-day or weekend events. Intramural Sports are a function of the Student Activities Officer. Participation is free for all students, faculty, staff, and Sports Center members, and is open to community members for a nominal fee.

Choir and Band

Odessa's College's A Cappella Choir and Vocal Ensembles perform an array of programs throughout the school year, including choral classics, operas sung in English, and Broadway/pop music. The OC Choir has performed for the Texas Music Educators Association convention in San Antonio, at Carnegie Hall in New York City, and on tour in England and Wales.

The music department also boasts a large Concert Band, which includes students and community members. In addition, the college has an active Jazz Band which performs regularly on campus and in the community, and has travelled to various locations in the United States. The Wrangler Pep Band provides entertainment and excitement to the OC Men's and Women's basketball games. All instrumental ensembles provide scholarship assistance to participating students.

Athletics

Odessa College has earned a national reputation for its outstanding athletic programs for student athletes. OC is among the nation's elite with 46 national titles. OC has produced more than 500 National Junior College All-Americans.

OC offers competitive athletics for women in basketball, volleyball, softball, rodeo, and cross country. Men's teams compete in basketball, baseball, golf, rodeo, and cross country. Coed cheerleading, women's dance, and student trainers are also a part of Odessa College athletics.

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 the NJCAA tournaments every year.

Women's Softball

The 2000-2001 season was the very first time OC fielded a women's softball team. The Lady Wranglers wasted no time becoming a serious contender. In fact, in just its third season of competition, the team qualified for the national tournament. The Lady Wranglers finished third at the national tournament during the 2005 season, and have finished in the top ten nationally many times since.

Men's Basketball

The Wranglers have enjoyed a long and rich basketball tradition since beginning play in 1952. The team has produced over 200 Division I players. OC has also been the starting point for numerous NBA careers. Former #1 NBA draft pick Larry Johnson heads an impressive list of former OC players that includes Moochie Norris, Craig Ehlo, and Rodney Dent who have enjoyed success in the NBA.

Women's Basketball

The Lady Wranglers have won three national championships. The most recent championship came in 2007. The 2006 team finished second at the national tournament. During 2006 and 2007 the team posted a remarkable 56-3 record. The Lady Wranglers have produced 10 All-Americans, as well as over 50 All-Region players.

Baseball

Odessa College fielded a baseball team from 1965-1971. The program was dropped in 1971. After a 19-year hiatus, baseball was reinstated in 1990. Since 1990, the Wranglers have won 5 conference championships and finished third at the Junior College World Series in 1995. Former OC Wranglers who have made it to the Major League include Steve Kent, Jim Chamblee, and Rick Loiselle.

Men's Golf

The Wrangler's have won an impressive 8 national championships. Hall of Fame coach Paul Chavez has led the Wranglers since 1996. Coach Chavez has led his team to seven top five finishes at the national tournament. The Wranglers won back-to-back national championships in 2004 and 2005.

Men's and Women's Rodeo

OC is nationally recognized as a power rodeo school in the National Intercollegiate Rodeo Association's Southwest Region, fielding both men and women's teams.

Rodeo began at OC in 1982 and during its twenty-plus year history, with the exception of only three years, members of the OC rodeo team have qualified for the College National Finals. The men's teams have won 13 regional event titles, two regional team championships, 11 national event titles and the National Intercollegiate Rodeo Association National Team Championship in 1989. Since the team's inception, members of the men's team have brought home a first place in national competition in numerous years with the most recent wins being at the Canadian National Finals Rodeo in bull riding in 2006 and at the College National Finals in bareback riding in 2003 and 2004. Women's team members also qualified for the College National Finals in 1993, 1994, 2000, 2004 and 2005.

The OC rodeo program also can boast of several former students, including Jim Sharp, Ty Murray, Shawn McMullan, Adam Carrillo, Gilbert Carrillo, Jerome Davis, Jason Lahr, Cimmaron Gerke, D.J. Domangue, Ryan Gray and Justin Arnold, who successfully moved into the professional ranks in the Professional Rodeo Cowboys Association (PRCA) and qualified for the Wrangler National Finals Rodeo.

Volleyball

Odessa College played the initial season of Women's volleyball during the 2011 fall term. With an entire team of freshman, the wranglers finished with a .500 record and were competitive within the Western Junior College Athletic Conference. Volleyball provides an exciting fall sport for the campus and the students of Odessa College.

Spirit Squad

Scholarship opportunities exist in both dance and cheerleading. The spirit squad at Odessa College serves as support for OC events, community events and to promote the college throughout West Texas. Additionally, the spirit squad trains to attend state and regional competitions in each discipline.

Student Trainers

Student trainers have been an integral part of the success of the athletic program at Odessa College for the past 30 years. Student trainers work with each specific sport program to ensure the safety and health of the athletes at Odessa College.

Cross Country

A long history of success in cross country and track and field existed at Odessa College for many years. However, the program was discontinued and just recently has been reinstated. Cross country began once again during the 2009 season and limited track opportunities with the 2011 season.

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 42 semester credit hours. The core curriculum can be transferred in block to any Texas institution and substituted for the receiving institution's core curriculum. Students who complete the core may be eligible for a Core Completion Certificate.

Core Curriculum

010 - Communication (6 hrs)
Two of the following:
ENGL 1301 – Composition I
ENGL 1302 – Composition II
ENGL 2311 - Technical & Business Writing
SPCH 1311 – Introduction to Speech Communication
SPCH 1315 – Introduction to Public Speech
SPCH 1318 – Interpersonal Communication
SPCH 1321 – Business and Professional Speech

020 - Mathematics (3 hrs)
One of the following:
MATH 1314 – College Algebra
MATH 1324 – Mathematics for Business and Social Sciences I
MATH 1332 – Contemporary Mathematics I
MATH 1333 – Contemporary Mathematics II
MATH 1342 – Elementary Statistical Methods
MATH 2413 – Calculus I

030 - Life and Physical Sciences (6 hrs)
Two of the following:
AGRI 1415 - Horticulture
BIOL 1406 – General Biology I
BIOL 1407 – General Biology II
BIOL 1408 – Biology for Non-Science Majors I
BIOL 1409 – Biology for Non-Science Majors II
BIOL 2401 – Anatomy & Physiology I
BIOL 2402 – Anatomy & Physiology II
BIOL 2406 – Environmental Biology
CHEM 1311– General Chemistry I (must be taken with CHEM 1111)
CHEM 1312– General Chemistry II (must be taken with CHEM 1112)
GEOL 1403 – Physical Geology
GEOL 1404 – Historical Geology
PHYS 1403 – Stars and Galaxies
PHYS 1404 – Solar System
PHYS 2425 – University Physics I
PHYS 2426 – University Physics II

040 - Language, Philosophy and Culture (3 hrs)
One of the following:
COMM 2300 – Media Literacy
ENGL 2321 – British Literature
ENGL 2322 – British Literature I
ENGL 2323 – British Literature II
ENGL 2326 – American Literature
ENGL 2327 – American Literature I
ENGL 2328 – American Literature II
ENGL 2331 – World Literature
ENGL 2341 - Forms of Literature
ENGL 2351 – Mexican-American Literature
HIST 2311 – Western Civilization I
HIST 2312 – Western Civilization II
HIST 2321 – World Civilization I
HIST 2322 – World Civilization II
HUMA 1301 – Introduction to Humanities I
HUMA 1302 – Introduction to Humanities II
HUMA 1305 – Introduction to Mexican American Studies
HUMA 2319 – American Minority Studies
HUMA 2323 – World Cultures
PHIL 1301 – Introduction to Philosophy
PHIL 1304 – Introduction to World Religions
PHIL 2303 – Introduction to Logic
PHIL 2306 – Introduction to Ethics
SPAN 1311 – Beginning Spanish I
SPAN 1312 – Beginning Spanish II
SPAN 2311 – Second Year Spanish I
SPAN 2312 – Second Year Spanish II
SPAN 2313 – Spanish for Native/Heritage Speakers I
SPAN 2315 – Spanish for Native/Heritage Speakers II

050 - Creative Arts (3 hrs)
One of the following:
ARTS 1301 – Art Appreciation
ARTS 1303 – Art History I
ARTS 1304 – Art History II
DRAM 1310 – Introduction to Theater
ENGL 2307 – Creative Writing I
MUSI 1301 – Fundamentals of Music I
MUSI 1306 – Music Appreciation
MUSI 1308 – Music Literature I

060 - American History (6 hrs)
Two of the following:
HIST 1301 – United States History I
HIST 1302 – United States History II
HIST 2301 – Texas History
HIST 2327 – Mexican-American History I
HIST 2328 – Mexican-American History II
HIST 2381 – African-American History

070 - Government/Political Science (6 hrs)
Two of the following:
GOVT 2305 – Federal Government
GOVT 2306 – Texas Government

080 - Social & Behavioral Sciences (3 hrs)
AGRI 2317 – Introduction to Agriculture Economics
COMM 1307 – Introduction to Mass Communication
ECON 2301 – Principles of Macroeconomics I
ECON 2302 – Principles of Microeconomics II
ECON 2311 – Economic Geography
GEOG 1301 – Physical Geography
GEOG 1302 – Cultural Geography
GEOG 1303 – World Geography
GEOG 2312 Economic Geography
PSYC 2301 – General Psychology
PSYC 2306 – Human Sexuality
PSYC 2308 – Child Psychology
PSYC 2314 – Lifespan Growth & Development
PSYC 2319 – Social Psychology
SOCI 1301 – Introductory Sociology
SOCI 1306 – Social Problems
SOCI 2301 – Marriage and the Family
SOCI 2306 – Human Sexuality
SOCI 2326 – Social Psychology
SOCI 2336 – Criminology
SOCI 2340 – Drug Use and Abuse

090 - Component Area Option (6 hrs)
Two or four of the following:
AGRI 1309 – Computers in Agriculture
BCIS 1305 – Business Computer Applications
CHEM 1111 – General Chemistry I
CHEM 1112 – General Chemistry II
ENGL 2311 – Technical & Business Writing
KINE 1166 – First Aid
SPCH 1144 – Forensic Activities I
SPCH 1145 – Forensic Activities II
SPCH 1146 – Parliamentary Procedure
SPCH 1311 – Introduction to Speech Communication
SPCH 1315 – Public Speaking
SPCH 1318 – Interpersonal Communication
SPCH 1321 – Business and Professional Speaking
SPCH 2144 – Forensic Activities III
SPCH 2145 – Forensic Activities IV

Total Credit Hours **42**

Core Completion Certificate

Students who complete the Odessa College Core are eligible to receive the Core Completion Certificate.

Residency Requirements:

To receive the core completion certificate students must complete a minimum of 25% of the semester credit hours required for the certificate, excluding developmental or awarded credits, at Odessa College.

Core Certificate Requirements	**42**
10 – Communication	6
20 – Mathematics	3
30 – Life and Physical Sciences	8
40 – Language, Philosophy and Culture	3
50 – Creative Arts	3
60 – American History	6
70 – Government/Political Science	**6**
80 – Social & Behavioral Sciences	3
90 – Component Area Option	4

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 career, technical, and workforce skills.

The associate in arts is available in the following areas:

- **Art**
- **Business Administration (Field of Study)** (Leading to a B.B.A in Accounting, Finance, Personnel, Management and Marketing)
- **Communication**
- **English**
- **Foreign Language**
- **General Studies**
- **Music (Field of Study)**
- **Psychology**
- **Sociology**
- **Social Science**
- **Substance Abuse Counseling**
- **Teaching**
- **Theater**

Requirements for Associate in Arts Degree

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

- **Core Curriculum:**
  - English 1301 Composition I
  - English 1302 Composition II
  - Communication (one course from OC Core)
  - Mathematics (one course from OC Core)
  - Life and Physical Sciences (two courses from OC Core)
  - Language, Philosophy and Culture (one course from OC Core)
  - Creative Arts(one course from OC Core)
  - American History (two courses from OC Core)
  - Government 2305 Federal Government
  - Government 2306 Texas Government
  - Social and Behavioral Sciences (one course from OC Core)
  - Component Area Option (two courses totaling a minimum of 4 SCH)

  NOTE: Core Curriculum Requirements may differ for designated Field of Study programs such as Business Administration and Music

- A minimum of 60 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.
- Students who are not exempt from the provisions of TSIA must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.

Residency Requirements:

To receive an associate in arts degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 25% of the semester credit hours required for the degree, excluding developmental or awarded credits, at Odessa College.

Option 2: Complete a minimum of 18 semester credit hours, excluding developmental or awarded credits, 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 career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

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 areas:

- **Agriculture**
- **Biology**
- **Chemistry**
- **Computer Science (Field of Study)**
- **Criminal Justice Forensics**
- **Geology**
- **Mathematics**
- Exercise and Sports Science
- **Physics**

Requirements for Associate in Science Degree

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

- **Core Curriculum:**
  - English 1301 Composition I
  - English 1302 Composition II
  - Additional Communications (one course from OC Core)
  - Mathematics (one course from OC Core)
  - Life and Physical Sciences (two courses from OC Core)
  - Language, Philosophy and Culture (one course from OC Core)
  - Creative Arts (one course from OC Core)
  - American History (two courses from OC Core)
  - Government 2305 Federal Government
  - Government 2306 Texas Government
  - Social and Behavioral Sciences (one course from OC Core)
  - Component Area Option (two courses totaling a minimum of 4 SCH)

  NOTE: Core Curriculum Requirements may differ for designated Field of Study programs such as Computer Science.

- A minimum of 60 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.
- Students who are not exempt from the provisions of TSI must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.

Residency Requirements:

To receive an associate in science degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 25% of the semester credit hours required for the degree, excluding developmental or awarded credits, at Odessa College.

Option 2: Complete a minimum of 18 semester credit hours, excluding developmental or awarded credits, 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 career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

Associate in Arts in General Studies

The associate in arts in general studies degree, known as the A.A.G.S., is designed to allow the student to select from a wide range of courses that fulfill the requirement of a generalized education.

Students should check the requirements of the senior institution before planning a course of study. See your Student Success Coach for more information.

Requirements for Associate in Arts in General Studies Degree

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

- **Core Curriculum:**
  - English 1301 Composition I
  - Additional Communications (one course from OC Core)
  - Mathematics (one course from OC Core)
  - Life and Physical Science (two courses from OC Core)
  - Language, Philosophy, and Culture (one course from OC Core)
  - Creative Arts (one course from OC Core)
  - American History (two courses from OC Core)
  - Government 2305 Federal Government
  - Government 2306 Texas Government
  - Social and Behavioral Sciences (one course from OC Core)
  - Component Area Option (two courses totaling a minimum of 4 SCH)
- **Life Enrichment Electives – a minimum of 14 semester credit hours:** In addition to the courses required above, students may select from any college-level courses offered by Odessa College. The only limitation applies to physical education classes, and no more than four (4) one-hour activity classes may be counted toward the A.A.G.S. Students should exercise caution in the selection of elective courses to guarantee transferability of course work.
- 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.
- Students who are not exempt from the provisions of TSI must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.

Residency Requirements:

To receive an associate in arts in general studies degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 25% of the semester credit hours required for the degree, excluding developmental or awarded credits, at Odessa College.

Option 2: Complete a minimum of 18 semester credit hours, excluding developmental or awarded credits, 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 career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

Associate of Arts in Teaching

The associate of arts in teaching (AAT) degree is a Coordinating Board-approved degree consisting of lower-division courses intended for transfer to baccalaureate programs leading to initial Texas teacher certification. There are seven AAT curricula which require at least 60 semester credit (SCH) hours of coursework.

Requirements for Associate of Arts in Teaching Degree

Core Curriculum Requirements	**42**
ENGL 1301 Composition I	3
ENGL 1302 Composition II	3
GOVT 2305 Federal Government	3
GOVT 2306 Texas Government	3
American History (from OC Core)	6
Language, Philosophy, and Culture (from OC Core)	3
Math (from OC Core)	3
Life and Science (from OC Core)	8
Social/Behavioral Science (PSYC 2308 or 2314)	3
Creative Arts (from OC Core)	3
Component Area Option	3
Component Area Option	1
Teacher Preparation Sequence	**6**
Content Area Teaching Field or Discipline Specific Requirements	**8-12**
Total Semester Credit Hours	**60**

To qualify for the associate in arts in teaching degree, students must also meet the following requirements:

- 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.
- Students must pass all three sections of the TSIA and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.

Residency Requirements:

To receive an associate in arts in teaching degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 25% of the semester credit hours required for the degree, excluding developmental or awarded credits, at Odessa College.

Option 2: Complete a minimum of 18 semester credit hours, excluding developmental or awarded credits, 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 career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

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 Student Success Coach for more information.

OC awards the A.A.S. degree in the following areas:

- Automotive Technology
- Business Leadership
  - Business Leadership
  - Small Business Management
- Child Development
- Computer and Information Science
  - Gaming
  - Networking
  - PC Support
- Cosmetology
  - Operator
  - Instructor
- Criminal Justice
  - Criminal Justice
  - Criminal Justice Leadership
- Culinary Arts
  - Culinary Arts
  - Food Service Management
- Diesel Technology
- **Energy Technology**
  - Instrumentation and Electrical Technology
- Emergency Medical Services Professional
- Fire Technology
  - Fire Administration
- Machine Technology
- Nursing – A.D.N.
- Occupational Safety Technology
- Office Systems
- Office Systems/Medical Emphasis
- Paralegal Studies
- Photography
- Physical Therapist Assistant
- Radiologic Technology
- Surveying
- Welding – Industrial Welding Technology

Requirements for Associate in Applied Science Degree

The degree requirements are based on guidelines established by the Southern Association of Colleges and Schools and the Texas Higher Education Coordinating Board. All degrees contain at least 17 semester credit hours of general education courses including at least one course from each of the following: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Additional courses document graduates' competencies in reading, writing, oral communications, fundamental mathematical skills, and the basic use of computers. To qualify for the associate in applied science, students must complete all of the following:

- Core Curriculum:
  - Language, Philosophy & Culture or Creative Arts (as specified in each program)
  - Mathematics (as specified in each program)
  - Natural Science (as specified in each program)
  - Humanities / Visual and Performing Arts (one course from OC Core)
  - Social and Behavioral Sciences (as specified in each program)
- Major concentration and electives (as specified in each program)
- A minimum of 60 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.
- Students who are not exempt from the provisions of TSI must pass all three sections and have scores reported to Odessa College.
- Discharge of all financial obligations to Odessa College prior to graduation.

Residency Requirements:

To receive an associate in applied science degree, a student must meet one of the following residency options:

Option 1: Complete a minimum of 25% of the semester credit hours required for the degree, excluding developmental or awarded credits, at Odessa College; and, if the degree is in a career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

Option 2: Complete a minimum of 18 semester credit hours, excluding developmental or awarded credits, 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 career, technical or workforce education program, complete at least 12 semester hours in the major field at Odessa College.

Certificate of Technology

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

Automotive Technology
- Automotive Technician
- Automotive Specialist

Business Leadership/Small Business Management
- Small Business
- Leadership
- Management Skills

Computer and Information Science
- Computer and Information Science
- Gaming
- Intermediate Network Technician
- Intermediate PC Support Technician
- Technician

Diesel Technology
- Diesel Tech
- Transportation Diesel Technician
- Industrial Diesel Specialist

Energy Technology
- Electrical Tech
- Industrial Tech
- Advanced I & E Technician
- Wind

Machine Technology
- Computer Numerical Control Operator
- Manual Machine Operator
- Advanced Machinist

Occupational Safety and Health Technology

Office Systems Technology
- Accounting Technician
- Medical Office Resource Expert
- Medical Office Assistant
- Office Clerk
- Office Assistant

Surveying

Welding – Industrial Welding Technology
- Advanced Welder
- General Welder
- Lead Welder

Requirements for Certificates of Technology

Certificates of technology are awarded for completion of program requirements with a minimum average of "C" (2.0) in all non-developmental course work in certain occupational and technical curricula as prescribed in the Odessa College catalog or as approved by the respective division dean. To receive a certificate of technology, a student must meet the following requirements:

- A minimum of 25% of the career technical and workforce education program courses required for the certificate must have been completed in residence at Odessa College.
- Students who are not exempt from the provisions of TSI or not in a TSI-waived certificate program must pass all three sections of the TSIA 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 KINE requirement, if any, by submitting a copy of Form DD-214 to the Records Office.

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 career technical and workforce education fields (refer to individual departmental sections for specific course and semester hour requirements):

Child Development
- Child Development Associate (CDA)
- Child Care/Preschool Assistant Teacher

Cosmetology
- Instructor
- Operator
- Manicure

Criminal Justice
- Criminal Justice
- Criminal Justice Leadership
- Law Enforcement

Culinary Arts
- Food Production Cook

Emergency Medical Services Professional
- EMT-Basic
- Emergency Medical Services Professional – Paramedic

Fire Technology
- Basic Firefighter

Nursing – Vocational

Paralegal Studies

Photography
- Photo Lab Assistant
- Digital Imaging Assistant
- Portrait Studio Assistant

Requirements for Certificates of Completion

Certificates of completion are awarded for completion of program requirements with a minimum average of "C" (2.0) in all non-developmental course 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.

To receive a certificate of completion, a student must meet the following requirements:

- A minimum of 25% of the career technical and workforce education program courses required for the certificate must have been completed in residence at Odessa College.
- Students who are not exempt from the provisions of TSI or not in a TSI-waived certificate program must pass all three sections of the TSIA 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 KINE requirement, if any, by submitting a copy of Form DD-214 to the Records Office.

Award of Institutional Recognition

Awards of institutional recognition that consist of 15 or fewer semester credit hours may be given in certain career technical and workforce education programs. To be eligible for an institutional award of recognition, the student must complete all courses required for that award in residence at Odessa College.

Institutional Core Objectives

Given the rapid evolution of necessary knowledge and skills and the need to take into account global, national, state, and local cultures, the core curriculum must ensure that students will develop the essential knowledge and skills they need to be successful in college, in a career, in their communities, and in life. Therefore, with the assistance of the Undergraduate Education Advisory Committee, the Coordinating Board has approved guidelines for a core curriculum for all undergraduate students in Texas.

Through the application and assessment of objectives within the institution's core curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world; develop principles of personal and social responsibility for living in a diverse world; and advance intellectual and practical skills that are essential for all learning.

Appropriate Odessa College faculty periodically evaluate all of the courses listed in the descriptions on the following pages of this catalog and keys them to Odessa College's Institutional Core Objectives (ICOs), as defined by the Texas Higher Education Coordinating Board (THECB). The numbers found at the end of each course description refer to the following list of objectives as adopted by Odessa College:

Odessa College's Institutional Core Objectives (ICOs):

1) **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2) **Communication Skills** - to include effective development, interpretation and expression of ideas through written, oral and visual communication
3) **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4) **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5) **Personal Responsibility** - to include the ability to connect choices, actions and consequences to ethical decision-making
6) **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

NOTE: Additional course pre-requisites, co-requisites, and other special requirements may also be found at the end of each course description.

Guide to Course Abbreviations

ACCT	See Business Administration
ACNT	See Office Systems Technology
AGRI	See Agriculture
ARTS	See Art
ARTV	See Computer and Information Science
ASTR	See Physics/Astronomy
AUMT	See Automotive Technology
BCIS	See Computer Science
BIBL	See Social Sciences
BIOL	See Biology
BMGT	See Business Leadership
BUSG	See Business Leadership
BUSI	See Business Administration
CDEC	See Child Development
CETT	See Energy Technology
CHEF	See Culinary Arts
CHEM	See Chemistry
CJCR	Criminal Justice
CJLE	Criminal Justice
CJSA	Criminal Justice
COLL	See College Preparation
COSC	See Computer Science
CRIJ	See Criminal Justice
CSME	See Cosmetology
DAAC	See Substance Abuse Counseling
DEMR	See Diesel Technology
DRAM	See Drama
ECON	See Social Sciences
EDUC	See Teacher Education
EEIR	See Energy Technology
ELMT	See Energy Technology
ELPT	See EnergyTechnology
EMSP	See Emergency Medical Services Professional
ENGL	See English and Foreign Languages
ENGR	See Engineering

Back to ToC

EPCT	See Occupational Safety and Health Technology
ESOL	See English and Foreign Languages
ETWR	See Occupational Safety and Health Technology
FDST	See Culinary Arts
FIRS	See Fire Technology
FIRT	See Fire Technology
FITT	See Physical Education
FORS	See Biology/Law Enforcement
GAME	See Computer and Information Science
GEOG	See Geology/ Geography
GEOL	See Geology/ Geography
GOVT	See Social Sciences
HAMG	See Culinary Arts
HITT	See Office Systems Technology
HIST	See Social Sciences
HMSY	See Criminal Justice
HPRS	See Biology/Office Systems Technology
HRPO	See Business Leadership
IEIR	See Energy Technology
IFWA	See Culinary Arts
IMED	See Computer and Information Science
INTC	See Energy Technology
ITDF	See Criminal Justice/Computer and Information
ITNW	See Computer and Information Science
ITSC	See Computer and Information Science
ITSW	See Computer and Information Science See Office Systems Technology
ITSY	See Computer and Information Science
KINE	See Kinesiology & Exercise Science
LGLA	See Paralegal Studies
MATH	See Mathematics
MCHN	See Machine Technology
MDCA	See Emergency Medical Services Professional
MRKG	See Business Leadership
MRMT	See Office Systems Technology
MUAP	See Music
MUEN	See Music
MUSI	See Music

OSHT	See Occupational Safety and Health Technology
PHIL	See Social Sciences
PHTC	See Photography
PHYS	See Physics
POFI	See Office Systems Technology
POFL	See Office Systems Technology
POFM	See Office Systems Technology
POFT	See Office Systems Technology
PSTR	See Culinary Arts
PSYC	See Psychology and Sociology
PTAC	See Energy Technology
PTHA	See Physical Therapist Assistant
QCTC	See Occupational Safety and Health Technology
RADR	See Radiologic (X-ray) Technology
READ	See Reading
RNSG	See Nursing – A.D.N.
RSTO	See Culinary Arts
SCIT	See Occupational Safety and Health Technology
SOCI	See Psychology and Sociology
SPAN	See English and Foreign Languages
SPCH	See Speech
SPNL	See Office Systems Technology
SURG	See Surgical Technology
TECA	See Child Development
VNSG	See Nursing – Vocational
WIND	See Energy Technology
WLDG	See Welding Technology

MetaMajors

At Odessa College, we expect prospective students to select one of 100+ majors on our admissions application without really understanding how those majors or programs of study lead to gainful employment or transfer. While college admissions application and selection of majors was traditionally designed to facilitate self-exploration and choice, we know that when students are offered too many choices, they oftentimes shut down. As a result, OC introduced MetaMajors in the Fall of 2014 to facilitate the admissions process and selection of an educational pathway that supports the new Texas high school endorsements and existing career clusters. We anticipate the MetaMajors will inform recruitment conversations and programming; provide the framework for meaningful first semester experiences and career exploration; reduce the number of students lost in general studies or hoping for selective program entry; and will allow for general education contextualization within MetaMajors. The five OC MetaMajors are:

- Health Sciences;
- Business & Industry;
- Arts & Humanities;
- Science, Technology, Engineering & Math (STEM); and
- Public Services.

We are confident that the MetaMajors concept and program will provide support for students from application to graduation by establishing industry specific and career focused relationships between student services, faculty, and individual students through mentorship and purposeful advisement.

Course of Study for Associate of Arts in General Studies Degree – Health Sciences MetaMajor

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1314	College Algebra **OR**	
MATH	1342	Elementary Statistics	3
HIST	1301	United States History I	3
BIOL	2401	Anatomy & Physiology I	4
BIOL	2402	Anatomy & Physiology II	4
PHED	1166	First Aid	1
Communication (*from OC Core*)			3
Psychology (*from OC Core*)			3
Sociology (*from OC Core*)			3
American History *(from OC Core)*			3
Creative Arts (*from OC Core*)			3
Language, Philosophy and Culture (*from OC Core*)			3
Major Requirements			**18**
KINE	1301	Intro to Physical Fitness/Sport	3
BIOL	1322	Nutrition & Diet Therapy I	3
HITT	1205	Medical Terminology **OR**	
KINE	1166	First Aid **AND**	
HPRS	1006	Essentials of Medical Terminology	2
EMSP	1501	EMT Basic	5
EMSP	1160	EMT Basic Clinical	1
PHIL	2306	Intro to Ethics	3
Math (*from OC Core*)			3
Physical Science (*from OC Core*)			4
Business Management (*from OC Core*)			3
Allied Health Electives (no more than 6 SCH)			
Total Semester Hours			**60**

Course of Study for Associate of Arts in General Studies Degree – Business and Industry MetaMajor

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1146	Parliamentary Procedure	1
HIST	1301	United States History I	3
MATH	(*from OC Core*)		3
American History *(from OC Core)*			3
Language, Philosophy and Culture (*from OC Core*)			3
Life and Physical Science (*from OC Core*)			8
Creative Arts (*from OC Core*)			3
Social and Behavioral Sciences (*from OC Core*)			3
Component Area Option			3
Major Requirements			**18**
ITSC	2421	Integrated Software Applications II	3
BMGT	1301	Supervision	3
MCHN	1438	Basic Machine Shop I	4
Approved Elective			4
Approved Elective			4
Total Semester Hours			**60**

Course of Study for Associate of Arts in General Studies Degree – Arts & Humanities MetaMajor

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	(*from OC Core*)		3
American History *(from OC Core)*			6
Language, Philosophy and Culture (*from OC Core*)			3
Life and Physical Science (*from OC Core*)			8
Creative Arts (*from OC Core*)			3
Social and Behavioral Sciences (*from OC Core*)			3
Component Area Option (*from OC Core*)			3
Component Area Option (*from OC Core*)			1
Major Requirements			**18**
6 courses from the following:			18
ARTS	2348	Digital Art	
ARTS	2356	Photography I	
ARTS	1301	Art Appreciation	
ARTS	1303	Art History I	
ARTS	1304	Art History II	
DRAM	1162	Musical Theater I	
DRAM	1310	Introduction to Theater	
DRAM	1330	Stagecraft I	
DRAM	1351	Acting I	
ENGL	2307	Creative Writing I	
MUSI	1301	Fundamentals of Music I	
MUSI	1306	Music Appreciation	
MUSI	1308	Music Literature I	
SPAN	1311	Beginning Spanish I	
SPAN	1312	Beginning Spanish II	
SPAN	2311	Intermediate Spanish I	
SPAN	2312	Intermediate Spanish II	
HIST	2311	Western Civilization I	
HIST	2312	Western Civilization II	
HIST	2321	World Civilization I	
HIST	2322	World Civilization II	
ECON	2301	Principles of Macroeconomics	
ECON	2302	Principles of Microeconomics	
ECON	2311	Economic Geography	
GEOG	1301	Physical Geography	
GEOG	1302	Cultural Geography	
GEOG	1303	World Regional Geography	
Total Semester Hours			**60**

Course of Study for Associate of Arts in General Studies Degree – STEM MetaMajor

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	2413	Calculus I	4
American History *(from OC Core)*			6
Language, Philosophy and Culture (*from OC Core*)			3
Life and Physical Science (*from OC Core*)			8
Creative Arts (*from OC Core*)			3
Social and Behavioral Sciences (*from OC Core*)			3
Component Area Option			3

Major Requirements			**18**
18 hours from the following:			
BIOL	1406	Biology for Science Majors I	
BIOL	1407	Biology for Science Majors II	
CHEM	1311/1111	General Chemistry I	
CHEM	1312/1112	General Chemistry II	
CHEM	2323/2123	Organic Chemistry I	
CHEM	2325/2125	Organic Chemistry II	
COSC	1436	Programming Fundamentals I	
COSC	1437	Programming Fundamentals II	
ENGR	1201	Intro to Engineering	
ENGR	2301	Engineering Mechanics - Statics	
ENGR	2302	Engineering Mechanics - Dynamics	
GEOL	1403	Physical Geology	
GEOL	1404	Historical Geology	
MATH	1342	Mathematical Statistics	
MATH	2414	Calculus II	
PHYS	2425	University Physics I	
PHYS	2426	University Physics II	
CETT	1409	DC/AC Circuits	
EEIR	1409	National Electrical Code	
GAME	1301	Computer Ethics	
IMED	1401	Intro to Digital Media	
ITNW	1425	Fundamentals of Networking Tech	
ITSC	1401	Intro to Computer	
ITSW	1307	Intro to Database	

Total Semester Hours	**60**

Course of Study for Associate of Arts in General Studies Degree – Public & Consumer Services MetaMajor

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2301	General Psychology	3
KINE	1166	First Aid	1
HIST	1301	United States History I	3
American History *(from OC Core)*			3
MATH (*from OC Core*)			3
Language, Philosophy and Culture (*from OC Core*)			3
Life and Physical Science (*from OC Core*)			8
Creative Arts (*from OC Core*)			3
Component Area Option			3
Communication (*from OC Core*)			3

Major Requirements			**18**
Total of 18 hours from the following:			18
TECA	1311	Educating Young Children	
EDUC	1301	Introduction to the Teaching Profession	
CRIJ	1301	Introduction to Criminal Justice	
SOCI	1301	Introduction to Sociology	
SOCI	2340	Drug Use and Abuse	
KINE	1301	Introduction to Physical Fitness & Sport	
EMSP	1501	Emergency Medical Technician – Basic (requires department approval; EMSP 1160 corequisite)	
EMSP	1160	Clinical Emergency Medical Technician – Basic (requires departmental approval; EMSP 1501 corequisite)	
HAMG	1321	Introduction to Hospitality	
CSME	1401	Orientation to Cosmetology	

Total Semester Hours	**60**

Agriculture Science

www.odessa.edu/dept/agri

Faculty: R. Mikel Lemons

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

			Semester Hrs
General Education Requirements			**42**
ARTS	1301	Art Appreciation	3
AGRI	1309	Computers in Agriculture	3
AGRI	1415	Horticulture	4
AGRI 2317		Introduction to Agriculture Economics	3
BIOL	1406	General Biology I	4
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1324	Mathematical Analysis for Business I	3
SPCH	1144	Forensic Activities I	1
American History *(from OC Core)*			6
Language, Philosophy and Culture (*from OC Core*)			3
Major Requirements			**18**
AGRI	1231	The Agricultural Industry	2
AGRI	1407	Agronomy	4
AGRI	1419	Introductory Animal Science	4
AGRI	2321	Livestock Evaluation I	3
AGRI	2322	Livestock Evaluation II	3
KINE	1114	Beginning Horsemanship	1
KINE	1115	Intermediate Horsemanship	1
Total Semester Hours			**60**

Course of Study for 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 Graham Center for information concerning scholarships and work-study jobs as well as stables for horses.

			Semester Hrs
General Education Requirements			**42**
ARTS	1301	Art Appreciation	3
AGRI	1309	Computers in Agriculture	3
AGRI	1415	Horticulture	4
AGRI	2317	Introduction to Agriculture Economics	3
BIOL	1406	General Biology I	4
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1324	Mathematical Analysis for Business I	3
SPCH	1144	Forensic Activities I	1
American History *(from OC Core)*			6
Language, Philosophy and Culture (*from OC Core*)			3
Major Requirements			**18**
AGRI	1231	The Agricultural Industry	2
AGRI	1419	Introductory Animal Science	4
AGRI	2321	Livestock Evaluation I	3
AGRI	2322	Livestock Evaluation II	3
KINE	1114	Beginning Horsemanship	1
KINE	1115	Intermediate Horsemanship	1
KINE	2116	Advanced Horsemanship	1
KINE	1332	Game Skills for Equestrian Sports and Recreation	3
Total Semester Hours			**60**

Agriculture Courses

AGRI 1231 The Agriculture Industry
(01.0103.5201) (2-0) 2 hours
An introduction of the basic components of the agricultural industry in the United States with a special consideration for changing economic focus of the equine industry. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

AGRI 1309 Computers in Agriculture
(01.0101.5101) (3-0) 3 hours
Introductory course in the application of microcomputers in the agricultural environment. Students will be encouraged to develop a management system in some aspect of the care of horses or other animals associated with the program. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

AGRI 1407 Agronomy
(01.1102.5101) (3-3) 4 hours
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. (ICOs 1, 2, 3, 4) Prerequisite: None.

AGRI 1415 Horticulture
(01.0601.5101) (3-3) 4 hours
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. (ICOs 1, 2, 3, 4, 6) Prerequisite: None.

AGRI 1419 Introductory Animal Science
(01.0901.5101) (3-3) 4 hours
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. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

AGRI 2317 Introduction to Agriculture Economics
(01.0103.5101) (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. (ICOs 1, 2, 3, 5) Prerequisite: None.

AGRI 2321 Livestock Evaluation I
(01.0901.5201) (3-0) 3 hours
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. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

AGRI 2322 Livestock Evaluation II
(01.0901.5201) (3-0) 3 hours
A continuation of AGRI 2321 with a special emphasis on the performance and management of horses. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

KINE 1114 Beginning Horsemanship
(36.0108.5123) (0-3) 1 hour each
Basic methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: Students must provide their own horse.

KINE 1115 Intermediate Horsemanship (36.0108.5123) (0-3) 1 hour each
Intermediate methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: KINE 1114 or consent of instructor, and students must provide their own horse.

KINE 2116 Advanced Horsemanship
(36.0108.5123) (0-3) 1 hour each
Advanced methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: KINE 1115 or consent of instructor.

KINE 1332 Game Skills for Equestrian Sports and Recreation
(31.0101.5123) (2-1) 3 hours
The survey and development of skills necessary to perform equine sporting and recreational activities. This is a lecture/lab course covering rules and skills of many horseback games, from judged events to timed events such as polo, cutting, reining, western pleasure, barrel racing, pole bending, working cow horse, dressage, and jumping. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of instructor.

Art

www.odessa.edu/dept/art

Faculty: Daiken Asakawa, Steve Goff, Barry Phillips, Dan Sorensen

The Odessa College art department exists to provide visual art instruction, and strives to be the best college Art program in the nation. A professionally active art faculty maintains labs for design, drawing, painting, printmaking, ceramics, sculpture and photography. Art students learn to create and evaluate art products, along with gaining knowledge of the world's art heritage with studies in art appreciation and art history. The art program welcomes beginning, advanced and special interest art students and sponsors significant art scholarships for students considering art as a major. The following course of study is designed as a guide for students desiring to prepare for a bachelor's degree in art education, studio art, commercial art, or as lifelong learning enrichment.

Course of Study for Associate in Arts Degree - Art

			Semester Hrs
General Education Requirements			**42**
ARTS	1303	Art History I	3
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
SPCH	1315	Public Speaking	3
Life and Physical Science (*from OC Core*)			8
Language, Philosophy, & Culture (*from OC Core*)			3
Math *(from OC Core)*			3
Social & Behavioral Sciences *(from OC Core)*			3
Component Area Option (*from OC Core*)			1
Major Requirements			**18**
ARTS	1304	Art History II	3
ARTS	1311	Design I	3
ARTS	1312	Design II	3
ARTS	1316	Drawing I	3
**Approved electives			6
Total Semester Hours			**60**

**Any two sophomore level ARTS Courses:

Art Courses

ARTS 1301 Art Appreciation
(50.0703.5126) (3-0) 3 hours
A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts. (ICOs 1, 2, 4, 6) Prerequisite: None.

ARTS 1303 Art History I
(50.0703.5226) (3-0) 3 hours
A chronological analysis of the historical and cultural contexts of the visual arts from prehistoric times to the 14th century. Develops the ability to identify, describe and interpret major works in the history of visual art. (ICOs 1, 2, 4, 6) Prerequisite: None.

ARTS 1304 Art History II
(50.0703.5226) (3-0) 3 hours
A chronological analysis of the historical and cultural contexts of the visual arts from the 14th century to the present day. Develops the ability to identify, describe and interpret major works in the history of visual art. (ICOs 1, 2, 4, 6) Prerequisite: None.

ARTS 1311 Design I
(50.0401.5326) (2-4) 3 hours
An introduction to the fundamental terminology, concepts, theory, and application of two-dimensional design. (ICOs 1, 5, 6) Prerequisite: None.

ARTS 1312 Design II
(50.0401.5326) (2-4) 3 hours
An introduction to the fundamental terminology, concepts, theory, and application of three-dimensional design. (ICOs 1, 4, 5, 6) Prerequisite: None.

ARTS 1316 Drawing I
(50.0705.5226) (2-4) 3 hours
A foundation studio course exploring drawing with emphasis on descriptive, expressive and conceptual approaches. Students will learn to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will engage in critical analysis and begin to develop their understanding of drawing as a discipline. (ICOs 1, 4, 5, 6) Prerequisite: None.

ARTS 1317 Drawing II
(50.0705.5226) (2-4) 3 hours
A studio course exploring drawing with continued emphasis on descriptive, expressive and conceptual approaches. Students will further develop the ability to see and interpret a variety of subjects while using diverse materials and techniques. Course work will facilitate a dialogue in which students will employ critical analysis to broaden their understanding of drawing as a discipline. (ICOs 1, 3, 4, 5, 6) Prerequisite: ARTS 1316.

ARTS 1325 Drawing & Painting (designed for non-art majors) (50.0708.5126) (3-0) 3 hours
Develops the skill to create drawings. Presents beginning techniques from a variety of subjects. Designed for non-art majors who desire art as an elective, life enrichment, or continuing education. (ICOs 1, 4, 5, 6) Prerequisite: None.

ARTS 2316 Painting I
(50.0708.5226) (2-4) 3 hours
Develops the skill to create expressive paintings. Emphasizes use of acrylic paint and proper preparation of canvas and wooden supports. Presents advanced art concepts, techniques, and media essential to the organization and understanding of visual information. (ICOs 1, 4, 5, 6) Prerequisites: ARTS 1316 and ARTS 1311 or instructor approval.

ARTS 2317 Painting II
(50.0708.5226) (2-4) 3 hours
Develops the skill to create a series of 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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 2316.

ARTS 2323 Life Drawing I
(50.0705.5326) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 1316 or instructor approval.

ARTS 2324 Life Drawing II
(50.0705.5326) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 2323.

ARTS 2326 Sculpture I
(50.0709.5126) (2-4) 3 hours
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. (ICOs 1, 3, 4, 5, 6) Prerequisite: ARTS 1312 or instructor approval.

ARTS 2327 Sculpture II
(50.0709.5126) (2-4) 3 hours
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. (ICOs 1, 3, 4, 5, 6) Prerequisite: ARTS 2326.

ARTS 2333 Printmaking I
(50.0710.5126) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 1316 or instructor approval.

ARTS 2334 Printmaking II
(50.0710.5126) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 2333.

ARTS 2346 Ceramics I
(50.0711.5126) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: None.

ARTS 2347 Ceramics II
(50.0711.5126) (2-4) 3 hours
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. (ICOs 1, 4, 5, 6) Prerequisite: ARTS 2346.

ARTS 2348 Digital Art I
(50.0402.5226) (2-4) 3 hours
Studio art courses that explore the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. 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. (ICOs 1, 4)

ARTS 2349 Digital Art II
(50.0402.5226) (2-4) 3 hours
Studio art courses that explore the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. Continued skill development in the use of the computer for retouching, copying, photographic restoration, color correction, data importation, composite imaging, and background dropout and replacement. Students will utilize layout and design programs such as Adobe Photoshop, Adobe Illustrator, Adobe PageMaker and/or Quark Express. Lab fee required. (ICOs 1, 4) Prerequisite: ARTS 2348.

ARTS 2356 Photography I
(50.0605.5126) (2-4) 3 hours
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. (ICOs 1, 2, 4) Prerequisite: None.

ARTS 2357 Photography II
(50.0605.5226) (2-4) 3 hours
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. (ICOs 1, 2, 4) Prerequisite: COMM 1318 or ARTS 2356 or its equivalent.

ASTRONOMY (see Physics)

Automotive Technology

www.odessa.edu/dept/auto

Faculty: Raymond Lewallen, director; Jerry Griffith, Perry Griffith

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. Completion of this program will offer students the opportunity to apply for an entry-level technician position in any one of several service specialist options. The Automotive program teaches current National Automotive Technician Education Foundation (N.A.T.E.F.) compliant curriculum and will prepare a student to take the Automotive Service Excellence (ASE) certification exams for each related course of study.

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

			Semester Hrs
General Education Requirements			**15**
ENGL	2311	Technical & Business Writing	3
MATH	1333	Contemporary Mathematics II	3
American History *(from OC Core)*			3
Social & Behavioral Sciences *(from OC Core)*			3
Language, Philosophy, & Culture or Creative Arts *(from OC Core)*			3
Major Requirements			**45**
AUMT	1310	Automotive Brake Systems	3
AUMT	1345	Automotive Climate Control Systems	3
AUMT	1380	Cooperative Education	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	1416	Automotive Suspension & Steering	4
AUMT	1419	Automotive Engine Repair	4
AUMT	2413	Automotive Drive Train & Axles	4
AUMT	2417	Automotive Engine Performance Analysis I	4
AUMT	2425	Automotive Automatic Transmission & Transaxle	4
AUMT	2434	Auto Engine Performance Analysis II	4
AUMT	2437	Automotive Electronics	4
Related Requirements			**4**
WLDG	1421	Introduction to Welding Fundamentals	4
Total Semester Hours			**60**

Course of Study for Certificates of Technology

Certificates of technology are available in the following job-specific fields. Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Automotive Technician

			Semester Hrs
AUMT	1310	Automotive Brake Systems	3
AUMT	1345	Automotive Climate Control Systems	3
AUMT	1407	Automotive Electrical Systems	4
AUMT	1416	Automotive Suspension & Steering	4
AUMT	1419	Automotive Engine Repair	4
AUMT	2417	Automotive Engine Performance Analysis I	4
AUMT	2437	Automotive Electronics	4
Total Semester Hours			**26**

Level II – Automotive Specialist

The 26 hours specified in Level I Automotive Technician certificate plus the following courses:

			Semester Hrs
AUMT	1380	Cooperative Education	3
AUMT	2425	Automotive Automatic Transmission & Transaxle	4
AUMT	2413	Automotive Drive Train & Axles	4
WLDG	1421	Welding Fundamentals	4
AUMT	2434	Auto Engine Performance Analysis II	4
Total Semester Hours			**45**

Automotive Technology Courses

AUMT 1310 Automotive Brake Systems
(47.0604) (2-3) 3 hours
Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

AUMT 1345 Automotive Climate Control Systems
(47.0604) (2-3) 3 hours
Diagnosis and repair of manual/electronic climate control systems; includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 5) Prerequisite: Must be 18 years of age to handle refrigerants or to be registered or certified as a Refrigeration Technician.

AUMT 1380 Cooperative Education - Automobile/Automotive Mechanics Technology/Technician
(47.0604) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1) Prerequisite: Consent of department chair.

AUMT 1407 Automotive Electrical Systems (47.0604) (2-4) 4 hours
An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

AUMT 1416 Automotive Suspension and Steering Systems
(47.0604) (2-4) 4 hours
Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

AUMT 1419 Automotive Engine Repair
(47.0604) (2-4) 4 hours
Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements and, disassembly, repair, and reassembly of the engine. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

AUMT 2313 Automotive Drive Train and Axles (47.0604) (1-5) 3 hours
A study of automotive clutches, clutch operation devices, manual transmissions/ transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

AUMT 2417 Automotive Engine Performance Analysis I
(47.0604) (2-4) 4 hours
Theory, operation, diagnosis of drivability concerns, and repair ignition and fuel delivery systems. Use of current engine performance diagnostic equipment. May be taught with manufacturer specific instructions. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

AUMT 2425 Automotive Automatic Transmission and Transaxle
(47.0604) (2-4) 4 hours
A study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None

AUMT 2434 Automotive Engine Performance Analysis II
(47.0604) (2-4) 4 hours
Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Capstone course. Lab fee required. (ICOs 1, 2, 3, 5) Corequisite: AUMT 2417.

AUMT 2437 Automotive Electronics
(47.0604) (2-4) 4 hours
Study of electronic principles applied to microcomputers and communication systems. Includes digital fundamentals, and use of electronic test equipment. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 3, 5) Corequisite: AUMT 1407 or DEMR 1405.

AUMT 2443 Advanced Emission Systems Diagnostics
(47.0604) (2-4) 4 hours
Diagnosis and repair of emission control systems with emphasis on the application of advanced diagnostic information, tools, and techniques. Course will include state and federal laws required for preparation for licensing. May be taught manufacturer specific. Lab fee required. (ICOs 1, 2, 3, 5) Corequisite: AUMT 2434.

Biology

www.odessa.edu/dept/biology

Faculty: Dr. Chet Cooper, chair; Dr. Thomas Crawford, Donna Griffin, Dr. James Morris, Steve Sofge, Clovis Stacey

Courses offered in the Biology Department at Odessa College are directed toward three objectives. The first objective provides non-science majors with scientific information and concepts about the living world to help them become well-rounded citizens. Second, our courses provide students majoring in biological sciences with a broad and sound foundation for advanced study at an upper-level institution or a professional school. The third objective is directed to students looking to gain skills and course credits necessary for entry into various allied health programs such as nursing, physical therapist assistant, radiologic technology, occupational therapy and physician assistant. This objective also focuses on acceptance into medical, dental, veterinary and pharmaceutical schools.

Odessa College, in cooperation with Texas A&M University, provides a unique opportunity for students seeking medical degrees. This agreement guarantees acceptance into the Biomedical Science program at Texas A&M to every Odessa College student who complete two years of specified course work. Students graduating from the Biomedical Science program have a high rate of acceptance into medical, dental, veterinary and pharmacy schools.

Course of Study for Associate in Science Degree - Biology

			Semester Hrs
General Education Requirements			**42**
CHEM	1311/1111	General Chemistry I/ General Chemistry I Lab	4
CHEM	1312/1112	General Chemistry II/ General Chemistry II Lab	4
ENGL	1301	Composition I	3
ENGL	2311	Technical & Business Writing	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	2413	Calculus I	3
SPCH	1321	Business & Professional Communication	3
American History *(from OC Core)*			6
Language, Philosophy & Culture *(from OC Core)*			3
Social & Behavioral Sciences *(from OC Core)*			3
Creative Arts *(from OC Core)*			3
Major Requirements			**18**
BIOL	1406	Biology for Science Majors I	4
BIOL	1407	Biology for Science Majors II	4
BIOL	2421	Microbiology for Science Majors	4
KINE		(any two one-hour activity courses)	2
*Approved Elective			4
Total Semester Hours			**60**

**Any two of the following:

- ASTR/PHYS 1403 Stars and Galaxies
- ASTR/PHYS 1404 Solar System

Students should consult with the biology faculty for information regarding these courses.

Biology Courses

BIOL 1322 Nutrition & Diet Therapy I
(19.0501.5109) (3-0) 3 hours
This course is a study of the chemical, physical, and sensory properties of food; nutritional quality; and food use and diet applications. Carbohydrates, lipids, proteins, vitamins, minerals and water are discussed. ** This course cannot be used to satisfy a laboratory science requirement. (ICOs 1, 2, 3, 5, 6) Prerequisite: Pass reading on TSIA or pass developmental reading sequence.

BIOL 1406 Biology for Science Majors I (26.0101.5103) (3-3) 4 hours
This course is a study of the organizational aspects of cells from molecular to organismic levels. Students learn to understand and interpret terms and discover principles covering cell anatomy, cell biochemistry, cellular respiration, photosynthesis, cell reproduction, evolution, ecology, and genetics. In laboratory activities students learn to perform basic mathematical calculations of converting between the metric and English systems of measurement, acquire experimental data and apply reason to the interpretation of principles underlying the observations including cause and effect relationships. Designed as a transferable lab science course for science majors. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: Pass reading on the TSIA or by passing the developmental reading sequence and be eligible for College Algebra by passing math on TSIA or by passing the developmental math sequence.

BIOL 1407 Biology for Science Majors II (26.0101.5103) (3-3) 4 hours
Students continue their understanding and interpretation of biological terms with respect to plant and animal growth, plant and animal tissues and systems, evolution and behavior. A taxonomic survey of the five kingdoms is covered. Laboratory investigations include acquisition of practical experience in the dissection of a mammal with reasoning to the relationships between form and function and making decisions relative to cause and effect relationships. Designed as a transferable lab science course for science majors. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: BIOL 1406 with a grade of "C" or better.

BIOL 1408 Biology for Non-Science Majors I
(26.0101.5103) (3-3) 4 hours
This course is a survey of biology including molecular and cellular biology, genetics, DNA, evolution and ecology. The cellular and molecular basis of life will be emphasized. Current topics in biology and medicine will be discussed. Designed as a transferable lab science course for non-science majors. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: Pass reading on TSIA or by passing the developmental reading sequence.

BIOL 1409 Biology for Non-Science Majors II
(26.0101.5103) (3-3) 4 hours
This course is a continuation of BIOL 1408. Biology of viruses, bacteria, protistans, fungi, plants, animals and animal behavior is presented. Emphasis placed on general human anatomy and physiology. Current topics in biology and medicine will be discussed. Designed as a transferable lab science course for non-science majors. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: BIOL 1408 with a grade of "C" or better.

BIOL 2401 Anatomy & Physiology I
(26.0707.5103) (3-3) 4 hours
This is the first semester of a two-semester course in the study of the structure and function of the human body. Emphasis will be given to cytology, histology, and the interrelationships of the integumentary, skeletal, muscular, and nervous systems. Lab fee is required. (ICOs 1, 2, 3, 4, 5) Prerequisites: Pass reading on TSIA or by passing the developmental reading sequence and be eligible for College Algebra by passing math on TSIA or by passing the developmental math sequence. Students are required to attend the Synapse Tutorial Lab one hour per week.

BIOL 2402 Anatomy & Physiology II
(26.0707.5103) (3-3) 4 hours
This course is a continuation of BIOL 2401 and assumes foundation knowledge and skills acquired therein. Emphasis will be given to the study of the anatomical and physiological interrelationships of the endocrine, cardiovascular, immune, respiratory, digestive, urinary, and reproductive systems. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: BIOL 2401 with a grade of "C" or better.

BIOL 2404 Human Anatomy & Physiology (26.0707.5103) (3-3) 4 hours
An introduction to the structure and function of each of the eleven systems of the human body. In laboratory emphasis will be placed on gross and histological anatomy. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: Pass reading on TSIA or by passing the developmental reading sequence and be eligible for College Algebra by passing math on TSIA or by passing the developmental math sequence. Students are required to attend the Synapse Tutorial Lab one hour per week.

BIOL 2406 Environmental Biology
(03.0103.5101) (3-3) 4 hours
Environmental biology is an investigation into the study of basic ecological principles, relationships between living organisms, and problems involving energy and the environment. Emphasis is placed on human interaction with other organisms and how these relationships affect conservation, pollution, waste-management, depletion of non-renewable resources as well as environmental economics and politics. Laboratory investigations will include environmental sampling and analysis techniques. Lab fee required. ICOs 1, 2, 3, 5, 6)) Prerequisite: Prerequisite: Pass reading on TSIA or by passing the developmental reading sequence.

BIOL 2416 Genetics
(26.0804.5103) (3-3) 4 hours
Students learn the principles of both classical and molecular genetics. Structure, function and transmission of hereditary material are explored. Population genetics, genetics engineering and applications of gene manipulation are discussed. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: BIOL 1406 with a grade of "C" or consent of the department chair.

BIOL 2420 Microbiology for Non-Science Majors
(26.0503.5103) (3-3) 4 hours
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, preventionisease and treatment of disease are stressed. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: A minimum grade of "C" in BIOL 1406 and BIOL 1407, or BIOL 2401 and BIOL 2402, or CHEM 1311 and BIOL 1406 or BIOL 2401.

BIOL 2421 Microbiology for Science Majors (26.0503.5103)
(3-3) 4 hours
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 required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: A minimum grade of "C" in BIOL 1406 and BIOL 1407, or BIOL 2401 and BIOL 2402, or CHEM 1311 and BIOL 1406 or BIOL 2401.

HPRS 1106 Essentials of Medical Terminology (51.0000) (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. (ICOs 1, 2, 5) Prerequisite: None.

HPRS 2301 Pathophysiology
(51.0000) (3-0) 3 hour
This course is a study of the pathology and general health management of diseases and injuries across the life span. Topics will include etiology, symptoms, pharmacology and the physical and psychological reactions to diseases and injuries. (ICOs 1, 2, 5, 6) Prerequisite: A minimum grade of "C" in BIOL 2401, or BIOL 2404, or BIOL 2402.

Business Administration

www.odessa.edu/dept/busi

Faculty: Jonathan Trauten

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 in 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 already employed but wish to upgrade their job skills or meet certification requirements for their particular vocation

Course of Study for Associate in Arts Degree – Business Administration – (Field of Study)

			Semester Hrs
General Education Requirements			**41**
BCIS	1305	Business Computer Applications	3
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
ENGL	*(Sophomore Level*)		3
ECON	2301	Principles of Macroeconomics	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1324	Mathematical Analysis for Business I	3
SPCH	1321	Business & Professional Speech	3
History *(from OC Core)*			6
Natural Science *(from OC Core)*			8
Major Requirements			**19**
ACCT	2301	Principles of Accounting I – Financial	3
ACCT	2302	Principles of Accounting II – Managerial	3
BUSI	1301	Business Principles	3
ECON	2302	Principles of Microeconomics	3
MATH	1325	Mathematical Analysis for Business II	3
MATH	1442	Business Statistics	4
Total Semester Hours			**60**

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 Business Principles
(52.0101.5104) (3-0) 3 hours
This course provides a survey of economic systems, forms of business ownership, and considerations for running a business. Students will learn various aspects of business, management, and leadership functions; organizational considerations; and decision-making processes. Financial topics are introduced, including accounting, money and banking, and securities markets. Also included are discussions of business challenges in the legal and regulatory environment, business ethics, social responsibility, and international business. Emphasized is the dynamic role of business in everyday life. (ICOs 1, 2, 3, 6) Prerequisite: None.

BUSI 2301 Business Law
(22.0101.5124) (3-0) 3 hours
(ICOs 1, 2, 3, 6) The course provides the student with foundational information about the U.S. legal system and dispute resolution, and their impact on business. The major content areas will include general principles of law, the relationship of business and the U.S. Constitution, state and federal legal systems, the relationship between law and ethics, contracts, sales, torts, agency law, intellectual property, and business law in the global context. Prerequisites: High school coursework in U.S. history and government, or equivalent.

Accounting Courses

ACCT 2301 Principles of Financial Accounting
(52.0301.5104) (3-1) 3 hours
This course is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholdersÆ equity to communicate the business entityÆs results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and ownersÆ equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). (ICOs 1, 2, 3, 4) Prerequisites: Pass TSIA English, reading and mathematics.

ACCT 2302 Principles of Managerial Accounting
(52.0301.5104) (3-1) 3 hours
This course is an introduction to the fundamental concepts of managerial accounting appropriate for all organizations. Students will study information from the entity's accounting system relevant to decisions made by internal managers, as distinguished from information relevant to users who are external to the company. The emphasis is on the identification and assignment of product costs, operational budgeting and planning, cost control, and management decision making. Topics include product costing methodologies, cost behavior, operational and capital budgeting, and performance evaluation. (ICOs 1, 2, 3, 4) Prerequisite: ACCT 2301.

Business Leadership

www.odessa.edu/dept/management

Faculty: Dr. Kinsey Hansen, chair; Kelby Giesler-Davis

The business leadership department philosophy states that everyone should manage all resources, knowledge and efforts toward intentionally navigating gains. This is how to achieve more!

AAS Small Business Degree: Interested in a small business? The small business management associate in applied science degree can help you realize your dream. The program is designed to not only teach you how to start and run your own business but also how to improve your problem solving and decision-making skills, manage the ever-changing marketplace, and handle the negotiations and conflicts that are part of the life of the entrepreneur. This program utilizes an activity-based, skill-developing, interactive training approach where students work collaboratively to gain knowledge and abilities to be successful in both their personal and professional lives.

AAS Business Leadership Degree: The old adage of "bosses think, managers manage, and workers work" is no longer relevant in today's fast-paced world. Everyone must think, manage, and work in order to succeed. The business leadership associate in applied science degree prepares current and future employees to take an active role in planning, organizing, leading, and evaluating business functions required in any enterprise – the medical facility, the professional office, the governmental agency, the non-profit organization, the manufacturing plant, the retail store, etc.

Certificates of Technology: Students, regardless of past educational accomplishments, may opt to enhance their skills by completing one of three certificates of technology –leadership, small business, and, for our corporate clients, management skills. Each certificate is the foundation for either the business leadership or small business management associate in applied science degree. Certificates are TSIA -waived.

Course of Study for Associate in Applied Science Degree – Small Business Management

			Semester Hrs
Major Requirements			**45**
BMGT	1301	Supervision	3
BMGT	1305	Communications in Management	3
BMGT	1325	Office Management	3
BMGT	1341	Business Ethics	3
BMGT	1344	Negotiations and Conflict Management	3
BMGT	1391	Special Topics - The Business Plan	3
BMGT	2303	Problem Solving and Decision Making	3
BMGT	2309	Leadership	3
BMGT	2310	Financial Management	3
ACNT	1311	Intro to Computerized Acct.	3
BMGT	2382	Cooperative Education – Business Administration and Management, General	3
BUSG	1315	Small Business Operations	3
BUSG	2309	Small Business Management	3
HRPO	1311	Human Relations	3
MRKG	1311	Principles of Marketing	3
Core Requirements			**15**
Economics *(from OC Core)*			3
Government/Political Science *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
ENGL	2311	Technical & Business Writing	3
Plus one of the options listed below:			3
ARTS	1301	Art Appreciation	
MUSI	1306	Music Appreciation	
Total Semester Hours			**60**

Course of Study for Associate in Applied Science Degree – Business Leadership

			Semester Hrs
Major Requirements			**27**
BMGT	1301	Supervision	3
BMGT	1305	Communications in Management	3
BMGT	1327	Principles of Management	3
BMGT	2303	Problem Solving and Decision Making	3
BMGT	2309	Leadership	3
BMGT	2311	Change Management	3
BMGT	2382	Cooperative Education – Business Administration and Management, General	3
HRPO	1311	Human Relations	3
MRKG	1311	Principles of Marketing	3
ACNT	1311	Intro to Computerized Acct.	3
Any Five of the Following Courses*			**15**
BMGT	1307	Team Building	3
BMGT	1309	Information and Project Management	3
BMGT	1325	Office Management	3
BMGT	1331	Production & Operations Management	3
BMGT	1341	Business Ethics	3
BMGT	1344	Negotiations and Conflict Management	3
BMGT	1391	The Business Plan	3
BMGT	2305	Advanced Communications In Management	3
BMGT	2310	Financial Management	3
BMGT	2331	Principles of Quality Management	3
BMGT	2341	Strategic Management	3
BUSG	1315	Small Business Operations	3
BUSG	2307	Legal and Social Environment of Business	3
BUSG	2309	Small Business Management	3
HRPO	2301	Human Resource Management	3
HRPO	2307	Organizational Behavior	3
Core Requirements			**15**
Economics *(from OC Core)*			3
Government/Political Science *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
ENGL	2311	Technical & Business Writing	3
Plus one of the options listed below:			3
ARTS	1301	Art Appreciation	
MUSI	1306	Music Appreciation	
Total Semester Hours			**60**

Certificates of Technology in Business Leadership

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Small Business Option

			Semester Hrs
BMGT	1301	Supervision	3
BMGT	1305	Communications in Management	3
BMGT	1325	Office Management	3
BMGT	2310	Financial Management	3
BMGT	2382	Cooperative Education – Business Administration and Management, General	3
BUSG	1315	Small Business Operations	3
BUSG	2309	Small Business Management	3
HRPO	1311	Human Relations	3
MRKG	1311	Principles of Marketing	3
*Approved Elective			3
Total Semester Hours			**30**

*See department faculty for list of approved courses.
*Substitutions with department faculty approval.

Level I – Leadership Option

			Semester Hrs
BMGT	1305	Communications in Management	3
BMGT	1341	Business Ethics	3
BMGT	2303	Problem Solving and Decision Making	3
BMGT	2309	Leadership	3
BMGT	2310	Financial Management	3
ACNT	1311	Intro to Computerized Acct.	3
BMGT	2341	Strategic Management	3
BMGT	2382	Cooperative Education – Business Administration and Management, General	3
HRPO	1311	Human Relations	3
Total Semester Hours			**27**

*Substitutions with department faculty approval.

Level I – Management Skills Option

			Semester Hrs
BMGT	1301	Supervision	3
BMGT	1305	Communications in Management	3
BMGT	1327	Principles of Management	3
BMGT	2303	Problem Solving and Decision Making	3
HRPO	1311	Human Relations	3
BMGT	2309	Leadership	3
Total Semester Hours			**18**

Business Leadership Courses

BMGT 1191, 1291 or 1391 Special Topics in Business Administration and Management, General
(52.0201) (1-0, 2-0 or 3-0) 1, 2 or 3 hours
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 was designed to be repeated multiple times to improve student proficiency. End-of-course outcomes: determined by local occupational need and business and industry trends. (ICOs 2, 5, 6) Prerequisite: None.

BMGT 1301 Supervision
(52.0201) (3-0) 3 hours
The role of the supervisor. Includes managerial functions as applied to leadership, counseling, motivation, and human relations skills. End-of-course outcomes: explain the roles, characteristics and skills of a supervisor; identify the principles of management at the supervisory level; define the human skills necessary for supervision; and explain motivational techniques used by a supervisor in a working environment. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

BMGT 1305 Communications in Management (52.0201)
(3-0) 3 hours
Basic theory and processes of communication skills necessary for the management of an organization's workforce. End-of-course outcomes: explain the communication process; identify and remedy major communication barriers; describe how communication contributes to effective management. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

BMGT 1307 Team Building
(52.0201) (3-0) 3 hours
Principles of building and sustaining teams in organizations. Includes team dynamics, process improvement, trust and collaboration, conflict resolution, and the role of the individual in the team. End-of-course outcomes: describe the principles and processes of team building; identify interpersonal skills, group dynamics and team leadership; and demonstrate techniques for team problem-solving and conflict resolution. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BMGT 1309 Information and Project Management
(52.0201) (3-0) 3 hours
Critical path methods for planning and controlling projects. Includes time/cost tradeoffs, resource utilization, stochastic considerations, task determination, time management, scheduling management, status reports, budget management, customer service, professional attitude, and project supervision. End-of-course outcomes: identify, sequence, and estimate the duration of specific activities that must be performed to accomplish project goals; identify interactivity dependencies that must occur during the process stages; identify methods for determining, categorizing, and controlling costs; demonstrate project plan development and execution schemes; and demonstrate means to coordinate change across a project. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None

BMGT 1325 Office Management
(52.0401) (3-0) 3 hours
Systems, procedures, and practices related to organizing and planning office work, supervising employee performance, and exercising leadership skills. End-of-course outcomes: identify skills and competencies of an office manager; describe different forms of organizations; and develop processes for office operations. Lab fee required. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

BMGT 1327 Principles of Management
(52.0201) (3-0) 3 hours
Concepts, terminology, principles, theories, and issues in the field of management.
End-of-course outcomes: explain various theories, processes, and functions of management; apply the functions to a business environment; identify leadership roles in organizations; and describe elements of the communication process. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BMGT 1341 Business Ethics
(52.0201) (3-0) 3 hours
Discussion of ethical issues, the development of a moral frame of reference, and the need for an awareness of social responsibility in management practices and business activities. Includes ethical corporate responsibility. End-of-course outcomes: define business ethics; identify and discuss the consequences of unethical business practices; describe reasoning for analyzing ethical dilemmas; describe different ethical views; explain how business, government, and society function interactively; explain corporate social responsibility; and discuss social and ethical threats emerging from rapid technological change. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

BMGT 1344 Negotiations and Conflict Management
(52.0201) (3-0) 3 hours
Theories which aid in the diagnosis of interpersonal and intergroup conflict. The role of manager as negotiator, intermediary, and problem-solver. End-of-course outcomes: recognize non-verbal aspects and overall communication skills in negotiations and conflict resolution; recognize power in negotiations; identify strategies in group negotiations; demonstrate strategy and tactics in personal preparation for negotiations; assess interpersonal styles and characteristics of negotiation and conflict resolution. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None

BMGT 1391 – Special Topics – The Business Plan (52.0201) (3-0) 3 hours
Focuses on the challenges, opportunities, and management issues relating to small business. End-of-course outcomes: examine elements necessary to launch, operate, and manage a small business and evaluate the relative merits of small business opportunities; complete a business plan. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

BMGT 2303 Problem Solving and Decision Making
(52.0201) (3-0) 3 hours
Decision making and problem solving processes in organizations, utilizing logical and creative problem solving techniques. Application of theory is provided by experiential activities using managerial decision tools. End-of-course outcomes: identify individual, group and organizational decision-making processes; and apply process to solving problems using managerial decision tools. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BMGT 2305 Advanced Communications in Management
(52.0201) (3-0) 3 hours
A study of advanced principles of oral and written communications for managers. End-of-course outcomes: apply procedures for writing reports, proposals, and conducting research; and produce oral presentations. Lab fee required. (ICOs 1, 2, 5, 6) Prerequisite: None

BMGT 2309 Leadership
(52.0201) (3-0) 3 hours
Leadership and its relationship to management. Prepares the student with leadership and communication skills needed to motivate and identify leadership styles. End-of-course outcomes: determine individual leadership styles; distinguish differences between leadership and management; explain the effects of leadership style on organizational environment and apply principles of leadership with individuals, groups and organizations. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BMGT 2310 Financial Management
(52.0201) (3-0) 3 hours
Examination of accounting information to support managerial decision-making processes. Topics include managerial concepts and systems, various analyses for decision making, and planning and control. End-of-course outcomes: examine how internal controls affect cost and budgeting; analyze profit and loss statements; identify and correct financial problems; and utilize formulas to determine organizational profitability. Lab fee required. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

BMGT 2311 Change Management
(52.0201) (3-0) 3 hours
Knowledge, skills, and tools that enable a leader/organization to facilitate change in a participative style. End-of-course outcomes: explain the roles of change agent and champion within the organization; explain the progression of change from introduction to completion, examine 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. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

BMGT 2331 Principles of Quality Management (52.0201) (3-0) 3 hours
Includes planning and implementing quality programs in an organization and analyzing cost/benefit of quality. Also covers the impact of employee empowerment. End-of-course outcomes: define the role of quality in production and service systems; explain concepts related to quality costs/benefit; define the quality improvement process using analyses; and participate in problem solving experiences through creative team development. Lab fee required. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

BMGT 2341 Strategic Management
(52.0201) (3-0) 3 hours
Strategic management process, including analysis of how organizations develop and implement a strategy for achieving organizational objectives in a changing environment. End-of-course outcomes: explain the processes involved in management strategy development; and develop an organizational strategic management plan. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BMGT 2382 Cooperative Education – Business Administration and Management, General
(52.0201) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. End-of-course outcomes: as outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 5, 6) Prerequisite: Consent of department chair.

BUSG 1315 Small Business Operations
(52.0703) (3-0) 3 hours
Operating a small business. Emphasizes management functions including planning, leading, organizing, staffing, and controlling operations. End-of-course outcomes: identify the aspects of operating a small business; describe human resource functions including employee development; explain the elements of total quality management; and compare purchasing procedures, inventory control, and computerized operations of small businesses. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

BUSG 2309 Small Business Management/Entrepreneurship
(52.0703) (3-0) 3 hours
Starting, operating, and growing a small business. Includes essential management skills, how to prepare a business plan, accounting, financial needs, staffing, marketing strategies, and legal issues.
End-of-course outcomes: identify management skills for a small business; outline issues related to choosing a business, obtaining a return on investment; and create a business plan. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

HRPO 1311 Human Relations
(52.1003) (3-0) 3 hours
Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment. End-of-course outcomes: evaluate human relations including diversity, attitudes, self-esteem and interpersonal skills; identify the causes and effects of stress in the workplace; identify communication skills; identify decision-making skills; and describe how theories of motivation and human behavior impact strategies of change management. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

HRPO 2301 Human Resources Management (52.1001) (3-0) 3 hours
Behavioral and legal approaches to the management of human resources in organizations. End-of-course outcomes: describe and explain the development of human resources management; evaluate current methods of job analysis, recruitment, selection, training/development, performance management, promotion, and separation; discuss management's ethical, social, and legal responsibilities; assess methods of compensation and benefits planning; and analyze the role of strategic human resource planning in support of organizational mission and objectives. Lab fee required. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

HRPO 2307 Organizational Behavior
(52.1003) (3-0) 3 hours
The analysis and application of organizational theory, group dynamics, motivation theory, leadership concepts, and the integration of interdisciplinary concepts from the behavioral
sciences. End-of-course outcomes: 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; identify methods in resolving organizational problems; describe the impact of corporate culture on employee behavior; and analyze team dynamics, team building strategies and cultural diversity. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

MRKG 1311 Principles of Marketing
(52.1401) (3-0) 3 hours
Introduction to the marketing mix functions and process. Includes identification of consumer and organizational needs and explanation of environmental issues. End-of-course outcomes: identify the marketing mix components; explain the environmental factors which influence consumer and organizational decision-making processes; and outline a marketing plan. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

Chemistry

www.odessa.edu/dept/chemistry
Faculty: Nichole Jackson, chair; Robert Morris

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

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

Course of Study for Associate in Science Degree - Chemistry

			Semester Hrs
General Education Requirements			**42**
CHEM	1311/1111	General Chemistry I/ General Chemistry I (Lab)	4
CHEM	1312/1112	General Chemistry II/ General Chemistry II (Lab)	4
ENGL	1301	Composition I	3
ENGL	2311	Technical & Business Writing	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	2413	Pre-Calculus Math	4
SPCH	1321	Business & Professional Speech	3
American History *(from OC Core)*			6
Language, Philosophy, & Culture *(from OC Core)*			3
Social & Behavioral Sciences *(from OC Core)*			3
Creative Arts *(from OC Core)*			3
Major Requirements			**18**
CHEM	2323/2123	Organic Chemistry I/ Organic Chemistry Laboratory I	4
CHEM	2325/2125	Organic Chemistry II/ Organic Chemistry Laboratory II	4
KINE	(any two one-hour activity courses)		2
PHYS	2425	University Physics I	4
PHYS	2426	University Physics II	4
Total Semester Hours			**60**

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

Chemistry Courses

CHEM 1104 Chemical Calculations (40.0502.5203) (1-0) 1 hour
Study of the mathematical applications used in chemistry. Designed for science and engineering students. (ICOs 1, 2, 3) Corequisite: CHEM 1311.

CHEM 1105 Introductory Chemistry Laboratory I
(40.0501.5103) (0-3) 1 hour
A laboratory course that illustrates and reinforces principles and concepts of CHEM 1305 by use of quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required. (ICOs 1, 2, 3) Corequisite or prerequisite: CHEM 1305.

CHEM 1111 General Chemistry I Laboratory
(40.0501.5203) (0-3) 1 hour
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. (ICOs 1, 2, 3) Corequisite: CHEM 1311.

CHEM 1112 General Chemistry II Laboratory
(40.0501.5203) (0-3) 1 hour
A laboratory course that illustrates and reinforces principles and concepts of CHEM 1312 by use of qualitative and quantitative experiments. Emphasizes interpreting and reporting of data. Stresses facility in handling scientific equipment. Lab fee required. (ICOs 1, 2, 3, 5) Corequisite: CHEM 1312.

CHEM 1204 Chemical Calculations
(40.0502.5203) (2-0) 2 hours
A lecture course that emphasizes the problem-solving techniques that are used in CHEM 1312. Involves reading problems and using critical thinking skills and mathematics to organize the information and arrive at an answer. Can be used to fulfill the 10-hour freshman chemistry course or chemical engineering calculations course taught at some senior colleges. (ICOs 1, 2, 3) Prerequisite: CHEM 1311.

CHEM 1305 Introductory Chemistry I
(40.0501.5103) (3-0) 3 hours
A lecture course in elementary chemistry. Primarily for non-majors or people desiring a one-semester 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 format. (ICOs 1, 2, 3) Prerequisites: Pass all sections of the TSIA exam. An understanding of basic mathematics, including simple algebra. (Credit probably not transferable until CHEM 1105 successfully completed.)

CHEM 1311 General Chemistry I
(40.0501.5203) (3-0) 3 hours
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. (ICOs 1, 2, 3) Prerequisites: Pass all sections of the TSIA exam and be eligible to take College Algebra. (Credit probably not transferable until CHEM 1111 is successfully completed.)

CHEM 1312 General Chemistry II
(40.0501.5503) (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. (ICOs 1, 2, 3, 5) Prerequisites: 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
(40.0502.5103) (0-4) 1 hour
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. (ICOs 1, 2, 3) Corequisite: CHEM 2301.

CHEM 2123 Organic Chemistry Laboratory I
(40.0504.5203) (0-4) 1 hour
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. (ICOs 1, 2, 3, 4) Corequisite: CHEM 2323.

CHEM 2125 Organic Chemistry Laboratory II
(40.0504.5203) (0-4) 1 hour
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. (ICOs 1, 2, 3, 4) Corequisite: CHEM 2325.

CHEM 2271 Organic Nomenclature
(40.0504.7203) (2-0) 2 hours
A lecture course that presents a systematic study of rules of nomenclature for organic compounds by functional group. The course emphasizes International Union of Pure and Applied Chemistry rules but also includes some common names and structural determinations. Students should check with the senior college to determine transferability of this course. (ICOs 1, 2, 3, 4) Corequisite: CHEM 2323 or consent of the instructor.

CHEM 2301 Analytical Chemistry I
(40.0502.5103) (3-0) 3 hours
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. (ICOs 1, 2, 3, 6) Corequisite: CHEM 1312. (Credit probably not transferable until CHEM 2101 is successfully completed.)

CHEM 2323 Organic Chemistry I
(40.0504.5203) (3-0) 3 hours
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. (ICOs 1, 2, 3) 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
(40.0504.5203) (3-0) 3 hours
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. (ICOs 1, 2, 3) Prerequisite: A minimum grade of “C” in CHEM 2323. Corequisite: CHEM 2125. (Credit probably not transferable until CHEM 2125 is successfully completed.)

Child Development

www.odessa.edu/dept/child

Faculty: Mary Hanson, chair

The field of child development is a rapidly growing area with a wide range of employment possibilities. An increasing number of job opportunities are available in the community for those who work with children. Public and private schools, federal agencies, child 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 development will provide an opportunity for an in-depth study of the whole child. In the certificate program, the specialization is in child development or child care management. In all programs, the child development lab courses will include actual experience with young children. Students enrolled in child development lab classes must meet Texas Department of Family and Protective Services staff requirements for child care centers.

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

Course of Study for Associate in Applied Science Degree – Child Development

			Semester Hrs
General Education Requirements			**15**
Communication *(from OC Core)*			3
ENGL	1301	Composition I	3
Government *(from OC Core)*			3
Language, Philosophy, and Culture/Creative Arts (*from* OC Core)			3
Math *(from OC Core)*			3
Major Requirements			**45**
CDEC	1319	Child Guidance	3
CDEC	1356	Emergent Literacy for Early Childhood	3
CDEC	1358	Creative Arts for Early Childhood	3
CDEC	1359	Children with Special Needs	3
CDEC	1313	Curriculum Resources for Early Childhood Programs	3
CDEC	1321	The Infant and Toddler	3
CDEC	2304	Child Abuse and Neglect	3
CDEC	2307	Math and Science for Early Childhood	3
CDEC	2341	The School Age Child	3
CDEC	2384	Cooperative Education in Child Development	3
TECA	1303	Family, School, and Community	3
TECA	1311	Educating Young Children	3
TECA	1318	Wellness of the Young Child	3
TECA	1354	Child Growth and Development	3
Related Requirements			**6**
KINE	1206	First Aid	2
KINE	1166	First Aid	1
PSYC	2308	Child Psychology	3
Total Semester Hours			**60**

Level I Certificate – Child Development Associate (CDA)

Course of study for Certificate of Completion Level I certificates are TSIA- waived.

CDEC	1319	Child Guidance	3
CDEC	1358	Creative Arts for Early Childhood	3
TECA	1303	Family, School, and Community	3
TECA	1311	Educating Young Children	3
TECA	1318	Wellness of the Young Child	3
TECA	1354	Child Growth & Development	3
Total Semester Hours			**18**

Level II Certificate – Child Care/Preschool Assistant Teacher

The 18 hours specified in Level I Child Development Associate (CDA) certificate plus the following courses:

General Education Requirements			**9**
PSYC	2308	Child Psychology	3
ENGL	1301	Composition I	3
Mathematics *(from OC Core)*			3
Related Requirements			**3**
KINE	1206	First Aid	2
KINE	1166	First Aid	1
Major Requirements			**12**
CDEC	1356	Emergent Literacy for Early Childhood	3
CDEC	1321	The Infant and Toddler	3
CDEC	2304	Child Abuse and Neglect	3
TECA	1354	Child Growth & Development	3
Total Semester Hours			**39**

Child Development Courses

CDEC 1313 Curriculum Resources for Early Childhood Programs (19.0709) (2-2) 3 hours
A study of the fundamentals of developmentally appropriate curriculum design and implementation in early care and education programs for children birth through age eight. Lab fee required. (ICO 5) Prerequisites: TECA 1311, CDEC 1319 and a minimum of two of the following courses: TECA 1318, CDEC 1356, CDEC 1357, CDEC 1358 or consent of the department chair.

CDEC 1319 Child Guidance
(19.0709) (2-3) 3 hours
An exploration of guidance strategies for promoting prosocial behaviors with individuals and groups of 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 problem-solving and decision-making techniques and implementation of alternative discipline strategies. Emphasizes techniques of communication with children as well as co-workers. Presents major theorists and theories of individual and group management. Lab fee required. (ICO 5) Prerequisite: None.

CDEC 1321 The Infant and Toddler
(19.0709) (2-2) 3 hours
A study of appropriate infant and toddler programs (birth to age 3), including an overview of development, quality routines, learning environments, materials and activities, and teaching/guidance techniques. Lab fee required. (ICO 5) Prerequisite: None.

CDEC 1356 Emergent Literacy for Early Childhood (19.0706) (2-3) 3 hours
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 storytelling with and without audiovisual aids such as puppets, flannel boards, story rolls and use of media equipment laminators, paper copiers, and computers. Includes introduction to second language development. Lab fee required. (ICO 5) Prerequisite: None.

CDEC 1358 Creative Arts for Early Childhood (19.0709) (2-3) 3 hours
An exploration of principles, methods, and materials for teaching 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. (ICO 1) Prerequisite: None.

CDEC 1359 Children With Special Needs
(19.0709) (2-3) 3 hours
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. (ICO 5) Prerequisite: None.

CDEC 2304 Child Abuse and Neglect
(19.0709) (3-0) 3 hours
Methods used in the identification of physical, emotional and sexual abuse and neglect with an emphasis on developing skills for working with
children and families. Includes methods of referral to public and private agencies that deal with investigation and treatment. Reviews current federal, state and local child abuse laws, including Texas licensing standards. (ICO 6) Prerequisite: None.

CDEC 2307 Math and Science for Early Childhood (19.0709) (2-3) 3 hours
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. (ICO 5) Prerequisite: None.

CDEC 2341 The School Age Child
(19.0709) (3-0) 3 hours
A study of programs for the school age child (5 to 13 years), including an overview of development, learning environments, materials, and activities and teaching/ guidance techniques. Focuses on social, emotional, mental and physical development processes. Designed particularly for anyone working with individuals or groups from school age through adolescence. (ICO 4) Prerequisite: None.

TECA 1303 Family, School, & Community
(13.0101 52 09) (2-3) 3 hours
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. (ICO 2) Prerequisite: None.

TECA 1311 Educating Young Children
(13.1202.5109) (2-3) 3 hours
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. (ICO 2, 5) Prerequisite: None.

TECA 1318 Wellness of the Young Child
(13.0101 53 09) (2-3) 3 hours
A study of the factors that impact the well-being of the young child including healthy behavior food, nutrition, fitness, and safety practices. Focus on local and national standards and legal implications of relevant policies and regulations. Consistent with State Board for Educator Certification standards, requires students to participate in 16 hours of field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations. Lab fee required. (ICO 5) Prerequisite: None.

TECA 1354 Child Growth & Development
(13.1202 52 09) (3-0) 3 hours
A study of the principles of normal child growth and development from conception to adolescence. The student will demonstrate knowledge of principles of growth and development; normal developmental stages in physical, cognitive, social and emotional domains; major theories of development, i.e., behavioral, cognitive, language acquisitions, developmental; the impact of developmental processes on early childhood practices; types and techniques of objective observation; the importance of play in development; and biological and environmental influences on growth and development. The student will demonstrate skills in the practical application of developmental principles and theories, objective observation techniques, and recognition of normal growth and developmental patterns. (ICOs 2, 5, 6) Prerequisite: None.

College Preparation

College Preparation courses are designed to improve student success. The courses will teach basic academic skills and provide information about available campus resources. Students will be encouraged to develop more definite career plans and a plan to fit their educational goals. Students will also have a contact point with an Odessa College professional (the course instructor) during the most critical weeks of their college career.

College Preparation Course

COLL 0171 Strategies for Success
(32.0101.5212) (1-1) 1 hour
Strategies for Success is a one hour course designed to help students improve skills for academic achievement. Topics covered in the course include, but are not limited to: study techniques, note-taking, test-taking, time management, critical thinking skills, career planning, and interpersonal skills. COLL 0171 does not satisfy requirements for any degree plan at Odessa College but is an institutional requirement for all first time non-concurrent in college students who have not yet completed twelve credit hours but who are enrolled in at least three credit hours. Students must successfully complete COLL 0171 (C or better) or must re-enroll the following semester. Students who are TSI (Texas Success Initiative, 2003) liable in two or more of the three developmental areas-reading, writing and math-may not enroll in a web course, but must take the course face-to-face. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

Communication

www.odessa.edu/dept/speech

Faculty: Jennifer Ramsey, chair; Jeremy Sanchez, Ashley Click

Employers readily identify communication skills among the most sought after needs for new and existing employees. The Communication Department at Odessa College exists to support students in learning these skills and in preparing them to apply them to the marketplace and/or in their pursuit of advanced degrees. All of our courses have a heavy emphasis on media literacy, rhetorical analysis and public communication skills. We specialize in preparing students for further studies at transfer institutions in a variety of disciplines. However we also emphasize skills and training to prepare students to function as adept communicators on work teams, as public speakers and adept media specialists. We offer two degree programs.

The **AA in Mass Communication** prepares students to be advanced communicators in the digital age. The program emphasizes the convergence of mass media, digital communication and communication technology. Students in this program will study both the effect of media on culture and how to construct visual, oral and written messages that are appropriate in the rapidly changing landscape of mass media today. Half of the time in the program is spent studying communication theory and media literacy. The other half of the program focuses on constructing messages that are appropriate in various communication contexts including: social media, blogging, film, radio and television. Students apply these skills by creating professional portfolios in their chosen area of emphasis which includes writing, screenwriting, photography and digital/electronic writing. Students who have an interest in corporate training, business, photography, fine arts, film, marketing, publishing, journalism and media are well served by the progression of courses offered in the AA in Mass Communication. Program ICOS: Communication, Critical Thinking, Teamwork, Social Responsibility

The **AA in Speech and Rhetorical Studies** prepares students for further studies in Communication and/or careers that require a focus on communication proficiency. The program is evenly balanced to include studies in classic rhetorical theory and contemporary culture. Every course in the department includes training in rhetorical criticism, communication theory, public presentation skills and media literacy. Our rhetorical studies focus emphasizes critical thinking and communication with an intention of specifically preparing students to complete four year degrees at transfer institutions. Our majors also learn professional communication skills that are highly adaptable in the marketplace. Our speech majors complete portfolios that include components in corporate training, motivational and persuasive speaking. We also include a heavy emphasis in small group communication and teamwork. Students who pursue degrees in speech are well prepared for careers in business, leadership, marketing, law, education and politics because the skills they learn are quite diverse. Program ICOs: Communication, Critical Thinking, Teamwork, Personal Responsibility

Communication majors are very commonly listed among the top 5 majors that employers seek when hiring new candidates. We highly recommend that our students pursue double majors when possible so that their skills can be applied in diverse settings. Our department works very well with other departments and will make efforts to contextualize our program of study within other chosen academic disciplines.

All communication courses have unique, diverse functions with shared overall outcomes. Communication courses need not be taken in any particular sequence. More than one course may be taken during a given semester.
A number of communication courses are available as part of the 2014 CORE Curriculum. We recommend you work closely with an advisor to determine which course is best for you. Although many choices are available your degree program or anticipated plan of study after transfer may require a specific course from our offerings.

We also recommend you meet with our department chair or one of our faculty members if you feel you have a fear of public speaking or high levels of communication apprehension. We offer courses and programs that will specifically help you work through these issues but the modality you chose (online versus seated classes) may have an impact in your overall success.

Course of Study for Associate in Arts Degree – Mass Communication

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1146	Parliamentary Procedure	1
COMM	1307	Intro to Mass Communication	3
COMM	2300	Media Literacy	3
History (*from OC Core)*			6
Math (*from OC Core)*			3
Life and Physical Science (*from OC Core)*			8
Component Area Option			3
Creative Arts (*from OC Core)*			3
Major Requirements			**18**
COMM	1335	Survey of Radio/Television	3
COMM	2366	Introduction to Cinema	3
COMM	2120	Practicum in Electronic Media	1
COMM	2121	Practicum in Electronic Media II	1
ARTS	2348	Digital Arts I	3
Approved elective (A)			3
Approved elective (B)			3
KINE	1100	Lifestyle Assessment and Modification	1
Total Semester Hours		60	

Course of Study for Associate in Arts Degree – Speech and Rhetorical Studies

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1315	Public Speaking	3
SPCH	1145	Forensic Activities	1
COMM	2300	Media Literacy	3
American History (*from OC Core)*			6
Math (*from OC Core)*			3
Life and Physical Science (*from OC Core)*			8
Social/Behavioral Science (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Major Requirements			**18**
SPCH	1311	Introduction to Speech Communication	3
SPCH	1318	Interpersonal Communication	3
SPCH	1321	Business and Professional Speech	3
SPCH	2333	Discussion and Small Group Communication	3
SPCH	2144	Forensic Activities III	1
SPCH	2146	Forensic Activities IV	1
BCIS	1305	Business Computer Applications	3
KINE	1100	Lifestyle Assessment and Modification	1
Total Semester Hours			**60**

Speech Courses

COMM 2300 Media Literacy
(09.0102.5306) (3-0) 3 hour
Criticism and analysis of the function, role, and responsibility of the mass media in modern society from the consumer perspective. Includes the ethical problems and issues facing each media format, with the effect of political, economic, and cultural factors on the operation of the media

COMM 2366 Introduction to Cinema
(50.0602.5126) (3-0) 3 hour
Survey and analyze cinema including history, film techniques, production procedures, selected motion pictures, and cinema's impact on and reflection of society. (Cross- listed as DRAM 2366). (ICOs 1, 2, 4, 5,6) Prerequisite: None.

SPCH 1144 Forensic Activities I
(23.1304.6012) (1-0) 1 hour
Laboratory experience for students who participate in forensic activities. (ICOs 1, 2, 4, 6) Prerequisites: None.

SPCH 1145 Forensic Activities II
(23.1304.6012) (1-0) 1 hour
Laboratory experience for students who participate in forensic activities. (ICOs 1, 2, 4, 6) Prerequisites: None.

SPCH 1146 Parliamentary Procedure
(23.1304.6012) (1-0) 1 hour
Laboratory experience for students who participate in forensic activities. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

SPCH 1311 Introduction to Speech Communication
(23.1304.5112) (3-0) 3 hours
This course introduces the oral communication process through study of interpersonal skills. The course applies practices of communication in dyadic and group environments. Variables of nonverbal communication, self-esteem, listening techniques, presentational speaking and cultural diversities are examined. (ICOs 2, 4, 5) Prerequisite: None.

SPCH 1315 Public Speaking
(23.1304.5312) (3-0) 3 hours
In this course the student learns to apply oral communication skills toward a specified audience. Organization of ideas, the persuasion process, and audience analysis are components of the course objectives. The student will demonstrate these objectives through prepared messages using appropriate verbal and nonverbal techniques. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

SPCH 1318 Interpersonal Communications (23.1304.5412) (3-0) 3 hours
This course enables students to analyze and practice communication in one-on-one relationships. Topics include problem solving, decision-making, working with diversity, information processing, understanding of self and others, and effective speaking and listening skills in interpersonal contexts. (ICOs 1, 2, 4, 5) Prerequisite: None.

SPCH 1321 Business and Professional Speech
(23.1304.5212) (3-0) 3 hours
In this course students improve written and oral communication skills which affect business environments. Emphasis is placed on organizational networks, interviewing, presentational address, listening, and group work. The student will integrate these components with managerial methods and business image maintenance. Variables of culture and personality are analyzed. This course utilizes a "hands on" approach to application of the course materials. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

SPCH 2144 Forensic Activities III
(23.1304.6012) (1-0) 1 hour
Laboratory experience for students who participate in forensic activities

SPCH 2145 Forensic Activities IV
(23.1304.6012) (1-0) 1 hour
Laboratory experience for students who participate in forensic activities

SPCH 2333 Discussion and Small Group Communication
(23.1304.5612) (3-0) 3 hours
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. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

SPCH 2335 Argumentation and Debate (23.1304.5912) (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. (ICOs 1, 2, 4, 5) Prerequisite: None.

SPCH 2341 Introduction to Oral Interpretation
(23.1304.5712) (3-0) 3 hours
This course focuses on analysis and performance of written literature. The reader's evaluation of the literature and personal creativity are utilized toward a targeted objective for a specific audience. (ICOs 1, 2, 5) Prerequisite: None.

Computer and Information Science

www.odessa.edu/dept/computer

Faculty:

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. A student studying Computer Information Systems should contact the Department Chair his/her first semester to get a degree plan.

Course of Study for Associate in Applied Science Degree – Computer and Information Science

			Semester Hrs
Core Requirements			**15**
ARTS	1301	Art Appreciation **OR**	
MUSI	1306	Music Appreciation	3
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3
MATH	1333	Contemporary Mathematics II	3
SPCH	1315	Public Speaking	3
Major Requirements			**15**
ITSC	1401	Introduction to Computers	4
IMED	1401	Introduction to Digital Media	4
COSC	1436	Programming Fundamentals I	4
GAME	1301	Computer Ethics	3

In addition to the 30 hours listed, students must select Option I, Option II, or Option III below:

Option I - Gaming

Major Requirements			**30**
ARTV	1403	Basic Animation	4
ARTV	1441	3-D Animation I	4
ARTV	2451	3-D Animation II	4
GAME	1304	Level Design	3
GAME	1406	Design and Creation of Games	4
GAME	2404	Level Design II	4
GAME	2425	3D Animation II-Character Setup	4
GAME	2308	Portfolio for Game Dev.	3
Total Semester Hours (Option I – Gaming)			**60**

Option II – Networking

Major Requirements			**25**
ITNW	2313	Network Hardware	3
ITSC	1325	Personal Computer Hardware	3
ITNW	1354	Implementing and Supporting Servers	3
ITSY	1342	Information Technology Security	3
ITSC	1325	Personal Computer Hardware	3
ITNW	1351	Fundamentals of Wireless LANs	3
ITNW	2421	Networking with TCP/IP	4
ITNW	1380	Cooperative Education	3

Total Semester Hours (Option II – Networking) 60

Option III – PC Support

Major Requirements			**27**
ITNW	2313	Network Hardware	3
ITSC	1325	Personal Computer Hardware	3
ITSC	1316	Linux Installation & Configuration	3
ITNW	1454	Implementing and Supporting Servers	4
COSC	1436	Programming Fundamentals I	4
ITSW	1404	Intro to Spreadsheets	4
ITSC	2339	Personal Computer Help Desk Support	3
ITSC	2381	Cooperative Education	3

Total Semester Hours (Option III – PC Support) 60

Course of Study for Certificates of Completion

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Computer and Information Science

			Semester Hrs
ITSC	1401	Introduction to Computers	4
IMED	1401	Introduction to Digital Media	4
ITNW	1325	Fundamentals of Networking Technologies	3
ITSW	1307	Introduction to Database	3
ITSC	2339	Personal Computer Helpdesk Support	3
GAME	1301	Computer Ethics	3

Total Semester Hours 20

Level I – Cisco Certified Network Associate

			Semester Hrs
ITSC	1401	Introduction to Computers	4
ITCC	1475	Introduction to Networks	4
ITCC	1476	Routing and Switching Essentials	4
ITCC	2478	Scaling Networks	4
ITCC	2479	Connecting Networks	4

Total Semester Hours 20

Level II - Gaming

The 17 hours specified in Level 1 Computer and Information Science certificate plus the following courses:

			Semester Hrs
ARTV	1403	Basic Animation	4
ARTV	1441	3-D Animation I	4
ARTV	2451	3-D Animation II	4
GAME	1304	Level Design	3
GAME	1406	Design and Creation of Games	4
GAME	2308	Portfolio for Game Dev.	3
GAME	2425	3D Animation II-Character Setup	4
GAME	2404	Level Design II	4

Total Semester Hours 45

Level II – Intermediate Networking Technician

The 17 hours specified in Level 1 Computer and Information Science certificate plus the following courses:

			Semester Hrs
ITNW	2313	Network Hardware	3
ITSC	1325	Personal Computer Hardware	3
ITNW	1354	Implementing and Supporting Servers	4
ITSY	1342	Information Technology Security	3
ITSC	1325	Personal Computer Hardware	3
ITNW	1351	Fundamentals of Wireless LANs	3
ITNW	2421	Networking with TCP/IP	4
ITNW	1380	Cooperative Education	3

Total Semester Hours 45

Level II – Intermediate PC Support Technician

The 17 hours specified in Level 1 Computer and Information Science certificate plus the following courses:

			Semester Hrs
ITNW	2313	Network Hardware	3
ITSC	1325	Personal Computer Hardware	3
ITSC	1316	Linux Installation & Configuration	3
ITNW	1454	Implementing and Supporting Servers	4
COSC	1436	Programming Fundamentals I	4
ITSW	1404	Intro to Spreadsheets	3
ITSC	2339	Personal Computer Help Desk Support	3
ITSC	2381	Cooperative Education	3
Total Semester Hours			**45**

Advanced Technical Certificate – Law Enforcement/Computer Forensics

CERTIFICATE CANDIDATES MUST HAVE AN A.A.S. OR HIGHER DEGREE IN A COMPUTER RELATED FIELD OR CRIMINAL JUSTICE.

Information for Law Enforcement Graduates

ITNW	1325	Fundamentals of Networking Technologies	3
ITNW	1454	Implementing and Supporting Servers	4
ITSC	1325	Personal Computer Hardware	3
ITDF	1300	Intro to Digital Forensics	3
ITDF	2320	Digital Forensics Collection	3
ITDF	2325	Digital Forensics Tools	3
ITDF	2335	Comprehensive Digital Forensics Project	3
ITDF	2330	Digital Forensics Analysis	3
SOCI	2336	Criminology	3
Advanced Certificate Total Hours			**28**

Information for Computer Graduates

CRIJ	2314	Criminal Investigation	3
CRIJ	1306	Court Systems & Practices	3
CRIJ	2323	Legal Aspects of Law Enforcement	3
ITDF	1300	Intro to Digital Forensics	3
ITDF	2320	Digital Forensics Collection	3
ITDF	2325	Digital Forensics Tools	3
ITDF	2335	Comprehensive Digital Forensics Project	3
ITDF	2330	Digital Forensics Analysis	3
SOCI	2336	Criminology	3
Advanced Certificate Total Hours			**27**

Computer & Information Science Courses

ARTV 1403 Basic Animation
(10.0304) (3-3) 4 hours
Examination of concepts, principles, and storyboard for basic production. Emphasizes creating movement and expression utilizing traditionally or digitally generated image sequences. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: ITSC 1401.

ARTV 1441 3-D Animation I
(10.0304) (3-3) 4 hours
Intermediate level 3-D course introducing animation tools and techniques used to create movement. Emphasis on using the principles of animation. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: ARTV 1403.

ARTV 2451 3-D Animation II
(10.0304) (3-3) 4 hours
Advanced level 3-D course utilizing animation tools and techniques used to develop movement. Emphasis on advanced animation techniques. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: ARTV 1441.

COSC 1436 Programming Fundamentals I (11.0201.5507)
(3-3) 4 hours
Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer ScienceLab fee required. (ICOs 1, 4, 6) Prerequisites: BCIS 1405 or ITSC 1401.

COSC 1437 Programming Fundamentals II (11.0201.5607)
(3-3) 4 hours
This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science Lab fee required. (ICOs 1, 4, 6) Prerequisite: COSC 1436.

GAME 1301 Computer Ethics
(10.0304) (3-0) 3 hours
A study of ethical issues that apply to computer related professions, intellectual property and privacy issues, professional responsibility, and the effects of globalization. Emphasizes the practical application of computer ethics through case studies and current events in the game and simulation industry. (ICOs 1, 2, 4, 5) Prerequisite: None.

GAME 1304 Level Design
(10.0304) (3-1) 3 hours
Introduction to the tools and concepts used to create levels for games and simulations. Incorporates level design, architecture theory, concepts of critical path and flow, balancing, play testing, and storytelling. Includes utilization of toolsets from industry titles. Lab fee required. (ICOs 1, 2) Prerequisite: ITSC 1401.

GAME 1306 Design and Creation of Games
(10.0304) (3-1) 3 hours
Introduction to game and simulation development. Includes analysis of existing applications and creation of a game using an existing game engine. In-depth coverage of the essential elements of game design. Also covers an overview of cultural history of electronic games, survey of the major innovators, and examination of the trends and taboos that motivate game design. Lab fee required. (ICOs 1, 2, 4) Prerequisite: ITSC 1401.

GAME 2304 Level Design II
(10.0304) (3-1) 3 hours
Intermediate approach to the tools and concepts used to develop levels of games and simulations. Incorporates an intermediate exploration of level design, architecture theory, concepts of critical path and flow, balancing, play testing and storytelling. Includes utilization of toolsets from industry titles. Lab fee required. (ICOs 1, 2) Prerequisite: GAME 1304.

GAME 2332 Project Development I
(10.0304) (3-1) 3 hours
Skill development in an original modification based on a current game engine. Includes management of version control; development of project timeliness; integration of sound, models, and animation; production of demos; and creation of original levels, characters, and content for a real-time multiplayer game. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: GAME 1306.

IMED 1401 Introduction to Digital Media
(11.0801) (3-3) 4 hours
A survey of the theories, elements, and hardware/software components of digital media. Emphasis on conceptualizing and producing digital media presentations. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: None. Corequisite: None.

ITCC 1475 Introduction to Networks
(11.1002) (2-2) 4 hours
Introduce the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANS, perform basic configurations for routers and switches, and implement IP addressing schemes. (ICOs 1, 2, 4) Prerequisite: ITSC 1401.

ITCC 1476 Routing and Switching Essentials
(11.1002) (2-2) 4 hours
This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with riPv1, RIPv2, single area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. Prerequisite: ITSC 1401.

ITCC 2478 Scaling Networks
(11.1002) (2-2) 4 hours
This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement DCHP and DNS operations in a network. Prerequisites: ITSC 1401, ITCC 1475, ITCC 1476.

ITCC 2479 Routing and Switching Essentials
(11.1002) (2-2) 4 hours
This course discusses the WAN technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement IPSec and virtual private network VPN operations in a complex network. Prerequisites: ITSC 1401, ITCC 1475, ITCC 1476, ITCC 2478.

ITDF 1300 Introduction to Digital Forensics
(11.1003) (3-1) 3 hours
A study of the application of digital forensic technology to collect, analyze, document, and present information while maintaining a documented chain of custody. Overview of ethics, crime, and other legal guidelines/regulations/laws. Includes overview of tools used for forensic analysis of digital devices in investigations. Lab fee required. (ICOs 1, 2, 4) Prerequisite: ITSC 1401.

ITDF 2320 Digital Forensics Collection
(11.1003) (3-1) 3 hours
A study of acquiring digital evidence from devices, networks and logs while preserving the evidentiary chain. Includes the legal aspects of the search and seizure of computers and related equipment/information. Lab fee required. (ICOs 1, 2, 3, 4, 6) Corequisite: ITDF 2325.

ITDF 2325 Digital Forensics Tools
(11.1003) (3-1) 3 hours
Skills-based course in the applications of forensic analysis software. Tools used in this course may include EnCase, ILook, Forensic Tool Kit, write blockers, StegAlyzerSS, "X-Ways", ProDiscover Basic, and others. Lab fee required. (ICOs 1, 2, 3, 4, 6) Corequisite**:** ITDF 2320.

ITDF 2330 Digital Forensics Analysis
(11.1003) (3-1) 3 hours
Digital forensic analysis, report preparation, and evidence presentation. Emphasizes legal and technical aspects of cases where digital forensics is employed. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite ITDF 2320 and ITDF 2325.

ITDF 2335 Comprehensive Digital Forensics Project
(11.1003) (3-1) 3 hours
Comprehensive application of skills learned in previous digital forensics courses in a simulated crime scene or workplace investigation. Includes collection, analysis, and presentation of digital data and evidence in a problem-based case study format. This course is used as a capstone course for a certificate or degree. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: ITDF 2320, ITDF 2325, and ITDF 2330.

ITNW 1325 Fundamentals of Networking Technologies
(11.1002) (3-1) 3 hours
Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software. (2, 3, 5, 6) Prerequisite: None. Corequisite: ITSC 1401.

ITNW 1351 Fundamentals of Wireless LANS (11.1002) (3-1) 3 hours
Design, plan, implement, operate, and troubleshoot Wireless Local Area Networks (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: ITNW 1325.

ITNW 1380 Cooperative Education – Computer Systems Networking and Telecommunications
(1-20) (11.10901) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of department chair.

ITNW 1454 Implementing and Supporting Servers
(11.0901) (3-3) 4 hours
Implement, administer, and troubleshoot information systems that incorporate servers in a networked computing environment. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: ITNW 1325.

ITNW 2313 Networking Hardware
(11.0901) (3-0) 3 hours
Exploration of hardware devices including cables, servers, and workstations; network connectivity devices and uninterruptible power supplies. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: ITNW 1325.

ITNW 2421 Networking with TCP/IP
(11.0901) (3-3) 4 hours
Set up, configure, use, and support Transmission Control Protocol/Internet Protocol (TCP/IP) on networking operating systems. Lab fee required. (ICOs 1, 2, 3, 4, 6)Prerequisite: ITNW 1454.

ITSC 1307 UNIX Operating System I
(11.0101) (2-3) 3 hours
Introduction of the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Includes introductory system management concepts. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: ITSC 1401.

ITSC 1316 Linux Installation and Configuration
(11.0101) (3-0) 3 hours
Introduction to Linux operating system. Includes Linux installation, basic administration, utilities and commands, upgrading, networking, security, and application installation. Emphasizes hands-on setup, administration, and management of Linux. Prerequisite: ITSC 1401.

ITSC 1325 Personal Computer Hardware
(47.0104) (3-1) 3 hours
Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: ITSC 1401.

ITSC 1401 Introduction to Computer
(11.0101) (3-3) 4 hours
Overview of computer information systems. Introduces computer hardware, software, procedures, and human resources. Keyboarding proficiency is highly recommended. Lab fee required. (ICOs 1, 2, 3) Prerequisite: None.

ITSC 2339 Personal Computer Help Desk Support (11.0101) (3-0) 3 hours
Diagnosis and solution of user hardware and software related problems with on-the-job and/or simulated projects. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: ITSC 1401.

ITSC 2381 Cooperative Education – Computer and Information Sciences, General
(1-20) (11.0101) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1, 4, 5, 6) Prerequisite: Consent of department chair.

ITSW 1301 Introduction to Word Processing (11.0602) (3-1) 3 hours
An overview of the production of documents, tables, and graphics. Keyboarding proficiency is highly recommended. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: None.

ITSW 1307 Introduction to Database
(11.0802) (3-1) 3 hours
Introduction to database theory and the practical applications of a database. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

ITSW 1404 Introduction to Spreadsheets
(11.0301) (3-1) 3 hours
Instruction in the concepts, procedures, and application of electronic spreadsheets. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisites: ITSC 1401.

ITSY 1342 Information Technology Security (11.1003) (3-1) 3 hours
Instruction in security for network hardware, software, and data, including physical security; backup procedures; relevant tools; encryption; and protection from viruses. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: ITNW 1325 and ITSC 1401.

ITSY 2301 Firewalls and Network Security
(11.1003) (3-1) 3 hours
Identify elements of firewall design, types of security threats and responses to security attacks. Use best practices to design implement, and monitor a network security plan. Examine security incident postmortem reporting and ongoing network security activities. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: ITSY 1342.

ITSY 2330 Intrusion Detection
(11.01003) (3-1) 3 hours
Computer information systems security monitoring, intrusion detection, and crisis management. Includes alarm management, signature configuration, sensor configuration, and troubleshooting components. Emphasizes identifying, resolving, and documenting network crises and activating the response team. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: ITSY 2301.

ITSY 2342 Incident Response & Handling
(11.1003) (3-1) 3 hours
In-depth coverage of incident response and incident handling, including, identifying sources of attacks and security breaches; analyzing security logs; recovering the system to normal; performing postmortem analysis; and implementing and modifying security measures. Lab fee required. (ICOs 1, 2, 3, 4, 6) Prerequisite: ITSY 2301.

Computer Science

(Field of Study)

www.odessa.edu/dept/computer

Faculty:

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 (2001) 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 a high level programming language, and assembly programming language.

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. A student studying computer science should contact the department chair for the first semester to get a degree plan.

Course of Study for Associate in Science Degree – Computer Science

			Semester Hrs
Major Requirements			**20**
COSC	1436	Programming Fundamentals I	4
COSC	1437	Programming Fundamentals II	4
COSC	2425	Computer Organization and Machine Language	4
COSC	2436	Programming Fundamentals III	4
*MATH	2414	Calculus II	4

			Semester Hrs
Core Requirements			**45**
BCIS		1405Business Computer Applications	4
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
ENGL	*(from OC's Humanities Core)*		3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
*MATH	2413	Calculus I	4
KINE	(any two one-hour activity courses)		2
PHYS	2425	University Physics I	4
PHYS	2426	University Physics II	4
SPCH	1321	Business & Professional Speech	3
History *(from OC's Core)*			6
Visual & Performing Arts *(from OC Core)*			3
Total Semester Hours			**65**

*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.

Computer Science Courses

BCIS 1305 Business Computer Applications (11.0202.5404) (3-0) 3 hours
Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet. Lab fee required. (ICOs 1, 2, 3) Prerequisite: None.

BCIS 1405 Business Computer Applications (11.0201.5404) (3-3) 4 hours
Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

COSC 1436 Programming Fundamentals I (11.0201.5507) (3-3) 4 hours
Introduces the fundamental concepts of structured programming and provides a comprehensive introduction to programming for computer science and technology majors. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. This course assumes computer literacy. This course is included in the Field of Study Curriculum for Computer Science. Lab fee required. (ICOs 1, 4, 6) Prerequisites: BCIS 1405 or ITSC 1401.

COSC 1437 Programming Fundamentals II (11.0201.5607) (3-3) 4 hours
This course focuses on the object-oriented programming paradigm, emphasizing the definition and use of classes along with fundamentals of object-oriented design. The course includes basic analysis of algorithms, searching and sorting techniques, and an introduction to software engineering processes. Students will apply techniques for testing and debugging software. (This course is included in the Field of Study Curriculum for Computer Science.)Lab fee required. (ICOs 1, 4, 5, 6) Prerequisite: COSC 1436.

COSC 2425 Computer Organization and Machine Language (11.0201.5407) (3-3) 4 hours
The organization of computer systems is introduced using assembly language. Topics include basic concepts of computer architecture and organization, memory hierarchy, data types, computer arithmetic, control structures, interrupt handling, instruction sets, performance metrics, and the mechanics of testing and debugging computer systems. Embedded systems and device interfacing are introduced. Lab fee required. (ICOs 1, 2, 6) Prerequisite: COSC 1437.

COSC 2436 Programming Fundamentals III (11.0201.5707) (3-3) 4 hours
Includes further applications of programming techniques, introducing the fundamental concepts of data structures and algorithms. Topics include recursion, fundamental data structures (including stacks, queues, linked lists, hash tables, trees, and graphs), and algorithmic analysis. JAVA is the programming language used in this course. Lab fee required. (ICOs 1, 2, 6) Prerequisite: COSC 1437.

Cosmetology

www.odessa.edu/dept/cosmetology

Faculty: Jerrie Sovil, chair; Machelle Bright, Shawanda Cox, Donna Kilgore, Shelley Navratil, Cheree Shepardson

Cosmetology courses at Odessa College seek to provide students with the skill and knowledge required to pass the Texas Department of Licensing and Regulation 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, please call our receptionist, Rebecca Hernandez at 432-335-6452, to be placed on the waiting list. Students are also required to purchase a cosmetology kit. For admission, applicants should apply to Odessa College and to the chair of the cosmetology department. 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.

Course of Study for Associate in Applied Science Degree – Cosmetology Operator

			Semester Hrs
Core Requirements			**16**
BCIS	1305	Business Computer Applications	3
ENGL	1301	Composition I	3
MATH	1333	Contemporary Mathematics II	3
Social/Behavioral Sciences *(from OC Core)*			3
KINE	1166	First Aid	1
Language, Philosophy, & Culture, or Creative Arts (*from OC Core*)			3

			Semester Hrs
Major Requirements			**41**
CSME	1401	Orientation to Cosmetology	4
CSME	1405	Fundamentals of Cosmetology	4
CSME	1443	Manicuring & Related Theory	4
CSME	1447	Principles of Skin Care/Facial & Related Theory	4
CSME	1451	Artistry of Hair, Theory, and Practice	4
CSME	1453	Chemical Reformation and Related Theory	4
CSME	2237	Advanced Cosmetology Techniques	2
CSME	2343	Salon Development	3
CSME	2401	Principles of Hair Coloring & Related Theory	4
CSME	2439	Advanced Hair Design	4
CSME	2441	Preparation for the State Licensing Examination	4

Related Required Courses			**3**
HRPO	1311	Human Relations **or**	
MRKG	1311	Principles of Marketing	3

Total Semester Hours	**60**

NOTE: Student not desiring the associate in applied science degree may receive a Certificate of Completion – Operator Option.

Course of Study for Associate in Applied Science Degree – Cosmetology Instructor

			Semester Hrs
Core Requirements			**17**
ENGL	1301	Composition I	3
ITSC	1191	Special Topics in Computer	1
MATH	1333	Contemporary Mathematics II	3
KINE	1166	First Aid	1
SPCH	1318	Interpersonal Communication **or**	
SPCH	1321	Business & Professional Communication	3
Language, Philosophy, & Culture, or Creative Arts (*from OC Core*)			3
Social/Behavioral Sciences *(from OC Core)*			3

			Semester Hrs
Major Requirements			**30**
CSME	1534	Cosmetology Instructor I	5
CSME	1535	Orientation to the Instruction of Cosmetology	5
CSME	2514	Cosmetology Instructor II	5
CSME	2515	Cosmetology Instructor III	5
CSME	2544	Cosmetology Instructor IV	5
CSME	2545	Instruction Theory and Clinic Operation	5

Related Required Courses			**14**
ACNT	1403	Introduction to Accounting I	4
BUSI	2301	Business Law	3
HRPO	1311	Human Relations	3
MRKG	1311	Principles of Marketing **or**	
BUSG	2309	Small Business Management	3

Total Semester Hours **60**

NOTE: Student not desiring the associate in applied science degree may receive a Certificate of Completion – Instructor Option.

Course of Study for Certificates of Completion

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Operator

			Semester Hrs
Major Requirements			**41**
CSME	1401	Orientation to Cosmetology	4
CSME	1405	Fundamentals of Cosmetology	4
CSME	1443	Manicuring & Related Theory	4
CSME	1447	Principles of Skin Care/Facial & Related Theory	4
CSME	1451	Artistry of Hair, Theory, and Practice	4
CSME	1453	Chemical Reformation and Related Theory	4
CSME	2237	Advanced Cosmetology Techniques	2
CSME	2343	Salon Development	3
CSME	2401	Principles of Hair Coloring & Related Theory	4
CSME	2439	Advanced Hair Design	4
CSME	2441	Preparation for the State Licensing Examination	4

Total Semester Hours **41**

Level I – Instructor

			Semester Hrs
Major Requirements			**30**
CSME	1534	Cosmetology Instructor I	5
CSME	1535	Orientation to the Instruction of Cosmetology	5
CSME	2514	Cosmetology Instructor II	5
CSME	2515	Cosmetology Instructor III	5
CSME	2544	Cosmetology Instructor IV	5
CSME	2545	Instruction Theory and Clinic Operation	5

Total Semester Hours **30**

Level I – Manicurist

	Semester Hrs
Major Requirements	**15**
CSME 1330 Orientation to Nail Technology	3
CSME 1431 Principles of Nail Technology	4
CSME 1441 Principles of Nail Technology II	4
CSME 2430 Nail Enhancement	4

Total Semester Hours **15**

Cosmetology Operator Courses

CSME 1401 Orientation to Cosmetology
(12.0401) (2-6) 4 hours
An overview of the skills and knowledge necessary for the field of cosmetology. Demonstrate introductory skills, professional ethics, safety and sanitation. Explain the laws and rules of the state licensing agency. (ICOs 1, 2, 5, 6) Prerequisite: None.

CSME 1405 Fundamentals of Cosmetology
(12.0401) (2-6) 4 hours
A course in the basic fundamental of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out. Identify fundamental concepts related to skills required by the Texas Department of Licensing and Regulation (TDLR); demonstrate required skills TDLR standards. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1401.

CSME 1443 Manicuring and Related Theory
(12.0410) (2-6) 4 hours
Presentation of the theory and practice of nail services. Topics include terminology, application, and workplace competencies related to nail services. Define terminology related to nail services; demonstrate the basic procedures of nail services; and practice workplace competencies in nail services. (ICOs 1, 2, 4, 5) Prerequisite or Corequisite: CSME 1401.

CSME 1447 Principles of Skin Care/Facials and Related Theory
(12.0409) (2-6) 4 hours
In-depth coverage of the theory and practice of skin care, facials, and cosmetics. Define the terminology related to the skin, products, and treatments; demonstrate the proper application related to skin care and cosmetics; practice workplace competencies in skin care and cosmetics. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1401.

CSME 1451 Artistry of Hair, Theory and Practice
(12.0407) (2-8) 4 hours
Instruction in the artistry of hair design. Topics include theory, techniques, and application of hair design. Practice basic competencies related to the artistry of hair design; demonstrate use of tools; exhibit basic manipulative skills; and follow safety and sanitation laws and rules according to the state licensing agency. (ICOs 1, 2, 4, 5) Prerequisite or Corequisite: CSME 1401.

CSME 1453 Chemical Reformation and Related Theory
(12.0407) (2-8) 4 hours
Presentation of theory and practice of chemical reformation including terminology, application and workplace competencies. Define terminology related to chemical reformation; follow safety and sanitation laws and rules according to the state licensing agency; and exhibit workplace competencies related to chemical reformation. (ICOs 1, 2, 3, 5) Prerequisite or Corequisite: CSME 1401.

CSME 1534 Cosmetology Instructor I
(12.0413) (4-4) 5 hours
The fundamentals of instructing cosmetology students. Demonstrate classroom/clinic management; differentiate teaching methodologies; different learning styles; and assess lesson plans. (ICOs 1, 2, 3, 5) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

CSME 1535 Orientation to the Instruction of Cosmetology
(12.0413) (4-3) 5 hours
An overview of the skills and knowledge necessary for the instruction of cosmetology students. Identify teaching methodologies; observe lesson plan implementation; and monitor various learning settings. (ICOs 1, 2, 5) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

CSME 2237 Advanced Cosmetology Techniques (12.0401) (0-8) 2 hours
Mastery of advanced cosmetology techniques including hair designs, professional cosmetology services, and workplace competencies. Utilize a variety of hair techniques; perform professional cosmetology services; and demonstrate workplace competencies. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1405.

CSME 2343 Salon Development
(12.0412) (2-4) 3 hours
Procedures necessary for salon development. Topics include professional ethics and goal setting, salon operation, and record keeping. Create a salon portfolio or business plan. Demonstrate organizational skills related to salon operation and management. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1401.

CSME 2401 The Principles of Hair Coloring and Related Theory
(12.0407) (2-8) 4 hours
Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application, and workplace competencies related to hair color. Define terminology; demonstrate hair color application; practice safety and sanitation according to the laws and rules of the state licensing agency; and practice workplace competencies related to hair color. (ICOs 1, 2, 3, 5) Prerequisite or Corequisite: CSME 1401.

CSME 2439 Advanced Hair Design
(12.0407) (2-6) 4 hours
Advanced concepts in the theory and practice of hair design. Utilize correct terminology related to hair design; demonstrate advanced techniques related to hair design; and exhibit workplace competencies. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1401.

CSME 2441 Preparation for the State Licensing Examination
(12.0401) (2-8) 4 hours
Preparation for the State Licensing Examination. Demonstrate the skills and knowledge required for completion of the state licensing examination. (ICOs 1, 2, 5) Prerequisite or Corequisite: CSME 1401.

CSME 2514 Cosmetology Instructor II
(12.0413) (4-4) 5 hours
A continuation of the fundamentals of instructing cosmetology students. Demonstrate effective classroom/clinic management, and implement teaching methodologies and lesson plans. (ICOs 1, 2, 5) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

CSME 2515 Cosmetology Instructor III
(12.0413) (4-4) 5 hours
Presentation of lesson plan assignments and evaluation techniques. Develop and present lesson plans and the use of multi-media technology. Present evaluation techniques used in a cosmetology program. (ICOs 1, 2, 5) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

CSME 2544 Cosmetology Instructor IV
(12.0413) (4-4) 5 hours
Advanced concepts of instruction in a Cosmetology program. Topics include demonstration, development, and implementation of advanced evaluation and assessment techniques. Practice instructional skills; develop assessment and evaluation techniques that promote student learning; and implement evaluation tools to measure student outcomes. (ICOs 1, 2, 4, 5) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

CSME 2545 Instructional Theory & Clinic Operation
(12.0413) (4-4) 5 hours
An overview of the objectives required by the Texas Department of Licensing and Regulation Instructor Examination. Demonstrate the skills required for the completion of the instructor's state licensing exam; manage the lab/clinic in a cosmetology program; practice safety and sanitation according to the laws and rules of the state licensing agency; and execute classroom management skills. (ICOs 1, 2, 5, 6) Prerequisite: Valid Texas Department of Licensing and Regulation license and high school diploma or GED.

Manicurist Courses

CSME 1330 Orientation to Nail Technology
(12.0410) (1-8) 3 hours
An overview of the fundamental skills and knowledge necessary for the field of nail technology. Demonstrate nail technology skills; practice safety and sanitation according to the laws and rules of the state licensing agency; and practice professional ethics. (ICOs 2) Prerequisite: None.

CSME 1431 Principles of Nail Technology I
(12.0410) (2-8) 4 hours
A course in the principles of nail technology. Topics include anatomy physiology, theory, and skills related to nail technology. Explain the basic anatomy and physiology of the hands, arms, and feet. Practice the related skills of manicuring, pedicuring, and nail enhancement. (ICOs 1) Prerequisite: CSME 1330.

CSME 1441 Principles of Nail Technology II
(12.0410) (2-8) 4 hours
A continuation of the concepts and principles of nail technology. Topics include professional ethics, salon management, client relations, and related skills of nail technology. Perform nail enhancements; practice professional ethics; and demonstrate safety and sanitation practices according to state licensing agency. (ICOs 4) Prerequisite: CSME 1330.

CSME 2430 Nail Enhancement
(12.0410) (2-8) 4 hours
A course in the theory, application, and related technology of nail enhancement. Demonstrate product knowledge; apply nail enhancement; and practice competencies as related to the state licensing examination. (ICOs 4) Prerequisite: CSME 1330.

Criminal Justice

www.odessa.edu/dept/criminal_justice

Faculty: Jennifer Myers, chair; Shawndee Kennedy, Troy Thomas, John Newton, Billy Spruill

The field of 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 provides an avenue to obtain an associate in applied science degree in criminal justice. The associate degree program consists of both criminal justice 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.

For further information, contact the department chair at 335-6500 or 335-6505.

Course of Study for Associate in Applied Science Degree Criminal Justice

Major Requirements			**45**
CJCR	1304	Probation and Parole	3
CJSA	1348	Ethics in Criminal Justice	3
CJLE	1327	Interviewing & Report Writing for Criminal Justice Pro.	3
HMSY	1337	Intro to Homeland Security	3
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1306	Court Systems and Practices	3
CRIJ	1307	Crime in America	3
CRIJ	1310	Fundamentals of Criminal Law	3
CRIJ	1313	Juvenile Justice System	3
CRIJ	2313	Correctional System & Practice	3
CRIJ	2314	Criminal Investigation	3
CRIJ	2328	Police Systems & Practices	3
CJLE	2386	Internship-Criminal Justice	3

PLUS <u>two</u> courses from the following list			**6**
CJCR	2325	Legal Aspects of Correction	
CJLE	1346	Human Trafficking	
CJSA	1325	Criminology or SOCI 2336 Criminology	
CJSA	1347	Police Organization & Administration	
CJSA	1330	Cybercrimes	
CRIJ	2301	Community Resources in Corrections	
CRIJ	2323	Legal Aspects of Law Enforcement	

General Education Requirements			**15**
ENGL	1301	Composition I	3
ENGL	2311	Technical & Business Writing	3
MATH (*from OC Core)*			3
Language, Philosophy, & Culture, or Creative Arts (*from OC Core*)			3
GOVT	2305	Federal Government	3

Total Semester Hours **60**

Students must complete **60** 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. Contact the Department Chair for a degree plan.

Course of Study for Associate in Applied Science Degree Criminal Justice Leadership

Major Requirements			**42**
BMGT	1301	Supervision	3
BMGT	1305	Communications in Mgmt.	3
BMGT	1344	Negotiation/Conflict Mgmt.	3
BMGT	2303	Problem Solving and Decision Making	3
BMGT	2309	Leadership	3
CJSA	1347	Police Organization & Admin.	3
CJSA	1348	Ethics in Criminal Justice	3
CJLE	2386	Internship – Criminal Justice	3
CJSA	2334	Contemporary Issues in Criminal Justice	3
CJSA	2335	First Line Police Supervision	3
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	2323	Legal Aspects of Law Enforcement	3
CRIJ	2328	Police Systems & Practices	3
HRPO	1311	Human Relations	3
General Education Requirements			**18**
BCIS	1305	Business Computer Applications	3
ENGL	1301	Composition I	3
ENGL	2311	Technical & Business Writing	3
GOVT	2305	Federal Government	3
Language, Philosophy, Culture or Creative Arts *(from OC Core)*			3
Mathematics *(from OC Core)*			3
Total Semester Hours			**60**

Students must complete **60** 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. Contact the Department Chair for a degree plan.

Texas accrediting agencies have designated 10 criminal justice 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.

Course of Study for Certificates of Completion

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Law Enforcement

CJSA	1348	Ethics in Criminal Justice	3
CJCR	1304	Probation and Parole	3
HMSY	1337	Intro to Homeland Security	3
CJLE	1327	Interviewing & Report Writing for Criminal Justice Pro.	3
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1306	Court Systems and Practices	3
CRIJ	1310	Fundamentals of Criminal Law	3
CRIJ	2314	Criminal Investigation	3
Total Semester Hours			**24**

Level I – Criminal Justice

CJCR	1304	Probation and Parole	3
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1306	Court Systems and Practices	3
CRIJ	1307	Crime in America	3
CRIJ	1310	Fundamentals of Criminal Law	3
CRIJ	1313	Juvenile Justice System	3
CRIJ	2313	Correctional Systems and Practices	3
CRIJ	2314	Criminal Investigation	3
Total Semester Hours			**24**

Level I – Criminal Justice Leadership

CJSA	1347	Police Organization & Admin.	3
CJSA	1348	Ethics in Criminal Justice	3
CJLE	2386	Internship – Crminal Justice	3
CJSA	2334	Contemporary Issues in Criminal Justice	3
CJSA	2335	First Line Police Supervision	3
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	2323	Legal Aspects of Law Enforcement	3
CRIJ	2328	Police Systems & Practices	3
BMGT	1301	Supervision	3
BMGT	1305	Communications in Mgmt.	3
BMGT	1344	Negotiation/Conflict Mgmt.	3
BMGT	2303	Problem Solving and Decision Making	3
BMGT	2309	Leadership	3
HRPO	1311	Human Relations	3
Total Semester Hours			**42**

Advanced Technical Certificate
Law Enforcement/Computer Forensics

Students must have a minimum of an Associate degree (or Junior/Senior standing), pass a criminal background check, and department chair approval prior to being accepted into ATC certificate program.

Major Requirements			**28**
ITNW	1325	Fundamentals of Networking Technologies	3
ITNW	1454	Implementing and Supporting Servers	4
ITSC	1325	Personal Computer Hardware	3
ITDF	1300	Intro to Digital Forensics	3
ITDF	2320	Digital Forensics Collection	3
ITDF	2325	Digital Forensics Tools	3
ITDF	2335	Comprehensive Digital Forensics Project	3
ITDF	2330	Digital Forensics Analysis	3
SOCI	2336	Criminology	3

Criminal Justice Courses

CJCR 1304 – Probation and Parole
(43.0113) (3-0) 3 hours
A survey of the structure, organization, and operation of probation and parole services. Emphasis on applicable state statutes and administrative guidelines. The student will describe the professional qualifications for employment as a probation or parole practitioner; demonstrate skills in management and treatment practices; and create and develop community relations strategies. (ICOs 1, 2) Prerequisite: None.

CJCR 2325 Legal Aspects of Corrections
(43.0113) (3-0) 3 hours
A study of the 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. The student will describe the various classifications of correctional populations. The student will the consequences of civil and criminal liabilities. (ICOs 1, 2, 6) Prerequisite: None.

CJLE 1327 Interviewing and Report Writing for Criminal Justice Professionals
(43.0107) (3-0) 3 hours
Instruction and skill development in interviewing, note-taking, and report writing in the criminal justice context. Development of skills to conduct investigations by interviewing witnesses, victims, and suspects properly. Organization of information regarding incidents into effective written reports. The student will demonstrate techniques for conducting interviews in support of incident investigations. The student will collect information admissible in court using interview techniques. The student will demonstrate appropriate note-taking skills. The student will create reports that convey all pertinent information. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CJSA 1325 Criminology
(43.0104) (3-0) 3 hours
Current theories and empirical research pertaining to crime and criminal behavior and its causes, methods of prevention, systems of punishment, and rehabilitation. 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. (ICOs 1, 2, 5) Prerequisite: None.

CJLE 1346 Human Trafficking
(43.0107) (3-0) 3 hours
Examines the history of human trafficking, the current laws addressing human trafficking, and the challenges to policing human trafficking domestically and internationally. Also explores investigation techniques and policy relating to the combat of human trafficking. The student will explore investigation techniques used in human trafficking, will examine the history and current laws of human trafficking, will explore challenges to policing human trafficking both domestically and internationally, will explore the current policies regarding human trafficking, and will learn current international and domestic techniques being used to investigate and prosecute human traffickers. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CJLE 2386 Internship – Criminal Justice
(43.0107) (3-0) 3 hours
A work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. A learning plan is developed by the college and the employer. The student will apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None

CJSA 1347 Police Organization and Administration
(43.0104) (3-0) 3 hours
Study of the principles of organizational structure and administration. Topics include theories of management, motivation, and leadership. Focus on a quality approach toward police community interaction. The student will identify principles of organization, administration, management, motivation and leadership; and describe the quality approach to community relations. (ICOs 1, 2, 4, 5) Prerequisite: None.

CJSA 1330 Cybercrimes
(43.0103) (3.0) 3 hours
An introduction to cybercrime. Topics include specific laws, investigative techniques, and criminological theories applicable to computer crime. Students will identify and describe the major types of internet crimes and their elements; list the trends involving digital crime; outline the investigative process in cybercrimes; apply existing laws to actions and events in computer crime investigations; and identify future areas of legal concern in computer crime cases. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites:

None

CJSA 1348 Ethics in Criminal Justice
(43.0104) (3-0) 3 hours
Ethical philosophies and issues pertaining to the various professions in the criminal justice system. Includes ethical issues emanating from constitutional conflict with public protection and individual rights, civil liberties, and correctional policies. Students will explain the foundation of ethics. Students will compare and contrast theories of ethics with personal and professional practices. Students will interpret and apply ethical considerations in policing, the courts and corrections. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CJSA 2334 Contemporary Issues in Criminal Justice
(43.0104) (3-0) 3 hours
A series of lectures and class participation exercises presenting selected topics currently confronting criminal justice personnel and the public they serve. The student will explore an assigned contemporary topic in criminal justice, list specific problems with the topic, and suggest solutions. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CJSA 2335 First Line Police Supervision
(43.0104) (3-0) 3 hours
Development of supervision techniques and practices for the first-line supervisor and development of desirable traits of a supervisor with emphasis on individual and group leadership. Special emphasis on the balance between the individual and the organization. The student will analyze the traits of a good supervisor. The student will compare characteristics of individual and group supervisory problems. The student will describe the supervisor's role in the balance between the individual and the organization. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CRIJ 1301 Introduction to Criminal Justice (43.0104.5124) (3-0) 3 hours
This course provides a historical and philosophical overview of the American criminal justice system, including the nature, extent, and impact of crime; criminal law; and justice agencies and processes. The student will describe the history and philosophy of the American criminal justice system. The student will explain the nature and extent of crime in America. The student will analyze the impact and consequences of crime. The student will evaluate the development, concepts, and functions of law in the criminal justice system. The student will describe the structure of contemporary federal, state, and local justice agencies and processes. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CRIJ 1306 Court Systems and Practices (22.0101.5424) (3-0) 3 hours
This course is a study of the court system as it applies to the structures, procedures, practices and sources of law in American courts, using federal and Texas statutes and case law. The student will describe the American judicial systems (civil, criminal, and juvenile), their jurisdiction, development and structure. The student will analyze the function and dynamics of the courtroom work group. The student will identify judicial processes from pretrial to appeal. The student will describe the significant Constitutional Amendments, doctrines, and other sources of law in the American judicial system. (ICOs 1, 2, 4, 6) Prerequisite: None.

CRIJ 1307 Crime in America
(45.0401.5225) (3-0) 3 hours
American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crimes; prevention of crime. The student will explain the psychological, social, and economic impact of crime in society and identify characteristics of major crimes, the impact on society and the prevention thereof. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

CRIJ 1310 Fundamentals of Criminal Law (22.0101.5324) (3-0) 3 hours
This course is the study of criminal law including application of definitions, statutory elements, defenses and penalties using Texas statutes, the Model Penal Code, and case law. The course also analyzes the philosophical and historical development of criminal law and criminal culpability. The student will identify the elements of crimes and defenses under Texas statutes, Model Penal Code, and case law. The student will classify offenses and articulate penalties for various crimes. The student will compare culpable mental states when assigning criminal responsibility. The student will assess the impact of history and philosophy on current criminal laws. The student will evaluate the application of criminal law to other areas of criminal justice such as law enforcement and corrections. (ICOs 1, 2, 3) Prerequisite: None.

CRIJ 1313 Juvenile Justice System
(45.0104.5224) (3-0) 3 hours
A study of the juvenile justice process to 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 contract the theories of delinquent conduct. (ICOs 1, 2) Prerequisite: None.

CRIJ 2301 Community Resources in Corrections
(43.0104.5324) (3-0) 3 hours
An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs; legal issues; future trends in community treatment. The student will identify alternatives to incarceration; compare and contrast the strengths and weaknesses inherent in contemporary models of intermediate sanctions; and appraise future trends in community treatment options. (ICOs 1, 2, 5, 6) Prerequisite: None.

CRIJ 2313 Correctional Systems and Practices
(43.0104.5424) (3-0) 3 hours
This course is a survey of institutional and non-institutional corrections. Emphasis will be placed on the organization and operation of correctional systems; treatment and rehabilitation; populations served; Constitutional issues; and current and future issues. The student will describe the organization and operation of correctional systems and alternatives to Institutionalization. The student will describe treatment and rehabilitative programs. The student will differentiate between the short-term incarceration and long-term institutional environments. The student will evaluate current and future correctional issues. The student will identify the Constitutional rights applicable to the correctional setting. (ICOs 1, 2) Prerequisite: None.

CRIJ 2314 Criminal Investigation
(43.0104.5524) (3-0) 3 hours
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case 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. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

CRIJ 2323 Legal Aspects of Law Enforcement
(43.0104.5624) (3-0) 3 hours
Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability. The student will define police authority and explain the responsibilities and constitutional restraints as enumerated in the Texas Constitution, United States Constitution, and Bill of Rights. The student will outline the law of arrest and search and seizure developed through court decisions and describe the criminal and civil liability that result from improper acts and/or the failure to act. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

CRIJ 2328 Police System and Practices (43.0104.5724) (3-0) 3 hours
This course examines the establishment, role and function of police in a democratic society. It will focus on types of police agencies and their organizational structure, police-community interaction, police ethics, and use of authority. The student will describe the types of police agencies and explain the role of police in America within the context of a democratic society. The student will describe means and methods utilized to ensure police accountability. The student will explain the historical development of policing. The student will describe the selection process for police officers. The student will compare and contrast organizational structures, policies, strategies and tactics employed to ensure police effectiveness, efficiency and equity. (ICOs 1, 2, 5, 6) Prerequisite: None.

HMSY 1337 Introduction to Homeland Security
(44.0401) (3-0) 3 hours
Overview of homeland security. Evaluation of the progression of homeland security issues throughout Texas and the United States. An examination of the roles undertaken and methods used by governmental agencies and individuals to respond to those issues. The student will list the key events and people that have affected homeland security. The student will outline the specific roles that individuals and governmental agencies play in homeland security. The student will prepare a summary of programs and methods used to meet the homeland security needs of Texas and the United States. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

Criminal Justice Forensics

www.odessa.edu/dept/criminal_justice

Faculty: Jennifer Myers, Chair

The Forensics degree plan provides the students with more avenues to success in the changing law enforcement environment. Not all students seek a position as a peace officer upon graduation. Some are interested in the gathering and processing of evidence through scientific analysis in a criminal investigation. This degree provides the student with that avenue for success.

This degree field will also assist various agencies in improving their capabilities to collection and preservation of evidence at various types of crime scenes. Most law enforcement agencies now include civilian crime scene technicians to process the ever- growing number of crime scenes - allowing more officers to be available for other calls for service.

Course of Study for Associate in Science Degree –Criminal Justice Forensics

General Education Requirements			**42**
BCIS	1305	Business Computer Applications	3
BIOL	1406	Biology for Science Majors I	4
CHEM	1311/1111	General Chemistry I w/Lab	4
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
ENGL	Sophomore Literature (from OC Core)		3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1314	College Algebra **or**	**3**
MATH	*1342*	*Elementary Statistical Methods*	
Creative Arts (from OC Core)			3
KINE	1166	First Aid	3
PSYC	2301	General Psychology	3
Major Requirements			**18**
CRIJ	1301	Introduction to Criminal Justice	3
CRIJ	1310	Fundamentals of Criminal Law	3
CRIJ	2314	Criminal Investigation	3
FORS	2440	Introduction to Forensic Science	4
FORS	2450	Introduction to Forensic Psychology	4
KINE	1103	Defensive Tactics	1

Program Total Semester Credit Hours 60

PSYCH 2301 is a prerequisite to FORS 2450

Criminal Justice Forensics Courses

CRIJ 1301 Introduction to Criminal Justice (43.0104.5124) (3-0) 3 hours
History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections. 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 the civil and criminal court systems; and interpret the relationship between the components of the criminal justice system. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

CRIJ 1310 Fundamentals of Criminal Law (22.0101.5324) (3-0) 3 hours
A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; 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. (ICOs 1, 2, 4, 5, 6) Prerequisites: None.

CRIJ 2314 Criminal Investigation (43.0104.5524) (3-0) 3 hours
Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case 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. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

FORS 2440 Introduction to Forensic Science (43.0106.5124) (3-3) 4 hours
Survey of the procedures of crime scene investigation in gathering evidence and applicable scientific technologies that follow established protocols by first responders; a preview of how criminalists in forensic laboratories will process the gathered evidence presented. Approval maximum contact hours. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6)

FORS 2450 Introduction to Forensic Psychology (43.0106.5224) (3-3) 4 hours
Survey of current perspectives and technologies in the analysis of criminal mind suggested by crime scene evidence; introduction applications of forensic psychology including the history and current practice of criminal profiling in the apprehension of serial killers as sexual predators. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: PSYC 2301.

Culinary Arts & Food Service Management

www.odessa.edu/dept/culinary

Faculty: Desmond Stout, director; Paul Porras

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 provides those individuals with sufficient thinking, reasoning and application skills to pursue and obtain advancement in their chosen profession.

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

			Semester Hrs
Major Requirements			**43**
CHEF	1205	Sanitation and Safety	2
CHEF	1214	A La Carte Cooking	2
CHEF	1301	Basic Food Preparation	3
CHEF	1310	Garde Manger	3
CHEF	1341	American Regional Cuisine	3
CHEF	1345	International Cuisine	3
CHEF	2302	Saucier	3
CHEF	2380	Cooperative Education – Culinary Arts/Chef Training	3
IFWA	1218	Nutrition	2
PSTR	1301	Fundamentals of Baking	3
PSTR	1340	Plated Desserts	3
PSTR	2331	Advanced Pastry Shop	3
RSTO	1201	Beverage Management	2
RSTO	1204	Dining Room Service	2
RSTO	1313	Hospitality Supervision	3
RSTO	1325	Purchasing for Hospitality Operations	3
Core Requirements			**17**
BCIS	1305	Business Computer Applications	3
SPCH	1318	Interpersonal Communication	3
ECON	2302	Principles of Microeconomics II	3
ARTS	1301	Art Appreciation or	
PHIL	1301	Introduction to Philosophy	3
MATH	1333	Contemporary Mathematics II	3
KINE	Any two one-hour activity courses		2
Total Semester Hours			**60**

Course of Study for Associate in Applied Science Degree – Food Service Management

			Semester Hrs
Major Requirements			**37**
CHEF	1205	Sanitation and Safety	2
FDST	2333	Wine and Sensory	3
HAMG	1224	Human Resources	2
HAMG	1321	Introduction to Hospitality	3
HAMG	1340	Hospitality Legal Issues	3
HAMG	2332	Hospitality Financial Mgmt.	3
HAMG	2337	Facilities Management	3
IFWA	1218	Nutrition for Food Service Professional	2
RSTO	1201	Beverage Management	2
RSTO	1204	Dining Room Service	2
RSTO	1221	Menu Management	2
RSTO	1313	Hospitality Supervision	3
RSTO	1325	Purchasing for Hospitality Operations	3
RSTO	2405	Management of Food Prod.	4
Core Requirements			**20**
BCIS	1305	Business Computer Applications	3
MATH	1333	Contemporary Mathematics II	3
KINE	Any two one-hour activity courses		2
SPCH	1318	Interpersonal Communication	3
ECON	2302	Principles of Microeconomics II	3
ARTS	1301	Art Appreciation or	
PHIL	1301	Introduction to Philosophy	3
Related Requirements			**6**
BMGT	1305	Communication in Management	3
BMGT	2309	Leadership	3
Total Semester Hours			**60**

Culinary Arts Certificate Program

The Culinary Arts Certificate 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. 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.
Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Food Production Cook

			Semester Hrs
CHEF	1205	Sanitation and Safety	2
CHEF	1301	Basic Food Preparation	3
PSTR	1301	Fundamentals of Baking	3
IFWA	1218	Nutrition	2
RSTO	1204	Dining Room Service	2
RSTO	1325	Purchasing for Hospitality Operations	3
Total Semester Hours			**15**

Level II – Advanced Food Production Cook

			Semester Hrs
CHEF	2302	Saucier	3
PSTR	2331	Advanced Pastry Shop	3
CHEF	1345	International Cuisine	3
RSTO	1201	Beverage Management	2
CHEF	1310	Garde Manager	3
CHEF	1341	American Regional Cuisine	3
RSTO	1313	Hospitality Supervision	3
CHEF	2380	Cooperative Education	3
CHEF	1214	A La Carte Cooking	2
PSTR	1340	Plated Desserts	3
Total Semester Hours			**28**

Student Equipment Requirements for Culinary

CHEF 1301 and CHEF 2302:

- Two chef's uniforms consisting of long-sleeved jackets, checkered pants, steel toed shoes, and hat.
- Basic chef's tool kit consisting of the following:
  - A. French knife 8" or 10" blade
  - B. Paring knife 3 1/2" blade
  - C. Vegetable peeler
  - D. Cook's fork
  - E. Boning knife – 5 1/2" rigid blade
  - F. French whip

CHEF 1214, CHEF 1341, and CHEF 1345:

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

CHEF 1310, CHEF 2232, and CHEF 2236:

- Uniforms and tool kit as identified in CHEF 1301, 2201, and 2302 plus:
  - A. 1 set of 1/2" aspic cutters
  - B. 1 Exacto knife
  - C. 1 set of butter sculpture tools

PSTR 1301 and PSTR 2331:

- Two chef's uniforms consisting of long-sleeved jackets, checkered pants, steel toed shoes, and hat.
- 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

Culinary Arts Courses

CHEF 1205 Sanitation and Safety
(12.0503) (2-0) 2 hours
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. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

CHEF 1214 A La Carte Cooking
(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. (ICOs 1, 2, 3, 4, 6) Prerequisites: CHEF 1301, CHEF 1205 and CHEF 2302.

CHEF 1301 Basic Food Preparation
(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. (ICOs 1, 2, 3, 6) Prerequisite: None.

CHEF 1310 Garde Manger
(12.0503) (3-2) 3 hours
A study of cold foods and garnishes. Emphasis on design, techniques, and display of fine foods. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: CHEF 1301.

CHEF 1341 American Regional Cuisine
(12.0503) (2-2) 3 hours
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 acquire knowledge of recipe strategies and production systems. Lab fee required. (ICO 1, 2, 3) Prerequisite: CHEF 1214 and CHEF 1345.

CHEF 1345 International Cuisine
(12.0503) (2-2) 3 hours
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. (ICOs 1,3) Prerequisite: CHEF 1301.

CHEF 2302 Saucier
(12.0502) (2-2) 3 hours
Instruction in the preparation of stocks, soups, classical sauces, contemporary sauces, accompaniments, and the paring of sauces with a variety of foods. (ICOs 1, 2, 3, 4, 6) Prerequisite: CHEF 1301.

CHEF 2380 Cooperative Education – Culinary Arts/Chef Training
(12.0503) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1, 2, 4, 5, 6) Prerequisites: Consent of department chair.

FDST 2333 Wine Types and Sensory Evaluation
(01.1001) (3-0) 3 hours
A study of the major types of wines including factors that affect quality with on the development of sensory evaluation techniques. (ICOs 1, 2, 3, 5) Prerequisites: HAMG 1321, RSTO 1201 and RSTO 1221.

HAMG 1224 Hospitality Human Resources Management
(52.0901) (2-0) 2 hours
Principles and procedures of human resource management in the hospitality industry. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: None.

HAMG 1321 Introduction to Hospitality Industry
(52.0901) (3-0) 3 hours
An exploration of the elements and career opportunities within the multiple segments of the hospitality industry. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: None.

HAMG 1340 Hospitality Legal Issues
(52.0901) (3-0) 3 hours
A course in legal and regulatory requirements that impact the hospitality industry. Topics include Occupational Safety and Health Administration (OSHA), labor regulations, tax laws, tip reporting, franchise regulations, and product liability laws. (ICOs 1 2, 3, 5) Prerequisites: None.

HAMG 2332 Hospitality Financial Management
(52.0901) (3-0) 3 hours
Methods and application of financial management within the hospitality industry. Primary emphasis on sales accountability, internal controls, and report analysis. (ICOs 1, 2, 3, 5) Prerequisites: HAMG 1321 and RSTO 1325.

HAMG 2337 Hospitality Facilities Management
(52.0901) (3-0) 3 hours
Identification of hospitality building systems and facilities; to include sustainability and risk management. (ICOs 1, 2, 3, 4, 5) Prerequisites: HAMG 1321, RSTO 1221 and RSTO 1325.

IFWA 1218 Nutrition for the Food Service Professional
(12.0508) (2-0) 2 hours
An introduction to nutrition including nutrients, digestion and metabolism, menu planning, recipe modification, dietary guidelines and restrictions, diet and disease, and healthy cooking techniques. (ICOs 1, 2, 3, 4, 5) Prerequisites: None.

PSTR 1301 Fundamentals of Baking
(12.0503) (2-4) 3 hours
Fundamentals of baking including dough, quick breads, pies, cakes, cookies, and tarts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: None.

PSTR 2331 Advanced Pastry Shop
(12.0501) (2-4) 3 hours
A study of classical desserts, French and international pastries, hot and cold desserts, ice creams and ices, chocolate work, and decorations. Emphasis on advanced techniques. Lab fee required. (ICOs 1, 2, 3, 6) Prerequisite: PSTR 1301.

RSTO 1201 Beverage Management
(12.0504) (2-0) 2 hours
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. (ICOs 2, 3, 4) Prerequisite: None.

RSTO 1204 Dining Room Service
(12.0504) (2-0) 2 hours
Introduces the principles, concepts and systems of professional table service. Topics include dining room organization, scheduling, and management of food service personnel. (ICOs 1, 5) Prerequisite: None.

RSTO 1221 Menu Management
(12.0504) (2-0) 2 hours
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. (ICOs 1, 2, 3, 4) Prerequisite: None.

RSTO 1313 Hospitality Supervision
(12.0504) (3-0) 3 hours
Fundamentals of recruiting, selection, and training of food service and hospitality personnel. Topics include job descriptions, schedules, work improvement, motivation, and applicable personnel laws and regulations. Emphasis on leadership development. (ICOs 1, 2, 3, 4, 6) Prerequisite: None.

RSTO 1325 Purchasing for Hospitality Operations (12.0504) (3-0) 3 hours
Study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparisons, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yields, pricing formulas, controls, and record keeping at each stage of the purchasing cycle. (ICOs 2, 3, 4, 5,) Prerequisite: None.

RSTO 2405 Management of Food Production and Service
(12.0504) (3-1) 4 hours
A study of quantity cookery and management problems pertaining to commercial and institutional food service, merchandising and variety in menu planning, and customer food preferences. Includes laboratory experiences in quantity food preparation and service. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisites: CHEF 1205, HAMG 1321, RSTO 1204 and RSTO 1221.

Diesel Technology

www.odessa.edu/dept/auto

Faculty: Raymond Lewallen, director; Jerry Griffith, Perry Griffith

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. The diesel industry is so wide spread and fast growing that many excellent career opportunities are open to the person with proper qualifications. Completion of this program will offer students the opportunity to apply for an entry level technician position in any one of several service specialist options. The Diesel Technology program is industry aligned using National Automotive Technician Education (N.A.T.E.F) guidelines and will prepare a student to take the Automotive Service Excellence (ASE) certification exams for each related course of study.

Courses of Study for Associate in Applied Science Degree – Diesel Technology

Major Requirements			**33**
DEMR	1323	Heating, Ventilation, & Air Conditioning Repair	3
DEMR	1380	Cooperative Education	3
DEMR	1405	Basic Electrical Systems	4
DEMR	1406	Diesel Engine I	4
DEMR	2331	Advanced Brake Systems	3
DEMR	2432	Electronic Controls	4
DEMR	2434	Advanced Tune-up and Troubleshooting	4
DEMR	2412	Diesel Engine Testing & Repair II	4
DEMR	2438	Adv. Power Applications I	4
General Education Requirements			**15**
MATH	1333	Contemporary Mathematics II	3
ENGL	2311	Technical & Business Writing	3
HIST *(from OC Core)*			3
Social and Behavioral Sciences *(from OC Core)*			3
Language, Philosophy, & Culture OR Creative Arts *(from OC Core)*			3
Related Requirements			**4**
WLDG	1421	Introduction to Welding Fundamentals	4

In addition to the 52 hours listed above, the student must complete the major requirements for one of the following options: Industrial Diesel Option or Transportation Diesel Option.

*Industrial Option

			Semester Hrs.
DEMR	1416	Basic Hydraulics	4
DEMR	2435	Advanced Hydraulics	4

*Transportation Option

			Semester Hrs.
DEMR	1230	Steering and Suspension I	2
DEMR	1240	Steering and Suspension II	2
DEMR	2440	Adv. Power Applications II	4

Total Semester Hours **60**

Courses of Study for Certificates of Technology

Certificates of technology are available in the following job-specific fields.
Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Diesel Technician

			Semester Hrs.
DEMR	1323	Heating, Ventilation, & Air Conditioning Repair	3
DEMR	1405	Basic Electrical Systems	4
DEMR	1406	Diesel Engine I	4
DEMR	2331	Advanced Brake Systems	3
DEMR	2434	Advanced Tune-up and Troubleshooting	4
DEMR	2432	Electronic Controls	4
DEMR	2412	Diesel Engine Testing & Repair II	4
Total Semester Hours			**26**

Level II –Transportation Diesel Technician

The 33 hours specified in Level I Diesel Technician certificate plus the following courses:

			Semester Hrs.
DEMR	1230	Steering and Suspension I	2
DEMR	1240	Steering and Suspension II	2
DEMR	2438	Advanced Power Applications I	4
DEMR	1380	Cooperative Education	3
WLDG	1421	Intro to Welding Fundamentals	4
DEMR	2440	Adv. Power Applications II	4
Total Semester Hours			**45**

Level II – Industrial Diesel Specialist

The 33 hours specified in Level I Diesel Technician certificate plus the following courses:

			Semester Hrs.
DEMR	1380	Cooperative Education	3
DEMR	1416	Basic Hydraulics	4
DEMR	2438	Advanced Power Applications I	4
WLDG	1421	Intro to Welding Fundamentals	4
DEMR	2435	Advanced Hydraulics	4
Total Semester Hours			**45**

Diesel Technology Courses

DEMR 1230 Steering and Suspension I
(47.0605) (1-2) 2 hours
A study of design, function, maintenance, and repair of steering and suspension systems. Emphasis on troubleshooting and repair of failed components. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

DEMR 1240 Steering and Suspension II
(47.0605) (1-2) 2 hours
Extended applications of the mechanics and theory of design, function, maintenance, and repair of steering and suspension systems. Emphasis on troubleshooting and repair of failed components. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None. Corequisite: DEMR 1230.

DEMR 1313 Fuel Systems (47.0605) (2-2) 3 hours
In-depth coverage of fuel injector pumps and injection systems. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

DEMR 1323 Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair (47.0605) (2-2) 3 hours
Introduction to heating, ventilation, and air conditioning theory, testing, and repair. Emphasis on refrigerant reclamation, safety procedures, specialized tools, and repairs. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

DEMR 1380 Cooperative Education – Diesel Mechanics Technology/Technician
(47.0605) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1) Prerequisite: Consent of department chair.

DEMR 1405 Basic Electrical Systems
(47.0605) (2-4) 4 hours
Basic principles of electrical systems of diesel powered equipment with emphasis on starters, alternators, and batteries. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

DEMR 1406 Diesel Engine I
(47.0605) (2-4) 4 hours
An introduction to the basic principles of diesel engines and systems. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

DEMR 1416 Basic Hydraulics
(47.0605) (2-3) 4 hours
Fundamentals of hydraulics including components and related systems. Lab fee required. (ICOs 1) Prerequisite: None.

DEMR 2412 Diesel Engine Testing and Repair II
(47.0605) (2-4) 4 hours
Continuation of Diesel Engine Testing and Repair I. Coverage of testing and repairing diesel engines including related systems and specialized tools. Identify, inspect, evaluate, disassemble and reassemble engine parts. Lab fee required. (ICOs 1, 2, 5)Corequisite: DEMR 1406.

DEMR 2331 Advanced Brake Systems
(47.0605) (2-2) 3 hours
An advanced brake system course for diesel powered equipment. Advanced concepts and schematics including anti-lock (ABS), air, pneumatic, and hydraulic brake systems and related components. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

DEMR 2432 Electronic Controls
(47.0605) (2-4) 4 hours
Advanced skills in diagnostic and programming techniques of electronic control systems. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None. Corequisite: DEMR 1405 or AUMT 1407.

DEMR 2434 Advanced Diesel Tune-Up and Troubleshooting (47.0605) (2-4) 4 hours
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. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

DEMR 2435 Advanced Hydraulics
(47.0605) (2-3) 4 hours
Advanced study of hydraulic systems and components including diagnostics and testing of hydraulic systems. Lab fee required. (ICOs 1) Corequisite: DEMR 1416.

DEMR 2438 Advanced Power Applications I
(47.0605) (2-4) 4 hours
Advanced power train applications with emphasis on testing and evaluation of components.. Lab fee required. (ICOs 1, 2, 5) Prerequisite: None.

DEMR 2440 Advanced Power Applications II (47.0605) (2-4) 4 hours
Extended applications of power train with emphasis on testing and evaluation of components. Lab fee required. (ICOs 1, 2, 5)Corequisite: DEMR 2438.

Energy Technology

www.odessa.edu/dept/electrical

Faculty: Danny Bailey, chair; Thomas Cronick, Pete Barreraz

Skilled energy technology workers are in high demand in residential, commercial, and technical settings. Students who go through the Energy Technology program can gain employment, especially in the oil and gas industry. Students will be prepared to enter these high demand workforce areas with broad-based training in electrical, instrumentation, programmable logic controls, automation, and motor control.

Students in the Energy Technology program have the option of following a plan for an Associate in Applied Science degree (A.A.S.), a Level I and\or Level II certificate of Energy Technology. Certificates are designed to train students to be proficient in both electrical and instrumentation fields. It is possible for full-time students to complete a Level I certificate and a Level II certificate in one year.

Individuals already employed in the fields of instrumentation and electrical will increase or update their technical knowledge and skills by enrolling in specialized energy technology courses (NOTE: some courses have prerequisites).

Course of Study for Associate in Applied Science Degree – Instrumentation and Electrical Technology

			Semester Hrs
Major Requirements			**45**
CETT	1409	DC-AC Circuits	4
CETT	2381	Cooperative Education **OR**	
CETT	1391	Circuit Analysis	3
EEIR	1409	National Electrical Code	4
ELMT	2339	Advanced Programmable Logic	3
ELMT	2433	Industrial Electronics	4
ELPT	1455	Electronic Applications	4
ELPT	2419	Programmable Logic Controllers I	4
IEIR	1410	Motor Controls	4
INMT	1417	Industrial Automation	4
INTC	1356	Instrumentation Calibration	3
PTAC	1432	Process Instrumentation I	4
PTAC	2436	Process Instrumentation II	4
		Core Requirements	**15**
BCIS	1305	Business Computer Applications	3
Language, Philosophy, & Culture OR Creative Arts *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
Social/Behavioral Sciences *(from OC Core)*			3
Communication *(from OC Core)*			3
Total Semester Hours			**60**

Course of Study for Certificates of Technology - Energy Technology

Level I certificates are Texas Success Initiative (TSI) waived.

Level I I & E Tech

			Semester Hrs 16
CETT	1409	DC-AC Circuits	4
EEIR	1409	National Electrical Code	4
ELPT	1455	Electronic Applications	4
ELMT	2433	Industrial Electronics	4
ELPT	2419	Programmable Logic Controllers I	4
IEIR	1410	Motor Controls	4
PTAC	1432	Process Instrumentation I	4
PTAC	2436	Process Instrumentation II	4
Total Semester Hours			**32**

Level II Advanced I&E Tech

The 32 semester hours specified in the two Level I Certificates and the following courses.

Technical Core			**Semester Hrs**	**13**
CETT	2381	Cooperative Education **OR**		
	CETT	1391 Special Topics in Computer	3	
ELMT	2339	Advanced Programmable Logic	3	
INMT	1417	Industrial Automation	4	
INTC	1356	Instrumentation Calibration	3	
Total Semester Hours				**45**

Level I Wind Tech

			Semester Hrs	**29**
CETT	1409	DC-AC Circuits	4	
IEIR	1410	Motor Controls	4	
ELPT	2419	Programmable Logic Controllers I	4	
ELMT	1305	Basic Fluid Power	3	
ELMT	2433	Industrial Electronics	4	
ELPT	1455	Electronic Applications	4	
WIND	1300	Introduction to Wind Energy	3	
LEAD	2200	Corporate and Community Development with Critical Thinking	2	
POFT	1120	Job Search Skills	1	
Total Semester Hours				**29**

In addition to the courses in the Level I certificate, students who plan to transfer into an articulated program should also take the following block of courses.

General Education Requirements			**15**
Communication (*from OC Core)*			3
BCIS	1305	Business Computer Information	3
Language, Philosophy, & Culture OR Creative Arts *(from OC Core)*			3
Social and Behavior Science (*from OC Core*)			3
MATH	1333	Contemporary Mathematics II	3

Energy Technology Courses

CETT 1409 DC-AC Circuits
(15.1201) (3-3) 4 hours
Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. Labs include training in the use of various meters; including voltmeters, amp meters, ohm meters and oscilloscopes. Lab fee required. (ICOs 4) Prerequisite: None.

CETT 1391 Special Topics in Computer Engineering Technology/Technician
(15.1201) (3-0) 3 hours
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 was designed to be repeated multiple times to improve student proficiency. The course is designed to use computer software to design and analyze a wide variety of electrical circuits. Electrical analysis of circuits include; DC and AC, rectification, reactance, impedance, resonance, amplifiers, op amps, digital, and other basic and complex circuits. The course is a capstone course. (ICOs 4) Prerequisite: CETT 1409, ELPT 1455.

CETT 2381 Cooperative Education – Computer Engineering Technology/Technician
(15.1201) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning work experience. Includes a lecture component. (ICOs 2, 5, 6) Prerequisite: Consent of department chair.

EEIR 1409 National Electrical Code
(47.0101) (3-3) 4 hours
Interpretation of the National Electrical Code for residential, commercial and industrial wiring. Emphasis on designing, constructing, and troubleshooting electrical systems. The electrical lab will enable the student to choose the material, tools, equipment and procedures necessary to identify, construct and troubleshoot electrical circuitry. Lab fee required. (ICOs 6) Prerequisite: None.

ELMT 1305 Basic Fluid Power
(15.0403) (3-0) 3 hours
Basic fluid power course covering pneumatic and hydraulic systems, fluid power symbols, operating theory, components, and basic electrical and manual controls. (ICOs 1, 2, 3, 4) Prerequisite: None.

ELMT 2433 Industrial Electronics
(15.0403) (3-3) 4 hours
A study of devices, circuits, and systems primarily used in automated manufacturing and/or process control including computer controls and interfacing between mechanical, electrical, electronic, and computer equipment. Includes presentation of programming schemes. Lab fee required. (ICOs 4) Prerequisite: None.

ELMT 2339 Advanced Programmable Logic Controllers
(15.0403) (2-2) 3 hours
Advanced applications of programmable logic controllers as used in industrial environments including concepts of programming, industrial applications, troubleshooting ladder logic, and interfacing to equipment. Lab fee required. (ICOs 4) Prerequisite: ELPT 2419.

ELPT 1455 Electronic Application
(46.0301) (3-3) 4 hours
Electronic principles and the use of electronic devices. Includes diodes, transistors, and retifiers. Includes basic electronic principles; build and operate electronic circuits using semi-conductor devices; test electronic circuits using oscilloscopes and other test instruments, describe the operation of diodes, transistors, diacs, triacs, Silicon Controlled Rectifiers (SCRs), and other electronic devices. (ICOs 4) Prerequisite: None.

ELPT 2419 Programmable Logic Controllers I (46.0301) (3-3) 4 hours
Fundamental concepts of programmable logic controllers, principles of operation, numbering systems, logic gates, and Boolean expressions as applied to electrical controls. Lab fee required. (ICOs 4) Prerequisite: IEIR 1410.

IEIR 1410 Motor Controls
(47.0105) (3-3) 4 hours
General principles and fundamentals of electrical controls and control components including starters, troubleshooting techniques, various protective devices, schematics, and diagrams. Lab fee required. (ICOs 4) Prerequisite: None.

INTC 1356 Instrumentation Calibration
(15.0404) (3-0) 3 hours
Techniques for configuring and calibrating transmitters, controllers, recorders, valves, and valve positioners. (ICOs 2) Prerequisite: None.

INMT 1417 Industrial Automation
(15.0613) (3-3) 4 hours
Applications of industrial automation systems including identification of system requirements, equipment integration, motors, controllers, and sensors. Coverage of set-up, maintenance, and testing of the automated system. (ICOs 4) Prerequisite: ELMT 2339.

LEAD 2200 Corporate and Community Development with Critical Thinking
(52.0201) (1-2) 2 hours
Development of corporate and community leadership skills that incorporate critical thinking strategies. Includes data and informative decision making, group and team processes, strategic and action planning, and processes for monitoring progress. (ICOs 1, 2, 4) Prerequisite: None.

POFT 1120 Job Search Skills
(52.0401) (1-0) 1 hour
Skills to seek and obtain employment in business and industry. (ICOs 1, 2, 5, 6) Prerequisite: None.

PTAC 1432 Process Instrumentation I
(41.0301) (3-3) 4 hours
Study of the instruments and control systems used in the process industry including terminology, process variables, symbology, control loops, and basic troubleshooting. Lab fee required. (ICOs 4) Prerequisite: None.

PTAC 2436 Process Instrumentation II
(41.0301) (3-3) 4 hours
Continued study of the instruments and control systems used in the process industries including terminology, process variables, symbology, control loops, and troubleshooting. Lab fee required. (ICOs 4) Prerequisite: PTAC 1432.

WIND 1300 Introduction to Wind Energy
(15.0403) (3-0) 3 hours
Introduction of wind technology, wind farm design, and wind power delivery. (ICOs 1, 2, 3, 4) Prerequisite: None.

Emergency Medical Services Professional

www.odessa.edu/dept/ems

Faculty: Bobby Valles, director Fire/EMS; Oscar Menchaca, EMS clinical coordinator; Misty Long, EMS instructor; Mitchel Healer, EMS instructor; Jeff Pinnow, medical director

The Emergency Medical Services Professional program prepares students for careers in paramedicine, a fast-paced and challenging health care field. Emergency Medical Technicians and Paramedics provide immediate, life-saving care to the sick and injured. Entry-level First Responders (EMT-Basic) are trained to provide basic emergency medical care because they tend to be the first persons to arrive at the scene of an incident. Many firefighters, police officers, and other emergency workers have this level of training. An EMT-Basic is trained to care for patients at the scene of an accident and while transporting patients by ambulance to the hospital under medical direction. The EMT-Paramedic has more advanced training and assessment skills that allows the administration of intravenous fluids, interpreting electrocardiograms and giving lifesaving shocks to a stopped heart, as well as performing advanced airway techniques and using equipment to assist patients experiencing respiratory emergencies.

Odessa College offers two levels of EMT training: Basic and Paramedic. The Odessa College Emergency Medical Services Professional Program grants two levels of awards: a level one certificate in Emergency Medical Services Professional – Paramedic and an Associate's Degree in Applied Science in Emergency Medical Services Professional. All courses in the level one certificate apply to the associate's degree. Depending upon individual circumstances, students may be required to repeat courses or complete competency exams prior to acceptance into the program they stop-out after completing an award or are transferring from another institution.

The program combines classroom and/or online instruction with supervised laboratory, clinical/practicum, and ambulance experiences to prepare the graduate for certification. EMT classes are exciting and challenging courses. Students are expected to spend a large amount of time outside of class studying and applying the material that is presented in class.

With department approval, students can take EMT-Basic classes even if unsure of future plans to continue with paramedic level training. Although students do not earn an Odessa College certificate at this level, successful completers can become certified through the credentialing agency. Skills include: CPR, bandaging and splinting, traction splints, mechanical aids to breathing (oxygen, bag-mask, suctioning, oral and nasal airways, and pocket masks), patient assessment, vital signs, spinal immobilization, automated external defibrillation, pneumatic anti-shock garment, epinephrine auto-injector, and nebulizer bronchodilators. Certification requirements: Minimum age 18; high school diploma or GED; EMT-Basic skills proficiency verification by training program; state-administered National Registry certification exam; and submission of EMS Personnel Certification Application and fee.

With department approval and certification as a DSHS EMT-Basic provider, students can continue with paramedic level training. Odessa College includes intermediate and advanced skills in the paramedic curriculum. Skills include: EMT-Intermediate skills, medication administration, EKG interpretation, cardioversion, and cardiac arrest simulation (megacode). Certification requirements: Minimum age 18; high school diploma or GED; DSHS EMT-Basic, Intermediate and Paramedic skills proficiency verification by training program medical director; and written and practical exam administered by National Registry. A licensed paramedic has an associate's degree (or higher) and tests on the same skills for EMT-Paramedic.

Once a student successfully completes requirements for the National Registry, he or she may become certified by the Texas Department of State Health Services EMS Division. Both levels of certification require periodic and specific recertification hours and activities to continue to practice as an emergency medical technician.

Students considering registering for emergency medical services professional (EMSP) courses must have approval from the EMS department before enrolling. Enrollment in paramedic level EMSP courses is limited, and students are urged to contact the department early to ensure acceptance to the program. Applicants, or those seeking additional information, should contact the EMS department or a Student Success Coach in the Help Center. The student must purchase required equipment and supplies in order to participate in laboratory and clinical/practicum training. To obtain a list of the necessary equipment, the student should contact the department director or one of the faculty members before enrolling in the class.

Students enrolled in any EMSP practicum or clinical course are required to have liability insurance as well as health and accident insurance each semester. Liability insurance is included in course fees. If the student does not have a health and accident policy, student health insurance can be purchased. Students must have a health check-up and pass a background check and a drug screen to participate in the EMS program. All immunizations must be on file in the EMS department, in compliance with state regulations, before the student can participate in clinical or practicum courses.

The admissions process for the EMT-Basic Program is competitive and applicants must meet all minimum criteria in order to be eligible for ranking. Ranking points are obtained from the most recent Test of Essential Academic Skills (TEAS) V (AH-Category G) or Texas Success Initiative Assessment (TSIA) is an option and an interview using Job Fit. Official TEAS V test scores are valid for five (5) years and only the most recent test score will be used. Official TSI assessment scores are valid for five (5) years and only the most recent test score will be used.

EMT-Basic Program applicants are required to complete the Test of Essential Academic Skills (TEAS) V (AH-Category G) or Texas Success Initiative Assessment (TSIA) during the application/ranking process. Students who have not completed this requirement during the initial application deadline will be placed on a waiting list pending proof of completion and students are responsible for updating information with the program. Incomplete applications will not be ranked until all general requirements are met.

Deadlines for Completing Specialized Admissions Requirements

Initial application period is ***October 1st until October 30th*** for the following Spring semester and ***May 1st until May 30th*** for the following Fall semester. A second application period will be conducted in January prior to the start of the Spring semester for incomplete applications submitted after October 30th. A second application period will be conducted in July prior to the start of the Fall semester for incomplete applications submitted after May 30th.

The admissions process for the EMSP-Paramedic Program is competitive and applicants must meet all minimum criteria in order to be eligible for ranking. Ranking points are obtained from the most recent Prerequisite/General Education Courses, Texas Success Initiative Assessment (TSIA) or Test of Essential Academic Skills (TEAS) V (AH-Category L) is an option, GPA (4.0 scale) and an interview using Job Fit. Official TSI assessment scores are valid for five (5) years and only the most recent test score will be used. Official TEAS V test scores are valid for five (5) years and only the most recent test score will be used.

EMSP-Paramedic Program applicants are required to have successfully completed the following prerequisite courses listed on an official transcript from an approved higher education institution or other military institution prior to starting the application/ranking process. Students who have not completed these requirements during the initial application deadline will be placed on a waiting list pending proof of completion and students are responsible for updating information with the program. Incomplete applications will not be ranked until all Prerequisites Requirements are met. The department director must approve course substitutions.

The Odessa College Emergency Medical Services Professional (EMSP) program does not offer advanced placement or credits for experiential learning, however students can transfer credit to Odessa College though the process listed in the current Odessa College academic catalog.

Deadlines for Completing Specialized Admissions Requirements

Initial application period is ***October 1st until October 30th*** for the following Spring semester. A second application period will be conducted in January prior to the start of the Spring semester for incomplete applications submitted after October 30th.

Completed Program Specific materials should be brought in person during the Application acceptance time period to:

Odessa College Fire/EMS Department Secretary
2460 Kermit Hwy
Odessa, TX 79764
Fire Technology Training Center, Room 102
432-335-6841

Emergency Medical Services Professional Course of Study for Certificate of Completion

Level I certificates are Texas Success Initiative (TSI) waived.

PREREQUISITE			Semester Hrs
EMSP	1160	Clinical – Emergency Medical Technology/Technician	1
EMSP	1501	Emergency Medical Technician – Basic	5
BIOL	2404	Human Anatomy & Physiology	4
HPRS	1106	Essentials of Medical Terminology I	1
Total Semester Hours			**11**

Current Texas certification as an Emergency Medical Technician – Basic (EMT-B) is required in order to progress to paramedic level courses.

Level I Certificate – Paramedic

The 1 hours specified in prerequisites plus the following courses:

			Semester Hrs
EMSP	1164	Paramedic Practicum I	1
EMSP	1165	Paramedic Practicum II	1
EMSP	1338	Introduction to Advanced Practice	3
EMSP	1355	Trauma Management	3
EMSP	1356	Patient Assessment & Airway Mgmt.	3
EMSP	2164	Paramedic Practicum III	1
EMSP	2238	EMS Operations	2
EMSP	2243	Assessment Based Management	2
EMSP	2348	Pharmacology	3
EMSP	2430	Special Populations	4
EMSP	2434	Medical Emergencies	4
EMSP	2444	Cardiology	4
Total Semester Hours			**42**

CLASS BEGINNING SPRING SEMESTER

EMSP	1356	Patient Assessment and Airway Management	3
EMSP	1338	Introduction to Advanced Practice	3
EMSP	1164	Paramedic Practicum I	1
EMSP	2348	Emergency Pharmacology	3
Total Semester Hours			**10**

WHOLE SUMMER

EMSP	1165	Paramedic Practicum II	1
EMSP	2434	Medical Emergencies	4
EMSP	1355	Trauma Management	3
EMSP	2238	EMS Operations	2
Total Summer Hours			**10**

FALL SEMESTER

EMSP	2243	Assessment Based Management	2
EMSP	2430	Special Populations	4
EMSP	2164	Paramedic Practicum III	1
EMSP	2444	Cardiology	4
Total Semester Hours			**11**
Certificate Total Hours			**42**

Associate of Applied Science Degree Emergency Medical Services Professional

The degree plan for the AAS combines all courses for the Level I Certificate and the following general education course requirements:

General Education Requirements

			Semester Hrs 18
BCIS	1305	Business Computer Applications	3
ENGL	1301	Composition I **OR**	
ENGL	2311	Technical & Business Writing	3
PSYC *(from OC Core)*			3
Government *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
Language, Philosophy, & Culture OR Creative Arts *(from OC Core)*			3
Total Semester Hours			**60**

Emergency Medical Services Professional Courses

EMSP 1160 Clinical – Emergency Medical Technology/Technician
(51.0904) (0-5) 1 hour
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. (ICO 6) Prerequisites: Consent of department director. Corequisites: EMSP 1501.

EMSP 1164 Paramedic Practicum I
(51.0904) (0-9) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICO 6) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 1165 Paramedic Practicum II
(51.0904) (0-9) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICO 6) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 1338 Introduction to Advanced Practice (51.0904) (2-2) 3 hours
Fundamental elements associated with emergency medical services to include preparatory practices, pathophysiology, medication administration, and related topics. Lab fee required. (ICO 5) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 1355 Trauma Management
(51.0904) (2-2) 3 hours
Knowledge and skills in the assessment and management of patients with traumatic injuries. Lab fee required. (ICO 1) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 1356 Patient Assessment and Airway Management
(51.0904) (2-2) 3 hours
Knowledge and skills required to perform patient assessment, airway management, and artificial ventilation. Lab fee required. (ICO 1) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 1501 Emergency Medical Technician – Basic
(51.0904) (3-7) 5 hours
Preparation for certification as an Emergency Medical Technician (EMT).Lab fee required. (ICO 1) Prerequisites: Consent of department director. Corequisites: EMSP 1160

EMSP 2164 Paramedic Practicum III
(51.0904) (0-7) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICO 6) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 2238 EMS Operations
(51.0904) (1-2) 2 hours
Knowledge and skills to safely manage multi-casualty incidents and rescue situations; utilize air medical resources; identify hazardous materials and other specialized incidents. (ICO 4) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 2243 Assessment Based Management (51.0904) (1-3) 2 hours
A capstone experience covering comprehensive, assessment based patient care management. Includes specific care when dealing with pediatric, adult, geriatric, and special-needs patients. (ICO 1) Prerequisites: Consent of department. Corequisite: as sequenced by semester of entry.

EMSP 2348 Emergency Pharmacology
(51.0904) (3-1) 3 hours
Utilization of medications in treating emergency situations. (ICO 2) Prerequisite: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 2430 Special Populations
(51.0904) (3-3) 4 hours
Knowledge and skills necessary to assess and manage ill or injured patients in diverse populations to include neonatology, geriatrics, and other related topics. (ICO 1) Prerequisite: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 2434 Medical Emergencies
(51.0904) (3-4) 4 hours
Knowledge and skills in the assessment and management of patients with medical emergencies, includes medical overview, neurology, gastroenterology, immunology, pulmonology, urology, hematology, endocrinology, toxicology, and other related topics. Lab fee required. (ICO 3) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

EMSP 2444 Cardiology
(51.0904) (3-2) 4 hours
Assessment and management of patients with cardiac emergencies. Includes single and multi-lead ECG interpretation. Lab fee required. (ICO 1) Prerequisites: Consent of department director. Corequisite: as sequenced by semester of entry.

Engineering

www.odessa.edu/dept/engineering

Faculty: Dr. Krista Cohlmia, chair; Dr. Lee Estep

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 Associate in Science Degree – Engineering (Field of Study)

			Semester Hrs
General Education Requirements			**34**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
HIST	(*from OC Core*)		3
HIST	(*from OC Core*)		3
MATH	2413	Calculus I	4
PHYS	2425	University Physics I	4
CHEM 1311/111 General Chemistry			4
Create Arts or Social and Behavioral Sciences **OR**			
Language, Philosophy and Culture			3
Component Area			1
Major Requirements			**26**
ENGR	1201	Introduction to Engineering	2
ENGR	2301	Engineering Mechanics I	3
ENGR	2302	Engineering Mechanics II	3
MATH	2414	Calculus II	4
MATH	2415	Calculus III	4
MATH	2318	Linear Algebra	3
MATH	2320	Differential Equations	3
PHYS	2426	University Physics II	4
Total Semester Hours			**60**

Engineering Courses

ENGR 1201 Introduction to Engineering (14.0101.5110) (2-0) 2 hours
An introduction to the engineering profession with emphasis on technical communication and team-based engineering design. One hour of lecture and three hours of laboratory each week. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: MATH 1314.

ENGR 1304 Engineering Graphics I
(15.1301.5111) (2-4) 3 hours
Introduction to computer-aided drafting using CAD software and sketching to generate two- and three-dimensional drawings based on the conventions of engineering graphical communication; topics include spatial relationships, multi-view projections and sectioning, dimensioning, graphical presentation of data, and fundamentals of computer graphics. Lab fee required. (ICOs 1, 3) Prerequisite: MATH 1314.

ENGR 2301 Engineering Mechanics - Statics
(14.1101.5210) (3-0) 3 hours
A basic mechanics course utilizing vectors. Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. Lab fee required. (ICOs 1, 3) Prerequisite: PHYS 2425.

ENGR 2302 Engineering Mechanics - Dynamics
(14.1101.5310) (3-0) 3 hours
Basic theory of engineering mechanics, using calculus, involving the motion of particles, rigid bodies, and systems of particles; Newton's Laws; work and energy relationships; principles of impulse and momentum; application of kinetics and kinematics to the solution of engineering problems. Lab fee required. (ICOs 1, 3) Prerequisite: ENGR 2301.

Languages and World Cultures

www.odessa.edu/dept/english

Faculty: Frances Crawford chair; Ashley Arroyo, Dr. B. Forsyth, Christy Henegar, Dr. Mark Jordan, Heather McCourt, Dr. Catrina Moody, Claudia Philpott, Dr. Donna Smith, Melissa Wells, Dr. Michael White

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 TSIA and other state-approved alternate tests 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. Students can receive English tutoring in the Student Success Center (SSC) located on the first floor of the Learning Resources Center (LRC). Students can receive tutoring on a walk-in basis, or they can call 432-335-6878 or 432-335-6673 to arrange an appointment. OC students can also use the computers in the SSC free of charge.

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.

Departmental Placement and Success Requirements – English/Writing		
Any student whose test scores on the state-mandated Texas Success Initiative Assessment (TSIA) do not demonstrate college readiness in English/Writing will be advised by a college counselor or assigned advisor as to the appropriate developmental course sequence the student will need to complete. Please note that unlike in years past, one sequence may involve INRW, a state-mandated combined reading and writing course which is offered by the Reading Department. So depending on TSIA test scores in writing and reading, the student may be advised into various developmental options. Please see the following table. For detailed descriptions of INRW and other courses offered by the Reading Department, please see that department's section in this catalog.		
TEST	**SCORE**	**COURSE**
TSIA	TSIA essay score below 4: INRW 0373 . A grade of "C" or better in this course will prepare a student for INRW 0375.	INRW 0373
	TSIA essay score of 4 AND multiple choice score of 0 to 362: NCBW (Non-Course-Based Writing) which is done in conjunction with ENGL 1301	NCBW
	TSIA essay score of 5 OR essay score of 4 and multiple choice score of 363 or better: ENGL 1301.	ENGL 1301
	INRW 0373 passed with a "C" or better and a TSIA essay score of 3: INRW.	INRW
	TSIA reading score between 342-346 and INRW 0375 passed with a "C" or better: INRW.	INRW
	TSIA reading score between 342-346 and TSIA essay score of 3: INRW.	INRW
	TSIA reading score between 342-346 and a TSIA essay score of 4 but TSIA writing multiple choice score of less than 363: INRW.	INRW
	INRW 0373 passed with a "C" or better and IRNW 0375 passed with a "C" or better: INRW.	INRW

Course of Study for Associate in Arts Degree – English Major

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2311	Mexican-American Politics	3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
Life and Physical Science *(from OC Core)*			8
Mathematics *(from OC Core)*			3
Language, Philosophy, and Culture *(from OC Core)*			3
Social/Behavioral Science *(from OC Core)*			3
Creative Arts *(from OC Core)*			3
Component Area Option A			3
Component Area Option B			1
Major Requirements			**15**
ENGL	2321	British Literature	3
ENGL	2326	American Literature	3
ENGL	2331	World Literature	3
ENGL	2341	Forms of Literature	3
ENGL	2351	Mexican-American Literature	3
Humanities elective			3
Total Semester Hours			**60**

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

* Students should check math requirement of designated senior institution.

Foreign Language (Spanish)

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.

The foreign language program at Odessa College can satisfy the needs of most students whose prospective major requires a Spanish component or whose prospective major would be complemented by knowledge of a foreign language, particularly Spanish. Students should consult carefully the catalog of the senior college or university they plan to attend.

In the classroom, concentration is on the immediate and practical. The courses involve developing vocabulary, acquiring knowledge of grammatical structures, and gaining cultural awareness. There is an emphasis on and ample opportunity for students to practice speaking, reading, and writing the language.

Course of Study for Associate in Arts Degree – Foreign Language (Spanish) Major

			Semester Hrs
General Education Requirements			**46-47**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2311	Mexican-American Politics	3
GOVT	(approved course)		3
HIST	2327	Mexican-American History I	3
HIST	2328	Mexican-American History II	3
SPAN	1300	Beginning Spanish Conversation	3
Communication *(from OC Core)*			3
Computer *(from OC Core)*			3-4
Language Philosophy, and Culture *(from OC Core)*			3
Mathematics *(from OC Core)*			3
Life and Physical Science *(from OC Core)*			8
Social/Behavioral Science *(from OC Core)*			3
Creative Arts *(from OC Core)*			3
Component Area Option			1
Major Requirements			**18**
SPAN	1311	Beginning Spanish I	3
SPAN	1312	Beginning Spanish II	3
SPAN	2311	Intermediate Spanish I **OR**	
SPAN	2313	Spanish for Native Heritage Speakers I	3
SPAN	2313	Intermediate Spanish II **OR**	
SPAN	2315	Spanish for Native Heritage Speakers II	3
HUMA	1305	Introduction to Mexican-American Studies	3
HUMA	2319	American Minority Studies **OR**	
HUMA	2323	World Cultures	3
Total Semester Hours			**60**

English Courses

ENGL 0100 College Writing Refresher (32.0108.5312) (1-0) 1 hour
This course helps students to develop fundamental writing skills including the utilization of standard English. Credit for this course is probably not transferable. The course does not satisfy requirements for any degree plan at Odessa College. Prerequisite: None.

ENGL 0171 Sentence Structure
(32.0108.5312) (0-1) 1 hour
This course is a compensatory lab course which is designed to help students improve fundamental writing and critical thinking skills. The course teaches using the writing process along with techniques to create concise and effective sentence structures, focused paragraphs, and coherent, grammatically correct essays. ENGL 0171 prepares students for the TSIA examination and for INRW 0373, INRW 0375 and ENGL 1301. Credit for this course is probably not transferable. The course does not satisfy requirements for any degree plan at Odessa College. Prerequisite: None.

ENGL 1301 Composition I
(23.1301.5112) (3-0) 3 hours
Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Lab fee may be required (word processing). (COs 1, 2, 4, 6). Prerequisite: INRW passed with a "C" or better **OR** a satisfactory placement score.

ENGL 1302 Composition II
(23.1301.5112) (3-0) 3 hours
Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab fee may be required (word processing). (COs 1, 2, 4, 6). Prerequisite: "C" or better in ENGL 1301.

ENGL 2307 Creative Writing I
(23.1302.5112) (3-0) 3 hours
Practical experience in the techniques of imaginative writing. May include fiction, nonfiction, poetry, screenwriting, or drama. This course may be repeated for credit. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: "C" or better in ENGL 1302 or consent of the instructor.

ENGL 2311 Technical and Business Writing (23.1303.5112) (3-0) 3 hours
Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents. Lab fee may be required (word processing). (COs 1, 2, 4, 6). Prerequisite: None. *Note: Certain sections of this course are contextualized for CTWE students seeking the AAS degree, and require approval from an advisor for registration. These sections are identified as such in the schedule of classes.*

ENGL 2321 British Literature
(23.1404.5112) (3-0) 3 hours
This course entails a survey of the development of British literature from the Anglo-Saxon period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural context. Texts will be selected from a diverse group of authors and traditions. (ICOs 1, 2, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2322 British Literature I
(23.1404.5112) (3-0) 3 hours
ENGL 2322 focuses on reading and thinking critically about significant works of British literature from the Old English period through the Neoclassical period. In ENGL 2322, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2323 British Literature II
(23.1404.5112) (3-0) 3 hours
ENGL 2323 focuses on reading and thinking critically about significant works of British literature from the Romantic period to the present day. In ENGL 2323, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6,) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2326 American Literature
(23.1402.5112) (3-0) 3 hours
This course entails a survey of the development of American literature from the Colonial period to the present. Students will study works of prose, poetry, drama, fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. (ICOs 1, 2, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2327 American Literature I
(23.1402.5112) (3-0) 3 hours
ENGL 2327 focuses on reading and thinking critically about significant works of American literature from the Colonial period through the Romantic period. In ENGL 2327, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2328 American Literature II
(23.1402.5112) (3-0) 3 hours
ENGL 2328 focuses on reading and thinking critically about significant works of American literature from the Realistic period to the present day. In ENGL 2328, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2331 World Literature
(16.0104.5213) (3-0) 3 hours
This course entails a survey of world literature from the ancient world to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. (ICOs 1, 2, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2332 World Literature I
(16.0104.5213) (3-0) 3 hours
ENGL 2332 focuses on reading and thinking critically about significant works of literature of the western world from the Classical period through the Renaissance. In ENGL 2332, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2333 World Literature II
(16.0104.5213) (3-0) 3 hours
ENGL 2333 focuses on reading and thinking critically about significant works of literature of the western world from the Neoclassical period to the present day. In ENGL 2333, students will use analytical techniques to develop written interpretations of assigned literary works. Requirements include reading assignments, analytical papers, a final exam, and other assignments as determined by the instructor. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2341 Forms of Literature
(16.0104.5113) (3-0) 3 hours
This course is a study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Texts will be selected from a diverse group of authors and traditions. (ICOs 1, 2, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

ENGL 2351 Mexican-American Literature
(05.0203.5525) (3-0) 3 hours
This course entails a survey of Mexican-American/Chicano literature including fiction, non-fiction, poetry, and drama. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. (ICOs 1, 2, 5, 6) Prerequisites: "C" or better in ENGL 1301 and ENGL 1302.

Humanities Courses

HUMA 1301 Introduction to Humanities I
(24.0103.51 12) (3-0) 3 hours
This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. (ICOs 1, 2, 5, 6). Prerequisites: None.

HUMA 1302 Introduction to Humanities II
(24.0103.51 12) (3-0) 3 hours
This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. (ICOs 1, 2, 5, 6). Prerequisites: None.

HUMA 1305 Introduction to Mexican-American Studies
(24.0203.51 25) (3-0) 3 hours
This interdisciplinary survey examines the different cultural, artistic, economic, historical, political, and social aspects of the Mexican-American/Chicano/a communities. It also covers issues such as dispossession, immigration, transnationalism, and other topics that have shaped the Mexican-American experience. (ICOs 1, 2, 5, 6). Prerequisites: None.

HUMA 2319 American Minority Studies
(24.0101.51 12) (3-0) 3 hours
This interdisciplinary survey examines the diverse cultural, artistic, economic, historical, political, and social aspects of American minority communities. Topics may include race/ethnicity, gender, socioeconomic class, sexual orientation, national origin, age, disability, and religion. (ICOs 1, 2, 5, 6). Prerequisites: None.

HUMA 2323 World Cultures
(24.0103.53 12) (3-0) 3 hours
This course is a general study of diverse world cultures. Topics include cultural practices, social structures, religions, arts, and languages.(ICOs 1, 2, 5, 6). Prerequisites: None.

Remedial/Developmental Courses

INRW 0373 Basic Integrated Reading and Writing
(32.0108.5912) (3-0) 3 hours
This course integrates critical reading and academic writing skills. The course fulfills TSI requirements for reading and/or writing. Students in the course will learn basic sentence and paragraph structure. They will also work on basic reading comprehension skills such as vocabulary, main idea, supporting details, patterns of organization, and inference. (ICOs 1, 2, 4, 6). Prerequisites: None.

INRW 0375 Advanced Reading and Writing
(32.0108.5912) (3-0) 3 hours
This course integrates critical reading and academic writing skills. The course fulfills TSI requirements for reading and/or writing. (ICOs 1, 2, 4, 6)

NCBE 0001 NCBE Writing Intervention
(32.0108.6312) (3-0) 3 hours
A 16-week, non-course competency based option to help students develop college-level writing skills, focusing on strategies and techniques of writing and composition. This NCBO is designed to be paired with an ENGL 1301 course.

NCBE 0002 NCBE Writing Intervention
(32.0108.6312) (3-0) 3 hours
A 14-week, non-course competency based option to help students develop college-level writing skills, focusing on strategies and techniques of writing and composition. This NCBO is designed to be paired with an ENGL 1301 course.

NCBE 0003 NCBR Reading and Vocabulary
(32.0108.6512) (3-0) 3 hours
A non-course competency based option to help develop reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society. This NCBO is designed to be paired with a college level course. Students will meet weekly with an ESOL instructor for ESOL instruction that supports the college level reading assignments.(ICOs 1, 2, 4, 6)

NCBE 0011 NCBE Oral Comm. Intervention
(32.0108.6412) (3-0) 3 hours
A 16-week, non-course competency based option to help develop listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. This NCBO is designed to be paired with a college level Speech course.

NCBE 0012 NCBE Oral Comm. Intervention
(32.0108.6412) (3-0) 3 hours
A 14-week, non-course competency based option to help develop listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. This NCBO is designed to be paired with a college level Speech course.

NCBE 0021 NCBR Reading and Vocabulary
(32.0108.6512) (3-0) 3 hours
A 16-week, non-course competency based option to help develop reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society. This NCBO is designed to be paired with a college level course.

NCBE 0022 NCBE Reading and Vocabulary Intervention
(32.0108.6512) (3-0) 3 hours
A 14-week, non-course competency based option to help develop reading proficiency and vocabulary for academic, career, or personal purposes in speakers of languages other than English and prepares them to function in a multicultural, multilingual society. This NCBO is designed to be paired with a college level course.

NCBR 0005 Non Course Based Reading
(32.0108.6112) (3-0) 3 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in one or two of ten areas on a pre-test.

NCBW 0001 Non-Course Based Writing
(32.0108) (3-0) 3 hours
A non-course competency based option to help students develop college-level writing focusing on idea generation, drafting, organization, revision, and utilization of standard English. This course is designed for students who have fulfilled TSI reading requirements and who scored a 4 on the essay portion the TSI writing test. A student must attain a "P" in order to move into ENGL 1301. (ICOs 1, 2, 4, 6)

Computer Skills

Students who enroll in any English course and who lack keyboarding skills should also enroll in Beginning Keyboarding.

Spanish Courses

SPAN 1300 Beginning Spanish Conversation I (16.0905.54 13) (3-0) 3 hours
SPAN 1300 focuses on engaging in everyday conversation in Spanish in ordinary social contexts. This course emphasizes learning basic Spanish vocabulary, sound sentence structure, idiomatic expressions, and daily speech. (ICOs 1, 2, 5, 6) Prerequisite: None

SPAN 1310 Beginning Spanish Conversation II
(16.0905.5413) (3-0) 3 hours
SPAN 1310 is a continuation of SPAN 1300 and focuses on engaging in everyday conversation in Spanish in ordinary social contexts. This course continues to emphasize learning Spanish vocabulary, sound sentence structure, idiomatic expressions, and daily speech. (ICOs 1, 2, 5, 6) Prerequisite: SPAN 1300, its equivalent, or consent of the instructor.

SPAN 1311 Beginning Spanish I
(16.0905.51 13) (3-0) 3 hours
This course emphasizes acquiring basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students will acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the beginner level. (ICOs 1, 2, 5, 6) Prerequisite: None.

SPAN 1312 Beginning Spanish II
(16.0905.51 13) (3-0) 3 hours
This course continues the development of basic Spanish language skills in listening, speaking, reading, and writing within a cultural framework. Students acquire the vocabulary and grammatical structures necessary to communicate and comprehend at the high beginner to low intermediate level. (ICOs 1, 2, 5, 6) Prerequisite: "C" or better in SPAN 1311 or its equivalent.

SPAN 2311 Intermediate Spanish I
(16.0905.5213) (3-0) 3 hours
SPAN 2311 is a continuation of SPAN 1311 or 1411 and SPAN 1312 and 1412. Students will continue to expand their Spanish vocabulary while reviewing, developing, and applying skills in listening comprehension, conversation, writing, and reading. This course emphasizes conversation and composition based on reading assignments and cultural exploration. (ICOs 1, 2, 5, 6) Prerequisite: SPAN 1311 or 1411 and 1312 or 1412, or their equivalents (ICOs 1, 2, 5, 6) Prerequisite: "C" or better in SPAN 1311 and 1312 or their equivalents, or consent of the instructor.

SPAN 2312 Intermediate Spanish II
(16.0905.5213) (3-0) 3 hours
SPAN 2312 is a continuation of SPAN 2311. Students will continue to expand their Spanish vocabulary while reviewing, developing, and applying skills in listening comprehension, conversation, writing, and reading. This course emphasizes conversation and composition based on more advanced reading assignments and cultural exploration. (ICOs 1, 2, 5, 6) Prerequisite: "C" or better in SPAN 2311 or its equivalent.

SPAN 2313 Spanish for Native Heritage Speakers I
(16.0905.5213) (3-0) 3 hours
SPAN 2313 focuses on reading, composition, and usage for students whose native language is Spanish. This course emphasizes learning and applying the structure of the language, reading and analyzing Spanish writing, and studying Spanish culture. SPAN 2313 is designed for students with oral proficiency in Spanish. (ICOs 1, 2, 5, 6) Prerequisite: None.

SPAN 2315 Spanish for Native Heritage Speakers II
(16.0905.5213) (3-0) 3 hours
SPAN 2315 is a continuation of SPAN 2313 in terms of focusing on reading, composition, and usage for students whose native language is Spanish. This course emphasizes learning and applying more advanced structures of the language, reading and analyzing more advanced Spanish writing, and studying Spanish culture. SPAN 2315 is designed for students with oral proficiency in Spanish. (ICOs 1, 2, 5, 6) Prerequisite: "C" or better in SPAN 2313 or consent of the instructor.

SPAN 2321 Introduction to Spanish Literature
(16.0905.5313) (3-0) 3 hours
Conducted in Spanish, a survey course in Spanish and Latin American literature and culture. Includes reading of short prose and poetry selections for students new to Spanish literature. Includes conversation, writing and grammar review. (ICOs 1, 2, 4, 5, 6) Prerequisite: SPAN 2312, its equivalent or consent of the instructor.

English for Speakers of Other Languages

Faculty: Frances Crawford, Director
English for Speakers of Other Languages (ESOL) is a program designed to help non-native speakers strengthen their English language skills before they embark in their college courses.
ESOL students

- ARE NOT tested and placed into ESOL
- Self-Select to take ESOL courses
- May be advised to take ESOL courses
- May test into developmental level courses because they need to develop their English vocabulary
- Should take all of the ESOL courses before they take developmental level courses

ESOL Courses

ESOL 0370 Oral Communication
(32.0108.55 12) (3-0)
Develops listening and speaking skills in speakers of languages other than English and prepares them to function in educational, vocational and/or personal English-speaking contexts. Focuses on academic English to prepare students for entry into college level courses.

ESOL 0372 Reading and Vocabulary
(32.0108.55 12) (3-0)
Develops reading fluency and vocabulary in speakers of languages other than English and prepares them to function in an English-speaking society. Focuses on academic English to prepare students for entry into college level courses. Lab fee required. Prerequisite: None.

ESOL 0375 Writing and Grammar
(32.0108.55 12) (3-0)
Develops writing skills, including standard English usage, organization of ideas, and application of grammar, in speakers of languages other than English and sprepares them to function in an English-speaking society. Focuses on academic English to prepare students for entry into college level courses. Lab fee required. Prerequisite: None.

Fire Technology

www.odessa.edu/dept/fire

Faculty: Bobby Valles, director Fire/EMS; Quentin Dobmeier, instructor, Fire/EMS

The fire technology program at Odessa College offers students the opportunity to be trained for careers in the fire service profession. The program is designed to meet the needs of students desiring to become entry-level certified firefighters through the Certificate of Completion – Fire Academy curriculum. Firefighters who are currently certified can advance in the profession by pursuing an Associate in Applied Science (AAS) Degree in Fire Administration.

The Certificate of Completion – Fire Academy curriculum is offered as an innovative online Texas Commission on Fire Protection (TCFP) certified Basic Firefighter Academy. Odessa College's Fire Academy (OCFA) offers on campus and online firefighter training which combines traditional and contemporary methodologies and is designed to allow the student to be gainfully employed upon completion of 24 college credit hours. While taking the 17 week course of study Monday through Friday online, the student will be required to attend 16 Saturdays of mandatory all day on campus skill practice. The online interactive study will provide the student with basic fire suppression and hazardous materials knowledge and procedures needed to take and pass the TCFP written state test for certification. The Saturday practicum will be used to develop skill proficiency, enabling the student to pass the TCFP state skill test and give the student opportunity to develop additional practical skills needed in the career of firefighting.

It is preferred that all students enrolled in the Certificate of Completion – Fire Academy program receive an EMT-Basic certification from the Texas Department of State Health Services (TDSHS) in the semester immediately after successfully completing the Fire Academy. This will allow the student to earn an additional 6 college credit hours and enhance employment opportunities with fire departments throughout the state of Texas. The 24 college credit hours obtained from the successful completion of the Certificate of Completion – Fire Academy, as well as the 6 college credit hours earned for EMT-Basic, can then be applied toward an AAS Degree in Fire Administration if the student desires to further their education.

The goal of the OCFA is to provide a well-rounded educational experience and give the student the necessary training to become certified through the TCFP and TDSHS and obtain a career in the profession of firefighting.

The High School Fire Academy (HSFA) is an innovative on campus Texas Commission on Fire Protection (TCFP) certified Basic Firefighter Academy. The academy offers on campus firefighter training that begins at the start of the student's junior year of high school and is completed in the fall semester of the senior year. The firefighter training will provide the student the basic knowledge to pass the TCFP state test. In the spring semester of the senior year, students will take the EMT-Basic courses. The EMT training will provide the student the basic knowledge to pass the EMT-Basic certification through the Texas Department of State Health Services (TDSHS) upon graduation from high school. The student is able to attend the HSFA during high school hours with some Saturday scheduling in their second year. The student can earn dual credit while enrolled in the HSFA and graduate the academy with 30 college credit hours and 4 high school credits upon completion. After successfully completing all training at the end of the senior year, the student will be state certified in both Basic Firefighter and EMT-Basic upon successfully passing both certification examinations.

The goal of the HSFA is to provide the youth of our community the opportunity to pursue a career in the fire service and to be certified through the TCFP and TDSHS and to become employable in fire service immediately following graduation from high school.

The AAS Degree in Fire Administration offers students the opportunity to apply credits earned in the Certificate of Completion – Fire Academy program to the Associate of Applied Science Degree in Fire Administration. This allows students opportunities to further their education and advance into supervisory and upper management positions within the profession. The AAS degree offers both on campus and online education opportunities. Students may transfer to a university for further education and earn a bachelor degree to become a leader in the fire service profession.

Enrollment in FIRS practicum and EMSP clinical courses requires student liability insurance payable in college course fees and personal health and accident insurance. If the student does not have a health and accident policy, student health insurance must be purchased prior to the first day of class.

All students must have consent from the department director and/or academy coordinator to register for any fire academy class prior to registering.

The admissions process for the Basic Fire Academy is competitive and applicants must meet all minimum criteria in order to be eligible for ranking. Ranking points are obtained from the most recent Test of Essential Academic Skills (TEAS) V (AH-Category G) or Texas Success

Initiative Assessment (TSIA) is an option and an interview using Job Fit. Official TEAS V test scores are valid for five (5) years and only the most recent test score will be used. Official TSI assessment scores are valid for five (5) years and only the most recent test score will be used.

Basic Fire Academy applicants are required to complete the Test of Essential Academic Skills (TEAS) V (AH-Category G) or Texas Success Initiative Assessment (TSIA) during the application/ranking process. Students who have not completed this requirement during the initial application deadline will be placed on a waiting list pending proof of completion and students are responsible for updating information with the program. Incomplete applications will not be ranked until all general requirements are met.

Deadlines for Completing Specialized Admissions Requirements

Initial application period is October 1st until October 30th for the following Spring semester and May 1st until May 30th for the following Fall semester. A second application period will be conducted in January prior to the start of the Spring semester for incomplete applications submitted after October 30th. A second application period will be conducted in July prior to the start of the Fall semester for incomplete applications submitted after May 30th.

Completed Program Specific materials should be brought in person during the Application acceptance time period to:

Odessa College Fire/EMS Department Secretary
2460 Kermit Hwy
Odessa, TX 79764
Fire Technology Training Center, Room 102
432-335-6841

Course of Study for Certificate of Completion – Fire Academy

Level I Certificate – Basic Firefighter

TSI Waived

FALL OR SPRING SEMESTER			
FIRS	1301	Firefighter Certification I	3
FIRS	1407	Firefighter Certification II	4
FIRS	1313	Firefighter Certification III	3
FIRS	1319	Firefighter Certification IV	3
FIRS	1323	Firefighter Certification V	3
FIRS	1329	Firefighter Certification VI	3
FIRS	1433	Firefighter Certification VII	4
FIRS	1166/67	Practicum-Fire Science/Firefighting	1
Total Semester Hours			**24**

PREFERRED COREQUISITES			
EMSP	1160	Clinical – Emergency Medical Technician	1
EMSP	1501	Emergency Medical Technician – Basic	5
Total Semester Hours			**6**

High School Fire Academy – Basic Firefighter

Level I Certificate – Basic Firefighter

FIRST SEMESTER – FALL JUNIOR YEAR			
FIRS	1301	Firefighter Certification I	3
FIRS	1407	Firefighter Certification II	4
Total			**7**

SECOND SEMESTER – SPRING JUNIOR YEAR			
FIRS	1313	Firefighter Certification III	3
FIRS	1319	Firefighter Certification IV	3
Total			**6**

THIRD SEMESTER – FALL SENIOR YEAR			
FIRS	1323	Firefighter Certification V	3
FIRS	1329	Firefighter Certification VI	3
FIRS	1433	Firefighter Certification VII	4
FIRS	1167	Practicum-Fire Science/Firefighting	1
Total			**11**
Total Semester Hours			**24**

Students who complete the High School Fire Academy will take the EMT Basic courses in the spring semester of the senior year.

Course of Study for Associate in Applied Science Degree – Fire Administration

The degree plan for the AAS combines all courses for the Level I Certificate, FIRT (fire administration) courses, and the following general education course requirements:

Major Requirements			**15**
FIRT	1305	Public Education Programs	3
FIRT	1309	Fire Administration I	3
FIRT	1319	Firefighter Health & Safety	3
FIRT	1353	Legal Aspects of Fire Protection	3
FIRT	2380	Cooperative Education – Fire Protection & Safety Technology / Technician	3

General Education Requirements			**15**
ENGL	1301	Composition I **OR**	
ENGL 2311 Technical & Business Writing			3
PSYC	*(from OC Core)*		3
Government/Political Science *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
Language, Philosophy, & Culture OR Creative Arts *(from OC Core)*			3
Total Semester Hours			**60**

Fire Technology Courses

FIRS 1301 Firefighter Certification I
(43.0203) (3-0) 3 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification II, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION (TCFP)*** (ICO 4) Prerequisite: Consent of department director and/or academy coordinator.

FIRS 1407 Firefighter Certification II
(43.0203) (3-2) 4 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICO 4) Prerequisite: Successful completion of FIRS 1301.

FIRS 1313 Firefighter Certification III
(43.0203) (3-0) 3 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICO 4) Prerequisite: Successful completion of FIRS 1407.

FIRS 1319 Firefighter Certification IV
(43.0203) (3-0) 3 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICOs 4) Prerequisite: Successful completion of FIRS 1313.

FIRS 1323 Firefighter Certification V
(43.0203) (3-0) 3 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICO 4) Prerequisite: Successful completion of FIRS 1319.

FIRS 1329 Firefighter Certification VI
(43.0203) (3-0) 3 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, V, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICO 4) Prerequisite: Successful completion of FIRS 1323.

FIRS 1433 Firefighter Certification VII
(43.0203) (3-2) 4 hours
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, III, IV, V, and VI, to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100. ***THIS COURSE MAY BE OFFERED ONLY BY INSTITUTIONS CERTIFIED AS A TRAINING FACILITY BY THE TEXAS COMMISSION ON FIRE PROTECTION*** (ICO 4) Prerequisite: Successful completion of FIRS 1329.

FIRT 1305 Public Education Programs
(43.0202) (2-2) 3 hours
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. Lab fee required. (ICO 1) Prerequisite: None.

FIRT 1309 Fire Administration I
(43.0202) (3-0) 3 hours
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. (ICO 6) Prerequisite: None.

FIRT 1319 Firefighter Health and Safety
(43.0201) (3-0) 3 hours
Firefighter occupational safety and health in emergency and non-emergency situations. This course meets Fire and Emergency Services Higher Education (FESHE) Model Curriculum core requirements. (ICO 3) Prerequisite: None.

FIRT 1353 Legal Aspects of Fire Protection
(43.0202) (3-0) 3 hours
Study of the rights, duties, liability concerns, and responsibilities of public fire protection agencies and personnel. (ICO 5) Prerequisite: None.

FIRT 2380 Cooperative Education – Fire Protection and Safety Technology/Technician
(43.0201) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICO 2) Prerequisite: Consent of department director and/or academy coordinator.

FIRS 1166 Practicum-Fire Science/Firefighting
(43.0203) (0-8) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Student liability insurance required with course fees. (ICO 4) Corequisites: FIRS 1301, FIRS 1407, FIRS 1313, FIRS 1319, FIRS 1323, FIRS 1329, and FIRS 1433.

FIRS 1167 Practicum-Fire Science/Firefighting
(43.0203) (0-7) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This course is taken by students enrolled in the High School Fire Academy. Student liability insurance required with course fees. (ICO 4) Corequisites: FIRS 1323, FIRS 1329 and FIRS 1433.

Geology

www.odessa.edu/dept/geo

Faculty: Nichole Jackson, chair; Dennis Edwards

Geology

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

Course of Study for Associate in Science Degree – Geology

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	2311	Technical & Business Writing	3
MATH	2413	Calculus	4
CHEM	1311	General Chemistry I / 1111 General Chemistry I Lab	4
CHEM	1312	General Chemistry II / 1112 General Chemistry II Lab	4
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1321	Business & Professional Speech	3
American History *(from OC Core)*			6
Creative Arts *(from OC Core)*			3
Social/Behavioral Science *(from OC Core)*			3
Language, Philosophy & Culture *(from OC Core)*			3
Major Requirements			**18**
GEOL	1403	Physical Geology	4
GEOL	1404	Historical Geology	4
GEOL	2409	Mineralogy & Petrology I	4
KINE	Any 2 one-hour courses		2
Approved Electives (3-4 SCH) **(See department chair for options)**			**4**
Total Semester Hours			**60**

Geology Courses

GEOL 1403 Physical Geology
(40.0601.5403) (3-3) 4 hours
This course is a study of the physical and chemical aspects of the Earth's interior and exterior crust. Students will study the origin, occurrence, and classification of minerals, rocks, structures and landforms. Laboratory activities involve the students in organizing and processing data related to the classification of minerals and rocks and principles underlying the relationships between topographic maps and geological processes. Lab fee required. (ICOs 1, 5, 6) Prerequisite: None.

GEOL 1404 Historical Geology
(40.0601.5403) (3-3) 4 hours
Students study the chronological sequence of events in the physical history of the Earth and its life forms. Laboratory activities involve the students in acquiring and evaluating data related to fossils and their relationship to ancient environments. Students also organize and process data related to the classification of fossils and principles underlying the relationships between lithology, age, structure and geological map interpretation. Lab fee required. (ICOs 1, 5, 6) Prerequisite: GEOL 1403.

GEOL 2409 Mineralogy & Petrology I
(40.06001.5203) (3-3) 4 hours
Study of mineral crystallography, chemistry, classification, identification, and occurrence. Includes the genesis, classification, and identification of igneous, sedimentary, and metamorphic rocks. (ICOs 1, 2, 3, 4) Prerequisites: GEOL 1403 & three hours of Chemistry (CHEM 1311 or 1312).

GEOGRAPHY (see Social Sciences)
GOVERNMENT (see Social Sciences)
HISTORY (see Social Sciences)

Machine Technology

www.odessa.edu/dept/machine

Faculty: James Mosman, chair; Carey Taylor

The associate in applied science degree in machine technology 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 level employment in the trade.

While a certificate of technology with an emphasis in machine technology will prepare the student to be an effective employee, the associate in applied science degree provides the necessary educational background for advancing to positions of even greater responsibility in the industry.

Course of Study for Associate in Applied Science Degree – Machine Technology

Major Requirements			**31**
MCHN	1413	Basic Milling Operations	4
MCHN	1438	Machining I – Basic Machine Shop I	4
MCHN	1441	Basic Machine Shop II	4
MCHN	2381	Cooperative Education – Machinist/Machine Tech.	3
MCHN	2403	Fundamentals of CNC	4
MCHN	2433	Advanced Lathe Operations	4
MCHM	2434	Operation of CNC Machining Centers	4
MCHN	2437	Advanced Milling Operations	4
General Education Requirements			**21**
BCIS	1305	Business Computer Applications	3
ENGL	2311	Technical & Business Writing	3
MATH	1333	Contemporary Mathematics II	3
Social/Behavioral Science *(from OC Core)*			3
SPCH	1321	Business & Professional Communication	3
Language, Philosophy, & Culture *(from OC Core)*			3
ARTS	*(from OC Core)*		3
Technical Core			**8**
OSHT	2401	OSHA Regulations – General Industry	4
WLDG	1421	Introduction to Welding Fundamentals	4
Total Semester Hours			**60**

Course of Study for Certificates of Technology

Certificates of technologies are available in the following job-specific fields. See the department chair for course requirements and Permian Basin job opportunities.

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Computerized Numerical Operator

			Semester Hrs
BCIS	1305	Business Computer Applications	3
MCHN	1413	Basic Milling Operations	4
MCHN	1438	Machining I – Basic Machine Shop I	4
MCHN	2403	Fundamentals of CNC	4
MCHN	1441	Basic Machine Shop II	4
MCHN	2437	Advanced Milling Operations	4
Total Semester Hours			**23**

Machine Technology Courses

MCHN 1320 Precision Tools and Measurement (48.0501) (2-4) 3 hours
An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools. The process of reverse engineering using precision measuring tools will be employed to make drawings of mechanical parts. Lab fee required. (ICOs 1, 2) Prerequisite: None.

MCHN 1413 Basic Milling Operations
(48.0501) (2-6) 4 hours
An introduction to the common types of milling machines, part nomenclature, basic machine operations and procedures, safety, machine mathematics, blueprint reading, and theory. The student will develop a basic understanding of the applications of the milling machine, including operation, set-up, tooling, the use of precision measuring tools, and workholding methods. This is a follow-up course to MCHN 1441. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite or Corequisite: MCHN 1438 or consent of department chair.

MCHN 1438 Basic Machine Shop I
(48.0501) (2-6) 4 hours
A course that introduces the student to machining fundamentals. The student begins by using basic machine tools such as the lathe, milling machine, drill press, power saw, and bench grinder. Machine terminology, theory, math, part layout, and bench work using common measuring tools is included. Emphasis is placed on shop safety, housekeeping, and preventive maintenance. The student will develop a basic understanding of the operation, set-up, and applications of machine tools and precision measuring tools. Lab fee required. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

MCHN 1441 Basic Machine Shop II
(48.0501) (2-6) 4 hours
A continuation of Basic Machine Shop I (MCHN 1438). The student will expand their skills in the operation, set-up, and applications of machine tools and precision measuring tools. An increased level of accuracy and proficiency is expected for machining operations and the use of precision measuring tools. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: MCHN 1438 or consent of department chair.

MCHN 2381 Cooperative Education – Machine Tool Technology/Machinist
(48.0501) (1-20) 3 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of department chair.

MCHN 2403 Fundamentals of Computer Numerical Controlled (CNC) Machine Controls
(48.0501) (2-6) 4 hours
Programming and operation of Computer Numerically Controlled (CNC) machine shop equipment. (ICOs 1, 2, 3, 4) Prerequisite: MCHN 1438 or consent of department chair.

MCHN 2433 Advanced Lathe Operations
(48.0501) (2-6) 4 hours
A study of advanced lathe operations. Identify and use of special cutting tools and support tooling, such as form tools, carbide inserts, taper attachments, follower, and steady rests. Close tolerance machining required. The student will continue to progress in their skill level in the operation of a lathe and the use of precision measuring tools. This is the capstone course for the Engine Lathe Operator Option Level I Certificate. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: MCHN 1413 or consent of department chair.

MCHN 2434 Operation of CNC Machining Center
(48.0501) (2-6) 4 hours
A study of CNC operations with an emphasis on vertical machining centers. Set up and operate CNC machining centers; set machine and tool offsets for machining operations; and edit the program as required. (ICOs 1, 2, 3, 4) Prerequisite: MCHN 2403 or consent of department chair.

MCHN 2437 Advanced Milling Operations
(48.0501) (2-6) 4 hours
Study of advanced milling machine operations. Identification and/or use of milling cutters and accessories. The student will continue to progress in their skill level in the operation of a milling machine and the use of precision measuring tools. This is a follow-up course to MCHN 2433 and the capstone course for the Milling Machine Operator Option Level I Certificate. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisite: MCHN 1413 or consent of department chair.

Mathematics

www.odessa.edu/dept/math

Faculty: Dr. Krista Cohlmia, chair; Theresa Evans, Nikki Handley, Debra Lackey, Ariela Lange, Dr. Robert Jaster, Daniel Murphree, Dr. Paul Oeser, Dr. Margaret Street

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

General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
MATH	1342	Mathematical Statistics	3
Humanities *(from OC Core)*			3
American History *(from OC Core)*			6
Life and Physical Science *(from OC Core)*			8
Social/Behavioral Sciences *(from OC Core)*			3
Creative Arts *(from OC Core)*			3
Component Area Elective (*from OC Core)*			4
Major Requirements			**19**
MATH	2413	Calculus I	4
MATH	2414	Calculus II	4
MATH	2415	Calculus III	4
MATH	2302	Differential Equations	3
MATH	2318	Linear Algebra	3
Total Semester Hours			**60**

*Students not prepared for MATH 2413 Calculus I should enroll in MATH 2412 Pre-Calculus or a lower-level math course before enrolling in MATH 2413. Preregistration testing is available for placement aid for students planning to take MATH 0371, MATH 0372, MATH 0375, or MATH 1314.

Mathematics Courses

NCBM 0064 Math Boot Camp
(32.0104.53 19)
A non-course based option to help students prepare for the state mandated TSIA test by providing them with a personalized learning path, working with a math instructor, and building good study and test taking skills. Approximately 32 contact hours.

MATH 0100 Math Refresher
(32.0104.5119) (1-0) 1 hour
A developmental course for students who need more preparation in mathematical topics such as arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. Prerequisite: none.

MATH 0170 Math Study Skills
(32.0104.5119) (0-1) 1 hour
A math study skills course designed to enable students to receive assistance in specific mathematics courses and practice taking placement tests. Tutorial help, computer-assisted instruction, videotapes and TSIA study materials are available to support this course. This course is for those students whose placement test scores were below the deviation standards and they have completed the developmental mathematics sequence. Students must retake a placement test at the end of the semester. Credit is not transferable. This course does not satisfy requirements for the degree plan at Odessa College. Lab fee required.

MATH 0370 Arithmetic
(32.0104.5119) (3-0) 3 hours
A developmental course for students with weak preparation in fundamental mathematics and who are deficient in math, English and/or reading. Presents basic arithmetic operations (whole numbers, fractions, decimals, and signed numbers), percents and proportions, metric and American systems of units, geometric measurements, and statistical graphs. MATH 0370 must be passed with a "C" or better in order to progress to next appropriate course. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. Placement testing is available. Lab fee required. Prerequisite: Consent of instructor. Corequisite: 14 hours in the Math Academic Resource Lab.

MATH 0371 Pre-Algebra
(32.0104.5119) (3-0) 3 hours
A developmental course using whole numbers, decimals, fractions, integers, linear equations, problem solving, geometry formulas, real number properties, polynomials, exponents, radicals, equations, and graphs of lines. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. Placement testing is available. Lab fee required. Prerequisite: MATH 0370 passed with a "C" or better or satisfactory placement score. Corequisite: 14 hours in the Math Academic Resource Lab.

MATH 0372 Introductory Algebra
(32.0104.5119) (3-0) 3 hours
A developmental course that introduces elementary algebra with some arithmetic review. Includes signed numbers and rational numbers with operations through exponentiation; algebraic expressions and their operations; linear equations and inequalities including applications, graphs. The student will learn to select appropriate mathematical techniques and technologies and use skills in information organizing, processing, planning, and problem solving. Credit is not transferable. This course does not satisfy requirements for any degree plan at Odessa College. Placement testing is available. Lab fee required. Prerequisite: MATH 0371 passes with a "C" or better or satisfactory placement score. Corequisite: 14 hours in the Math Academic Resource Lab.

MATH 0375 Intermediate Algebra
(32.0104.5219) (3-0) 3 hours
A study of relations and functions, inequalities, factoring, polynomials, rational expressions, and quadratics with an introduction to complex numbers, exponential and logarithmic functions, determinants and matrices, and sequences and series. This course does not satisfy requirements for any degree plan at Odessa College. Placement testing is available. Lab fee required. Prerequisite: MATH 0372 passed with a "C" or better or satisfactory placement score. Corequisite: 14 hours in the Math Academic Resource Lab.

MATH 1314 College Algebra
(27.0101.5419) (3-0) 3 hours
In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Placement testing available. (ICOs 1,3) Prerequisite: MATH 0375 passed with a "C" or better, or satisfactory placement score.

MATH 1316 Plane Trigonometry
(27.0101.5319) (3-0) 3 hours
In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. (ICOs 1,3) Prerequisite: MATH 0375 passed with a "C" or better, high school Algebra II passes with a "C" or better, or an independent school district/OC dual enrollment form.

MATH 1324 Mathematics for Business and Social Sciences
(27.0301.5219) (3-0) 3 hours
Topics from college algebra (linear equations, quadratic equations, functions and graphs, inequalities), mathematics of finance (simple and compound interest, annuities), linear programming, matrices, systems of linear equations, applications to management, economics, and business. (ICOs 1, 3) Prerequisite: MATH 0375 passed with a "C" or better, high school Algebra II passed with a "C" or better, or equivalent competency.

MATH 1325 Calculus for Business and Social Sciences
(27.0301.5319) (3-0) 3 hours
Limits and continuity, derivatives, graphing and optimization, exponential and logarithmic functions, antiderivatives, integration, applications to management, economics, and business. (ICOs 1, 3) Prerequisite: MATH 1324 passed with a "C" or better.

MATH 1332 Contemporary Mathematics I (27.0101.5119) (3-0) 3 hours
Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included. This course is designed primarily for liberal arts majors. (ICOs 1, 3) Prerequisite: MATH 0375 passed with a "C" or better, or satisfactory placement score.

MATH 1333 Contemporary Mathematics II (27.0101.5119) (3-0) 3 hours
Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included. This course is designed primarily for liberal arts majors. (ICOs 1, 3) Prerequisites: MATH 0375 passed with a "C" or better, or satisfactory placement score.

MATH 1342 Elementary Statistical Methods
(27.0501.5119) (3-0) 3 hours
Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. (ICOs 1, 2, 3) Prerequisite: MATH 0375 passed with a "C" or better or satisfactory placement score.

MATH 1348 Analytic Geometry
(27.0101.5519) (3-0) 3 hours
Lines, circles, and other conic sections; transformation of coordinates; polar coordinates; and parametric equations. (ICOs 1,3) Prerequisite: MATH 0375 passed with a "C" or better, high school Algebra II passes with a "C" or better, or an independent school district/OC dual enrollment form.

MATH 1350 Fundamentals of Mathematics I
(27.0101.5619) (3-0) 3 hours
Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. (ICOs 1,3) Prerequisite: MATH 1314 passed with a "C" or better.

MATH 1351 Fundamentals of Mathematics II
(27.0101.5719) (3-0) 3 hours
Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 through 8) teacher certification (ICOs 1, 3) Prerequisite: MATH 1314 passed with a "C" or better or MATH 1350 passed with a "C" or better.

MATH 1442 Business Statistics
(27.0501.5119) (3-3) 4 hours
Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. (ICOs 1, 2, 3) Prerequisite: MATH 0375 passed with a "C" or better or satisfactory placement score.

MATH 2318 Linear Algebra
(27.0101.6319) (3-0) 3 hours
Introduces and provides models for application of the concepts of vector algebra. Topics include finite dimensional vector spaces and their geometric significance; representing and solving systems of linear equations using multiple methods, including Gaussian elimination and matrix inversion; matrices; determinants; linear transformations; quadratic forms; eigenvalues and eigenvector; and applications in science and engineering. (ICOs 1, 3) Prerequisite: MATH 2414 passed with a "C" or better.

MATH 2320 Differential Equations
(27.0101.6419 (3-0) 3 hours
Ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, and boundary value problems; application of differential equations to real-world problems. (ICOs 1, 3) Prerequisite: MATH 2414 passed with a "C" or better.

MATH 2412 Pre-Calculus Math
(27.0101.5819) (4-0) 4 hours
In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. (ICOs 1, 3) Prerequisite: MATH 1314 passed with a "C" or better.

MATH 2413 Calculus I
(27.0101.5919) (4-0) 4 hours
Limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of areas. (ICOs 1, 3) Prerequisite: MATH 2412 passed with a "C" or better or department chair approval.

MATH 2414 Calculus II
(27.0101.6019) (4-0) 4 hours
Differentiation and integration of transcendental functions; parametric equations and polar coordinates; techniques of integration; sequences and series; improper integrals. (ICOs 1, 3) Prerequisite: MATH 2413 passed with a "C" or better.

MATH 2415 Calculus III
(27.0101.6119) (4-0) 4 hours
Advanced topics in calculus, including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, and Jacobians; application of the line integral, including Green's Theorem, the Divergence Theorem, and Stokes' Theorem. (ICOs 1, 3, 4, 5, 6) Prerequisite: MATH 2414 passed with a "C" or better.

Music

www.odessa.edu/dept/music

Faculty: Eric Baker, chair; Gayle Bizzell, David Corman, LuAnn Lane

The Odessa College music department, an accredited institutional member of the National Association of Schools of Music, offers a two-year associate in arts degree in music. Major areas include voice, piano, organ, strings, woodwinds, brass, percussion and guitar. The high quality academic program and performing organizations prepare a student to transfer to any large university. Courses are also offered to fulfill general education requirements and to provide enrichment and enjoyment for area residents. The department presents performances of faculty, students, and ensembles, and hosts area music clinics and competitions. The music department is also a member of the Texas Association of Music Schools and the Texas Music Educators Association.

Course of Study for Associate in Arts Degree – Music (Field of Study)

General Education Requirements			**26**
ENGL	1301	Composition I	3
History/Government (*from OC Core*)			9
Communication *(from OC Core)*			3
Mathematics *(from OC Core)*			3
Life and Physical Science *(from OC Core)*			8
Major Requirements			**34-38**
MUSI	1308	Introduction to Music Literature I	3
MUSI	1309	Introduction to Music Literature II	3
MUSI	1311	Music Theory I **and**	
MUSI	1312	Music Theory II	6
MUSI	2311	Music Theory III **and**	
MUSI	2312	Music Theory IV	6
Music Ensemble			4-8
Class Piano, Secondary Piano			4
Freshman Principal Instrument or Voice			4
Sophomore Principal Instrument or Voice			4
Total Semester Hours			**60**

Music Ensemble Courses

MUEN 1121, 1122, 2121, 2122 Concert Band (formerly: MUSI)
(50.0903.5526) (0-3) 1 hour each
Performance-oriented course for students with at least high school playing experience. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (ICOs 1, 2, 4, 5) Prerequisite: Consent of the Instructor.

MUEN 1125, 1126, 2125, 2126 Jazz Ensemble (formerly: MUSI 1131, 1132, 2131, 2132) (50.0903.5526) (0-3) 1 hour each
Performance-oriented course for students with at least high school playing experience. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (ICOs 1, 2, 4, 5) Prerequisite: Consent of the instructor.

MUEN 1133, 1134, 2133, 2134 String Ensemble (formerly: MUSI)
(50.0903.5626) (0-3) 1 hour each
Performance-oriented course for students who can play music of moderate difficulty on a stringed instrument (violin, viola, cello, bass, and guitar). Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (ICOs 1, 2, 4, 5) Prerequisite: Consent of the instructor.

MUEN 1135, 1136, 2135, 2136 Mariachi Ensemble
(50.0903.56 26) (0-3) 1 hour each
Performance-oriented course for students with at least high school playing experience. Participation in all performances is expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: Consent of the instructor.

MUEN 1137, 1138 Chamber Ensemble
(50.0903.5626) (0-3) 1 hour
Performance-oriented course for students with at least high school playing experience. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (ICOs 1, 2, 4, 5) Prerequisite: None.

MUEN 1241, 1242, 2241, 2242 A Cappella Choir (formerly: MUSI)
(50.0903.5726) (0-6) 2 hours each
A required course for music majors whose primary instrument is voice, or an elective course for non-music majors. Studies include fundamental vocal techniques and choral literature representing many styles and composers from all periods of music. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance (ICOs 1, 2, 4, 5) Prerequisite Admission by audition with acceptance based on musical ability and voice quality.

MUEN 1151, 1152, 2151, 2152 Vocal Ensemble (formerly: MUSI)
(50.0903.5826) (0-3) 1 hour each
An elective course designed to acquaint the student with chamber music for the small vocal ensemble of all periods of music. Participation in all performances expected. Students will enhance their music reading and listening skills and will develop social skills and responsibility through group performance. (ICOs 1, 2, 4, 5) Prerequisite: Selection from the A Cappella Choir by audition with acceptance based on musical ability and voice quality.

Music Courses

MUSI 1301 Music Fundamentals
(50.0904.5526) (3-0) 3 hours
This course is open to all students and is a basic study of the principles of music and music theory information including notation, scales, intervals, and chords. (ICOs 1, 3) Prerequisite: None.

MUSI 1306 Music Appreciation
(50.0902.5126) (3-0) 3 hours
This course is open to all students and is designed to increase a student's understanding and enjoyment of the world's music. Music history information and listening skills will be acquired through a multimedia approach which includes lectures, videos, recordings, and live performances. (ICOs 1, 6) Prerequisite: None.

MUSI 1308 Introduction to Music Literature I
(50.0902.5226) (3-1) 3 hours each
A chronological survey course for music majors, which acquaints students with musical composition from the Middle Ages through the Classical Period. Historical aspects, as well as the music itself, are presented. Music history information and listening skills will be acquired through various audiovisual aids, including videotapes, CDs, CD-ROMs, workbooks, and textbook. Required of all music majors. (ICOs 1, 2, 6)

MUSI 1309 Introduction to Music Literature II
(50.0902.5226) (3-0) 3 hours each
A chronological survey course for music majors, which acquaints students with musical composition from the Romantic Period through the 20th century. Historical aspects, as well as the music itself, are presented. Music history information and listening skills will be acquired through various audiovisual aids, including videotapes, CDs, CD-ROMs, workbooks, and textbook. Required of all music majors. (ICOs 1, 2, 6) Prerequisite: Consent of instructor.

MUSI 1311 Music Theory I
(50.0904.5126) (3-3) 3 hours each
Introduction to basic music theory. Topics include diatonic interval identification, ear-training, simple part-writing and analysis. Required for all music majors. (ICOs 1, 3)

MUSI 1312 Music Theory II
(50.0904.5126) (3-3) 3 hours each
Reviews basic music theory, followed by study of diatonic melody, diatonic triadic and seventh chord harmony, embellishing tones, modes and motivic variation procedures through analysis, part-writing, composition, ear-training, sight-singing, rhythmic reading and keyboard applications. Required for all music majors. (ICOs 1, 3) Prerequisite: MUSI 1311.

MUSI 2311 Music Theory III
(50.0904.5226) (3-3) 3 hours each
Presents secondary seventh chords, modulation, chromatic melody and harmony, and small forms through analysis, part-writing, composition, ear-training, sight-singing, rhythmic reading and keyboard applications. Required for all music majors. (ICOs 1, 3) Prerequisite: MUSI 1312.

MUSI 2312 Music Theory IV
(50.0904.5226) (3-3) 3 hours each
Reviews advanced topics developed in MUSI 2311. Twentieth century melody and harmony and large forms are studied as well as extended harmonic structures including 11ths, 13ths and beyond. Required for all music majors. (ICOs 1, 3) Prerequisite: MUSI 2311.

MUSI 1114, 1115, 2114, 2115 Piano Class for Music Majors (I, II, III, IV) (50.0904.5126) (1-2) 1 hour each
Courses for music majors designed to develop basic skills related to playing the piano through both class and individual participation. Begins with fundamental elements of music, including music reading, basic concepts of elementary music theory (melody, rhythm, harmony), chord structure, harmonization, ensemble playing and improvisation. Class taught in state-of-the-art piano lab, using digital keyboards, sequencers and computers. (ICOs 1, 5) Prerequisite: Consent of the instructor.

Private Lessons

Private study of piano, organ, voice, string, brass, woodwind, and percussion instruments is available to all students on both beginning and advanced levels of instruction. Students will develop and/or enhance their music reading and listening skills through practice and performance on their instrument. Music majors will have a one-hour lesson on their major instrument. They may also have a one-hour lesson on a secondary instrument. Non-music majors may have a one-half hour or one-hour lesson. (ICOs 1, 11) Private instruction fee required. Prerequisite: None.

Non-Music Major Lessons

MUAP 1190, 2190 Applied Music
(50.0903.5426) (0-1/2) 1 hour each

MUAP 1290, 2290 Applied Music
(50.0903.5426) (0-1) 2 hours each

Music Major Lessons

MUAP 1202 Freshman Violin
(50.0903.5426) (0-1) 2 hours each

MUAP 2202 Sophomore Violin
(50.0903.5426) (0-1) 2 hours each

MUAP 1206 Freshman Viola
(50.0903.5426) (0-1) 2 hours each

MUAP 2206 Sophomore Viola
(50.0903.5426) (0-1) 2 hours each

MUAP 1210 Freshman Cello
(50.0903.5426) (0-1) 2 hours each

MUAP 2210 Sophomore Cello
(50.0903.5426) (0-1) 2 hours each

MUAP 1214 Freshman Double Bass
(50.0903.5426) (0-1) 2 hours each

MUAP 2214 Sophomore Double Bass
(50.0903.5426) (0-1) 2 hours each

MUAP 1218 Freshman Flute
(50.0903.5426) (0-1) 2 hours each

MUAP 2218 Sophomore Flute
(50.0903.5426) (0-1) 2 hours each

MUAP 1222 Freshman Oboe
(50.0903.5426) (0-1) 2 hours each

MUAP 2222 Sophomore Oboe
(50.0903.5426) (0-1) 2 hours each

MUAP 1226 Freshman Bassoon
(50.0903.5426) (0-1) 2 hours each

MUAP 2226 Sophomore Bassoon
(50.0903.5426) (0-1) 2 hours each

MUAP 1230 Freshman Clarinet
(50.0903.5426) (0-1) 2 hours each

MUAP 2230 Sophomore Clarinet
(50.0903.5426) (0-1) 2 hours each

MUAP 1234 Freshman Saxophone
(50.0903.5426) (0-1) 2 hours each

MUAP 2234 Sophomore Saxophone
(50.0903.5426) (0-1) 2 hours each

MUAP 1238 Freshman Trumpet
(50.0903.5426) (0-1) 2 hours each

MUAP 2238 Sophomore Trumpet
(50.0903.5426) (0-1) 2 hours each

MUAP 1242 Freshman French Horn
(50.0903.5426) (0-1) 2 hours each

MUAP 2242 Sophomore French Horn
(50.0903.5426) (0-1) 2 hours each

MUAP 1246 Freshman Trombone or Euphonium
(50.0903.5426) (0-1) 2 hours each

MUAP 2246 Sophomore Trombone or Euphonium
(50.0903.5426) (0-1) 2 hours each

MUAP 1254 Freshman Tuba
(50.0903.5426) (0-1) 2 hours each

MUAP 2254 Sophomore Tuba
(50.0903.5426) (0-1) 2 hours each

MUAP 1258 Freshman Percussion
(50.0903.5426) (0-1) 2 hours each

MUAP 2258 Sophomore Percussion
(50.0903.5426) (0-1) 2 hours each

MUAP 1262 Freshman Classical Guitar
(50.0903.5426) (0-1) 2 hours each

MUAP 2262 Sophomore Classical Guitar
(50.0903.5426) (0-1) 2 hours each

MUAP 1266 Freshman Organ
(50.0903.5426) (0-1) 2 hours each

MUAP 2266 Sophomore Organ
(50.0903.5426) (0-1) 2 hours each

MUAP 1270 Freshman Piano
(50.0903.5426) (0-1) 2 hours each

MUAP 2270 Sophomore Piano
(50.0903.5426) (0-1) 2 hours each

MUAP 1282 Freshman Voice
(50.0903.5426) (0-1) 2 hours each

MUAP 2282 Sophomore Voice
(50.0903.5426) (0-1) 2 hours each

MUAP 1166, 2166 Secondary Organ
(50.0903.5426) (0-1) 1 hour each

MUAP 1170, 2170 Secondary Piano
(50.0903.5426) (0-1/2) 1 hour each

MUAP 1182, 2182 Secondary Voice
(50.0903.5426) (0-1/2) 1 hour each

MUAP 1188, 2188 Secondary Instrument (50.0903.5426)
(0-1/2) 1 hour each

Nursing – ADN

www.odessa.edu/dept/nursing

Director – Barbara Stone

Faculty: Mary Kipple, Zassar Gatson, Patty Williamson, Kristen Brame, and Jackline Sirengo

Accreditation Status

The Odessa College associate degree nursing program is approved by the Texas Board of Nursing (BON), located at 333 Guadalupe, Suite 3-460, Austin, Texas, 78701; phone 512-305-7400. The nursing curriculum plan is approved by the Texas Higher Education Coordinating Board (THECB). The program is accredited by the Accreditation Commission for Education in Nursing (ACEN). ACEN may be reached at 3343 Peachtree Road, NE, Suite 850, Atlanta, Georgia, 30326, phone 866-747-9965 or 404-975-5000.

The Associate Degree Nursing Program (A.D.N.)

Nursing is a care-oriented profession requiring a well-educated nurse. The curriculum of the Odessa College associate degree nursing program prepares graduates to assume beginning staff positions under supervision as a member of the profession, as a provider of patient-centered care, as a patient safety advocate, and as a member of the health care team. Upon successful completion of the licensing examination, NCLEX-RN®, the graduate becomes a registered nurse.

Odessa College offers generic and transition tracks to obtain the associate degree in applied science for nursing. Both tracks require the same non-nursing courses to complete the degree. Generic students are those without licensure as an L.V.N. Generic students are admitted to the day option. The transition track allows the licensed vocational nurse (L.V.N.) to receive credit for selected nursing courses through advanced placement. Transition students must currently hold a license to practice nursing as an L.V.N. in the state of Texas. Generic and transition students receive clinical education in various hospitals, health care agencies and community organizations.

Transition Track for the LVN

The transition student receives advanced placement credit for Foundations of Nursing Practice (RNSG 1513) , Clinical Introduction (RNSG 1360), Common Concepts of Adult health (RNSG 1441) and Clinical-Registered Nursing/Common Concepts (RNSG 1261). In the Spring, transition students begin by taking Adaptation to the role of the professional nurse, (RNSG 2207) to prepare for the role of R.N. Courses continue sequentially through the year, spring, summer and fall semesters, with graduation in the following December.

Academic Advisement for Prospective Nursing Students

General advisement is conducted by the Student Success Coaches which are located in the Saulsbury Campus Center. Prospective nursing students are encouraged to visit with the Coordinator/Director of the A.D.N. Program or a nursing faculty member to develop a plan of study *after* completing the prerequisite requirement Anatomy and Physiology I (BIOL 2401). The plan of study will guide the student to meet the requirements for program admission.

Application Deadline for Program Admission

Students must apply through the admissions department to Odessa College in order to take classes. Students must also apply to the nursing program by downloading the application from the nursing department's link on the Odessa College web page or by coming to the nursing office, which is located on the second floor of the Composite Technology Building. Students may apply for the ADN (generic) program from May 1-20 and October 1-20 for the following semester admission. The application deadline for generic students is May 20 for fall (late August) admission and October 20 for spring (mid-January) admission. The application deadline for the transition student is October 20. Letters of acceptance are sent in a timely manner after each deadline. The number of students admitted each semester may vary according to faculty staffing and clinical resources.

Prerequisites for Admission

This program has selective admission criteria. Not all students who apply are accepted. Students who have met all the admission criteria are ranked according to the GPA earned on the five prerequisite courses and the score on the department approved entrance examination, *TEAS Version V.

In order to be admitted into the associate degree nursing program, the student must:

1) Be a high school graduate or have earned a GED.
2) Have a minimum cumulative GPA of 2.5. All transcripts must be on file in the nursing office.
3) Have achieved satisfactory scores on the nursing entrance examination, TEAS Version V (*TEAS results must be current within 1 year of application or administrative approval).
4) Complete the requirements for the college's Success Initiative Plan, which usually includes passing scores on the TSIA exam unless an exemption has been earned.
5) CNA (certified nurse assistant) training is offered through the Odessa College Continuing Education Department. CNA is encouraged and will count for two (2) points towards admission, but is not mandatory.
6) Immunizations are required. A complete immunization record must be on file and submitted to the Nursing Department by application deadline.
7) Be currently trained in cardiopulmonary resuscitation, professional rescuer module. CPR must remain current during the two year program. Provide documentation of training to the nursing office prior to the application deadline. Online CPR training does not meet the requirement for initial training or renewal.
8) After program admission and before starting classes, proof of health and accident insurance is required. May be purchased with registration.
9) All course work for the degree must be passed with a grade of "C" or better.
10) *The courses required as prerequisites for program admission into the generic program are the following:

*BIOL 2401 Anatomy and Physiology I

*BIOL 2402 Anatomy and Physiology II

ENGL 1301 Composition I

Choose one of the following:

HUMA 1305 Introduction to Mexican-American Studies

HUMA 2319 American Minority Studies

HUMA 2323 World Cultures

PHIL 1304 Introduction to World Religions

*A&P course must be current within 5 years of admission.

*All pre-requisites must be taken prior to application into the A.D.N (Generic) program.

Other Program Requirements

Students must comply with all school and nursing program policies. Program policies are delineated in the Nursing Student Handbook which is available on the nursing department's Web site.

- Professional liability insurance is required and is part of the college fee schedule.
- Health and accident insurance must be maintained throughout the program.
- After acceptance to the program, new students will be given instructions for applying for a fingerprint analysis and background check by the State of Texas and the FBI. The fingerprint analysis and background check must be conducted by procedures set forth by the Board of Nurse Examiners and Odessa College. Any other fingerprint analysis will not be accepted. The following histories will disqualify an individual for clinical placement (including but not limited to):
    - Registered sex offenders
    - Felony convictions
    - Felony deferred adjudications involving crimes against persons (physical or sexual abuse)
    - Known of observed abuse or neglect of patients/clients/customers
    - Observed or proven theft
    - Convictions of violent acts (misdemeanor or felony)
    - Violence in the workplace
    - Securing execution of a document by deception
    - Misappropriation of fiduciary property or property of a financial institution (Class A misdemeanor or felony)
    - Health and Human Services-Office of Inspector General list of excluded individuals, U.S. General Services Administration excluded parties list, Employee Misconduct Registry, U.S. Treasury-Office of Foreign Assets Control (OFAC); List of specially Designated Nationals (SDN), Texas Health and Human Services (TX HHSC), Office of Inspector General (OIG), Exclusion List.
    - A student on probation for any legal offense.

Disclaimers

Clinical agencies can establish more stringent standards, if they so desire and can conduct additional background checks for their facility.

If the background check is positive for certain offenses, the clinical agency may not permit the student to participate in clinical experiences at their facility. These circumstances would require dismissal of the student from the nursing program due to inability to meet clinical objectives.

- The student must pass a physical examination and urine drug screen in order to participate in the nursing program. Urine drug screening must be conducted by the company specified by the nursing program. Information related to registration for the drug screen will be provided by the nursing program once the student has been accepted. Drug testing is performed periodically during the nursing program and is at the student's expense. Drug testing must be negative in order to remain in the nursing program.
- The nursing program utilizes the Comprehensive Assessment and Review Program (CARP), a product of Assessment Technologies, Inc. (ATI) in every semester. Students have access to learning materials online. Comprehensive testing, both proctored and non-proctored, occurs in various courses in the curriculum. Students are responsible for all fees associated with CARP.

Requirements for Graduation

The nursing program's grading scale for all RNSG courses is different from that of the general college with a grade of "C" awarded for numeric grades of 75-79. To be eligible for graduation, the nursing student must have completed each of the prescribed courses in the degree plan with a minimum grade of "C." The THECB requires a capstone experience which has been identified in the A.D.N. program as an end-of-program exit exam. The candidate for graduation must score satisfactorily on the exam (or prescribed alternative), complete the NCLEX-RN® review course, satisfy all college financial obligations, complete a degree application in the Records Office by the specified deadline, and return any borrowed school property.

Licensing as a Registered Nurse

Requirements to take the licensing examination to become an R.N. include the application process with approval by the BON, payment of fees to the BON and to the authorized NCLEX-RN® testing center, graduation from the nursing program, and graduation certification by the program director. Be advised that the BON requires fingerprint identification to screen all applicants for licensure. The fingerprints are analyzed by the state of Texas and the FBI, and there must be clearance on the background check by the BON prior to being allowed to take the licensing examination. Some events, such as having a felony or misdemeanor conviction, including expunged offenses and deferred adjudication with or without prejudice of guilt, pleading no contest to any crime, having been arrested, being placed on community supervision or court-ordered probation, being granted pre-trail diversion, or having pending criminal charges may prohibit the applicant from obtaining a nursing license. (Please note that it does not matter how long ago a criminal offense occurred, if it is on your record, it counts.) Licensure eligibility may also be denied if the applicant has a history of certain mental illnesses, a history of drug addiction, or has had action on a professional license by the body granting the license. These and other issues may prevent an applicant from being allowed to test. Contact the nursing department or the BON directly if you have questions about eligibility. (Internet Web site: www.bon.state.tx.us) Licensure eligibility issues should be resolved before beginning the nursing program.

Course of Study for Associate in Applied Science Degree – Nursing – Effective Spring/January 2015

Prerequisites			Semester Hrs
BIOL	2401	Anatomy and Physiology I	4
BIOL	2402	Anatomy and Physiology II	4
ENGL	1301	Composition I	3
HUMA	1305	Introduction to Mexican-American Studies **OR**	
	HUMA	2319 American Minority Studies **OR** HUMA 2323 World Cultures **OR**	
	PHIL	1304 Introduction to World Religions	3
Total Semester Hours			**14**

First Semester			
RNSG	1193	Special Topics in Registered Nursing	1
RNSG	1301	Pharmacology	3
RNSG	1360	Clinical	3
RNSG	1513	Foundations for Nursing Practice	5
Total Semester Hours			**12**

Second Semester			
RNSG	1261	Clinical – Registered Nurse	2
RNSG	1441	Common Concepts of Adult Health	4
RNSG	2161	Clinical – Mental Health	1
RNSG	2213	Mental Health Nursing	2
PSYC	2314	Life Span Growth and Development	3
Total Semester Hours			**12**

Third Semester			
RNSG	1262	Clinical – Registered Nursing	2
RNSG	1412	Nursing Care of the Childbearing and Childrearing Family	4
RNSG	1443	Complex Concepts of Adult Health	4
RNSG	2263	Clinical – Registered Nursing	2
Total Semester Hours			**12**

Fourth Semester			
RNSG	1166	Practicum	1
RNSG	1263	Clinical – Registered Nursing	2
RNSG	2221	Professional Nursing: Leadership and Management	2
RNSG	2230	Professional Nursing Review and Licensure Preparation	2
RNSG	2331	Advanced Concepts of Adult Health	3
Total Semester Hours			**10**

Total Hours	**60**

Transition OptiOn (L.V.N. to A.D.N.)

General Education Courses			**Semester Hrs**
BIOL	2401	Anatomy and Physiology I	4
BIOL	2402	Anatomy and Physiology II	4
PSYC	2314	Life Span Growth and Development	3
ENGL	1301	Composition I	3
Total General Education Semester Hours			**14**

Spring Semester			
RNSG	2207	Adaptation to Role of Professional Nurse	2
RNSG	1193	Special Topics in Registered Nursing	1
RNSG	2213	Mental Health Nursing	2
RNSG	2161	Mental Health Clinical	1
RNSG	1443	Complex Concepts of Adult Health	4
RNSG	1262	Clinical Registered Nursing	2
RNSG	1201	Pharmacology	2
Total Semester Hours			**14**

Summer			
HUMA	1305	Introduction to Mexican-American Studies **OR**	
	HUMA	2319 American Minority Studies **OR**	
	HUMA	2323 World Cultures **OR**	
	PHIL	1304 Introduction to Ethics	3
RNSG	1412	Nursing Care of the Childbearing and Childrearing Family	4
RNSG	2263	Clinical – Transition I	2
Total Semester Hours			**9**

Fall Semester

RNSG	2331	Advanced Concepts of Adult Health	3
RNSG	2221	Professional Nursing: Leadership and Management	2
RNSG	1263	Clinical – Registered Nurse	2
RNSG	1166	Practicum	1
RNSG	2130	Professional Nursing Review and Licensure Preparation	1
Total Semester Hours			**9**

Nursing Courses – Receive Advanced Standing (L.V.N. Education)

RNSG	1360	Clinical	3
RNSG	1513	Foundations of Nursing Practice	5
RNSG	1261	Registered Nurse	2
RNSG	1441	Common Concepts of Adult Health	4
Total Semester Hours (Advanced Standing)			**14**

Total Hours for the AAS degree **60**

Nursing Courses

Non-nursing courses may be taken earlier than the semester in which listed as Corequisite.

RNSG 1166 Practicum-Registered Nursing/Registered Nurse
(51.3801) (0-7) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Experiences will occur in a preceptor environment caring for a group of patients with multiple problems and acuity. Emphasis will be placed on prioritization, and delegation using clinical judgment and best current evidence in the patient-centered care setting. The student will begin to model the role of a professional nurse demonstrating leadership skills and patient advocacy, technology, and participating in quality improvement related to safety and clinical judgment. Lab fee required. Prerequisites: Admission to Professional Nursing Program or administrative approval, successful completion of: Generic RNSG 1301, RNSG 1513, RNSG 1360, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161, RNSG 1443, RNSG 1262, RNSG 1412 RNSG,2263, RNSG 2331, RNSG 1263, RNSG 2221 AND PSYC 2314 Transition: Admission to Professional Nursing Program or administrative approval, successful completion of: RNSG 1201, RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1443, RNSG 1262, RNSG 1193, RNSG 1412, RNSG 2263, RNSG 2331, RNSG 1263, RNSG 2221 AND (Select one) HUMA 1305, 2319, 2323, PHIL 1304. Corequisites: Generic: RNSG 2230 Transition: RNSG 2130.

RNSG 1193 Special Topics in Nursing
(51.3801) (1-0) 1 hour
Special 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 was designed to be repeated multiple times to improve student proficiency. Lab fee required Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1301. Transition: Admission to Professional Nursing Program or administrative approval. Transition: Admission to Professional Nursing Program or administrative approval. Corequisite: Generic: RNSG 1513, RNSG 1360. Transition: (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304). RNSG 2207

RNSG 1201 Pharmacology
(51.3801) (2-0) 2 hours
Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of drug classifications. Content includes the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. This course lends itself to either a blocked or integrated approach. Lab fee required. Prerequisites: Admission to Professional Nursing Program or administrative approval, RNSG 2207, RNSG, 1193, RNSG 2213, RNSG 2161. Corequisite: RNSG 1443, RNSG 1262.

RNSG 1261 Clinical – Registered Nurse
(51.3801) (0-8) 2 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Admission to Professional Nursing Program or administrative approval, RNSG 1301, RNSG 1513, RNSG 1360, RNSG 1193. Corequisite: RNSG 1441

RNSG 1262 Clinical – Registered Nurse
(51.3801) (0-8) 2 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1301, RNSG 1513, RNSG 1360, RNSG 1193, RNSG 2213, RNSG 2161. Transition: RNSG 2207, RNSG 2213, RNSG 2161. Corequisite: Generic: RNSG 1443. Transition: RNSG 1443, RNSG 1201.

RNSG 1263 Clinical – Registered Nurse
(51.3801) (0-8) 2 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1301, RNSG 1513, RNSG 1360, RNSG 1193 RNSG 2213, RNSG 2161, PSYC 2314, RNSG 1443, RNSG 1262, RNSG 1412, RNSG 2263. Transition: RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1201, RNSG 1443, RSNG 1262, RNSG 1193, (select one, HUMA 1305, HUMA 2319, HUMA 2323, PHIL 1304), RSNG 1412, RNSG 2263. Corequisite: Generic: RNSG 2331, RNSG 2221. Transition: RNSG 2331, RNSG 2221

RNSG 1301 Pharmacology
(51.3801) (3-0) 3 hours
Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of drug classifications. Content includes the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. This course lends itself to either a blocked or integrated approach. Lab fee required Prerequisites: Admission to Professional Nursing Program or administrative approval, BIOL 2401, BIOL 2402, ENGL 1301, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), Corequisite: RNSG 1513, RNSG 1360.

RNSG 1360 Clinical – Registered Nurse
(51.3801) (0-12) 3 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, BIOL 2401, BIOL 2402, ENGL 1301, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), Corequisite: Generic: RNSG 1513, RNSG 1301, RNSG 1193.

RNSG 1412 Nursing Care of the Childbearing and Childrearing Family
(51.3801) (4-0) 4 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 the perinatal periods and the childbearing family from birth to adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. This course lends itself to a blocked approach Lab fee required (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213 RNSG, 2161, PSYC 2314, RNSG 1443, RNSG 1262. Transition: RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1201, RNSG 1443, RNSG 1262 RNSG 1193, (select one, HUMA 1305, HUMA 2319, HUMA 2323, PHIL 1304). Corequisite: Generic: RNSG 2263. Transition: RNSG 2263, (select one: HUMA 1305, HUMA 2319, HUAM 2323, PHIL 1304).

RNSG 1441 Complex Concepts of Adult Health (51.3801)
(4-0) 4 hours
Basic integration of the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Study of the common concepts of caring for adult patients and families with medical-surgical health care needs related to body systems, emphasizing knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. Lab fee required (ICOs 1, 2, 3, 4, 5, 6). Prerequisites: Admission to Professional Nursing Program or administrative approval, RSNG 1513, RNSG 1360, RNSG 1301, RNSG 1193. Corequisite: RNSG 1261

RNSG 1443 Complex Concepts of Adult Health (51.3801)
(4-0) 4 hours
Integration of previous knowledge and skills related to common adult health needs into the continued development of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession in the care of adult patients and families with complex medical-surgical health care needs associated with body systems. Emphasis on complex knowledge, judgments, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. Lab fee required (ICOs 1, 2, 3, 4, 5, 6). Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161. Transition: RNSG 2207, RNSG 1193, RNSG 2213, RNSG 2161. Corequisite: Generic: RNSG 1262. Transition: RNSG 1262. RNSG 1201.

RNSG 1513 Foundations for Nursing Practice
(51.3801) (5-0) 5 hours
Introduction to the role of the professional nurse as provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Content includes fundamental concepts of nursing practice, history of professional nursing a systematic framework for decision-making and critical thinking. The mechanisms of disease and the needs and problems that can arise are discussed and how the nursing process helps manage the patient through these issues. Emphasis on knowledge, judgment, skills and professional values within a legal/ethical framework. This course lends itself to a blocked approach. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Admission to Professional Nursing Program or administrative approval BIOL 2401, BIOL 2402, ENGL 1301, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), Corequisite: RNSG 1360, RNSG 1301, RNSG 1193

RNSG 2130 Professional Nursing Review and Licensure Preparation
(51.3801) (1-0) 1 hour
Review of concepts required for licensure examination and entry into the practice of professional nursing. Includes application of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits, and remediation. This course lends itself to either a blocked or integrated approach. Lab fee may be required. (ICOs 1, 2, 4, 5, 6). Prerequisites: Admission to Professional Nursing Program or administrative approval, RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1201, RNSG 1443, RNSG 1262, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), RNSG 1193, RNSG 1412, RNSG 2263, RNSG 2331, RNSG 2221, RNSG 1263. Corequisite: RNSG 1166.

RNSG 2161 Clinical – Mental Health
(51.3801) (0-3) 1 hour
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. (ICOs 1, 2, 4, 5, 6). Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261.Transition: RSNG 2207. Corequisite: Generic: RNSG 2161, PSYC 2314. Transition: RNSG 2161.

RNSG 2207 Adaptation to Role of Professional Nurse
(51.3801) (2-0) 2 hours
Selected concepts related to the role of the professional nurse as a provider of patient-centered care, patient safety advocate, member of health care team, and member of the profession. Review of trends and issues impacting nursing and health care today and in the future. Content includes knowledge, judgment, skill and professional values within a legal/ethical framework. This course lends itself to a blocked approach. Lab fee may be required. (COs 1, 2, 3, 4, 5, 6) Prerequisites: Admission to Professional Nursing Program or administrative approval, BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2314. Corequisite: RNSG 1193.

RNSG 2213 Mental Health Nursing
(51.3801) (2-0) 2 hours
Principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of patients and families. This course lends itself to a blocked approach. (COs 1, 2, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 126. Transition: RNSG 2207 and RNSG 1193. Corequisite: Generic: RNSG 2161, PSYC 2314. Transition: RNSG 2161.

RNSG 2221 Professional Nursing: Leadership and Management
(51.3801) (2-0) 2 hour
Exploration of leadership and management principles applicable to the roles of the professional nurse. Includes application of knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. (ICOs 1, 2, 3, 4, 5, 6). Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161, PSYC 2314, RNSG 1443, RNSG 1262, RNSG 1412, RNSG 2263. Transition: RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1443, RNSG 1262, RNSG 1201, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), RNSG 1193, RNSG 1412, RNSG 2263. Corequisite: Generic: RNSG 2331, RNSG 1263. Transition: RNSG 2331, RNSG 1263.

RNSG 2130 Professional Nursing Review and Licensure Preparation
(51.3801) (1-0) 1 hour
Review of concepts required for licensure examination and entry into the practice of professional nursing. Includes application of National Council Licensure Examination for Registered Nurses (NCLEX-RN) test plan, assessment of knowledge deficits, and remediation. This course lends itself to either a blocked or integrated approach. Lab fee may be required. (ICOs 1, 2, 4, 5, 6). Prerequisites: Generic: RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161, PSYC 2314, RNSG 1443, RNSG 1262, RNSG 1412, RNSG 2263 RNSG 2331, RNSG 1263, RNSG 2221. Transition: Admission to Professional Nursing Program or administrative approval, RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1201, RNSG 1443, RNSG 1262, (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), RNSG 1193, RNSG 1412, RNSG 2263, RNSG 2331, RNSG 2221, RNSG 1263. Corequisite: Generic: RNSG 1166, Transition: RNSG 1166.

RNSG 2263 Clinical-Registered Nursing/Registered Nurse/ Advanced.
(51.3801) (0-8) 2 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Lab fee required (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RSNG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161, PSYC 2314, RNSG 1443, RSNG 1262. Transition: RNSG 2207, RNSG 2213, RNSG 2161, (select one, HUMA 1305, RNSG 1193. Corequisite: Generic: RNSG 1412. Transition: RNSG 1412, HUMA 2319, HUMA 2323, or PHIL 1304, and RNSG 1193.

RNSG 2331 Advanced Concepts of Adult Health (51.3801) (3-0) 3 hours
Application of advanced concepts and skills for the development of the professional nurse's roles with adult patients and families involving multiple body systems. Emphasis on advanced knowledge, judgment, skills, and professional values within a legal/ethical framework. This course lends itself to a blocked approach. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: Generic: Admission to Professional Nursing Program or administrative approval, RNSG 1513, RNSG 1360, RNSG 1301, RNSG 1193, RNSG 1441, RNSG 1261, RNSG 2213, RNSG 2161, PSYC 2314, RNSG 1443, RNSG 1262, RNSG 1412, RNSG 2263. Transition: RNSG 2207, RNSG 2213, RNSG 2161, RNSG 1443, RNSG 1262, RNSG 1201 (select one, HUMA 1305, HUMA 2319, HUMA 2323, or PHIL 1304), RNSG 1193, RNSG 1412, RNSG 2262. Corequisite: Generic: RNSG 1262, RNSG 2221. Transition: RNSG 12632, RNSG 2221.

Nursing – Vocational

Director of Vocational Nursing: Nicole Hays, RN

Andrews Extension:
201 NW Ave. D, Andrews, Texas 79714
Phone: 432-524-4022
Faculty: Rosa Tejeda, RN; Yesenia Walsh, RN, MSN;
Ambera Tuck, Administrative Assistant

Monahans Center:
806 South Dwight , Monahans, Texas 79756;
Phone: 432-335-6390;
Faculty: Mary Miki Mitchell, LVN; Allisa Cornelius, RN, BSN;
Deborah Chaney, Administrative Assistant

Dual Credit Campus Extension:
201 West University, HS Building, Odessa Texas, 79764
Phone: 432-335-6464

Faculty: Angie Lopez, RN, BSN; Tiffany Escorial-Azcona, RN, BSN

The Odessa College vocational nursing program is a one-year certificate program to prepare the graduate to become a licensed vocational nurse (LVN). The LVN functions as an important member of a health care team under a licensed physician and/or a registered nurse's supervision. Vocational nurses provide care in a variety of structured health care settings for individual clients who are experiencing common health problems.

The Odessa College vocational nursing programs are approved by the Texas Board of Nursing. The BON is located at 333 Guadalupe, Austin, Texas, 78701; phone 512-305-7400. The nursing curriculum plan is approved by the Texas Higher Education Coordinating Board (THECB).

Licensing as a Vocational Nurse (LVN)

Texas utilizes the title of LVN. Many other states use LPN (licensed practical nurse) for this level of nursing practice. The Odessa College vocational nursing graduate must meet state requirements to take the licensing examination National Council for Licensure Examination – Practical Nurse (NCLEX-PN®).

Requirements to take the licensing examination to become an LVN include the application and approval process with the BON, payment of fees to the BON, graduation from the nursing program, and graduate certification by the director of the vocational nursing program. Be advised that the BON requires fingerprint identification to screen all applicants for licensure. The fingerprints are analyzed by the state of Texas and the FBI, and there must be clearance on the background check by the BON prior to being allowed to attend any VNSG clinical course. Contact the nursing department or the BON directly regarding any questions.

Pre-Admission Requirements

The vocational nursing program has selective admission criteria. Not all students who apply are accepted. Applications are accepted May 1st- June 1st of every academic year.

1) Enrolled at Odessa College as a credit student.
2) High School Diploma or GED.
3) Minimum cumulative GPA of 2.0 is required from most recent college or high school work.
4) Maintain current AHA CPR card. (Online CPR is not accepted.)
5) Meet immunization requirements.
6) Provide proof of health and auto insurance.
7) A satisfactory score on the TEAS Test must be achieved.

Post-Admission Requirements

1) Authorize a Board of Nursing required criminal background check.
2) Obtain a physical examination.
3) Obtain and pass a drug screen.
4) Attend a mandatory orientation prior to beginning the LVN program to be held at Odessa College.

Completion Requirements

All courses in the curriculum are required. Students must complete outcome competencies for each level with a minimum grade of "C" in all nursing courses. A grade of "C" is 75-79. Students must achieve a minimum requirement on multiple thresholds throughout the LVN program. Graduates have the opportunity to participate in a completion ceremony at the end of the educational experience. Students must satisfy all college financial obligations and return any borrowed school property.

Student Responsibility

Students must comply with all school and vocational nursing program policies. Program policies are delineated in the VNSG Student Handbook.

Course of Study for Certificate of Completion

First Semester			Semester Hours
VNSG	1227	Essentials of Medication Administration	2
VNSG	1160	Introductory Clinical Nursing	1
VNSG	1405	Health Science	4
VNSG	1400	Nursing in Health & Illness I	4
VNSG	1402	Applied Nursing Skills I	4
Second Semester			
VNSG	1330	Maternal/Neonatal Nursing	3
VNSG	1334	Pediatrics	3
VNSG	1361	Intermediate Clinical Nursing	3
VNSG	1509	Nursing in Health & Illness II	5
Whole Summer			
VNSG	1219	Leadership and Professional Development	2
VNSG	1238	Mental Illness	2
VNSG	1363	Advanced Clinical Nursing	3
VNSG	1510	Nursing in Health & Illness III	5
Total Hours			**41**

Dual Credit Course of Study for Certificate of Completion

First Semester			Semester Hours
VNSG	1405	Health Science	4
VNSG	1227	Essentials of Medication Administration	2
Second Semester			
VNSG	1402	Applied Nursing Skills I	4
VNSG	1400	Nursing in Health & Illness I	4
Third Semester			
VNSG	1238	Mental Illness	2
VNSG	1160	Introductory Clinical Nursing	1
Fourth Semester			
VNSG	1509	Nursing in Health & Illness II	5
VNSG	1510	Nursing in Health & Illness III	5
Fifth Semester			
VNSG	1330	Maternal/Neonatal Nursing	3
VNSG	1334	Pediatrics	3
VNSG	1361	Intermediate Clinical Nursing	3
Sixth Semester (Post High School Graduation)			
VNSG	1363	Advanced Clinical Nursing	3
VNSG	1219	Leadership and Professional Development	2
Total Hours			**41**

Vocational Nursing Courses

VNSG 1160 Introductory Clinical Nursing
(51.3901) (0-6) 1 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

End-of-Course Outcomes: As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1219 Leadership and Professional Development
(51.3901) (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.

End-of-Course Outcomes: 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; explain the Texas Board of Nursing Rules and Regulations and the Nurse Practice Act; and identify criteria and appropriate resources for continuing education. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1238 Mental Illness
(51.3901) (2-0) 2 hours
Study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process.

End-of-Course Outcomes: 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. (ICOs 1, 2, 4, 5, 6)

VNSG 1327 Essentials of Medication Administration
(51.3901) (1-4) 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.

End-of-Course Outcomes: Demonstrate accurate dosage calculation; demonstrate safe medication administration; and accurately document medication administration. (ICOs 1, 2, 3, 5, 6)

VNSG 1330 Maternal-Neonatal Nursing
(51.3901) (3-0) 3 hours
A study of the biological, psychological, and sociological concepts applicable to basic needs of the family including childbearing and neonatal care. Utilization of the nursing process in the assessment and management of the childbearing family. Topics include physiological changes related to pregnancy, fetal development, and nursing care of the family during labor and delivery and the puerperium.

End-of-Course Outcomes: Discuss human reproduction and fetal development as related to the normal aspects of childbearing; identify common complications of the mother and newborn during prenatal, antenatal, and postnatal periods; and relate characteristics of the normal newborn and associated nursing interventions to meet identified health care needs utilizing the nursing process. (ICOs 1, 2, 3, 4, 5)

VNSG 1334 Pediatrics
(51.3901) (3-0) 3 hours
Study of the care of the pediatric patient and family during health and disease. Emphasis on growth and developmental needs utilizing the nursing process.

End-of-Course Outcomes: Identify safety principles related to childcare; discuss primary nursing care of the pediatric patient and family during health and disease; and apply concepts of growth and development to the care of pediatric patients utilizing the nursing process. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1361 Intermediate Clinical Nursing
(51.3901) (0-15) 3 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

End-of-Course Outcomes: As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1363 Advanced Clinical Nursing
(51.3901) (0-12) 3 hours
An intermediate type of health---related
Course Description: A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

End-of-Course Outcomes: As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry; and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1400 Nursing in Health and Illness I
(51.3901) (2-6) 4 hours
Introduction to general principles of growth and development, primary health care needs of the patient across the life span, and therapeutic nursing interventions.

End-of-Course Outcomes: Describe the psychosocial, growth and development, and physiological needs of patients across the life span; identify primary health care needs of the patient; and identify the basic interventions to support the patient and family during life stages including death and dying. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1402 Applied Nursing Skills I
(51.3901) (2-6) 4 hours
Introduction to and application of primary nursing skills. Emphasis on utilization of the nursing process and related scientific principles.

End-of-Course Outcomes: Describe the underlying principles of selected nursing skills and their relationship to patient health status; demonstrate performance of selected nursing skills utilizing principles of safety; and identify the nursing process as applied to basic care across the life span. (ICOs 1, 2, 3, 4, 5, 6)

VNSG 1405 Health Science
(51.3901) (3-2) 4 hours
An introduction to the general principles of anatomy and physiology, nutrition, and microbiology necessary for understanding body processes and basic principles underlying health promotion and therapeutic interventions.

End-of-Course Outcomes: Identify and describe major body structures and functions which comprise the major body systems; recognize and describe the relationship of nutrition to health and illness across the life span; identify microorganisms as causative agents in disease; and identify common causes for disease, modes of transmission, and methods of prevention and control. (ICOs 1, 2, 3, 4)

VNSG 1509 Nursing in Health and Illness II
(51.3901) (3-6) 5 hours
Introduction to common health problems requiring medical and surgical interventions. The student will compare and contrast normal physiology of body systems to pathologic variations in the adult client with medical---surgical health problems; compare and contrast diagnostic evaluation and treatment of the adult client with common medical---surgical health problems; and apply the nursing process in caring for the adult client with common medical---surgical health problems. Incorporate nutrition, drug therapy, and nursing interventions in the development of plans of care that meet the needs of the adult client experiencing common medical--- surgical health problems; and utilize a systematic problem- solving process in caring for the adult client with common medical---surgical health problems. Emphasis is placed on professional collaboration among health care providers. Critical thinking exercises are incorporated. Continue to focus on the role of vocational nurses as a Member of a Profession, Provider of Patient-Centered Care, Patient Safety Advocate, and Member of the Health Care Team. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: VNSG 1260, VNSG 1327, VNSG 1500, VNSG 1502, and VNSG 1505. Corequisites: VNSG 1361, VNSG 1334, and VNSG 1330.

VNSG 1510 Nursing in Health and Illness III
(51.3901) (3-6) 5 hours
Continuation of Nursing in Health and Illness II. Continue to focus on the role of a vocational nurse as a Member of a Profession, Provider of Patient-Centered Care, Patient Safety Advocate, and Member of the Health Care Team. Further study of common medical---surgical health problems of the client including concepts of mental illness. Incorporates knowledge necessary to make the transition from student to graduate vocational nurse. The student will compare and contrast normal physiology of body systems to pathologic variations in the adult client with common medical--- surgical health problems; compare and contrast diagnostic evaluation and treatment of the adult client with common medical---surgical health problems; incorporate nutrition, drug therapy, and nursing interventions in developing plans of care to meet the needs of the adult client experiencing common medical---surgical health problems; utilize the nursing process in caring for adults with common medical—surgical health problems and related nursing interventions; and utilize learned skills and knowledge for transition from student to graduate vocational nurse. Critical thinking exercises continue throughout this course. The capstone experience is the PN Comprehensive Predictor for vocational nurses. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: VNSG 1361, VNSG 1330, VNSG 1334 and VNSG 1509. Corequisite: VNSG 1219, VNSG 1228, VNSG, and 1363

Occupational Safety & Health Technology

www.odessa.edu/dept/occupational

Faculty: Adefela Ogunkeyede, chair; Marie Guerrero-Luera

The occupational safety and health degree is designed for people entering the safety department within their company or for those who seek employment in this demanding field. The two-year program is designed to equip the safety 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. All courses are now offered online. Visit the occupational safety and health department at www.odessa.edu/dept/occupational/

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

			Semester Hrs
Major Requirements			**41**
EPCT	1341	Principles of Industrial Hygiene	3
EPCT	1344	Environmental Sampling and Analysis	3
EPCT	2300	DOT Regulations	3
OSHT	1301	Intro to Safety & Health	3
OSHT	1309	Physical Hazards Control	3
OSHT	1313	Accident Prevention, Inspection and Investigation	3
*OSHT	1321	Fire Protection Systems	3
OSHT	2309	Safety Program Management	3
OSHT	2320	Safety Training Presentation	3
OSHT	2488	Internship – Occupational Safety and Health Technology/Technician	4
OSHT	2401	OSHA Regulations – General Industry	4
OSHT	2305	Ergonomics and Human Factors in Safety	3
SCIT	1318	Applied Physics	3
Core Requirements			**19**
BIOL	2406	Environmental Biology	4
Government/Political Science *(from OC Core)*			3
ENGL	1301	Composition I **OR**	3
ENGL	2311	Technical & Business Writing	
Social and Behavioral Sciences			3
Language, Philosophy, & Culture or Creative Arts *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II **OR**	
MATH	1324	Mathematics for Business & Social Sciences I **OR**	
MATH	1332	Contemporary Mathematics I	3
Total Semester Hours			**60**

*Approved substitute(s) for OSHT 1321: EPCT 1349 Environmental Regulation Interpretation and Applications, OSHT 1391 or 1491 Special Topics in Occupational Safety and Health Technology/Technician, OSHT 1405 OSHA Regulations – Construction Industry, or approved elective.

Course of Study for Certificate of Technology

Level I certificates are TSIA -waived.

Level I – Occupational Safety & Health Technology

			Semester Hrs
Major Requirements			**26**
EPCT	1344	Environmental Sampling and Analysis	3
EPCT	2300	DOT Regulations	3
OSHT	1301	Intro to Safety & Health	3
OSHT	1313	Accident Prevention, Inspection and Investigation	3
OSHT	2320	Safety Training Presentation Techniques	3
OSHT	2309	Safety Program Management	3
OSHT	2488	Internship – Occupational Safety and Health Technology/Technician	4
OSHT	2401	OSHA Regulations – General Industry	4
Total Semester Hours			**26**

Occupational Safety & Health Technology Courses

EPCT 1341 Principles of Industrial Hygiene
(15.0507) (3-1) 3 hours
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. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

EPCT 1344 Environmental Sampling and Analysis
(15.0507) (3-1) 3 hours
Sampling protocol, procedures, quality control, preservation technology, and field analysis. Emphasis on analysis commonly performed by the field technician. (ICOs 1, 2, 3, 6) Prerequisite: None.

EPCT 1349 Environmental Regulation Interpretation and Applications
(15.0507) (3-0) 3 hours
An in-depth study of the major federal and state environmental regulations. (ICOs 1, 2, 6) Prerequisite: None.

EPCT 2300 Department of Transportation (DOT) Regulations
(15.0507) (3-0) 3 hours
A detailed study of the United States Department of Transportation regulations with emphasis on identifying applicable regulations recommending compliance strategies in the transport of dangerous and hazardous materials. Examination of the regulatory requirements for employees and employers involved in all modes of transportation, including road, rail, aircraft, and marine vessels. Students will read, interpret and analyze the effects of such regulations and prepare the proper responses. (ICOs 1, 2, 6) Prerequisite: None.

ETWR 1302 Introduction to Technical Writing (23.1303) (3-0) 3 hours
Introduction to the principles, techniques, and skills needed for scientific, technical, and business writing. Discuss the elements of technical writing; determine the purpose of a technical document; research information; prepare an outline, construct technical documents using graphical elements. (ICOs 1, 2, 6) Prerequisite: None.

OSHT 1309 Physical Hazards Control
(15.0701) (3-0) 3 hours
A study of the physical hazards in industry and the methods of workplace design and redesign to control these hazards. Emphasis on the regulation codes and standards associated with the control of physical hazards. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 1313 Accident Prevention, Inspection, and Investigation
(15.0701) (3-0) 3 hours
Provides a basis for understanding the nature of occupational hazard recognition, accident prevention, loss reduction, inspection techniques, and accident investigation analysis. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 1321 Fire Protection Systems
(15.0701) (3-0) 3 hours
Study of fire protection systems and their applications with emphasis on the fire prevention codes and standards. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 1405 OSHA Regulations – Construction Industry
(15.0701) (3-2) 4 hours
A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to the construction industry. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 2305 Ergonomics and Human Factors in Safety
(15.0701) (3-0) 3 hours
The relationship of human behavior and ergonomics as applied to workplace safety. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 2309 Safety Program Management
(15.0701) (3-0) 3 hours
Examine the major safety management issues that affect the workplace including safety awareness, loss control, regulatory issues, and human behavior modification (ICOs: 1, 2, 4, 5, 6) Prerequisite: None

OSHT 2320 Safety Training Presentation Techniques
(15.0701) (3-0) 3 hours
Principles of developing and presenting effective industrial/business training. Emphasis on instructor qualifications and responsibilities, principles of teaching including use of teaching aids and presentation skills. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 2401 OSHA Regulations – General Industry
(15.0701) (4-0) 4 hours
A study of Occupational Safety and Health Administration (OSHA) regulations pertinent to general industry. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

OSHT 2488 Internship – Occupational Safety and Health Technology/Technician
(15.0701) (0-18) 4 hours
A work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer. (ICOs 1, 2, 5, 6) Prerequisite: None.

QCTC 1301 Total Quality Management
(15.0702) (4-0) 3 hours
The study of integrating work processes using team participation through employee empowerment and teamwork emphasizing the philosophy of customer service and satisfaction. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

SCIT 1318 Applied Physics
(40.0801) (3-0) 3 hours
Introduction to physics for industrial applications including vectors, motion, mechanics, simple machines, matter, heat, and thermodynamics.(ICOs 1, 3, 6) Prerequisite: Algebra or Trigonometry.

Office Systems Technology

www.odessa.edu/dept/office

Faculty: Sharman Adkins, Sandra Graves, Wende Ramos

The office systems technology program is designed to provide students with an intensive training in up-to-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 system technology associate in applied science degree is offered with an emphasis in office systems technology, medical. This degree provides students with a broad knowledge of office procedures, computer applications, and other automated equipment.

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

			Semester Hrs
Major Requirements			**45**
ACNT	1403	Introduction to Accounting I*	4
POFI	2440	Advanced Word Processing	4
POFI	1449	Spreadsheet	4
POFI	2401	Word Processing*	4
POFT	1301	Business English	3
POFT	1409	Administrative Office Procedures I	4
POFT	1425	Business Math Using Technology	4
ITSC	1191	Special Topics – Computer & Information Science, General	1
POFT	1429	Beginning Keyboarding	4
POFT	2303	Speed and Accuracy Building	3
ITSC			
POFT	2312	Business Correspondence & Communication	3
POFT	2465	Practicum – Admin. Assistant/ Secretarial Science, General	4
Related Requirements			**3**
HRPO	1311	Human Relations	3
Core Requirements			**15**
ENGL	2311	Technical & Business Writing	3
Language, Philosophy, & Culture or Creative Arts *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II	3
Social/Behavioral Science (*from OC Core*)			3
Speech *(from OC Core)*			3
Total Semester Hours			**60**

*Indicates courses that may be articulated by agreement with high school.

Course of Study for Certificates of Technology – Office Systems

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Office Clerk

			Semester Hrs
ACNT	1403	Introduction to Accounting I*	4
POFI	2401	Word Processing	4
POFT	1301	Business English	3
POFT	1425	Business Math Using Technology	4
POFT	1429	Beginning Keyboarding	4
ITSC	1191	Special Topics – Computer & Information Science, General	1
POFT	2303	Speed and Accuracy Building	3
Total Semester Hours			**23**

Level II – Office Assistant

The 23 semester hours specified in Level I Office Clerk Certificate plus the following courses:

			Semester Hrs
Major Requirements			**19**
POFI	2440	Advanced Word Processing	4
POFI	1449	Spreadsheet	4
POFT	1409	Administrative Office Procedures I	4
POFT	2312	Business Correspondence & Communication	3
POFT	2465	Practicum – Admin. Assistant/ Secretarial Science, General	4
Total Semester Hours			**42**

A total of 42 semester hours and a minimum grade point average of 2.0 are required for a Level II certificate.

Level I – Accounting Technician

			Semester Hrs
ACNT	1331	Federal Income Tax: Individual	3
ACNT	2303	Intermediate Accounting I	3
ACNT	1403	Introduction to Accounting I*	4
ACNT	1311	Introduction to Computerized Accounting	3
ACNT	2369	Practicum – Accounting Technician	3
POFI	1449	Spreadsheet	4
POFT	1301	Business English	3
Total Semester Hours			**23**

A total of 23 semester hours and a minimum grade point average of 2.0 are required for this Level I certificate.

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

			Semester Hrs
Major Requirements			**45**
HITT	1205	Medical Terminology I	2
HITT	2339	Health Information Organization and Supervision	3
HPRS	2321	Medical Law and Ethics for Health Professionals	3
ITSC	2421	Integrated Software Applications II	4
MRMT	1407	Medical Transcription I	4
POFM	1202	Medical Software Applications	2
POFM	1300	Basic Medical Coding	3
POFM	1417	Medical Administrative Support	4
POFM	2310	Intermediate Medical Coding	3
POFT	1425	Business Math Using Technology	4
POFT	1429	Beginning Keyboarding **or**	
POFT	2401	Intermediate Keyboarding	4
POFT	2312	Business Correspondence & Communication	3
POFT	2364	Practicum	3
SPNL	1301	Health Care Spanish	3
General Education Requirements			**15**
ENGL	2311	Technical & Business Writing	3
Language, Philosophy, & Culture or Creative Arts *(from OC Core)*			3
MATH	1333	Contemporary Mathematics II*)*	3
Social/Behavioral Sciences *(from OC Core)*			3
SPCH	1318	Interpersonal Communication	3
Total Semester Hours			**60**

A total of 60 semester hours and a grade point average of 2.0 are required for this associate in applied science degree.

*Indicates courses that may be articulated by agreement with high school.

Course of Study for Certificates of Technology – Medical Emphasis

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – Medical Office Resource Expert

			Semester Hrs
HITT	1205	Medical Terminology I	2
MRMT	1407	Medical Transcription I	4
POFM	1202	Medical Software Applications	2
POFM	1300	Basic Medical Coding	3
POFM	1417	Medical Administrative Support	4
POFT	1425	Business Math Using Technology	4
POFT	1429	Beginning Keyboarding **or**	
POFT	2401	Intermediate Keyboarding	4
SPNL	1301	Health Care Spanish	3
Total Semester Hours			**26**

A total of 26 semester hours and a minimum grade point average of 2.0 are required for a Level I certificate.

Level II – Medical Office Assistant

The 26 semester hours specified in Level I Certificate – Medical Office Clerk plus the following courses:

Major Requirements			**19**
HITT	2339	Health Information Organization and Supervision	3
HPRS	2321	Medical Law and Ethics for Health Professionals	3
ITSC	2421	Integrated Software Applications II	4
POFM	2310	Intermediate Medical Coding	3
POFT	2312	Business Correspondence & Communication	3
POFT	2364	Practicum	3
Total Semester Hours			**45**

A total of 45 semester hours and a minimum grade point average of 2.0 are required for this Level II certificate.

*Indicates courses that may be articulated by agreement with high school.

Level III (Advanced Skills Certificate) – Medical Office Specialist

Students may earn a Level III Certificate (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 or higher-level degree.

HITT	1345	Health Care Delivery Systems	3
HRPO	1311	Human Relations	3
MDCA	1409	Anatomy & Physiology for Medical Assistants	4
POFI	2440	Advanced Word Processing	4
Total Semester Hours			**14**

A total of 12 semester hours and a minimum grade point average of 2.0 are required for Level III (Advanced Skills Certificate) – Medical Office Technology Specialist.

*Indicates courses that may be articulated by agreement with high school.

Office Systems Technology Courses

ACNT 1331 Federal Income Tax: Individual
(52.1601) (3-0) 3 hours
A study of the federal tax law for preparation of individual income tax returns. (ICOs 1, 2, 3, 5) Prerequisite: None.

ACNT 2303 Intermediate Accounting I
(52.0301) (3-0) 3 hours
Analysis of generally accepted accounting principles, concepts, and theory underlying the preparation of financial statements. (ICOs 1, 2, 3) Prerequisite: None

ACNT 1403 Introduction to Accounting
(52.0302) (3-2) 4 hours
A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliations, and payroll. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

ACNT 1311 Introduction to Computerized Accounting
(52.0302) (3-2) 4 hours
Introduction to utilizing the computer in maintaining accounting records with primary emphasis on a general ledger package. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None

ACNT 2369 Practicum – Accounting Technician (52.0302)
(0-25) 3 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICOs 1, 2, 3, 4, 6) Prerequisite: Consent of department chair.

HITT 1203 Medical Terminology II
(51.0707) (2-0) 2 hours
A continuation of the study of medical terms through word origin and structure. Introduction abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. (ICOs 1, 2, 3, 4) Prerequisite: HITT 1205.

HITT 1205 Medical Terminology I
(51.0707) (2-0) 2 hours
Study of medical terms through word origin and structure. Introduction to prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures. (ICOs 1, 2, 3, 4) Prerequisite: None.

HITT 1345 Health Care Delivery Systems
(51.0707) (3-0) 3 hours
Examination of delivery systems including organization, financing, accreditation, licensure, and regulatory agencies. (ICOs 1, 2, 3, 4, 6) Prerequisite: None.

HITT 1349 Pharmacology
(51.0707) (3-0) 3 hours
Overview of the basic concepts of the pharmacological treatment of various diseases affecting major body systems. (ICOs 1, 2, 3, 4) Prerequisite: None.

HITT 2339 Health Information Organization and Supervision
(51.0707) (3-0) 3 hours
Principles of organization and supervision of human, financial, and physical resources. (ICOs 1, 2, 3, 4, 6) Prerequisite: None.

HPRS 2321 Medical Law and Ethics for Health Professionals
(51.0000) (3-0) 3 hours
Principles, procedures, and regulations governing the legal and ethical relationships among physicians, patients, and health care professionals. Includes current ethical issues related to the various healthcare professions and patient confidentiality. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

ITSC 1191 Special Topics in Computer and Information Sciences, General
(11.0101) (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. This course was designed to be repeated multiple times to improve student proficiency. The student will learn to use the Internet including performing simple searches, learn how to use the Microsoft Suite of application software, and how to organize file and folders. Lab fee required. (ICOs 1, 3, 6) Prerequisite: None.

ITSC 2421 Integrated Software Applications II
(11.0101) (3-2) 4 hours
Intermediate 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. Keyboarding skills recommended. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

POFI 1449 Spreadsheets
(52.0407) (3-2) 4 hours
Skill development in concepts, procedures, and application of spreadsheets. This course is designed to be repeated multiple times to improve student proficiency. Lab fee required. (ICOs 1, 2, 3) Prerequisite: Basic computer skills.

POFI 2401 Word Processing
(52.0407) (3-2) 4 hours
Word-processing software focusing on business applications. This course is designed to be repeated multiple times to improve student proficiency. (ICOs 1, 2, 5) Prerequisite: Basic keyboarding skills.

POFI 2440 Advanced Word Processing
(52.0407) (3-2) 4 hours
Advanced word processing techniques using merging, macros, graphics, and desktop publishing. Includes extensive formatting for technical documents. This course is designed to be repeated multiple times to improve student proficiency. Emphasis on business applications. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: POFI 2401.

POFL 1305 Legal Terminology
(22.0301) (3-0) 3 hours
This course presents an overview of legal terminology and how these terms are used in legal documents. (ICOs 1, 2) Prerequisite: None.

POFM 1202 Medical Software Applications
(51.0716) (1-2) 2 hours
Medical software applications for the management and operation of health care information systems. Lab fee required. (ICOs 1, 2, 3) Prerequisite: None.

POFM 1300 Basic Medical Coding
(51.0716) (3-0) 3 hours
Presentation and application of basic coding rules, principles, guidelines, and conventions utilizing various coding systems. (ICOs 1, 2, 3, 4) Recommended: HITT 1205.

POFM 1417 Medical Administrative Support
(51.0716) (3-2) 4 hours
Instruction in medical office procedures including appointment scheduling, medical records creation and maintenance, telephone communications, coding, billing, collecting, and third party reimbursement. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

POFM 2310 Intermediate Medical Coding
(51.0716) (3-0) 3 hours
Assignment and application of various coding guidelines with emphasis on physician billing and regulatory requirements. Includes code selection for Evaluation and Management (E/M) and Medical/Surgical cases. (ICOs 1, 2, 3, 4) Prerequisite: POFM 1300.

POFM 2364 Practicum – Medical Administrative/Executive Assistant and Medical Secretary
(51.0716) (0-25) 3 hours
As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of department chair.

POFT 1301 Business English
(52.0501) (3-0) 3 hours
Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. (ICOs 1, 2) Prerequisite: None.

POFT 1409 Administrative Office Procedures I
(52.0401) (3-2) 4 hours
Study of current office procedures, duties, and responsibilities applicable to an office environment. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisites: Basic Key Boarding Skills

POFT 1425 Business Math Using Technology
(52.0408) (3-2) 4 hours
Skill development in business math problem-solving using electronic technology. Lab fee required. (ICOs 1, 2, 3) Prerequisite: None.

POFT 1429 Beginning Keyboarding
(52.0408) (3-2) 4 hours
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. (ICOs 1, 2, 3) Prerequisite: None.

POFT 2303 Speed and Accuracy Building
(52.0408) (2-3) 3 hours
Review, correct, improve, and improve keyboarding techniques for the purpose of increasing speed and improving accuracy. This course is designed to be repeated multiple times to improve student proficiency. Lab fee required. (ICOs 1, 2, 3) Prerequisite: Basic keyboarding skills.

POFT 2312 Business Correspondence & Communication
(52.0501) (3-0) 3 hours
Development of writing and presentation skills to produce effective business communications. (ICOs 1, 2, 3, 4, 5) Prerequisites: POFT 1301.

POFT 2465 Practicum – Administrative Assistant/ Secretarial Science, General
(52.0401) (0-28) 4 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. General training and experiences take place in a workplace. The college along with the employer develop and document an individualized plan for the student. The plan relates the workplace training and experience to the student's general and technical course of study. (ICOs 1, 2, 3, 5, 6) Prerequisite: Consent of department chair.

SPNL 1301 Health Care Spanish
(16.0905) (3-0) 3 hours
Development of practical Spanish communication skills for the health care employee including medical terminology, greetings, common expressions, commands, and phrases normally used within a hospital or a physician's office. (ICOs 1, 2) Prerequisite: None.

Paralegal Studies

(Formerly Legal Assistant)

www.odessa.edu/dept/paralegal

Faculty: Kayla Zeigenbein

The paralegal studies 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 paralegal 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 paralegal studies 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 paralegal studies program will transfer.

Course of Study for Associate in Applied Science Degree – Paralegal Studies

Major Requirements			**32**
LGLA	1301	Legal Research and Writing	3
LGLA	1313	Introduction to Paralegal Studies	3
LGLA	1323	Employment Law	3
LGLA	1345	Civil Litigation	3
LGLA	1353	Wills, Trusts and Probate Administration	3
LGLA	1355	Family Law	3
LGLA	2239	Certified Paralegal Exam Review	2
LGLA	2303	Torts and Personal Injury Law	3
LGLA	2313	Criminal Law and Procedure	3
LGLA	2333	Advanced Legal Document Preparation	3
LGLA	2366	Practicum	3
Related Requirements			**13**
POFI	2401	Word Processing	4
POFL	1305	Legal Terminology	3
POFT	2303	Speed & Accuracy Building	3
POFT	2312	Business Correspondence And Communication	3
General Education Requirements			**15**
ENGL	2311	Technical & Business Writing	3
MATH	1333	Contemporary Mathematics II	3
GOVT	2306	Texas Government	3
Social/Behavioral Science (*from OC Core*)			3
Language, Philosophy, & Culture OR Creative Arts (*from OC Core*)			3
Total Semester Hours			**60**

Course of Study for Certificates of Completion

Level I certificates are TSIA-waived.

Level I – Paralegal

Major Requirements			**16**
LGLA	1301	Legal Research and Writing	3
LGLA	1313	Introduction to Paralegal Studies	3
POFI	2401	Word Processing	4
POFL	1305	Legal Terminology	3
POFT	2303	Speed & Accuracy Building	3
Total Semester Hours			**16**

A total of 16 semester hours and a minimum grade point average of 2.0 are required for a Level I certificate.

Level II – Advanced Paralegal

The 16 semester hours specified in Level I Certificate — Paralegal plus the following courses are required.

Major Requirements			**18**
LGLA	1345	Civil Litigation	3
LGLA	1353	Wills, Trusts and Probate Administration	3
LGLA	1355	Family Law	3
LGLA	2303	Torts and Personal Injury Law	3
LGLA	2333	Advanced Legal Document Preparation	3
LGLA	2366	Practicum	3
Total Semester Hours			**34**

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

Paralegal Studies Courses

LGLA 1301 Legal Research and Writing
(22.0302) (2-2) 3 hours
Presents the fundamentals of legal research and writing emphasizing the paralegal's role including resources and processes used in legal research and writing. (ICOs 1, 2, 3, 6) Prerequisite: None.

LGLA 1313 Introduction to Paralegal Studies
(22.0302) (3-0) 3 hours
An overview of the paralegal profession including, professional regulation, trends and issues, ethical obligations, and the paralegal's role in the delivery of legal services. (ICOs 1, 2, 4, 5) Prerequisite: None.

LGLA 1323 Employment Law
(22.0302) (3-0) 3 hours
Presents the fundamental concepts of employment law, including employment contracts, at-will employment, governmental regulations, and discrimination issues, emphasizing the paralegal's role in employment law. (ICOs 2, 3, 5, 6) Prerequisite: None.

LGLA 1345 Civil Litigation
(22.0302) (3-0) 3 hours
Presents fundamental concepts and procedures of civil litigation including pretrial, trial, and post-trial phases of litigation and emphasizes paralegal's role in civil litigation. (ICOs 1, 2, 3, 5, 6) Prerequisite: None.

LGLA 1353 Wills, Trusts and Probate Administration
(22.0302) (3-0) 3 hours
Fundamental concepts of the law of wills, trusts, and probate administration emphasizing the paralegal's role. (ICOs 1, 2, 6) Prerequisite: None.

LGLA 1355 Family Law
(22.0302) (3-0) 3 hours
Fundamental concepts of family law including formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship with emphasis on the paralegal's role in family law. (ICOs 1, 6) Prerequisite: None.

LGLA 2239 Certified Paralegal Exam Review
(22.0302) (2-0) 2 hours
A review of the mandatory and optional topics covered in the Certified Paralegal Examination administered by the National Association of Legal Assistants. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

LGLA 2303 Torts and Personal Injury Law
(22.0302) (3-0) 3 hours
Fundamental concepts of tort and personal injury law including intentional torts, negligence, and strict liability with emphasis on the paralegal's role. (ICOs 1, 2, 6) Prerequisite: None.

LGLA 2313 Criminal Law and Procedure
(22.0302) (3-0) 3 hours
Fundamental concepts of criminal law and procedure from arrest to final disposition including principles of federal and state law emphasizing the role of the paralegal in the criminal justice system. (ICOs 1, 3, 6) Prerequisite: None.

LGLA 2333 Advanced Legal Document Preparation
(22.0302) (3-0) 3 hours
Use of office technology skills in preparation of legal documents by paralegals based on hypothetical situations drawn from various areas of law. (ICOs 2) Prerequisite: None.

LGLA 2366 Practicum –Legal Assistant /Paralegal
(22.0302) (0-25) 3 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of instructor.

Photography

www.odessa.edu/dept/photo

Faculty: Steve Goff, chair

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

Course of Study for Associate in Applied Science Degree – Photography

			Semester Hrs
General Education Requirements			**15**
ENGL	1301	Composition I	3
Math	1333	Contemporary Mathematics	3
COMM	1307	Intro to Mass Communication	3
Component Area Option (*from OC Core*)			3
Communication (*from OC Core*)			3
Major Requirements			**45**
ARTS	2348	Digital Art I	3
ARTS	2349	Digital Art II	3
ARTS	2356	Photography I	3
ARTS	2357	Photography II	3
PHTC	1313	History of Photography	3
PHTC	1341	Color Photography I	3
PHTC	1343	Expressive Photography	3
PHTC	1345	Illustrative Photography I	3
PHTC	1353	Portraiture I	3
PHTC	2301	Intermediate Photography	3
PHTC	2340	Photographic Studio Mgmt.	3
PHTC	2341	Color Photography II	3
PHTC	2353	Portraiture II	3
PLUS **two** course from the following list			6
PHTC	1347	Landscape Photography	
PHTC	1351	Photojournalism I **or**	
PHTC	2331	Architectural Photography	
Total Semester Hours			**60**

Courses of Study for Certificates of Completion

Courses of Study for Certificates of Completion
Level I certificates are TSI-waived.

Level I – Photo Lab Assistant

			Semester Hrs
ARTS	2356	Photography I	3
ARTS	2348	Digital Art I	3
ARTS	2357	Photography II	3
PHTC	1341	Color Photography I	3
PHTC	2301	Intermediate Photography	3
PHTC	2341	Color Photography II	3
Total Semester Hours			**18**

Level I – Digital Imaging Assistant

			Semester Hrs
ARTS	2356	Photography I	3
ARTS	2348	Digital Art I	3
ARTS	2349	Digital Art II	3
ARTS	2357	Photography II	3
PHTC	1341	Color Photography I	3
PHTC	2341	Color Photography II	3
Total Semester Hours			**18**

Level I – Portrait Studio Assistant

			Semester Hrs
ARTS	2348	Digital Art I	3
ARTS	2349	Digital Art II	3
ARTS	2356	Photography I	3
ARTS	2357	Photography II	3
PHTC	1341	Color Photography I	3
PHTC	1353	Portraiture I	3
PHTC	2301	Intermediate Photography	3
PHTC	2341	Color Photography II	3
PHTC	2353	Portraiture II	3
Total Semester Hours			**27**

Photography Courses

ARTS 2348 Digital Art I
(50.0402.52026) (2-4) 3 hours
Studio art courses that explore the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. 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. (ICOs 1, 4) Prerequisite: None.

ARTS 2349 Digital Art II
(50.0402.52026) (2-4) 3 hours
Studio art courses that explore the potential of the computer hardware and software medium for their visual, conceptual, and practical uses in the visual arts. Continued skill development in the use of the computer for retouching, copying, photographic restoration, color correction, data importation, composite imaging, and background dropout and replacement. Students will utilize layout and design programs such as Adobe Photoshop, Adobe Illustrator, Adobe PageMaker and/or Quark Express. Lab fee required. (ICOs 1, 4) Prerequisite: ARTS 2348.

ARTS 2356 Photography I
(50.0605.5126) (2-4) 3 hours
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. (ICOs 1, 2, 4) Prerequisite: None.

ARTS 2357 Photography II
(50.0605.5226) 2-4) 3 hours
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. (ICOs 1, 2, 4) Prerequisite: ARTS 2356 or its equivalent.

PHTC 1313 History of Photography
(50.0406) (3-0) 3 hours
A historical survey of the technical and aesthetic development of photography. Topics include the beginnings of the medium, inventors, development of photographic equipment, styles of the creative masters, aesthetic themes, and the social impact of photography. (ICOs 6) Prerequisite: None.

PHTC 1341 Color Photography I
(50.0406) (2-4) 3 hours
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. (ICOs 1, 4) Prerequisite: ARTS 2356.

PHTC 1343 Expressive Photography
(50.0406) (2-4) 3 hours
A study of formal, professional, and individual uses of photography by applying photographic technology to personalized needs. Emphasis on creative visual thinking and problem solving and the exploration of personal vision. Lab fee required. (ICOs 1, 4) Prerequisite: ARTS 2348.

HTC 1345 Illustrative Photography I
(50.0406) (2-4) 3 hours
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. (ICOs 1) Prerequisite: ARTS 2348 or PHTC 1300.

PHTC 1347 Landscape Photography
(50.0406) (2-4) 3 hours
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. Special travel fee may be required. Lab fee required. (ICOs 4, 6) Prerequisite: ARTS 2348

PHTC 1351 Photojournalism I
(50.0406) (2-4) 3 hours
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. (ICOs 1, 2, 5, 6) Prerequisite: ARTS 2356.

PHTC 1353 Portraiture I
(50.0406) (2-4) 3 hours
Skill development in the photographic principles of portrait lighting, posing, 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. (ICOs 1, 3, 5) Prerequisite: ARTS 2348.

PHTC 2301 Intermediate Photography
(50.0406) (2-4) 3 hours
Continuation of "Fundamentals of Photography." Emphasizes social, portrait, studio, fashion, theatrical, publicity, and event photography. Students will select appropriate photo supplies and equipment for shooting assignments. Lab fee required. (ICOs 1, 4, 6) Prerequisite: ARTS 2348.

PHTC 2331 Architectural Photography
(50.0406) (2-4) 3 hours
Study of the equipment, processes, and procedures necessary for the photography of building exteriors and interiors, dusk/night and night architectural landscapes, and construction progress. Lab fee required. (ICOs 1, 4, 6) Prerequisite: ARTS 2356 or PHTC 1345.

PHTC 2340 Photographic Studio Management (50.0406)
(3-0) 3 hours
In-depth study of photography business management, pricing, market analysis, promotion, networking, job acquisition, and photographic equipment analysis. (ICOs 4, 5) Sophomore standing.

PHTC 2341 Color Photography II
(50.0406) (2-4) 3 hours
Advanced skill development in color image production. Emphasis on use of specialized color techniques and applications. Lab fee required. (ICOs 1, 4) Prerequisite: PHTC 1341.

PHTC 2353 Portraiture II
(50.0406) (2-4) 3 hours
Advanced concepts in the study of principles of effective portraiture with specific emphasis on unique presentation and environmental and location studies Lab fee required. (ICOs 1, 3, 5) Prerequisite: PHTC 1353.

Kinesiology and Exercise Science

www.odessa.edu/dept/PHED

Faculty: Jon Staton, chair

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 that will best contribute to their well-being, their leisure-time skills and to their total educational development. The physical education department offers three options for the associate degree.

Course of Study for Associate in Science Degree

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Compositions	3
Communication (*from OC Core*)			3
Math (*from OC Core*)			3
BIOL	1406	General Biology I	4
BIOL	1407	General Biology II	4
Language, Philosophy & Culture (*from OC Core*)			3
Creative Arts (*from OC Core*)			3
HIST	1301	US History I	3
HIST	1302	US History II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
Social & Behavioral Sciences (*from OC Core*)			3
KINE	1166	First Aid	1
BCIS	1305	Business Computer Applications	3

In addition to the 46 hours listed above, the student must complete the major requirements for one of the following options: Exercise and Sports Science, Physical and Health Education (new), or Sports Medicine (formerly Athletic Training).

Exercise & Sports Science Option

Major Requirements			**18**
FITT	1161	Practicum – Health & PE	1
KINE	1100	Lifestyle Assessment & Mod	1
KINE	1106	Walking/Jogging	1
KINE	1111	Beginning Weight Training	1
KINE	1112	Adaptive Personalized Fitness	1
KINE	1113	Advanced Weight Training	1
KINE	1206	First Aid	2
KINE	1301	Introduction to Physical Fitness and Sport	3
KINE	1304	Personal/Community Health I	3
KINE	1338	Concepts of Physical Fitness	3
HPRS	1106	Medical Terminology	1
Total Semester Hours			**60**

The Exercise and Sports Science degree provides a pathway to a career as a fitness specialist and leads to the NETA Personal Trainer Certification.

Sports Medicine Option

Formerly Athletic Training

Major Requirements			**18**
KINE	1100	Lifestyle Assessment and Mod	1
KINE	1106	Jogging/Walking	1
KINE	1111	Beginning Weight Training	1
KINE	1206	First Aid	2
KINE	1171	Athletic Training Clinical Practicum	1
KINE	1301	Introduction to Physical Fitness & Sport	3
KINE	1304	Personal Community Health I	3
KINE	2156	Taping and Bandaging	1
KINE	2171	Athletic Training Clinical Practicum II	1
KINE	2356	Care and Prevention of Athletic Injuries	3
HRPS	1106	Medical Terminology	1
Total Semester Hours			**60**

The sports medicine 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 sports medicine 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

KINE 1100 Lifestyle Assessment and Modification
(36.0108.5123) (0-3) 1 hour
Provides learning opportunities to introduce and maintain higher education health standards. Includes assessment of cardiovascular endurance, muscular strength and endurance, flexibility, body composition, nutrition, stress and blood pressure. Students will select and participate in physical activities which will produce desired physical results. This course culminates with an individualized lifelong wellness plan. Lab fee required. (ICOs 1, 3, 5) Prerequisite: None.

KINE 1101 Aerobic Dance
(36.0108.5123) (0-3) 1 hour
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. (ICOs 1, 3, 4, 5) Prerequisite: None.

KINE 1103 Defensive Tactics
(36.0108.5123) (0-3) 1 hour
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. (ICOs 1, 5) Prerequisite: None.

KINE 1106 Jogging/Walking
(36.0108.5123) (0-3) 1 hour
A computer-monitored, instructor-guided program to enhance cardiovascular fitness through jogging and/or walking. Students will perform basic calculations to determine appropriate target heart rate zones. Students will establish fitness goals and select appropriate activities to attain these goals. Pre- and post-assessments will allow students to monitor progress toward their fitness goals. Includes a preliminary one-time, two-hour orientation. Lab fee required. (ICOs 1, 3, 5) Prerequisite: None.

KINE 1107 Judo/Karate
(36.0108.5123) (0-3) 1 hour
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. (ICOs 1, 5) Prerequisite: None.

KINE 1108 Physical Conditioning, Aerobic
(36.0108.5123) (0-3) 1 hour
Combines weightlifting with aerobic activities in a structured, formatted conditioning program that trains the whole body. Options include Muscle Cuts, Step Aerobics, Zumba or other specialty courses offered in the department. Orientation and physical assessments enable students to personalize their workouts and help them attain their fitness goals. Workouts may be computer-monitored and instructor-enhanced. Includes a one-time, two-hour orientation. Lab fee required. (ICOs 2, 3, 4) Prerequisite: None.

KINE 1109 Physical Conditioning, Aerobic-Advanced
(36.0108.5123) (0-3) 1 hour
Combines weightlifting with aerobic activities in a structured, formatted conditioning program that trains the whole body. Options include Muscle Cuts, Step Aerobics, Zumba or other specialty courses offered in the department. Orientation and physical assessments enable students to personalize their workouts and help them attain their fitness goals. Workouts may be computer-monitored and instructor-enhanced. Includes a one-time, two-hour orientation. Lab fee required. (ICOs 2, 3, 4) Prerequisite: KINE 1108.

KINE 1111 Weight Training
(36.0108.5123) (0-3) 1 hour
Emphasizes increasing strength through proper techniques of lifting and weight training. Orientation and physical assessments enable students to personalize their workouts and help them attain their fitness goals. Students will perform basic calculations to determine appropriate workload, volume, sets, repetitions, intensity, progression and recovery to meet their fitness goals. Includes a preliminary one-time, two-hour orientation. Lab fee required. (ICOs 1, 3, 5) Prerequisite: Must be at least 16 years old.

KINE 1112 Adaptive Personalized Fitness
(36.0108.5123) (0-3) 1 hour
This course consists of three major components, (1) cardiovascular conditioning, (2) strengthening exercises, and (3) range of motion stretching and relaxation techniques. This class is designed to introduce physically challenged students (P.C.S.) to a variety of physical activities including rhythmical movement, aquatics, hydro-fitness (resistance training), walking/jogging. P.C.S. are defined as students with temporary injuries, severely obese individuals (over 40% body fat percentage) and permanently disabled students. These individuals will be assessed and given an individualized exercise program. May be repeated for credit. Lab fee required. (ICOs 1, 4, 5) Prerequisite: Approval by the department chair.

KINE 1113 Weight Training, Advanced
(36.0108.5123) (0-3) 1 hour
Continued improvement in strength and flexibility and the opportunity to develop specific muscle groups. Lab fee required. (ICOs 1, 3, 5) Prerequisite: KINE 1111 or consent of the instructor.

KINE 2100 Cardio Kickboxing
(36.0108.5123) (0-3) 1 hour
This course combines boxing and martial arts techniques into an exhilarating form of cardiorespiratory, muscular strength, and muscular endurance training. Additionally, the course will focus on improving flexibility. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6). Prerequisite: None.

KINE 2101 Zumba
(36.0108.5123) (0-3) 1 hour
This course will enable the student to participate in moderate Zumba group exercise that combines a fusion of high energy. Latin and international music with unique moves and combinations. The student will experience dynamic routines that feature aerobic fitness interval training with a combination of fast and slow rhythms that tome and sculpt the body. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6). Prerequisite: None.

KINE 2102 Hip Hop
(36.0108.5123) (0-3) 1 hour
This is an introductory course geared towards those with little or no jazz/hip hop dance experience. Students can expect to learn the fundamentals of dance techniques through warm ups, center and across the floor combinations. Students will also learn anatomical terms, jazz and hip hop dance history and dance vocabulary. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6). Prerequisite: None.

KINE 2103 Drums Alive
(36.0108.5123) (0-3) 1 hour
Combines traditional aerobic movements with the powerful beat and rhythm of the drums. Pulsating rhythms, dynamic movements and powerful percussions to a high-energy dance and rhythm program. A unique sensory-motor drumming program involving drum sticks, and exercise ball, and music. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6). Prerequisite: None.

KINE 2104 Spinning
(36.0108.5123) (0-3) 1 hour
A total-body conditioning program emphasizing cardiovascular endurance, designed to give basic understanding of the principles of spinning. Students will perform basic calculations to determine appropriate target heart rate zone and establish personal fitness goals. Lab fee required. (ICOs 1, 3, 4, 5, 6). Prerequisite: None.

KINE 2108 Yoga
(36.0108.5123) (0-3) 1 hour
Learn how to practice the art of yoga to increase your own strength, resilience and energy. Students will participate in specific exercises, breathing techniques and variations of yoga poses designed to build strength, flexibility and a relaxed spine. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

Lifetime Activities

KINE 1114 Beginning Horsemanship
(36.0108.5123) (0-3) 1 hour
Basic methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: Consent of instructor.

KINE 1115 Intermediate Horsemanship
(36.0108.5123) (0-3) 1 hour
Intermediate methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: KINE 1114 or consent of instructor.

KINE 2116 Advanced Horsemanship
(36.0108.5123) (0-3) 1 hour
Advanced methods and techniques for various riding events such as rodeo, drill, show and speed horses. The course will cover rider preparation for performance, basic equipment and riding style. Lab fee required. (ICOs 1, 4, 5) Prerequisite: KINE 1115 or consent of instructor.

KINE 1117 Bowling
(36.0108.5123) (0-3) 1 hour
The student will learn the mechanics of the approach, release and execution of three different styles of bowling. The course will also cover scorekeeping (automated and manual), pin and spot bowling, point of aim, rules, etiquette, and fun competitive games. Lab fee required. (ICOs 3, 5) Prerequisite: None.

KINE 1118 Social Dance
(36.0114.5123) (0-3) 1 hour
Includes instruction in basic dance skills, positions, rhythms, steps and formation, i.e. country western (cotton-eyed Joe, two-step, waltz, polka, and schottische), line dancing, and conventional ballroom as well as most current and most popular dances. Lab fee required. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1119 Golf
(36.0108.5123) (0-3) 1 hour
The student will learn the basic fundamentals of golf including grip, putting, chipping, and full swing. The course will cover a basic understanding of rules, etiquette, and types of competitive play available to the golfer. Lab fee required. (ICOs 1, 3, 5) Prerequisite: None.

KINE 1121 Racquetball
(36.0108.5123) (0-3) 1 hour
Instruction in and development of fundamental skills such as basic strokes, basic shots, serve, court positioning, rules and variations of the game. Lab fee required. (ICOs 1, 3, 5) Prerequisite: None.

KINE 1124 Tennis, Beginning
(36.0108.5123) (0-3) 1 hour
Emphasizes beginning skills in execution of forehand and backhand strokes, the serve and the volley. Includes rules, strategies and etiquette in both singles and doubles. Lab fee required. (ICOs 1, 5) Prerequisite: None.

KINE 1126 Outdoor Education
(36.0108.5123) (0-3) 1 hour
The fundamentals in camping, hiking and backpacking activities will include utilizing proper preparation and techniques. Students will learn the safety aspects as well as survival and emergency skills. Equipment and site selection will be stressed along with learning how to get the best physical benefits. Students will be able to use the skill during various activities throughout the semester. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

KINE 1127 Pilates
(36.0108.5123) (0-3) 1 hour
This course will enable the student to participate in modern Pilate exercise routines for body and mind fitness. Pilates develops a strong core or center of the body through body awareness, good posture and easy, graceful movement while improving flexibility, agility and economy of motion. Lab fee required. (ICOs 1, 2, 3, 5) Prerequisite: None.

Team Sports

KINE 1128 Basketball, Men's
(36.0108.5123) (0-3) 1 hour
Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific basketball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1129 Basketball, Women's
(36.0108.5123) (0-3) 1 hour
Presents rules of the sport while emphasizing individual and team fundamentals. The class teaches individuals how to contribute to a group effort and how to recognize specific basketball problems and devise strategies to overcome those problems. In addition, participants are encouraged to set individual and team goals and exert effort necessary to accomplish those goals. Lab fee required. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1131 Football, Touch
(36.0108.5123) (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 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. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1132 Rodeo
(36.0108.5123) (0-3) 1 hour
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. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1133 Softball
(36.0108.5123) (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. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1134 Volleyball
(36.0108.5123) (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 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. (ICOs 1, 4, 5) Prerequisite: None.

Aquatics

KINE 1148 Fitness Swimming
(36.0108.5123) (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. (ICOs 1, 3, 5) Prerequisite: The ability to execute the five basic swimming strokes in deep water.

KINE 1150 Water Aerobics
(36.0108.5123) (0-3) 1 hour
Personal instruction, in an aquatic environment, which emphasizes muscle tone, strength, flexibility and cardiovascular endurance. Emphasis is placed on learning exercises, calculation of individual target heart rates and in developing a routine. Each student will design and lead the class in the routine he or she has developed. Includes a preliminary one-time orientation. Lab fee required. (ICOs 1, 3, 4, 5) Prerequisite: None.

KINE 1151 Scuba Diving
(36.0108.5423) (0-3) 1 hour
Participation and instruction in advanced aquatic activities. The course includes instruction in the proper use of equipment, safety, physiology and open water diving. Drills are performed under water as to how divers can work together in assisting one another in dangerous situations. Students completing course will receive certification. Special fee may be required. (ICOs 1, 4, 5) Prerequisite: Demonstrated swimming abilities.

KINE 1153 Red Cross Life Saving
(36.0108.5323) (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. (ICOs 1, 4, 5) Prerequisite: Advanced swimming skills.

Competitive Athletics

KINE 1130/1135 Cheerleading, Varsity
(0-3) (36.0108.5123) 1 hour
Introduces basic skills and techniques of cheerleading such as partner stunts, incorporation of pyramids, safety techniques and jumps. By participating as a team, individuals learn how to cooperate with other team members in solving problems and in motivating a crowd. Performing at athletic events permits the individuals an opportunity to exhibit responsibility as well as to build self-esteem. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1116/1136 Baseball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced baseball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1120/1137 Basketball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced basketball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1122/1138 Golf, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced golfers competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1123/1139 Rodeo, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced participants in rodeo competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1140/1142 Softball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced softball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1110/1143 Cross Country, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced participants in cross country competing on the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5)

KINE 1144/1146 Dance, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced dance participants competing on the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1145/1149 Volleyball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced volleyball participants. Inter-school competition between advanced volleyball players at the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 1171 Athletic Training Clinical Practicum I
(31.0505.7323) (1-20) 1 hour
Designed to satisfy the first-year practical experience of the athletic training student. Students will be instructed in documentation preparation, record keeping, and evaluation in the athletic training room. Students will experience individual and team “hands on” preparation in the areas of competition/practice preparation, competition/practice, and therapeutic settings. Students will be taught to recognize problems and design a plan of action for services such as, but not limited to, taping, bandaging, illness/injury evaluation, first aid emergency care, rehabilitation and related services. An ethical course of action will be stressed throughout the course. This course is under the supervision of a NATA-certified and state of Texas-licensed athletic trainer. (ICOs 1, 2, 3, 4, 5) Prerequisite: Admission to the student athletic training program and consent of the instructor.

KINE 2130/2131 Cheerleading, Varsity
(0-3) (36.0108.5123) 1 hour
Introduces basic/advanced skills and techniques of cheerleading such as partner stunts, incorporation of pyramids, safety techniques and jumps. By participating as a team, individuals learn how to cooperate with other team members in solving problems and in motivating a crowd. Performing at athletic events permits the individuals an opportunity to exhibit responsibility as well as to build self-esteem. (ICOs 1, 4, 5) Prerequisite: KINE 1130.

KINE 2135/2136 Baseball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced baseball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2137/2147 Basketball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced basketball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2138/2148 Golf, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced golfers competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2129/2139 Rodeo, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced participants in rodeo competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2132/2142 Softball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced softball players competing on collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2143/2149 Cross Country, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced participants in cross country competing on the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: KINE 1143 and/or Consent of the instructor.

KINE 2140/2144 Dance, Varsity
(36.0108.5123) (0-3) 1 hour
Continuation of KINE 1144 for the second year dance participant. Students will be taught to apply new knowledge and skills to improve individual and team performance. An understanding of the team concept and team unity will be stressed. (ICOs 1, 4, 5) Prerequisite: KINE 1144.

KINE 2145/2146 Volleyball, Varsity
(36.0108.5123) (0-3) 1 hour
Designed for advanced volleyball participants. Inter-school competition between advanced volleyball players at the collegiate level. Students will be taught to apply new knowledge and skills to improve individual and team performance. (ICOs 1, 4, 5) Prerequisite: Consent of the instructor.

KINE 2171 Athletic Training Clinical Practicum II
(31.0505.7423) (1-20) 1 hour
Continuation of KINE 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. (ICOs 1, 2, 3, 4, 5) Prerequisites: KINE 1171 and/or consent of the instructor.

Kinesiology and Exercise Science Lecture Courses

FITT 1164 Health and Physical Education, General Practicum
(31.0501) (0-8) 1 hour
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICOs 1, 2, 4, 5) Prerequisites: KINE 1301, KINE 1306, KINE 1338.

KINE 1166 First Aid
(51.1504.5316) (0-1) 1 hour
Instruction in and practice of first aid techniques. Prerequisite: None. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisites: Proof of admission into an allied health program and consent of instructor.

KINE 1206 First Aid
(51.1504.53 16) (2-0) 2 hours
Instruction in and practice of first aid techniques. Prerequisite: None.

KINE 1301 Introduction to Physical Fitness & Sport
(31.0501.5223) (3-0) 3 hours
Orientation to the field of physical fitness and sport. Includes the study and practice of activities and principles that promote physical fitness. An introduction to core concepts of physical fitness and healthy behavior for complete lifetime fitness, wellness, and sport. Emphasis is placed on understanding and practice of the foundations and principles of physical fitness and sport that promote physical fitness, basics of personal health, and major contemporary health issues; identifying activities and skills relevant to program development in physical fitness and sport; demonstrating leadership skills in group discussions and activities pertinent to program development consistent with the goal of behavior modification, reinforcing positive personal characteristics consistent with ethical and social aspects of physical fitness and sport. Students will complete a personal fitness program to demonstrate experiential knowledge of the concepts as well as textbook knowledge by applying the fitness and wellness concepts to their own life during the course of the semester. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

KINE 1304 Personal/Community Health I
(51.1504.5116) (3-0) 3 hours
Investigation of the principles and practices in relation to personal and community health. Provides instruction in the study of body organs and systems and health concepts and problems. Emphasis is places 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 positive social characteristics when dealing with people, public, and community health concerns. (ICOs 1, 2, 3, 4, 5) Prerequisite: None.

KINE 1305 Personal/Community Health II
(51.1504.5116) (3-0) 3 hours
This course investigates the principles and practices in relation to personal and community health. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: None.

KINE 1306 First Aid
(51.1504.5316) (3-0) 3 hours
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. (ICOs 1, 2, 4, 5, 6) Prerequisite: None.

KINE 1308 Sports Officiating I
(31.0101.5123) (2-2) 3 hours
Provides instruction in effective officiating methods and techniques for sports such as baseball, basketball and track. Emphasis is place on rules interpretation and the positive communication of that 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. (ICOs 1, 4, 5) Prerequisite: None.

KINE 1309 Sports Officiating II
(31.0101.5123) (2-2) 3 hours
Continues instruction in effective officiating methods and techniques for sports such as baseball, basketball and track. Emphasis is place on rules interpretation and the positive communication of that 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. (ICOs 1, 4, 5) Prerequisite: KINE 1308.

KINE 1321 Coaching/Sports/Athletics I
(31.0505.5123) (2-2) 3 hours
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 ethical standards and responsibility for team actions, and clearly demonstrate skills necessary for effective communication and motivation of the team. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of the instructor.

KINE 1322 Coaching/Sports/Athletics II
(31.0505.5123) (2-2) 3 hours
Continues fundamental skills, individual and team play, organization of practices and handling of teams during the competitive season for sports such as baseball, basketball and track. Lab fee required. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of the instructor.

KINE 1332 Game Skills for Equestrian Sports and Recreation
(31.0101.5123) (2-1) 3 hours
The survey and development of skills necessary to perform equine sporting and recreational activities. This is a lecture/lab course covering rules and skills of many horseback games, from judged events to timed events such as polo, cutting, reining, western pleasure, barrel racing, pole bending, working cow horse, dressage, and jumping. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of the instructor.

KINE 1338 Concepts of Physical Fitness
(31.0501.5123) (3-0) 3 hours
Concepts and use of selected physiological variables of fitness, individual testing and consultation, and the organization of sports and fitness programs. Course includes: fitness assessment, fitness testing, fitness prescription, fitness program design. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: KINE 1301.

KINE 1346 Drug Use and Abuse
(51.1504.5216) (3-0) 3 hours
Provides instruction in the current use and abuse of drugs in today's society. Emphasis is placed on physiological, sociological and psychological factors involved in the use and abuse of drugs. This course also will include instruction in the personal, legal and societal consequences of substance abuse. (ICOs 1, 4, 5, 6) Prerequisite: None.

KINE 2156 Taping and Bandaging
(51.0913.5116) (0-1) 1 hour
This course provides the fundamental taping and bandaging techniques used in the prevention and care of athletic related injuries. This course is designed to provide formal instruction in the psychomotor skills and clinical/practicum proficiencies required of the pre-professional athletic training student, with an emphasis on taping and wrapping sports related injuries. Lab fee required. (ICOs 1, 3, 4, 5) Prerequisite: KINE 2356.

KINE 2356 Care & Prevention of Athletic Injuries
(51.0913.5216) (3-0) 3 hours
Prevention and care of athletic injuries with emphasis on qualities of a good athletic trainer, avoiding accidents and injuries, recognizing signs and symptoms of specific sports injuries and conditions, immediate and long-term care of injuries, and administration procedures in athletic training. Provides instruction in the study of the athletic training room and its problems, including massage, taping, bandaging, care of sprains, strains, and wounds common to athletic participation. Emphasis is placed on basic administrative procedures and written record-keeping skills, management of time and materials necessary for the proper function of the training room, participation and service to clients served by the athletic trainer, acquisition and evaluation of information relative to injury assessment and prevention of athletic injury, proper communication of care and rehabilitation of athletic injuries, demonstration of problem-solving and decision-making skills relative to injury care and management, and maintenance of responsibility, ethical behavior, and self-limitation in the treatment of athletic injuries. Lab fee required (ICOs 1, 2, 3, 4) Prerequisite: None.

Physical Therapist Assistant

www.odessa.edu/dept/pta

Faculty: Dr. Mikala Reznik, chair; Matthew Bertrand, Academic Coordinator of Clinical Education; Tana Pipes, Assistant Professor

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 technically educated health care providers who assist physical therapists in the provision of physical therapy. The physical therapist assistant performs treatment procedures involving 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 specialty courses and includes supervised clinicals at acute care facilities and out-patient 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 after meeting the Texas Board of Physical Therapy Examiners' requirements.

Because clinical space is limited, students are admitted selectively. In order to be considered for admission to the PTA Program, students must:

- Be a high school graduate or have earned a GED
- Complete the requirements for the college's Success Initiative Plan, which usually include passing scores on the TSI exam, unless an exemption has been earned
- Submit official transcripts from all other colleges or universities attended
- Complete the Test of Essential Academic Skills (TEAS)
- Have a minimum of three good character references
- Complete a minimum of forty (40) hours of observation/volunteer/work hours in a physical therapy facility

Acceptance into the program is determined by a point system based on:

- Admission exam score (TEAS)
- Academic record (number of general education classes completed and Anatomy and Physiology grades)
- References
- Interview (selection for interview is based on preliminary point totals)
- Writing (sample completed at the time of the interview)

BIOL 2401 Anatomy and Physiology I and BIOL 2401 Anatomy and Physiology II are prerequisites to beginning the physical therapist assistant courses but do not have to be completed before applying to the program; these courses must be completed within the last five years (any exceptions must be approved by the department chair). Applicants must achieve a minimum grade of "C" in both BIOL 2401 and BIOL 2402 and after being accepted, students must achieve a grade of "C" in all physical therapist assistant courses. 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 at Odessa College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE) of the American Physical Therapy Association (APTA). The Commission may be contacted at: The Commission on Accreditation in Physical Therapy Education, Department of Accreditation, American Physical Therapy Association, 1111 North Fairfax Street, Alexandria, VA 22314, 703-706-3245, www.apta.org/CAPTE

Students accepted into the program must comply with all school and physical therapist assistant program policies. Program policies are delineated in the Physical Therapist Assistant Program Student Handbook. Liability insurance is required and is part of the college fee schedule. Students must pass a physical examination and urine drug screen in order to participate in the physical therapist assistant program. Health and accident insurance must be maintained throughout the program. Current CPR certification (Healthcare Provider) must be maintained throughout all clinicals, and proof of required immunizations must be on file before students will be allowed to participate in clinicals. After admission to the program, new students will authorize the physical therapist assistant department to conduct a criminal background check. This procedure is required for students to go to the various hospitals and agencies for clinical education. If the background check is positive for certain offenses, clinical agencies may not permit the student to

participate in clinical experiences at their facilities. These circumstances would require dismissal of the student from the physical therapist assistant program due to inability to meet clinical objectives.

Applicants or other interested persons seeking additional information should contact the OC Help Center or the physical therapist assistant program; additional information can be obtained from the physical therapist assistant program's Web site at www.odessa.edu/dept/pta. Testing deadline for TEAS and application is March 31.

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

First Year

			Semester Hrs
Prerequisite Course Summer Session I			
BIOL	2401	Anatomy and Physiology I	4
Prerequisite Course Summer Session II			
BIOL	2402	Anatomy and Physiology II	4
First Semester			
ENGL	1301	Composition I	
	Or ENGL	2311 Technical & Business Writing	3
HPRS	1106	Essentials of Medical Terminology	1
PTHA	1201	The Profession of Physical Therapy	2
PTHA	1405	Basic Patient Care Skills	4
PTHA	1413	Functional Anatomy	4
Second Semester			
PSYC	2301	General Psychology	3
PTHA	1321	Pathophysiology for the PTA	3
PTHA	1325	Communication in Health Care	3
PTHA	1431	Physical Agents	4

Second Year

Summer Session			
PTHA	2460	Clinical I	4
First Semester			
ITSC	1191	Special Topics in Computer Informational Sciences	1
Language, Philosophy, & Culture OR Creative Arts (*from OC Core*)			3
PTHA	2409	Therapeutic Exercise	4
PTHA	2201	Essentials of Data Collection	2
PTHA	2435	Rehabilitation Techniques	4
Second Semester			
PTHA	2431	Management of Neurological Disorders	4
PTHA	2461	Clinical	4
PTHA	2462	Clinical	4
Total Hours			**65**

Physical Therapist Assistant Courses

PTHA 1201 The Profession of Physical Therapy (51.0806) (2-0) 2 hours
Introduction to the profession of physical therapy and the role of the physical therapist assistant. Legal, professional and ethical concepts that help prepare the student to participate as a member of the health care team are studied. Prerequisite: BIOL 2402 and acceptance into PTA program. Corequisites: PTHA 1405 and PTHA 1413.

PTHA 1321 Pathophysiology for the PTA
(51.0806) (3-0) 3 hours
Study of the pathophysiology of diseases/conditions 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. Prerequisites: PTHA 1201, PTHA 1405, and PTHA 1413. Corequisites: PTHA 1325 and PTHA 1431.

PTHA 1325 Communication in Health Care
(51.0806) (3-0) 3 hours
Communication theories and principles for optimal delivery of health care. Encompasses psychosocial aspects of health care; verbal, nonverbal and written communication skills; patient-practitioner 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 self-management and their impact on the health care setting. Prerequisites: PTHA 1201, PTHA 1405 and PTHA 1413. Corequisites: PTHA 1321 and PTHA 1431.

PTHA 1405 Basic Patient Care Skills
(51.0806) (3-4) 4 hours
The application of basic patient handling, functional skills, communication, and selected data collection techniques. Vital signs, medical asepsis, body mechanics, bed mobility and transfers, pre-ambulation activities, and progressive gait training are studied. Prerequisite: BIOL 2402 and acceptance into PTA program. Corequisites: PTHA 1201 and PTHA 1413.

PTHA 1413 Functional Anatomy
(51.0806) (3-3) 4 hours
The relationship of the musculoskeletal and neuromuscular systems to normal and abnormal movement. 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. Prerequisite: BIOL 2402 and acceptance into the PTA program. Corequisites: PTHA 1201 and PTHA1405.

PTHA 1431 Physical Agents
(51.0806) (2-6) 4 hours
Biophysical principles, physiological effects, efficacy, and application of physical agents. Thermal agents, hydrotherapy, ultrasound, electromagnetic radiations, electrical current, biofeedback, traction, intermittent compression, continuous passive motion and therapeutic massage are studied. Prerequisites: PTHA 1201, PTHA 1405 and PTHA 1413. Corequisites: PTHA 1321 and PTHA 1325.

PTHA 2201 Essentials of Data Collection
(51.0806) (1-3) 2 hours
Data collection techniques used to assist in patient/client 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 gait observation; and data collection techniques for posture and balance information are included. Prerequisite: PTHA 2460. Corequisites: PTHA 2409, and PTHA 2435.

PTHA 2409 Therapeutic Exercise
(51.0806) (2-6) 4 hours
Concepts, principles, and application of techniques related to therapeutic exercise and functional training. In addition to exercise concepts, various orthopedic conditions are studied, with emphasis on diagnosis-specific precautions and treatment guidelines. Prerequisite: PTHA 2460. Corequisites: PTHA 2201 and PTHA 2435.

PTHA 2431 Management of Neurological Disorders
(51.0806) (3-3) 4 hours
Comprehensive rehabilitation techniques of selected neurological disorders. Time management, creative thinking, decision-making, problem-solving and reasoning abilities as they relate to progressing the plan of care are emphasized. This course is completed during the first part of the semester to allow for the final full-time clinical experiences. Prerequisites: PTHA 2201, PTHA 2409, and PTHA 2435. Corequisites: PTHA 2461 and PTHA 2462.

PTHA 2435 Rehabilitation Techniques
(51.0806) (3-3) 4 hours
Comprehensive rehabilitation of selected diseases and disorders. Time management, creative thinking, decision-making, problem-solving and reasoning abilities as they relate to progressing the plan of care are emphasized. Prerequisite: PTHA 2460. Corequisites: PTHA 2201 and PTHA 2409.

PTHA 2460 Clinical – Physical Therapist Assistant
(51.0806) (0-15) 4 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This basic clinical provides the initial exposure to the clinical environment. Students observe and utilize skills obtained in the classroom and laboratory. Provides opportunities for selecting and applying procedures and equipment, improving decision-making, problem-solving and reasoning abilities. Consists of six weeks full-time experience under direct supervision by a licensed physical therapist or licensed physical therapist assistant Prerequisites: PTHA 1321, PTHA 1325, and PTHA 1431.

PTHA 2461 Clinical – Physical Therapist Assistant
(51.0806) (0-15) 4 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This clinical 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 six weeks, full-time experience under direct supervision by a licensed physical therapist or licensed physical therapist assistant. Prerequisites: PTHA 2201, PTHA 2409, and PTHA 2435. Corequisites: PTHA 2431 and PTHA 2462.

PTHA 2462 Clinical – Physical Therapist Assistant
(51.0806) (0-15) 4 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. This clinical provides the final clinical experience. 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 six-weeks, full-time experience under direct supervision by a licensed physical therapist or licensed physical therapist assistant. Upon completion of this clinical, a capstone experience in the form of a mock state board exam is required.
Prerequisites: PTHA 2201, PTHA 2409, and PTHA 2435.
Corequisites: PTHA 2431 and PTHA 2461.

Physics

www.odessa.edu/dept/physics

Faculty: Nichole Jackson, chair; Dr. Leland Estep

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

Course of Study for Associate in Science Degree – Physics

General Education Requirements			**42**
ENGL	1301	Composition I	3
MATH	2413	Calculus 1	4
CHEM	1311/1111	General Chemistry I/General Chemistry I Lab	4
CHEM	1312/1112	General Chemistry II/General Chemistry II Lab	4
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1321	Business and Professional Speech	3
Communication (*from OC Core*)			3
American History (*from OC Core)*			6
Creative Arts (*from OC Core)*			3
Social and Behavioral Sciences (*from OC Core)*			3
Language, Philosophy, & Culture (*from OC Core)*			3
Major Requirements			**18**
PHYS	2425	University Physics I	4
PHYS	2426	University Physics II	4
KINE	Any 2 one-hour KINE		2
Approved Elective(s)			
See Department Chair for options			8
Total Semester Hours			**60**

Physics Courses

PHYS 1401 College Physics I
(40.0801.5303) (3-3) 4 hours
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. (ICOs 1, 2, 3, 4) Prerequisite: MATH 1314 & MATH 1316, or concurrent enrollment in MATH 2412, or by consent of the instructor.

PHYS 1402 College Physics II
(40.0801.5303) (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 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. (ICOs 1, 2, 3, 4) Prerequisite: PHYS 1401.

PHYS 1403 Stars and Galaxies
(40.0201.5103) (3-3) 4 hours
Stars and Galaxies is a study of the current knowledge and techniques of modern day astronomy. Course content focuses on the universe beyond the solar system including a look at galaxies (including the Milky Way), nebulae, stars, black holes, and dark matter. The course ends with a brief survey of stellar and galactic topics. Emphasis is placed on current knowledge of the universe and how astronomical measurements are made. Some night observing sessions are required. Lab fee required. (ICOs 1, 5) Prerequisite: None

PHYS 1404 Solar System
(40.0201.5203) (3-3) 4 hours
Solar System is a study of the current knowledge and techniques of modern day astronomy as applied to the solar system. Course content focuses on the solar system and planetary motion (the Earth, Sun, Moon, and other planets), extra solar bodies (asteroids, comets, meteors and meteorites), and some history of human understanding of the universe from ancient to modern times. Emphasis is placed on recent planetary probe data and lunar explorations. Some night observing sessions are required. Lab fee required. (ICOs 1, 5) Prerequisite: ASTR 1403 or PHYS 1403.

PHYS 2425 University Physics I
(40.0801.5403) (3-3) 4 hours
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. (ICOs 1, 2, 3, 4) Prerequisite or Corequisite: MATH 2413.

PHYS 2426 University Physics II
(40.0801.5403) (3-3) 4 hours
A study of classical electricity, magnetism, waves, and optics from a theoretical and engineering application viewpoint. 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. (ICOs 1, 2, 3, 4) Prerequisite: PHYS 2425. Prerequisite or Corequisite: MATH 2414.

PHYS 2427 University Physics III
(40.0801.5403) (3-3) 4 hours
A study of modern physics including atomic and nuclear phenomena, relativity, and quantum effects. 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. (ICOs 1, 2, 3, 6) Prerequisite: PHYS 2426.

Astronomy Courses

ASTR 1403 Stars and Galaxies
(40.0201.5103) (3-3) 4 hours
Stars and Galaxies is a study of the current knowledge and techniques of modern day astronomy. Course content focuses on the universe beyond the solar system including a look at galaxies (including the Milky Way), nebulae, stars, black holes, and dark matter. The course ends with a brief survey of stellar and galactic topics. Emphasis is placed on current knowledge of the universe and how astronomical measurements are made. Some night observing sessions are required. Lab fee required. (ICOs 1, 5) Prerequisite: None.

ASTR 1404 Solar System
(40.0201.5203) (3-3) 4 hours
Solar System is a study of the current knowledge and techniques of modern day astronomy as applied to the solar system. Course content focuses on the solar system and planetary motion (the Earth, the Sun, the Moon, and other planets), extra solar bodies (asteroids, comets, meteors and meteorites), and some history of human understanding of the universe from ancient to modern times. Emphasis is placed on recent planetary probe data and lunar explorations. Some night observing sessions are required. Lab fee required. (ICOs 1, 5)Prerequisite: PHYS 1403 or ASTR 1403.

Psychology & Sociology

www.odessa.edu/dept/psyc-soci

Faculty: Mystic Jordan

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 throughout the lifespan, 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 or an associate of science degree.

Sociology is the study of groups, behavior and society. Sociological issues include culture, critical analyses of major social institutions, race and ethnicity, gender and age, human sexuality, deviance and crime, groups and interaction, population and the environment, theories and the scientific method. Career paths offer students many opportunities in government, business, academia, law enforcement, communications, research, and medical and gerontological occupations.

Psychology/sociology majors are encouraged to organize their degree plans with the assistance and advice of the department chair and Student Success Coach. 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

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
Mathematics (*from OC Core)*			3
Communication (from OC Core)			3
History (*from OC Core)*			6
Language, Philosophy, & Cutlure (*from OC Core)*			3
Life and Physical Science (*from OC Core)*			8
Social/Behavioral Science (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area A Option (*from OC Core)*			*3*
Component Area B Option (*from OC Core)*			*3*

In addition to the 42 hours listed above, the student must choose one of the following options:

Psychology Option

			Semester Hrs
***Major Requirements**			**18**
PSYC	2301	General Psychology	3
MATH	1342	Mathematical Statistics	3
SOCI	1301	Introductory Sociology	3
Approved Psychology Elective			6
Approved Elective			3
Total Semester Hours			**60**

*Note: Students should consult with the course catalog or department advisor of the upper level institution to which they plan to transfer. The following electives may be substituted for above Psychology courses to accommodate the transferring institution: PSYC 2308 Child Psychology, and PSYC 2319 Social Psychology.

Sociology Option

			Semester Hrs
***Major Requirements**			**15**
PSYC	2301	General Psychology	3
SOCI	1301	Introduction to Sociology	3
MATH	1342	Mathematical Statistics	3
Approved Sociology Elective			6
Approved Elective			3
Total Semester Hours			**60**

*Note: The student should consult with the course catalog or department advisor of the upper level institution to which they plan to transfer. The following electives may be substituted for above Sociology courses to accommodate the transferring institution: SOCI 1306 Social Problems, SOCI 2301 Marriage & the Family, SOCI 2326 Social Psychology and SOCI 2340 Drug Use and Abuse.

Psychology Courses

PSYC 2301 General Psychology
(42.0301.5125) (3-0) 3 hours
General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes. A wide application of a variety of topics is the focus of this introductory course. (ICOs 1, 2, 4, 5) Prerequisite: None.

PSYC 2302 Applied Psychology
(420101.5225) (3-0) 3 hours
Presents a wide array of interpersonal challenges relating to the workplace. Critical workplace competencies include leadership, negotiation, team building, cohesiveness, and communication. Analyzing the interrelationships of organizational behavior across the spectrum from our similarities to our diversities is a major focus. Personal qualities that reinforce job success as responsibility, sociability, self-management, and workplace ethics are presented in practical, job-related situations to enhance the student's job future as an effective and valued employee. (ICOs 2, 4, 6) Prerequisite: None.

PSYC 2306 Human Sexuality
(42.0101.5325) (3-0) 3 hours
This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically-based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom. (Cross-listed as SOCI 2306) (ICOs 1, 2, 3, 6) Prerequisite: None.

PSYC 2308 Child Psychology
(42.2703.5125) (3-0) 3 hours
This course will address psychological development from conception through middle childhood with references to physical, cognitive, social and personality changes. Students will examine the interplay of biological factors, human interaction, social structures and cultural forces in development. (ICOs 1, 2, 3, 6) Prerequisite: None.

PSYC 2314 Lifespan Growth and Development
(42.2703.5125) (3-0) 3 hours
Life-Span Growth and Development is a study of social, emotional, cognitive and physical factors and influences of a developing human from conception to death. (ICOs 1, 2, 3, 6) Prerequisite: None, yet it is strongly recommended that student has completed PSYC 2301 successfully.

PSYC 2319 Social Psychology
(42.2707.5125) (3-0) 3 hours
Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (ICOs 1, 2, 3, 6) Prerequisite: None.

Sociology Courses

SOCI 1301 Introductory Sociology
(45.1101.5125) (3-0) 3 hours
The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. (ICOs 1, 2, 5, 6) Prerequisite: None.

SOCI 1306 Social Problems
(45.1101.5225) (3-0) 3 hours
Application of sociological principles and theoretical perspectives to major social problems in contemporary society such as inequality, crime and violence, substance abuse, environmental issues, deviance, or family problems. (ICOs 1, 2, 3, 6) Prerequisite: None.

SOCI 2301 Marriage & the Family
(45.1101.5425) (3-0) 3 hours
Sociological and theoretical analysis of the structures and functions of the family, the varied cultural patterns of the American family, and the relationships that exist among the individuals within the family, as well as the relationships that exist between the family and other institutions in society. (ICOs 1, 2, 3, 6) Prerequisite: None.

SOCI 2306 Human Sexuality
(42.0101.5325) (3-0) 3 hours
This course will provide an overview of the broad field of human sexuality. Topics will be covered from various perspectives – biological, sociological, anthropological, etc., but will focus primarily on the psychological perspective. The goal is for each student to learn factual, scientifically-based information that will provoke thought and contribute to his/her own decision-making on sexual issues outside of the classroom. (Cross-listed as PSYC 2306) (ICOs 1, 2, 3, 6) Prerequisite: None.

SOCI 2326 Social Psychology
(42.2707.5125) (3-0) 3 hours
Study of individual behavior within the social environment. May include topics such as the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (ICOs 1, 2, 3, 6) Prerequisites: None.

SOCI 2336 Criminology
(45.0401.5125) (3-0) 3 hours
The course surveys various theories of crime, with an emphasis on understanding the social causes of criminal behavior. The techniques for measuring crime as a social phenomenon and the characteristics of criminals are examined. This course addresses crime types (such as consensual or white-collar crimes), the criminal justice system, and other social responses to crime. (ICOs 1, 2, 3, 6) Prerequisite: None

SOCI 2340 Drug Use & Abuse
(51.1504.5216) (3-0) 3 hours
Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors. (ICOs 1, 2, 3, 6)

Radiologic Technology

www.odessa.edu/dept/radiology

Faculty: Carrie Nanson, chair; Catherine Everett, clinical coordinator Vicki Hughes, clinical instructor

Odessa College, in cooperation with local medical facilities, 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), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182, Phone: (312) 704-5300, Fax: (312) 704-5304, e-mail: mail@jrcert.org. 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 (ARRT) in diagnostic radiologic (x-ray) technology, and are eligible for temporary state certification as a Medical Radiologic Technologist (MRT).

The curriculum balances general education and radiologic technology courses with supervised practicums at local JRCERT recognized clinical facilities. 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:

1) Be a high school graduate or equivalent.
2) Achieve a satisfactory score on the department specified pre-admission test.
3) Have character references. (Please obtain a program packet for the necessary forms)
4) Complete the requirements for the college's Success Initiative Plan, which usually includes passing scores on the TSI exam unless an exemption has been earned.
5) Immunizations are required. A complete immunization record must be on file in the program directors' office prior to the application deadline. Hepatitis B vaccines take a minimum of 4 to 6 months to complete.
6) Earn a grade of "C" or better in all course work applied toward the degree.
7) Be approved by the program selection committee.

Acceptance into the program is determined by a point system based on:

- Admission exam score
- Academic record (number of general education classes completed and anatomy and physiology grades and math grades)
- 3 reference forms (on website)
- Interview (selection for interview is based on preliminary point totals)

BIOL 2401 Anatomy and Physiology I and BIOL 2402 Anatomy and Physiology II are prerequisites to beginning the radiologic technology program courses. These courses must be completed within the last five years (any exceptions must be approved by the department chair).

Prior to entering the practicum portion of the program, students are required to complete a physical examination to include a urine drug screen. Criminal background checks are required for the various hospitals, the ARRT, and the MRT. A positive background check or urine drug screen may preclude the student from participating in the practicum experience; therefore, the student would be unable to complete the program. Please visit the program website for additional information (www.odessa.edu/dept/radiology). Applicants or other interested persons seeking

additional information should contact the radiologic technology program faculty, visit the program website or the Odessa College Help Center. Prospective students should submit their completed application packets for possible admission by April 30, for review by the program faculty and the selection committee.

Note: After admission to the program, all students are required to maintain a policy of health and accident insurance. Liability insurance is also required and is included in regular college fees for each clinical or practicum.

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

First Year

			Semester Hrs
Prerequisite			**8**
BIOL	2401	Anatomy and Physiology I	4
BIOL	2402	Anatomy and Physiology II	4

			Semester Hrs
Summer Session II			**5**
*RADR	1201	Introduction to Radiography	2
RADR	1311	Basic Radiographic Procedures	3

			Semester Hrs
First Semester			**10**
MATH	1333	Contemporary Mathematics II	3
RADR	1266	Practicum I	2
RADR	1203	Patient Care	2
RADR	2301	Intermediate Radiographic Procedures	3
RADR	2309	Radiographic Imaging Equipment	3

			Semester Hrs
Second Semester			**13**
RADR	1313	Principles of Radiographic Imaging I	3
RADR	1366	Practicum II	3
RADR	2305	Principles of Radiographic Imaging II	3
RADR	2331	Advanced Radiographic Procedures	3

			Semester Hrs
Summer Session I			**5**
ENGL	1301	Composition I	3
RADR	1267	Practicum III	2

(This practicum continues through Summer Session II)

Second Year

			Semester Hrs
Summer Session II			**3**
PSYC	2301	General Psychology	3

			Semester Hrs
First Semester			**7**
RADR	2217	Radiographic Pathology	2
RADR	2233	Advanced Medical Imaging	2
RADR	2366	Practicum IV	3

			Semester Hrs
Second Semester			**8**
Language, Philosophy, & Culture OR Creative Arts (*from OC Core*)			3
RADR	2313	Radiation Biology and Protection	3
RADR	2267	Practicum V	2

			Semester Hrs
Summer Session I			**3**
RADR	1160	Clinical – Advanced/Capstone	1
RADR	2235	Radiologic Technology Seminar	2

Total Hours **64**

*Note: RADR 1201 is open to anyone interested in a career in radiologic technology. It is recommended that this course be completed prior to admission into the program.

Radiologic Technology Courses

RADR 1160 Clinical – Radiologic Technology/Science - Radiographer
(51.0911) (0-5) 1 hour
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional when necessary, and indirect supervision is provided post-competency. Competencies include: performance of all duties required of a registered radiologic technologist to include patient positioning, technical factor selection, interpersonal communication skills and radiographic image evaluation regarding anatomy, positioning and technical factors; reading and understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographic images 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 with fluoroscopic examinations; demonstrating specific exams on a patient (performance evaluation). Includes all clinical rotations. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 2267. Corequisite: RADR 2235.

RADR 1191 Special Topics in Medical Radiologic Technology/Technician
(51.0911) (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. This course was designed to be repeated multiple times to improve student proficiency. The student is required to complete a self-evaluation, prepare a cover letter, interview questions and a resume and participate in a mock job interview. (ICOs 1, 2, 6) Prerequisite: RADR 2333. Corequisites: RADR 2313 and RADR 2267.

RADR 1266 Practicum I – Radiologic Technology/ Science – Radiographer
(51.0911) (0-16) 2 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A health practicum will be an unpaid learning experience. Introduces the clinical environment at a JRCERT recognized clinical facility. Requires 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 radiographic images of the chest, abdomen and upper and lower extremities to include radiographic image evaluation regarding anatomy, positioning and technical factors; reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment when producing standard radiographic images 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 on a patient (performance evaluation). Presents clinical introduction to radiographic fluoroscopic examinations and some fluoroscopic image evaluation. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1303, RADR 2301, and RADR 2309.

RADR 1201 Introduction to Radiography
(51.0911) (2-0) 2 hours
An overview of 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 profession and the health care system Also includes infection control procedures and an introduction to prime exposure factors The student will identify the prime exposure factors and have an understanding and incorporate infection control practices upon entering clinical sites. (ICOs 1, 2, 3, 5, 6) Prerequisite: None. Corequisite: RADR 1311 or none.

RADR 1303 Patient Care
(51.0911) (3-0) 3 hours
An introduction in patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology. Also includes locating and understanding information on the patient chart, venipuncture, and sterile technique. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1266, RADR 2301 and RADR 2309.

RADR 1311 Basic Radiographic Procedures
(51.0911) (1-6) 3 hours
An introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for proper demonstration of basic anatomy. The areas to be presented cover the upper and lower extremities to include the shoulder and pelvic girdles. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: Acceptance to the program. Corequisite: RADR 1201.

RADR 1313 Principles of Radiographic Imaging I
(51.0911) (3-1) 3 hours
Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production. Lab fee required (ICOs 1, 2, 3) Prerequisite: RADR 2309. Corequisites: RADR 1366, RADR 2305 and RADR 2331.

RADR 1366 Practicum II – Radiologic Technology/ Science – Radiographer
(51.0911) (0-24) 3 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A health practicum will be an unpaid learning experience. Introduces the day shift clinical environment at a JRCERT recognized clinical facility. Requires rotating through different work areas. Competencies include: production of standard radiographic images of the chest, abdomen and upper and lower extremities, bony thorax and spine, skull, and radiographic procedures requiring the administration of contrast media (re: UGI, LGI, excretory urography, etc.) with direct supervision (pre-competency) and with indirect supervision (post-competency); radiographic image evaluation regarding anatomy, positioning and technical factors; reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment when producing standard radiographic images on patients (performance evaluations). (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 1266. Corequisites: RADR 1313, RADR 2305, and RADR 2331.

RADR 1267 Practicum III – Radiologic Technology/ Science – Radiographer
(51.0911) (0-32) 2 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A health practicum will be an unpaid learning experience. Emphasizes practice of basic radiographic procedures in positioning and darkroom techniques. Causes student to use anatomical terms. Requires rotating through different work areas. Competencies include: discussion and demonstration of all standard radiographic positions, with direct supervision (pre-competency) and indirect supervision (post-competency), to include radiographic image evaluation regarding anatomy, positioning and technical factors; reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographic images on regular and trauma patients (performance evaluations). (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 1366.

ADR 2217 Radiographic Pathology
(51.0911) (2-1) 2 hours
Disease processes and their appearance on radiographic images. Lab fee required. (ICOs 1, 2, 3) Prerequisites: RADR 1313, RADR 2305 and RADR 2309. Corequisites: RADR 2333 and RADR 2366.

RADR 2235 Radiologic Technology Seminar
(51.0911) (2-0) 2 hours
A capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning. Special fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 2313. Corequisite: RADR 1160.

RADR 2267 Practicum V – Radiologic Technology/ Science – Radiographer
(51.0911) (0-20) 2 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A health practicum will be an unpaid learning experience. Introduces the student to special clinical rotations. Requires rotating through different work areas. Competencies include: discussion and demonstration of all standard radiographic positions and ability to produce radiographic images on trauma patients, with direct supervision (pre-competency) and indirect supervision (post-competency), to include radiographic image evaluation regarding anatomy, positioning and technical factors, and demonstration of all exams on patients (performance evaluations). (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 2366. Corequisites: RADR 1191 and RADR 2313.

RADR 2301 Intermediate Radiographic Procedures
(51.0911) (2-4) 3 hours
A continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomic structure and equipment, and evaluation of images for proper demonstration of anatomy. The areas to be presented include the chest, bony thorax, abdomen, spine and routine contrast media procedures, trauma radiography and radiographic foreign body localization. Also includes review of upper and lower extremity radiography, topographic anatomy, and routine diagnostic positioning. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1266, RADR 1303, and RADR 2309.

RADR 2305 Principles of Radiographic Imaging II
(51.0911) (3-1) 3 hours
Continuation of Radiographic image quality and the effects of exposure variables, and the synthesis of all variables in image production. Lab fee required. (ICOs 1, 2, 3) Prerequisite: RADR 2309. Corequisites: RADR 1313, RADR 1366, and RADR 2331.

RADR 2309 Radiographic Imaging Equipment
(51.0911) (3-0) 3 hours
Equipment and physics of x-ray production. Includes basic x-ray circuits. Also examines the relationship of conventional and digital equipment components to the imaging process. (ICOs 1, 2, 3) Prerequisite: RADR 1311 or consent of department chair. Corequisites: RADR 1266, RADR 1303, and RADR 2301.

RADR 2313 Radiation Biology and Protection
(51.0911) (3-0) 3 hours
Effects of radiation exposure on biological systems. Includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure. (ICOs 1, 2, 3, 5, 6) Prerequisite: RADR 2333. Corequisites: RADR 1191 and RADR 2267.

RADR 2233 Advanced Medical Imaging
(51.0911) (2-1) 2 hours
An exploration of specialized imaging modalities. Includes concepts and theories of equipment operations and their integration for medical diagnosis. An introduction to the use of computers in medical imaging, to include computed and digital x-ray imaging, angiography, arteriography, computed tomography, and interventional procedures. (ICOs 1, 2, 4, 5) Prerequisites: RADR 1313, RADR 2305, RADR 2309 and RADR 2331. Corequisites: RADR 2217 and RADR 2366.

RADR 2366 Practicum IV – Radiologic Technology/ Science – Radiographer
(51.0911) (0-24) 3 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. A health practicum will be an unpaid learning experience. Introduces the student to special clinical rotations. Requires rotating through different work areas. Competencies include: discussion and demonstration of all standard radiographic positions and ability to produce radiographic images on regular and trauma patients, with direct supervision (pre-competency) and indirect supervision (post-competency), to include radiographic image evaluation regarding anatomy, positioning and technical factors; reading, understanding and demonstrating understanding of positioning materials by selecting necessary equipment and producing standard radiographic images on patients (performance evaluations). (ICOs 1, 2, 3, 4, 5, 6) Prerequisite: RADR 1367. Corequisites: RADR 2217 and RADR 2333

RADR 2331 Advanced Radiographic Procedures
(51.0911) (2-4) 3 hours
Positioning and alignment of anatomic structures and equipment, evaluation of images for demonstration of anatomy and related pathology. Presents cross-sectional anatomy, ultrasound, computed tomography and magnetic resonance imaging, skull, and a review of the chest, bony thorax, abdomen, spine and routine contrast media procedures. The student will position and align the anatomical structures of the cranium and evaluate images for proper demonstration of anatomy. Also, the student will be able to identify cross-sectional anatomy structures; demonstrate mastery of the anatomy and positioning of the thorax, abdomen, spine and routine contrast media procedures; and demonstrate a basic understanding of magnetic resonance imaging and ultrasound. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: RADR 2301. Corequisites: RADR 1313, RADR 1366, and RADR 2305.

Reading

www.odessa.edu/dept/reading
Faculty: Dr. Kathy Jones, chair; Janet Matthews
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.

Departmental Placement and Success Requirements – Reading	
TEST	SCORE COURSE
TSIA	310-341 INRW 0373 and then INRW 0375 342-346 take INRW 0375 347-350 May enroll concurrently in NCBR.005 & a course identified as reading intensive** 351 or above College Ready

****Reading Intensive Course: HIST 1301, 1302; GOVT 2305, 2306**

Reading Courses

INRW 0375 Integrated Reading and Writing
(32.0108.5912) (3-0) 3 hours
This course integrates critical reading and academic writing skills. The course fulfills TSI requirements for reading and/or writing. Lab fee required. (ICOs 1, 2,4,6). Prerequisite: Fulfills one of the following scenarios (1) INRW 0373 passed with a "C" or better and INRW 0373passed with a "C" or better, (2) INRW 0373 passed with a "C" or better and a TSIA Writing score of 3, (3) TSIA Reading score between 342 - 346 and INRW 0375 passed with a "C" or better; (4) TSIA Reading score between 342 – 346 and TSIA essay score of 3; (5) TSIA Reading score between 342 - 346 and a TSIA essay score of 4 but TSIA English multiple choice score less than 363.

NCBR.0001 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in one or two of the ten areas measured on a pre-test. Prerequisite: TSIA Reading score of 347 to 350

NCBR.0002 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in three or four of the ten areas measured on a pre-test. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0003 Non-Course Competency Based Reading
(32.0108.61.12) (0-1) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in five or six of the ten areas measured on a pre-test. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0004 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in seven or eight of the ten areas measured on a pre-test. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0005 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in nine or ten of the ten areas measured on a pre-test. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0006 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in one or two of the ten areas measured on a pre-test. Students are also enrolled in a credit-bearing class and receive support from Reading instructor. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0007 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in three or four of the ten areas measured on a pre-test. Students are also enrolled in a credit-bearing class and receive support from Reading instructor. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0008 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in five or six of the ten areas measured on a pre-test. Students are also enrolled in a credit-bearing class and receive support from Reading instructor. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0009 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in seven or eight of the ten areas measured on a pre-test. Students are also enrolled in a credit-bearing class and receive support from Reading instructor. Prerequisite: TSIA Reading score of 347 to 350.

NCBR.0010 Non-Course Competency Based Reading
(32.0108.61.12) 0 hours
A non-course based option to help students with the development of reading and higher order skills necessary for college readiness. The course is designed for students who have fulfilled TSI Writing requirements, but still need to demonstrate college proficiency in reading in nine or ten of the ten areas measured on a pre-test. Students are also enrolled in a credit-bearing class and receive support from Reading instructor. Prerequisite: TSIA Reading score of 347 to 350.

RELIGION (see Social Sciences)
SAFETY (see Occupational Safety and Health Technology)

Social Sciences

www.odessa.edu/dept/socialsciences

Faculty: R. Glen Findley, chair; Delma Abalos, Dr. Amanda Deerfield, Dr. Brian Dille, Debbie Hargis, Dr. Mike Myers, Dr. Daniel Regalado, Blair Roberts

The social sciences deal with the three basic relationships that mankind has dealt with since time began. These relationships involve man with his fellow man (economics, government, and history), 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 the social sciences. Courses are offered in religion, but they should be taken as electives only. Students desiring to major in 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, international relations, teaching, and the law.

Course of Study for Associate in Arts Degree – Social Sciences

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1146	Parliamentary Procedures	1
HIST	1301	United States History I	3
American History (*from OC Core)*3Language, Philosophy, &			
Culture (*from OC Core)*			3
Mathematics *(from OC Core)*			3
Life and Physical Science (*from OC Core)*			8
Social/Behavioral Science (*from OC Core)*			3
Component Area Option (*from OC Core)*			*3*
Creative Arts (*from OC Core)*			3
Major Requirements:			
(Choose 12 hours from the following)			**18**
ECON	2301	Principles of Economics I	3
GOVT	2304	Introduction to Political Science	3
HIST	2301	History of Texas	3
Approved Social Science Elective			6
Approved Elective (*see Dep. Chair for list)*			*3*
Total Semester Hours			**60**

Economics Courses

ECON 2301 Principles of Macroeconomics
(45.0601.5125) (3-0) 3 hours
An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. (ICOs 1, 2, 3) Prerequisite: Pass reading on TSIA.

ECON 2302 Principles of Microeconomics
(45.0601.5125) (3-0) 3 hours
Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade.. (ICOs 1, 2, 3) Prerequisite: Pass reading on TSIA.

ECON 2311 Economic Geography
(45.0701.5225) (3-0) 3 hours
Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing. (cross-listed as GEOG 2312) (ICOs 1, 2, 3) Prerequisite: Pass reading on TSIA.

Geography

Courses in geography are designed to acquaint students with the world and its peoples. Major aspects of both physical and cultural geography are studied in an integrated manner in order to provide a greater understanding of world conditions. GEOG 1301 and GEOG 1302 will fulfill social science requirements at many colleges.

Geography Courses

GEOG 1301 Physical Geography
(45.0701.5125) (3-0) 3 hours
Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living, and map concepts. (ICOs 6) Prerequisite: None.

GEOG 1302 Cultural Geography
(45.0701.5125) (3-0) 3 hours
Introduction to the concepts which provide a foundation for continued study of geography. Includes the different elements of natural environment as related to human activities, modes of living, and map concepts. The first semester emphasizes physical geography and the second semester emphasizes cultural geography. (ICOs 6) Prerequisite: None.

GEOG 1303 World Regional Geography
(45.0701.5325)
This course is an introduction to the world's major regions seen through their defining physical, social, cultural, political, and economic features. These regions are examined in terms of their physical and human characteristics and their interactions. The course emphasizes relations among regions on issues such as trade, economic development, conflict, and the role of regions in the globalization process. (ICOs 1, 2, 3) Perquisites: None.

GEOG 2312 Economic Geography
(45.0701.5225) (3-0) 3 hours
Analytical study of the historical development of particular economic distributions as they relate to social, cultural, political, and physical factors. Includes critical inquiry into the reasons for location of various types of economic activity, production, and marketing. (cross-listed as ECON 2311) (ICOs 1, 2, 3) Prerequisite: Pass reading on TSIA.

Government Courses

GOVT 2304 Introduction to Political Science
(45.1001.5225) (3-0) 3 hours
Introductory survey of the discipline of political science focusing on the scope, and methods of the field, and the substantive topics in the discipline including the theoretical foundations of politics, political interaction, political institutions and how political systems function. (ICOs 1, 2, 3, 6) Prerequisite: Pass reading on TSIA.

GOVT 2305 Federal Government
(45.1002.5125) (3-0) 3 hours
Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. (ICOs 1, 2, 6) Prerequisite: Pass reading on TSIA.

GOVT 2306 Texas Government
(45.1002.5125) (3-0) 3 hours
Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas (ICOs 1, 2, 6) Prerequisite: Pass writing reading on TSIA.

History Courses

HIST 1301 United States History I
(54.0102.5125) (3-0) 3 hours
A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 1302 United States History II
(54.0102.5125) (3-0) 3 hours
A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2301 Texas History
(54.0102.5225) (3-0) 3 hours
A survey of the political, social, economic, cultural, and intellectual history of Texas from the pre-Columbian era to the present. Themes that may be addressed in Texas History include: Spanish colonization and Spanish Texas; Mexican Texas; the Republic of Texas; statehood and secession; oil, industrialization, and urbanization; civil rights; and modern Texas. (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2311 Western Civilization I
(54.0101.5425) (3-0) 3 hours
A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from human origins to the 17th century. Themes that should be addressed in Western Civilization I include the cultural legacies of Mesopotamia, Egypt, Greece, Rome, Byzantium, Islamic civilizations, and Europe through the Middle Ages, Renaissance, and Reformations. (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2312 Western Civilization II
(54.0101.5425) (3-0) 3 hours
A survey of the social, political, economic, cultural, religious, and intellectual history of Europe and the Mediterranean world from the 17th century to the modern era. Themes that should be addressed in Western Civilization II include absolutism and constitutionalism, growth of nation states, the Enlightenment, revolutions, classical liberalism, industrialization, imperialism, global conflict, the Cold War, and globalism. (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2327 Mexican-American History I
(05.0203.5225) (3-0) 3 hours
A survey of historical, economic, social, and cultural development of Mexican-Americans. (Maybe applied to U.S. History requirement.) (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2328 Mexican-American History II
(05.0203.5225) (3-0) 3 hours
A survey of historical, economic, social, and cultural development of Mexican-Americans. (Maybe applied to U.S. History requirement.) (ICOs 1, 2, 5) Prerequisite: Pass reading on TSIA.

HIST 2381 African-American History
(45.1101.5325) (3-0) 3 hours
Historical, economic, social, and cultural development of minority groups. May include African-American, Mexican American, Asian American, and Native American issues. (ICOs 1, 2, 5) Prerequisite: Pass writing reading on TSIA.

Philosophy & Religion Courses

PHIL 1301 Introduction to Philosophy
(38.0101.5112) (3-0) 3 hours
A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications. (ICOs 1, 2, 4, 5, 6) Prerequisite: Pass reading on TSIA.

PHIL 1304 Introduction to World Religions
(38.0201.5212) (3-0) 3 hours
A comparative study of world religions, including but not limited to Hinduism, Buddhism, Judaism, Christianity, and Islam. (ICOs 1, 2, 5, 6) Prerequisite: Pass reading on TSIA.

PHIL 2306 Introduction to Ethics
(38.0101.5312) (3-0) 3 hours
The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals, and standards of value. (ICOs 1, 2, 4, 5, 6) Prerequisite: Pass reading on TSIA.

BIBL 1372 Old Testament History
(3-0) 3 hours
An introduction and survey of the Old Testament. Emphasizes historical setting, types of religious literature and religious element underlying the whole. (ICOs 1, 2, 5, 6) Prerequisite: None.

BIBL 1373 New Testament History
(3-0) 3 hours
Introduces survey of the New Testament. Emphasizes life and teachings of Jesus as found in the Gospels, expansion of early Christianity, a brief study of Paul's epistles, the general epistles and Revelation. (ICOs 1, 2, 5, 6) Prerequisite: None.

Substance Abuse Counseling

www.odessa.edu/dept/psyc-soci/substance_abuse_counseling.htm

Faculty: Mystic Jordan

Odessa College offers a program in Substance Abuse Counseling for those students who wish to be licensed by the Texas Department of State Health Services (TDSHS) – Substance Abuse Services as a Licensed Chemical Dependency Counselor (LCDC) in order to accept employment relating to victims of alcohol and drug abuse. The core curriculum in substance abuse leads to an Associate in Arts in Substance Abuse Counseling. The program provides the student with an Associate in Arts degree, the required 270 clock hours of chemical dependency coursework, and the supervised 300-hour practicum requirements for licensure as an LCDC in the state of Texas. The Associate in Arts degree is transferable to most senior colleges and is articulated with UTPB leading to a Bachelor of Arts degree in psychology, sociology, social work and criminal justice.

Course of Study for Associate in Arts Degree – Substance Abuse Counseling

			Semester Hrs
General Education Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
KINE	1166	First Aid	1
BIOL	1408	Biology for Non-Science Majors I	4
BIOL	1409	Biology for Non-Science Majors II	4
MATH (*from OC Core)*			3
American History (*from OC Core)*			6
Language, Philosophy, & Culture *(from OC Core)*			3
Social and Behavioral Science (*from OC Core)*			3
Creative Arts *(from OC Core)*			3
Component Area Option			3
Major Requirements			**18**
*DAAC	2364	Clinical Practicum	3
SOCI	2340	Drug Use and Abuse **OR**	
KINE	1346	Drug Use and Abuse	3
AND:			**12**
12 credit hours of approved DAAC courses, two of which must be at the sophomore (2000) level:			
Total Semester Hours			**60**

The above **DAAC** courses are from the **Workforce Education Course Manual (WECM)** and are NOT academic transfer courses.

(*) Student is eligible for **DAAC 2364, Clinical Supervision/Practicum,** upon successful completion of 15 hours of DAAC courses, either PSYC 2301 OR SOCI 1301, and Department Chair approval. The OC Core does not have to be complete prior to completing DAAC 2364. See http://www.dshs.state.tx.us/lcdc
Students who wish to pursue the LCDC with the Texas Department of State Health Services should be very familiar with the information at http://www.dshs.state.tx.us/lcdc Additional information on the LCDC exam may be found at http://www.tcbap.org/displaycommon.cfm?an=1&subarticlenbr=3

Substance Abuse Courses

DAAC 1304 Pharmacology of Addiction
(51.1501) (3-0) 3 hours
Emphasizes pharmacological effects of addiction, tolerance, dependence, cross addiction, drug interaction, withdrawal, and recovery. Describes the psychological and physiological effects of substance use and behaviors. (ICOs 1, 2, 5) Prerequisite: None.

DAAC 1309 Assessment Skill of Alcohol and Other Drug Addictions
(51.1501) (3-0) 3 hours
Exploration of procedures and tools used to identify and assess a client's problems, strengths, deficits, and needs. (ICOs 1, 2, 4) Prerequisite: None.

DAAC 1311 Counseling Theories
(51.1501) (3-0) 3 hours
An examination of the major theories and current treatment modalities used in the field of counseling. (ICOs 1, 2, 6) Prerequisite: None.

DAAC 1317 Basic Counseling Skills
(51.1501) (3-0) 3 hours
An overview of basic counseling skills. (ICOs 1, 2, 4, 5) Prerequisite: None.

DAAC 1391 Special Topics in Alcohol/Drug Abuse Counseling: Socio-Cultural Issues in Counseling
(51.1501) (3-0) 3 hours
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 was designed to be repeated multiple times to improve student proficiency. (ICOs 2, 3, 4, 6) Prerequisites: DAAC 1311 and/or DAAC 1317 or department chair approval.

DAAC 2364 Practicum (or Field Experience) – Substance Abuse/Addiction Counseling Clinical
(51.1501) (0-20) 2 hours
Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. (ICOs 1, 2, 4, 5) Prerequisites: Department chair approval.

DAAC 2301 Therapeutic Communities in a Criminal Justice Setting
(51.1501) (3-0) 3 hours
Provides an overview of the use of therapeutic communities as an approach in rehabilitation of incarcerated substance abuse users. (ICOs 1, 2, 4, 6) Prerequisites: DAAC 1304, DAAC 1311, DAAC 1317 and/or DAAC 1319 or department chair approval.

DAAC 2307 Addicted Family Intervention
(51.1501) (3-0) 3 hours
Examination of family systems focusing on the effects of addiction and recovery. (1, 2, 6) Prerequisite: DAAC 1311 and/or 1317 or department chair approval.

DAAC 2330 Multicultural Counseling
(51.1501) (3-0) 3 hours
An examination of the multicultural counseling theories and characteristics of diverse populations. (ICOs 1, 2, 6) Prerequisites: DAAC 1304, DAAC 1311, DAAC 1317, and/or DAAC 1319 or department chair approval.

DAAC 2341 Counseling Alcohol and Other Drug Addictions
(51.1501) (3-0) 3 hours
Advanced examination of skills, confidentiality, and ethical guidelines applied in the counseling, treatment, and recovery of substance use disorders. (ICOs 1, 2, 6) Prerequisite: DAAC 1304, DAAC 1311, DAAC 1317 and/or DAAC 1319 or department chair approval.

DAAC 2343 Current Issues
(51.1501) (3-0) 3 hours
Current issues in addiction counseling. Includes special populations, dual diagnosis, ethics, gambling, and infectious diseases associated with addiction counseling. (ICOs 1, 2, 5, 6) Prerequisites: DAAC 1304, DAAC 1311, DAAC 1317 and/or DAAC 1319 or department chair approval.

DAAC 2354 Dynamics of Group Counseling
(51.1501) (3-0) 3 hours
Exploration of group counseling skills, techniques, and stages of group development, and confidentiality and ethics. (ICOs 1, 2, 4, 5, 6) Prerequisite: DAAC 1311 and/or DAAC 1317 or department chair approval.

SOCI 2340 Drug Use & Abuse
(51.1504.5216) (3-0) 3 hours
Study of the use and abuse of drugs in today's society. Emphasizes the physiological, sociological, and psychological factors. (ICOs 1, 3, 4, 6)

Surgical Technology

www.odessa.edu/dept/surgical

Faculty: Kristine Flickinger, program director

The Surgical Technology program at Odessa College offers students the opportunity to earn a Level II certificate or to continue on to an Associate Degree in Applied Science. The curriculum includes selected science courses which provide the basis for in-depth exploration of both theory and clinical application of principles utilized in Surgical Technology.

Basic courses in the theoretical aspects of Surgical Technology encompass lecture, clinical, and laboratory instruction. Throughout the program, students are provided with hands-on experience in cooperation with regional hospitals and surgical site and under the direction of the program director, program faculty and clinical preceptors.

The Surgical Technologist strives to deliver the highest quality care and demonstrates integrity by providing safe and ethical service to a diverse population of patients. Surgical Technology combines concepts from the biological, behavioral, and social sciences to provide compassionate and coordinated care based on respect for patient's preferences, values, and needs. Qualities of an effective Surgical Technologist include an orientation towards service and a capacity for calm and reasoned judgment when meeting emergencies.

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

			Semester Hrs
Major Requirements			**45**
HPRS	1106	Essentials of Med. Terminology	1
SRGT	1505	Intro to Surgical Technology	5
SRGT	1509	Fundamentals of Perioperative Concepts & Techniques	5
BIOL	2401	Anatomy & Physiology I	4
BIOL	2402	Anatomy & Physiology II	4
BIOL	2421	Microbiology for Science Majors	4
SRGT	1260	Clinical I	2
SRGT	1560	Clinical II	5
SRGT	2463	Clinical III	4
SRGT	1541	Surgical Procedures I	5
SRGT	1542	Surgical Procedures II	5
SRGT	2130	Professional Readiness	1

			Semester Hrs
General Education Requirements			**15**
ENGL	1301	Composition I	3
PSYC	2301	General Psychology	3
Math (*from OC Core*)			3
Humanities (*from OC Core*)			3
SPCH	1318	Interpersonal Communication	3
Total Semester Hours			**60**

Course of Study for Certificate of Completion

Level II – Surgical Technology

HPRS	1106	Essentials of Med. Terminology	1
SRGT	1505	Intro to Surgical Technology	5
SRGT	1509	Fundamentals of Perioperative Concepts & Techniques	5
BIOL	2401	Anatomy & Physiology I	4
BIOL	2402	Anatomy & Physiology II	4
BIOL	2421	Microbiology for Science Majors	4
SRGT	1260	Clinical I	2
SRGT	1560	Clinical II	5
SRGT	2463	Clinical III	4
SRGT	1541	Surgical Procedures I	5
SRGT	1542	Surgical Procedures II	5
SRGT	2130	Professional Readiness	1
Total Semester Hours			**45**

Surgical Courses

SRGT 1260 Surgical Technology Clinic I
(51.0909) (0-8) 2 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. As outlined in the learning plan, apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. Insurance fee required. (ICOs 1, 2, 4, 5) Prerequisite: SRGT 1505. Corequisites: BIOL 2401, SRGT 1509, HPRS 1106.

SRGT 1505 Introduction to Surgical Technology
(51.0909) (4-3) 5 hours
Orientation to surgical technology theory, surgical pharmacology and anesthesia, technological sciences, and patient care concepts. Lab fee required. (ICOs 1, 2, 3, 4, 5, 6) Corequisites: BIOL 2401, SRGT 1509, SRGT 1260, HPRS 1106.

SRGT 1509 Fundamental of Perioperative Concepts & Techniques
(51.0909) (4-3) 5 hours
In-depth coverage of perioperative concepts such as aseptic principles and practices, infectious processes, wound healing, and creation and maintenance of the sterile field. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisite: SRGT 1505. Corequisite: BIOL 2401, SRGT 1260, HPRS 1106.

SRGT 1541 Surgical Procedures I
(51.0909) (0-5) 5 hours
Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the general, OB/GYN, genitourinary, otorhinolaryngology, and orthopedic surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. (ICOs 1, 2, 4, 5) Prerequisites: SRGT 1505, SRGT 1509, SRGT 1260, BIOL 2401, HPRS 1106. Corequisites: BIOL 2402, SRGT 1560.

SRGT 1542 Surgical Procedures II
(51.0909) (0-5) 5 hours
Introduction to surgical pathology and its relationship to surgical procedures. Emphasis on surgical procedures related to the cardiothoracic, peripheral vascular, plastic/reconstructive, ophthalmology, oral/maxillofacial, and neurological surgical specialties incorporating instruments, equipment, and supplies required for safe patient care. Lab fee required. (ICOs 1, 2, 4, 5) Prerequisites: SRGT 1505, SRGT 1509, SRGT 1260, SRGT 1541, SRGT 1560, BIOL 2401, BIOL 2402, HPRS 1106. Corequisites: SRGT 2130, SRGT 2463.

SRGT 1560 Surgical Technology Clinic II
(51.0909) (0-30) 5 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Insurance fee required. (ICOs 1, 2, 3, 4, 5, 6) Prerequisites: SRGT 1505, SRGT 1509, SRGT 1260, BIOL 2401, HPRS 1106. Corequisites: BIOL 2402, SRGT 1541.

SRGT 2463 Surgical Technology Clinic III
(51.0909) (0-16) 4 hours
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.(ICOs 1, 2, 3, 4, 5, 6) Prerequisites: SRGT 1505, SRGT 1509, SRGT 1260, SRGT 1541, SRGT 1560, BIOL 2401, BIOL 2402, HPRS 1106. Corequisites: SRGT 2130, SRGT 21542, BIOL 2421.

SRGT 2130 Professional Readiness
(51.0909) (0-1) 1 hours
Overview of professional readiness for employment, attaining certification, and maintaining certification status. (ICOs 1, 2, 5, 6) Prerequisites: SRGT 1505, SRGT 1509, SRGT 1260, SRGT 1541, SRGT 1560, BIOL 2401, BIOL 2402, HPRS 1106. Corequisites: SRGT 2130, SRGT 2154, BIOL 2421.

Teacher Education

www.odessa.edu/dept/education

Faculty: Dr. Kathy Jones, chair

Odessa College offers four degree options for the Associate of Arts in Teaching which require at least 60 semester credit (SCH) hours of coursework. The Associate of Arts in Teaching (AAT) is a specialized academic associate degree program designed to transfer in its entirety to a baccalaureate program that leads to initial Texas teacher certification. The curriculum provided in this associate degree is approved by the Texas Coordinating Board.

Students considering education as a major can explore the realities, challenges, and rewards of teaching through various courses and field observations in PK-12. Through the curricular activities, the students will be able: 1) to acquire an overview of the teaching profession in PK-12 level, and 2) to gain an awareness of teaching diverse learners.

Students considering education as a major must be free of a felony or misdemeanor convictions for any crime directly related to the duties and responsibilities of the teaching profession. A student with a conviction must consult the Chair of the Education Department.

Course of Study for Associate of Arts in Teaching Degree – Elementary to 6th Grade

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
Math	1314	College Algebra	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Component Area Option			3
Component Area Option			1
Language, Philosophy & Culture (*from OC Core)*			3
Life and Physical Science (*from OC Core)*			8
Creative Arts (*from OC Core)*			3

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
Life and Physical Science (from OC Core)			4
Math	1350	Fundamentals of Math I	3
MATH	1351	Fundamentals of Math II	3
KINE	1206	First Aid	2

Course of Study for Associate of Arts in Teaching Degree –All Level Art

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Math	1314	College Algebra **OR**	
	1342	Elementary Stastics	3
American History (*from OC Core)*			6
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area Option			3
Component Area Option			1

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
Teaching Field (approved ARTS courses)			12

Course of Study for Associate of Arts in Teaching Degree – All Level English

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Math	(*approved course from OC Core*)		3
American History (*from OC Core)*			6
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area Option			3
*Component Area Option			1

*This component area option is only needed if a 3 SCH Math course was selected

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
Teaching Field (approved ENGL courses)			12

Course of Study for Associate of Arts in Teaching Degree – Secondary History

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Math	(*approved course from OC Core*)		3
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area Option			3
*Component Area Option			1

*This component area option is only needed if a 3 SCH Math course was selected

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
HIST	2311	Western Civilizations I	3
HIST	2312	Western Civilizations II	3
Teaching Field (approved HIST courses)			6

Course of Study for Associate of Arts in Teaching Degree – All Level Kinesiology

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition & Rhetoric I	3
ENGL	1302	Composition II	3
SPCH	1315	Introduction to Public Speaking	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
HIST	1301	United States History I	3
HIST	1302	United States History II	3
KINE	1166	CPR	1
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
BIOL	1406	General Biology I	4
BIOL	1407	General Biology II	4
Math	(*approved course from OC Core*)		3
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
KINE	1301	Introduction to Physical Fitness Sport	3
KINE	1346	Drug Use and Abuse	3
KINE	1304	Nutrition	3
KINE	1206	First Aid	2
KINE	1100	Lifestyle Assessment and Modification	1

Course of Study for Associate of Arts in Teaching Degree – Secondary Math

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
MATH	2413	Calculus I	4
American History (*from OC Core)*			6
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area Option			3

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
MATH	2414	Calculus II	4
MATH	2415	Calculus III	4
Teaching Field (approved ENGL courses)			3
*Component Area Option			1

*If Calculus I was not taken in the core, Calculus I can be applied to the teaching field area in place of the elective math and component area.

Course of Study for Associate of Arts in Teaching Degree – Secondary Science

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Math	(*approved course from OC Core*)		3
American History (*from OC Core)*			6
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
Creative Arts (*from OC Core)*			3
Component Area Option			3
*Component Area Option			1

*This component area option is only needed if a 3 SCH Math course was selected

			Semester Hrs
Major Requirements			**18**
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
Teaching Field (approved courses)			12

Course of Study for Associate of Arts in Teaching Degree –All Level Spanish

			Semester Hrs
Core Curriculum Requirements			**42**
ENGL	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
PSYC	2308	Child Psychology **OR**	
	2314	Lifespan Growth and Development	3
Math	(*approved course from OC Core*)		3
American History (*from OC Core)*			6
Life and Physical Science (*from OC Core)*			8
Language, Philosophy, & Culture (*from OC Core)*			3
DRAM	1310	Introduction to Theater	3
Component Area Option			3
*Component Area Option			1

*This component area option is only needed if a 3 SCH Math course was selected

			Semester Hrs
Major Requirements			18
EDUC	1301	Introduction to Teaching	3
EDUC	2301	Introduction to Special Populations	3
Teaching Field (approved SPAN courses)			12

Teacher Education Courses

EDUC 1301 Introduction to the Teaching Profession
(13.0101.5109) (3-1) 3 hours
An enriched integrated pre-service course and content experience that: 1) provides active recruitment and support of undergraduates interested in a teaching career; 2) provides students with opportunities to participate in early field experiences including elementary, middle and high school classrooms with varied and diverse student populations; 3) provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introducing and analyzing the culture of schooling and classrooms; 4) course content is aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; and 5) includes 16 contact hours of field experience in P-12 classrooms. (ICOs 2, 4, 5, 6). Prerequisite: None.

EDUC 2301 Introduction to Special Populations
(13.0101.5109) (3-1) 3 hours
An enriched integrated pre-service course and content experience that: 1) provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity and equity with an emphasis on factors that facilitate learning; 2) provides students with opportunities to participate in early field observations of P-12 special populations; 3) course content is aligned as applicable with State Board for Educator Certification Pedagogy and Professional Responsibilities standards; 4) includes 16 contact hours of field experience in P-12 classrooms with special populations. (ICOs 1, 3). Prerequisite: EDUC 1301.

VOCATIONAL NURSING (see Nursing – Vocational)

Theater

Faculty: Mark Kolokoff

This Associate of Art in Theatre Performance degree program provides a foundation in theater arts and is designed for students who are interested in pursuing a Bachelor of Arts degree in Drama/Theater with an acting/performance emphasis from a four-year university. It provides a basic foundation in acting, stage and vocal techniques, theatre history and literature, "hands on experience" in several theatre arts disciplines and the cultural and historical background necessary for understanding Theatre Arts. This degree may be of interest to those seeking a foundation in related disciplines, such as television, film, communications or educational theatre.

Course of Study for Associate in Arts Degree – Theater

			Semester Hrs
Major Requirements			**18**
DRAM	1351	Acting I	3
DRAM	1352	Acting II	3
DRAM	2351	Acting III	3
DRAM	1322	Stage Management	3
DRAM	2361	History of Theater	3
DRAM	1120	Theater Practicum I	1
DRAM	1121	Theater Practicum II	1
DRAM	2120	Theater Practicum III	1
General Education Requirements			**15**
ENLG	1301	Composition I	3
ENGL	1302	Composition II	3
GOVT	2305	Federal Government	3
GOVT	2306	Texas Government	3
SPCH	1144	Forensic Activities I	1
SPCH	1145	Forensic Activities II	1
SPCH	2144	Forensic Activities III	1
MATH (*from OC Core*)			3
Life and Physical Science (*from OC Core*)			8
Language, Philosophy, & Culture (*from OC Core*)			3
Social and Behavioral Sciences (*from OC Core*)			3
Component Area Option *(from OC Core)*			1
Creative Arts (*from OC Core*)			3
American History (*from OC Core*)			6
Total Semester Hours			**60**

Drama Courses

DRAM 1310 Introduction to Theatre
(50.0501.5126) (3-0) 3 hours
Survey of theater including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Participation in productions may be required. (ICOs 1, 2, 4, 5) Prerequisite: None.

DRAM 1322 Stage Movement
(50.0506.5426) (3-0) 3 hours
Principles, practices, and exercises in body techniques and stage movement; emphasis on physical strength and flexibility, release of tension, awareness and elimination of habitual behaviors that get in the way of clear expression and work toward the specific and unique physicality of each character portrayed by the actor. (ICOs 1, 2, 4, 5) Prerequisite: None.

DRAM 1351 Acting 1
(50.0506.5126) (3-0) 3 hours
An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. (ICOs 1, 2, 4, 5) Prerequisite: None.

DRAM 1352 Acting II
(50.0506.5126) (3-0) 3 hours
Exploration and further training within the basic principles and tools of acting, including an emphasis on critical analysis of oneself and others. The tools include ensemble performing, character and script analysis, and basic theater terminology. This will continue the exploration of the development of the actor's instrument: voice, body and imagination. (ICOs 1, 2, 4, 5) Prerequisite: DRAM 1351 or consent of the instructor.

DRAM 2351 Acting III
(50.0506.5126) (3-0) 3 hours
Development of basic skills and techniques of acting including increased sensory awareness, ensemble performing, character analysis, and script analysis. Emphasis on the mechanics of voice, body, emotion, and analysis as tools for the actor. (ICOs 1, 2, 4, 5, 6) Prerequisites: DRAM 1352.

DRAM 2361 History of Theater I
50.0505.5126
Study of the history of theater from primitive times through the Renaissance. Analyze the history of theater through written responses to historic texts, artifacts, and performance practices. Identify essential terminology related to the history of theater. Evaluate current productions of historical plays through an understanding of their original production conditions. Evaluate the interaction between theater and society. (ICOs 1, 2, 4, 5)

DRAM 1120 Theater Practicum I
DRAM 1121 Theater Practicum II
DRAM 2110 Theater Practicum III
50.05055326
Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions. Use collaboration in the creation of theatrical productions. Demonstrate the practical application of appropriately leveled theatrical skills and procedures. Apply critical thinking skills required for the creation of a theatrical production. (ICOs 1, 2, 3, 4, 5)

Welding – Industrial Welding Technology

www.odessa.edu/dept/welding

Faculty: James Mosman, chair; Roy Jones

The associate in applied science degree in industrial welding technology 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, and layout to interpret engineers' plans and instructions and to work as a supporting technician with minimum orientation.

While a certificate of technology with an emphasis in welding technology will prepare the student to be an effective employee, the associate in applied science degree provides the necessary educational background for advancing in positions of even greater responsibility in the industry.

Course of Study for Associate in Applied Science Degree – Industrial Welding Technology

			Semester Hrs
Major Requirements			**39**
WLDG	1417	Introduction to Layout and Fabrication	4
WLDG	1421	Welding Fundamentals	4
WLDG	1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	1337	Introduction to Metallurgy	3
WLDG	2381	Cooperative Education – Welding/Welding Technologist	3
WLDG	2406	Intermediate Pipe Welding **OR**	
WLDG	2451	Advanced Gas Tungsten Arc (GTAW)	4
WLDG	2413	Intermediate Welding Using Multiple Processes **OR**	
WLDG	2435	Advanced Layout and Fabrication	4
Additional Welding course			4
General Education Requirements			**15**
Language, Philosophy, & Culture OR Creative Arts		*(from OC Core)*	3
MATH	1333	Contemporary Mathematics II	3
SOCI	1306	Social Problems OR	
	PSYC	2301 General Psychology	3
ARTS		(from OC Core)	3
SPCH	1321	Business & Professional Communication	3
Technical Core			**7**
BMGT	1301	Supervision	3
MCHN	1438	Machining I – Basic Machine Shop I	4
Total Semester Hours			**60**

Course of Study for Certificates of Technology

Certificates of technology are available in the following job-specific fields. See the department chair for course requirements and Permian Basin job opportunities.

Level I certificates are Texas Success Initiative (TSI) waived.

Level I – General Welder

			Semester Hrs
WLDG	1417	Introduction to Layout and Fabrication	4
WLDG	1421	Welding Fundamentals	4
WLDG	1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	2413	Intermediate Welding Using Multiple Processes	4
Total Semester Hours			**24**

Level I – Advanced Welder

			Semester Hrs
WLDG	1417	Introduction to Layout and Fabrication	4
WLDG	1421	Welding Fundamentals	4
WLDG	1430	Introduction to Gas Metal Arc Welding (GMAW)	4
WLDG	1434	Introduction to Gas Tungsten Arc (GTAW) Welding	4
WLDG	1435	Introduction to Pipe Welding	4
WLDG	1337	Introduction to Metallurgy	3
WLDG	2406	Intermediate Pipe Welding	4
WLDG	2435	Advanced Layout & Fabrication	4
Total Semester Hours			**31**

Welding Technology Courses

WLDG 1408 Metal Sculpture
(48.0508) (2-6) 4 hours
Techniques and methods of oxy-fuel and electric welding and cutting to produce metal sculptures. Skill development in material forming, welding, brazing, and finishing techniques. Includes work ethics, artistic styles, and professionalism. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: Consent of department chair.

WLDG 1417 Introduction to Layout and Fabrication
(48.0508) (2-6) 4 hours
A fundamental course in layout and fabrication related to the welding industry. Major emphasis is on structural shapes and use in construction. The student will identify welding symbols; identify and select measuring instruments and tools for fabricating projects; recognize correct layout and fabrication terminology; and identify structural shapes and materials. The student will be responsible for choosing the proper procedures, tools and equipment to perform assigned actions and be able to explain these actions. Lab fee required. (ICOs 1, 2, 3) Prerequisite or Corequisite: WLDG 1421 or consent of department chair.

WLDG 1421 Welding Fundamentals
(48.0508) (2-6) 4 hours
An introduction to the fundamentals of equipment used in the oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy. The student will demonstrate safety procedures associated with oxy-fuel and arc process; perform basic welds using oxy-fuel and arc welding equipment; and identify ferrous and nonferrous metals. The student will acquire and evaluate information pertaining to the use of torches and regulators, flame adjustment, and arc welding on common metals and safe procedures for handling welding equipment. Emphasis is placed on student's ability to acquire and apply new knowledge and skills. Lab fee required. (ICOs 1, 4, 5) Prerequisite: None.

WLDG 1430 Introduction to Gas Metal Arc Welding (GMAW)
(48.0508) (2-6) 4 hours
Principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs. The student will describe welding positions with various joint designs on plate; describe safety rules and equipment used; describe the efforts of welding parameters in GMAW; and understand safety rules, equipment used and testing performed by visual inspection. Student will weld various types of structural material and diagnose welding problems and perform visual inspections. Lab fee required. (ICOs 1) Prerequisite or Corequisite: WLDG 1421 or consent of department chair.

WLDG 1434 Introduction to Gas Tungsten Arc (GTAW) Welding
(48.0508) (2-6) 4 hours
An introduction to the principles of gas tungsten arc welding (GTAW), including setup, GTAW equipment. Instruction in various positions and joint designs.. Lab fee required. (ICOs 1) Prerequisite or Corequisite: WLDG 1421 or consent of the department chair.

WLDG 1435 Introduction to Pipe Welding
(48.0508) (2-6) 4 hours
An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 1G and 2G using various electrodes. The student will describe equipment and required pipe preparation and perform 1G and 2G welds using various electrodes. Student will be required to evaluate their performance abilities to troubleshoot potential problems. Student will learn to decipher coding system for AWS and proper use of available materials and equipment. Lab fee required. (ICOs 1, 3, 5) Prerequisite: WLDG 1421 or consent of department chair.

WLDG 1337 Introduction to Metallurgy
(48.0508) (2-6) 3 hours
A study of ferrous and nonferrous metals from the ore to the finished product. Emphasis on metal alloys, heat treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability and ductility. The student will describe technical terms used in the various phases of metallurgy, from early history to classification of steel. The student will discuss ferrous and nonferrous metals and how they are processed and used in industry; and describe mechanical and physical properties, surface treatment and heat treatment of metals. Lab fee required. (ICOs 1, 2) Prerequisite: None.

WLDG 2381 Cooperative Education – Welding Technology/ Welder
(48.0508) (1-20) 4 hours
Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. As outlined in the learning plan, the student will master the theory, concept and skills involving the tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in 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. (ICOs 1, 2, 4, 5, 6) Prerequisite: Consent of department chair.

WLDG 2406 Intermediate Pipe Welding
(48.0508) (2-6) 4 hours
A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Welding will be done using various positions. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices. Topics also include ferrous and nonferrous materials. The student will describe equipment and required pipe preparation. Emphasizes technology of welding carbon steel pipe with LH 7018 Welds tested by AWS standards. This is a capstone course for the Pipe Welder Level I Certificate, Certified Welder Level I Certificate, and the Lead Welding Machine Operator Level II Certificate. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisites: WLDG 1421 and WLDG 1435.

WLDG 2413 Intermediate Welding Using Multiple Processes
(48.0508) (2-6) 4 hours
Instruction using layout tools and blueprint reading with demonstration and guided practices with some of the following welding processes; oxy-fuel gas cutting and welding, shield metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), gas tungsten arc welding (GTAW) or any other approved welding process. The student will identify proper safety equipment and tools and identify and select the proper welding process for a given application. The student will demonstrate skills training using more than one approved welding process; demonstrate ability to analyze situations and make proper decisions using skills as taught; and select the most economical and practical welding process for the given task. This is a capstone course for the General Welder Level I Certificate and the Lead Welding Machine Operator Level II Certificate. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisites or Corequisites: WLDG 1413, WLDG 1421, WLDG 1430, WLDG 1434 and consent of department chair.

WLDG 2435 Advanced Layout and Fabrication
(48.0508) (2-6) 4 hours
An advanced course in layout and fabrication. Includes production and fabrication of layout, tools, and processes. Emphasis on application of fabrication and layout skills. The student will apply appropriate techniques of fabrication; design welding projects; prepare drawings and produce templates. Apply layout offsets; take offs; bills of materials; and apply mathematical concepts in the construction of projects. This is a capstone course for the Fitter Welder Level I Certificate and the Lead Welding Machine Operator Level II Certificate. Lab fee required. (ICOs 1, 2, 3, 4) Prerequisites: WLDG 1417 and consent of department chair.

WLDG 2440 Studio Problems in Art Metals
(48.0508) (2-6) 4 hours
Project development in an open-studio atmosphere. Individualized instruction to encourage skill combinations and experimentation. Topics include portfolio preparation and presentation. Students will identify and demonstrate appropriate techniques for the desired results; explain optimum design selection; follow basic shop safety procedures; and acquire skills in optimum material usage and production. This course may be substituted for a required welding course at the discretion of the department chair. Lab fee required. (ICOs 1, 2, 3, 4, 5) Prerequisite: WLDG 1408.

WLDG 2451 Advanced Gas Tungsten Arc Welding (GTAW)
(48.0508) (2-6) 4 hours
Advanced topics in GTAW welding, including welding in various positions and directions. (Positions include 1G, 2G, 5G, and 6G.) The student will describe and demonstrate safety rules and equipment used; and the effects of welding parameters in GTAW. The student will weld various joint designs; diagnose welding problems; and perform visual inspections. Welds tested by AWS standards. This is a capstone course for the Lead Welding Machine Operator Level II Certificate. Lab fee required. (ICOs 1) Prerequisites: WLDG 1434.

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Index

A

B

C

D

E

F

G

I

K

L

M

N

O

P

R

S

T

V

W