

Arizona Western College

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ABOUT THE 2014–2015 AWC CATALOG

The contents of this catalog **supercedes** the content specified in the 2013–2014 catalog.

EQUAL OPPORTUNITY POLICY AND STUDENTS WITH DISABILITIES

Arizona Western College does not discriminate in admission or access to, or treatment or employment in, its services, programs, or activities on the basis of race, color, national origin, sex, religion, age (40+) or disability, in compliance with the laws of the United States and the state of Arizona. The College seeks to provide disabled or handicapped students with any reasonable accommodation in order to facilitate access to College classes and activities. Students seeking such an accommodation should make an official request at Advisement Services or AccessABILITY Resource Services located in the College Community Center (3C) on campus. Any questions regarding the applicability of state and federal anti-discrimination laws to Arizona Western College and its services, programs or activities, and any grievances or claims of violation of such laws, should be directed to its compliance officer:

Director of Human Resources

P.O. Box 929
Yuma, AZ 85366-0929
(928) 344-7515

ACCREDITATION

Arizona Western College is accredited by The Higher Learning Commission and is a member of the North Central Association.

The Higher Learning Commission

30 N. LaSalle Street, Suite 2400
Chicago, IL 60602-2504
(800) 621-7440

DRUG FREE SCHOOLS AND CAMPUSES

Drug and alcohol abuse is known to cause many health risks that could prevent persons from attaining their full physical and mental potential. Consequently, AWC fully supports the intent of the Drug Free Schools and Communities Act Amendments of 1989. Arizona Western College will provide a drug and alcohol-free environment for its employees and students. On campus possession or consumption of alcoholic beverages or a state of intoxication by any person is prohibited. The manufacture or cultivation, distribution, dispensing, possession, or use of any type of controlled substances (including, but not limited to, barbiturates, opiates, marijuana, amphetamines, or hallucinogens) or aiding in the use of such by anyone is prohibited.

TOBACCO FREE SCHOOLS AND CAMPUSES

Starting July 1, 2014, Arizona Western College will join approximately 800 colleges and universities nationwide to be Tobacco Free. AWC already prohibits smoking inside its buildings. The policy, effective July 1, 2014 prohibits all manner of smoking, as well as the use of smokeless tobacco products, and applies to all properties owned, leased or controlled by the college, whether indoors or outdoors.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA) *See Students Rights & Responsibilities section*

Disclaimer

This catalog does not constitute a contract, or comprise the terms and conditions of a contract, between the student and Arizona Western College. The College reserves the right to change any of the provisions or requirements set out in this Catalog at any time and for any reason, with or without notice, including but not limited to the following: (1) adding, deleting, or making changes to College programs, class requirements, or prerequisites, (2) modifying the number of units required to obtain a degree, (3) increasing tuition and fees from semester to semester, and (4) changing date references on any calendar or date listings. Any and all such changes shall be applicable to all students, whether new or continuing. In addition, the College further reserves the right to deny admission, cancel registration, or ask a student to withdraw when it considers such action to be in the best interests of the College.

Several sections of this catalog are hereby declared to be independent and severable; and, if any section, subdivision, word, sentence, or clause in this catalog be held void or non-enforceable, such holding shall not affect the validity of enforcement of any other part of this catalog which can be given effect without the invalid or non-enforceable portion.

Any changes made to the catalog during the course of the academic year will be posted on an addendum page at http://www.azwestern.edu/Course_Catalog.html.

A Message from the President

Welcome to Arizona Western College! I hope this Catalog will encourage your further exploration of our college. In addition to detailed information of our many credit programs, the Catalog highlights our excellent support services that will assist you from registration to graduation and transfer. Serving a diverse population across an expansive geographic area in the desert southwest, AWC has created an outstanding collegial environment where learning occurs across multiple learning centers in Yuma and La Paz counties.

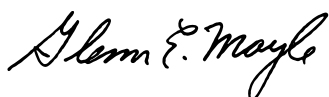
Arizona Western College offers a sense of history and tradition combined with unprecedented progress in the development of instructional facilities and the technological support of instruction. The essence of the learning environment at AWC is the talent and dedication of our faculty and staff. It is through their creative efforts that our students are literally surrounded by opportunities to learn and to enrich their lives both inside and outside the classroom. Opportunities for personal achievement abound, including student activities and organizations, cultural and athletic events, forums, workshops, and speakers.

If your goal is to pursue a baccalaureate or higher degree, AWC offers a comprehensive array of transfer opportunities, including options for seamless transition into upper level and even graduate programs offered by Northern Arizona University and the University of Arizona. The Yuma Branch Campus of Northern Arizona University is fully integrated with our Yuma campus, sharing facilities and often sharing faculty and staff. With 50 years of success in preparing students for university study, AWC continues to strengthen its reputation for excellence through a dynamic transfer curriculum.

If your interest is technical study, AWC offers numerous options leading directly to employment. Many of our programs can be pursued at either the certificate or degree level, allowing students to progress into a technical discipline in well-defined stages. All of our technical programs are carefully aligned with professional and industrial standards, assuring their competitiveness while increasing the probability of employment for our students. And though the primary intent of our technical curriculum is to make our students ready for work, we are also developing transfer options with our university partners.

It is an exciting time to be at AWC, and I am glad you have decided to join us at our main campus in Yuma or at one of our learning centers in San Luis, Somerton, Parker, Quartzsite, or Wellton. Regardless of place or method of instruction, you will find Arizona Western College's commitment to making a difference in the life of every student.

Sincerely,



Dr. Glenn E. Mayle
AWC President



Dr. Glenn E. Mayle

THE HISTORY OF ARIZONA WESTERN COLLEGE



Arizona Western College was the first community college established under the Arizona Community College Law of 1960, sponsored by the late Senator Harold Giss of Yuma.

In 1961, an overwhelming majority of the electorate of Yuma County approved the establishment of a community college district. The College became the first institution of higher education established in Arizona since 1920, when Phoenix College was founded.

After considering various sites, the College acquired the use of a 640-acre site from the U.S. Bureau of Reclamation ten miles east of the city of Yuma for the new college. Construction of the original thirteen buildings was accomplished during 1961–1963 and the first class of students enrolled for the Fall Semester 1963.

The College has grown substantially since it opened. The College district encompasses 10,037 square miles, the size of the original Yuma County; however, in 1983, northern Yuma County voted to form its own

county, creating La Paz County. Thus, the college district now serves two counties with a population in excess of 200,000. Because of the large district, residence halls were built to better serve the students living beyond commuting distance. More buildings were built as the need arose and capital funds were available.

Today, thirty-seven buildings are on the main campus with additional buildings owned or leased in numerous off-campus locations including the Entrepreneurial Center and centers in Somerton, San Luis, Parker, Quartzsite, and Wellton. Additional learning sites are leased from local schools, mobile home parks, and other community agencies.

In 1988, Arizona Western College and Northern Arizona University entered into a collaborative agreement to bring comprehensive post-secondary education to southwest Arizona. Students throughout the area have benefited from the opportunity to attain associate, baccalaureate, master's degrees, and an educational doctorate at the AWC campus.

The two schools share classrooms, library resources, and faculty members to provide a variety of services to students enrolled in both institutions. In 1996, Arizona Western College, the University of Arizona, and Northern Arizona University began a cooperative baccalaureate degree in Agricultural Systems Management.

To provide even more opportunities for the residents of Yuma and La Paz counties, Arizona Western College partners with other colleges and universities in implementing transfer articulated pathway programs. In addition to the collaboration with Northern Arizona University-Yuma, programs exist with The University of Arizona, Arizona State University, the University of Phoenix, Grand Canyon University, Charter Oak State College, and Western International University.

AWC enrollment has grown from 930 students in the Fall Semester of 1963, to more than 13,000 students (unduplicated headcount) a year.

ACADEMIC CALENDAR 2014–2015

More information on important dates pertaining to the academic calendar may be found on the Arizona Western College website at https://www.azwestern.edu/Office_of_the_President/academic_calendar.html

Fall Semester 2014

Classes Begin..... Monday, August 18

Drop/Add.....Monday–Friday, August 18–22

Labor Day..... **No Classes**
Monday, September 1

Last Day to Withdraw.....Thursday, November 6

Veterans Day **No Classes**
Monday, November 11

Thanksgiving Day **No Classes**
Thursday–Friday
November 11

Last Day of Classes Thursday, December 4

Final Examination Week..... Monday–Thursday,
December 8–11

Spring Semester 2015

Classes Begin..... Monday, January 12

Drop/Add.....Monday–Friday,
January 12–16

Birthday of Martin Luther King Jr. **No Classes**
Monday, January 19

Faculty Professional Development **No Classes**
Thursday, February 12

Washington’s Birthday..... **No Classes**
Monday, February 16

Spring Break..... **No Classes**
Monday–Friday,
March 30–April 3

Last Day to Withdraw..... Thursday, April 9

Last Day of Classes Thursday, May 7

Final Examination Week..... Monday–Thursday,
May 11–14

Commencement..... Friday, May 15

AWC MISSION

Arizona Western College offers educational, career, and lifelong learning opportunities through innovative partnerships which enhance the lives of people in Yuma and La Paz counties.



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CAMPUS CENTERS

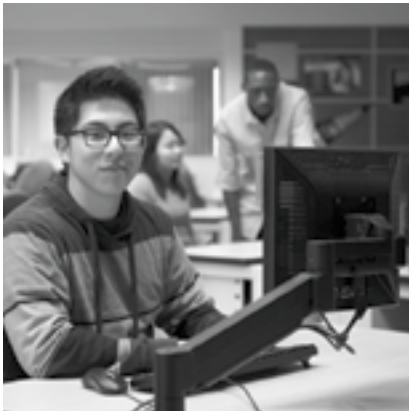
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General Information

Seven Steps to Graduation

Admission

Placement/Testing

Financial Aid

Program Choice and Advising

Registration and Fees

Academic Policies and Regulations

Students Rights and Responsibilities

THE SEVEN STEPS

Thank you very much for submitting your application for admission and welcome to AWC. Now that you are a member of the AWC family—faculty, administrators, board members, staff, students, and alumni—we invite you to follow these seven steps which take you from admission to graduation.

Step 1

Admission

Once you submit your application and have been admitted, check further in the Admission section for specific information about your student status and if you qualify for other special programs and considerations.

Step 2

Placement/Testing: The Testing Center

Your next step is to take a series of placement tests (English, reading, mathematics) in the Testing Center, located in the College Community Center (3C). For further details on these tests, the Testing Center, and their website see the Placement section.

Step 3

Financial Aid and Scholarships

Do you need financial assistance to help you achieve your dream of graduation? See the Financial Aid and Scholarships section to see if you qualify for federal funds and/or for various scholarships or work study programs.

Step 4

Activate Your AWC NetID Account

Your NetID account is used to access WebAdvisor, Toromail, and Blackboard. The NetID is also required to log in to AWC computers and to access other AWC online services. To activate your NetID Account, visit **accounts.azwestern.edu**.

If you have any questions or need assistance please contact the Help Desk at (928) 317-5892 or helpdesk@azwestern.edu.

Step 5

Discover AWC/Register for Courses

All new students are strongly encouraged to attend a Discover AWC session. Once you attend this session, you will have an opportunity to meet with an Academic Advisor to help you decide on a career, choose a major, and select appropriate courses. Visit **www.azwestern.edu/orientation** to find out more.

Get a head start by reviewing the Advising Worksheet found at **www.azwestern.edu/advisement** which will guide you through the different General Education core requirements imbedded into all AWC degrees.

If you cannot attend a Discover AWC session, call (928) 344-7624 to schedule an appointment with an Academic Advisor on the Main Campus. Visit **www.azwestern.edu/advisement** for other campus locations.

To register in person, use the Registration Form. To view an up-to-date schedule and to register online, log in to WebAdvisor.

Once you have registered, you are strongly encouraged to attend an Explore AWC Orientation session. Go to **www.azwestern.edu/orientation** to find out more.

Step 6

Getting Involved/Getting Support

Get involved and engaged! Now that you have chosen your classes the next step is to figure out how to get involved on campus. AWC offers many opportunities for students to “learn” outside the classroom. Go to the Student Support Services and Activities section to find out the many ways you can get involved on campus. Research shows that students who get involved on campus have a higher chance of reaching their academic goals.

Step 7

Graduation

During the last semester in which you are completing your program requirements, you will need to fill out the application for graduation; the procedures for this process are explained under Graduation.

ADMISSION

In this section, you will find information on Admission and Re-admission Criteria, Residency Determination, and Special Considerations. Contact the Admissions and Registration Office at (928) 344-7550 with any questions you may have regarding the admissions process at Arizona Western College.

Admission Application

All persons must submit a completed admission application. Additional documentation may be requested to clarify or verify information provided by applicants for admission to Arizona Western College. Falsification or misrepresentation of information provided to Arizona Western College is sufficient grounds for immediate dismissal from this institution.

Admission to the College does not guarantee enrollment in any particular program or course. An individual who has been admitted to the College, but who for any reason has been denied permission to enroll in a particular program, or in one or more courses, may appeal the decision to the Director of Admissions/Registrar.

Admission to the College automatically provides you with a student identification number.

Admission Criteria

A. Regular Admission

Admission may be granted to any person who meets one of the following criteria:

1. is a graduate of a high school which is accredited by a regional accrediting association as defined by the United States Department of Education or approved by a State Department of Education or other appropriate state educational agency.
**Foreign high school credentials may require external validation of U.S. high school equivalence,*
2. has a high school certificate of equivalency,
3. is 18 years of age or older and demonstrates evidence of potential success in the community college, or
4. is a transfer student in good standing from another college or university.

B. Special admission of students under age 18

The college may limit the number of semester credit hours in which a student may enroll to no more than six semester credit hours. A student admitted under this section is not guaranteed admission to a specific degree program or to all courses by the community college.

Signature of parent or guardian is required for persons under 18.

1. Admission shall be granted to any student who is under 18 years of age and achieves one of the following:
 - a. a composite score of 930 or more on the preliminary Scholastic Aptitude Test (SAT)
 - b. a composite score of 930 or more on the SAT
 - c. a composite score of 22 or more on the American College Test (ACT)
 - d. a passing score on the relevant portions of the Arizona Instrument to Measure Standards Test (AIMS)
 - e. the completion of a college placement test designated by the college that indicates the student is at the appropriate college level for the course
 - f. is a graduate of a private or public high school or has a high school certificate of equivalency
2. Home schooled students are exempt from this subsection.
3. Students may be admitted on an individual basis with the approval of college officials if the student meets the established requirements of the courses for which the student enrolls and the college officials determine that the student's admission is in the best interest of the student.
4. Students under the age of 16 are required to meet with a college official (academic advisor) and complete an Underage (16 years and younger) Student Enrollment Agreement Form and have a parent or guardian approval before registering for courses.

C. Transfer Student Admission

Transfer students applying for admission to Arizona Western College must meet requirements and submit all items specified under "Admission Criteria."

Students from a regionally accredited institution may be given credit for college level work. At the student's request, the Transcript Evaluation Specialist will review official copies

of prior coursework and determine which courses are equivalent to or substitutes for AWC courses. Refer to the Transferring Credit to Arizona Western College section in this catalog for more information.

Arizona Western College does not knowingly admit persons who are under suspension or expulsion from other educational institutions. Failure to report attendance at a previous college or university, falsification, or misrepresentation of facts on admission forms is sufficient grounds for immediate dismissal from Arizona Western College.

D. International Student Admissions

International students are persons who are not citizens or residents of the United States of America who enter the US for the purpose of studying at a US educational facility. International students require a student visa to enter the US for the purpose of studying.

To attend Arizona Western College, international students must:

- be 18 years of age or have completed secondary education
- complete and submit an international admissions application, signed by the applicant
- submit a non-refundable \$25.00 processing fee
- submit secondary academic transcripts, certified and translated to English
- submit financial evidence to meet one year living and college expenses at Arizona Western College
- provide proof of US medical/accident insurance or purchase insurance upon arrival at Arizona Western College
- meet one of the following English language requirements:
 - submit proof of a score of 500 or higher on the paper based Test of English as a Foreign Language (TOEFL); 173 on the computer based test
 - other proof of English proficiency (IELTS)
 - enroll in Arizona Western College English as a Second Language course work

Students planning to live in the residence halls must submit the following documents in addition to the college admission application:

- a residence hall application
- \$100 deposit
- proof of immunizations: 1 & 2 MMR (measles, mumps, and rubella)

AWC welcomes citizens from the bordering countries of Canada and Mexico as full-time international students, responsible for meeting all international student requirements. AWC participates in the F-3 Border Commuter student program which allows students from bordering countries to commute daily from their homes to the college for the purpose of attending classes. For information and questions regarding international student admissions con-

tact the International Student Programs Office at (928) 344-7699 or email to intstudent@azwestern.edu.

E. Western Undergraduate Exchange Program

The Western Undergraduate Exchange Program (WUE) is a student exchange program coordinated by the Western Interstate Commission for Higher Education (WICHE), and administered by the Arizona Board of Regents. Students who are residents of Alaska, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota,, Oregon, South Dakota, U.S. Pacific Territories and Freely Associated States, Utah, Washington, and Wyoming are eligible for the WUE program and pay 150 percent of the regular resident tuition plus fees. Students must submit an application for the WUE program in addition to the application for admission to the Admissions and Registration Office and provide documentation supporting residency in the state which legal domicile is claimed, i.e., state taxes, driver's license, etc.

F. Colorado River Educational Compact Program

The Colorado River Educational Compact is a higher education partnership that allows selected students greater access to the quality instruction and related services provided by Arizona Western College and the other partner institutions. The compact establishes a tuition reciprocity program to enable selected undergraduate students from Arizona and California to attend participating community colleges without paying out of state tuition.

In order to participate in the program, a student must be an established resident of California, proof of residency is required and must be submitted with the Colorado River Educational Compact Program application. Applicants must be able to meet Arizona Western College admission criteria and submit an admission application.

Students are selected for program participation in the order their applications are received, except that preference for selection is given to students living in the three California counties (Imperial, Riverside, and San Bernadino) adjacent to the Colorado River.

G. Former Student Admissions

Former students returning to the college after an absence of more than one year (summer semester included) must complete the application for admission and complete the residency information. Residency determination will be based on new information provided. For more information, please contact the Admissions and Registration Office at (928) 344-7550.

Residency Determination

Residency Guidelines

The following guidelines concerning the determination of residency for tuition purposes are derived from state statutes. Interpreting these regulations is a complex task; therefore, students having difficulty in determining their

residency should contact the Admissions and Registration Office for further explanation.

The deadline to submit the Petition to Change Residency is the first day of classes of the respective semester.

The Petition to Change Residency Status and supporting documentation must be submitted to and reviewed by the Admissions and Registration Office prior to any changes in residency determination. The Petition to Change Residency is found on the Admissions and Registration webpage under Forms.

- Each applicant shall have the question of legal residence determined prior to the time of registration and payment of fees. It is the responsibility of the applicant to register under the correct residence determination.
- Enforcement of domicile requirements shall be the responsibility of the President of Arizona Western College. The President has designated the Director of Admissions/Registrar to be responsible for documents and to be qualified to administer oaths in connection with statements and testimony relative to student domicile status for tuition purposes and to determine domicile classifications. In determining a student's classification, the College may consider all evidence, written or oral, presented by the student and any other information received from any source which is relevant to determining classification. The College may request written sworn statements or sworn testimony of the student.
- A review of the initial classification may be made to the appropriate review committee. The request must be in writing, signed by the student and accompanied by a sworn statement of all facts relative to the matter. The request must be filed with the Director of Admissions/Registrar within ten days of notification of classification as a non-resident. Failure to properly file a request for review within the prescribed time limit constitutes a waiver of review for the current enrollment period. The decision of the review committee shall be final.

Definitions

"Armed Forces of the United States" means the Army, the Navy, the Air Force, the Marine Corps, the Coast Guard, the commissioned corps of the United States Public Health Services, and the National Oceanographic and Atmospheric Association.

"Continuous attendance" means enrollment at an educational institution in this state as a full-time student, as such term is defined by the governing body of the educational institution, for a normal academic year since the beginning of the period for which continuous attendance is claimed. Such person need not attend summer semesters or other such intersessions beyond the normal academic year in order to maintain continuous attendance.

"County resident" means a person who has lived in the county for at least 50 days prior to the first day of classes of the semester.

"Domicile" means a person's true, fixed and permanent home and place of habitation. It is the place where he/she intends to remain and to which he/she expects to return when he/she leaves without intending to establish a new domicile elsewhere.

"Emancipated person" means a person who is neither under a legal duty of service to his/her parent nor entitled to the support of such parent under the laws of this state.

"Full-time student" is one who registers for at least 12 credits per semester.

"Parent" means a person's father or mother; or if one parent has custody, that parent; or if there is no surviving parent or the whereabouts of the parents are unknown, then a guardian of an unemancipated person if there are not circumstances indicating that such guardianship was created primarily for the purpose of conferring the status of an in-state student on such unemancipated person.

"Out-of-State" is a residency classification for students who have not established domicile in Arizona for 12 consecutive months immediately prior to admissions. Out-of-State students follow the same admissions criteria as in-state students.

In-State Student Status

The following criteria for determining a student's residency have been reproduced from Arizona statutes (A.R.S. 15-1802).

- A. Except as otherwise provided in this article no person having a domicile elsewhere than in this state is eligible for classification as an in-state student for tuition purposes.
- B. A person is not entitled to classification as an in-state student until the person is domiciled in this state for one year, except that a person whose domicile is in this state is entitled to classification as an in-state student if the person meets one of the following requirements:
 1. the person's parent's domicile is in this state and the parent is entitled to claim the person as an exemption for state and federal tax purposes.
 2. the person is an employee of an employer which transferred the person to this state for employment purposes or the person is the spouse of such employee.
 3. the person is an employee of a school district in this state and is under contract to teach on a full-time basis, or is employed as a full-time non-certified classroom aide, at a school within that school district. For purposes of this paragraph,

the person is eligible for classification as an in-state student only for courses necessary to complete the requirements for certification by the state board of education to teach in a school district in this state. No member of the person's family is eligible for classification as an in-state student if the person is eligible for classification as an in-state student pursuant to this paragraph.

4. the person's spouse has established domicile in this state for at least one year and has demonstrated intent and financial independence and is entitled to claim the student as an exemption for state and federal tax purposes or the person's spouse was temporarily out of state for educational purposes, but maintained a domicile in this state. If the person is a non-citizen, the person must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.
- C. The domicile of an unemancipated person is that of such person's parent.
 - D. Any unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, moves from this state is entitled to classification as an in-state student until attainment of the degree for which currently enrolled, so long as such person maintains continuous attendance.
 - E. A person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child as defined in section 43-1001 of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. A spouse or dependent child does not lose in-state student classification under this subsection if the spouse or dependent child qualifies for in-state tuition classification at the time the spouse or dependent child is accepted for admission to a community college under the jurisdiction of a community college district governing board or a university under the jurisdiction of the Arizona Board of Regents. The student, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification.
 - F. A person who is a member of the armed forces of the United States or the spouse or a dependent

as defined in section 43-1001 of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of legal residence for at least twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona Board of Regents or a community college under the jurisdiction of a community college district governing board. For purposes of this subsection, the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.

- G. A person who is honorably discharged from the armed forces of the United States shall be granted immediate classification as an in-state student on honorable discharge from the armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met all of the following requirements:
 1. Declared Arizona as the person's legal residence with the person's branch of service at least one year prior to discharge from the armed forces.
 2. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, includes at least one of the following:
 - (a) an Arizona driver's license
 - (b) Arizona motor vehicle registration
 - (c) employment history in Arizona
 - (d) Arizona voter registration
 - (e) transfer of major banking services to Arizona
 - (f) change of permanent address on all pertinent records
 - (g) other materials of whatever kind or source relevant to domicile or residency status.
 3. Filed an Arizona income tax return with the department of revenue during the previous tax year.
- H. A person who is a member of an Indian tribe recognized by the United States Department of the Interior whose reservation land lies in this state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.

Alien In-State Student Status

- A. According to A.R.S. 15-1803 an alien is entitled to classification as an in-state refugee student if such a person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.
- B. In accordance with the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (P.L. 104-208; 110 stat. 3009), a person who is not a citizen or legal resident of the United States or who is without lawful immigration status is not entitled to classification as an in-state student pursuant to section 15-1802 or entitled to classification as a county resident pursuant to section 15-1802.1.

Statutory Presumptions Relating to Student Status

Unless the contrary appears to the satisfaction of the registering authority of the community college or university at which a student is registering, according to A.R.S. 15-1804 it shall be presumed that:

- no emancipated person has established a domicile in this state while attending any educational institution in this state as a full-time student, as such status is defined by the Arizona Revised Statutes or the Arizona Board of Regents, in the absence of a clear demonstration to the contrary.
- once established, a domicile is not lost by mere absence unaccompanied by intention to establish a new domicile.
- a person who has been domiciled in this state immediately prior to becoming a member of the armed forces of the United States shall not lose in-state status by reason of such person's presence in any other state or country while a member of the armed forces of the United States.

Interpretations

A person who is aged 18 years whose parents are not domiciled in Arizona does not qualify for in-state status even though he/she has resided in Arizona for the calendar year immediately preceding his/her 18th birthday.

A person aged 19 years or more must present proof that domicile in the state of Arizona has been established for one full year immediately preceding the first day of semester classes.

Evidence of In-State Residency

Students seeking In-State residency status must demonstrate domicile in Arizona for 12 consecutive months immediately prior to admissions or reclassification of residency. An affidavit signed by the student may be required along

with a minimum of three of the following documents to be used in determining the student's domicile:

- state income tax return
- voter registration
- automobile registration
- Arizona driver's license
- place of graduation from high school
- source of financial support
- dependency as indicated on federal income tax return
- ownership of real property
- signed lease or rental agreement
- bank accounts
- other relevant information

Student Citizenship/Arizona Proposition 300

According to Proposition 300, passed in 2006, students who are not United States citizens or permanent residents, or who do not have lawful immigration status, are not eligible for in-state tuition or financial aid that is funded or subsidized by state monies.

Due to the passage of Proposition 300, Arizona state law requires Arizona Western College to verify citizenship or legal resident status of students prior to registration. Students are required to provide acceptable documentation as proof of citizenship. Students who have applied for federal financial aid may have their legal citizenship status determined through the Free Application for Federal Student Aid (FAFSA) by indicating so on the Tuition Status Assessment Form. Students who are unable or fail to provide proof of U.S. citizenship will be subject to out-of-state tuition costs regardless of domicile.

A list of acceptable documentation is available on the Tuition Status Assessment Form which can be found on the Admissions and Registration webpage.

Proposition 300 does not prevent anyone from enrolling at Arizona Western College. For additional information or assistance with questions about Proposition 300 you may contact the Admissions and Registration Office at (928) 344-7550.

Special Considerations

Besides being admitted generally to Arizona Western College, you may qualify for one or more of the additional services and programs listed in this section.

High School Programs of Study

Dual Enrollment classes meet at the high school during the regular high school day, are offered only to high school students, and are taught by college certified high

school instructors using a college curriculum and text. The high school agrees to accept these college courses toward a student's high school course requirements (A.R.S. 15-1821.01).

Concurrent Enrollment classes take place on a college campus, via the internet as an online class, or on a high school campus outside of regular school hours and are generally not accepted as fulfilling high school course requirements without the high school administration's approval. High school students need approval from their high school counselor or administration if they want these college courses to help satisfy high school requirements.

Early College Experience Office

The AWC Early College Experience office help students seeking college experiences while still in high school by providing admission, placement testing, and registration into college level classes offered at the high school (dual enrollment) or college level courses offered on campus (concurrent enrollment). See www.awcearlycollegeexperience.org for more information about opportunities available through the Early College Experience office. High school students can contact their high school counselor or the Arizona Western College Early College Experience office at (928) 344-7754.

Honors Program

The AWC Honors Program serves as a vehicle for academically-excellent students to expand their intellectual boundaries and develop a sense of leadership through completion of a challenging curriculum. The Program encourages students to investigate their subject areas more deeply, to pursue connections among those areas, and to seek closer working relationships with faculty.

Operations of the Program are overseen by the Honors Director and the Honors Council, made up of representatives from the faculty, administration, and staff and from the student Honor Society, which organizes service and social activities.

Students interested in the Honors Program should meet with the Honors Director or an Honors Student Advocate.

Honors Program

Learning Resources Building 086
(928) 344-7685

Email: honors@azwestern.edu

www.azwestern.edu/learning_services/instruction/honors/

Eligibility

Requirements of eligibility for the Honors Program are dependent upon AWC student status.

- High school applicants shall meet at least one of the following criteria:
 - Ranked among top 10% of graduating high school class
 - Appropriate American College Test (ACT) or composite score of Scholastic Aptitude Test (SAT)
 - Qualifying score on AWC Placement Exams

Appropriate and qualifying scores for ACT, SAT and AWC Placement Exams are specified within the Honors Program Application

- Continuing AWC Student Applicants must meet the following criteria:
 - Completion of at least 12 college credits 100-level and above
 - Cumulative Grade Point Average (GPA) of 3.5

Once admitted to the program students shall maintain a cumulative grade point average of not less than 3.5 and be enrolled full-time (at least 12 credits) both fall and spring semesters of each academic year.

Applications for admission for the Honors Program are available at the Honors Program Office or on the Honors Program Webpage.

Student-Athletes at AWC

If you are a member of a varsity sports program at Arizona Western College, please contact the athletic Academic Advisor (928) 317-6112 to arrange for an appointment to discuss academic needs for your eligibility and/or transfer needs to compete at a four-year institution. The athletic Academic Advisor will also work with you to establish a class schedule that will take into consideration as much as possible the established practice and game commitments.

Servicemembers Opportunity Colleges (SOC)

Arizona Western College is a participant in the Servicemembers Opportunity Colleges (SOC), a consortium of national higher education associations. SOC is a vehicle to help coordinate voluntary postsecondary educational opportunities for military personnel. It provides higher education opportunities to service members, civilian employees of DoD, the Military Services including the National Guard, the Coast Guard, and their family members. SOC responds to the special needs of military members and offers the flexibility needed to improve access to and availability of educational programs.

As a participant of the SOC Degree Network System (DNS), AWC maintains the necessary flexibility of programs and procedures to enhance access to educational opportunities. Specifically, SOC DNS members help to maintain flexibility with credit transfer, recognition of other applicable learning and military transcripts, scheduling and format of courses, and academic residency requirements to offset service members' and their family members mobil-

ity, isolation from campuses, and part-time student status. For more information please contact the SOC Institutional Representative and SOC Counselor at 317-7605.

Veteran Services Office

The AWC Veteran Services Office is a liaison between the student and the Department of Veterans Affairs using veteran educational benefits. Students, who are a veteran, or a survivor or dependent of a veteran, may be eligible for veteran educational benefits. Additional benefits are available for students who are eligible for Veterans Affairs educational benefits and have completed the enrollment certification process. These students may also apply for tutorial and/or Veterans Affairs Work-Study. For more information on eligibility, how to apply, or other Veteran benefits and resources, contact the Veteran Services Office at (928) 344-7622 or Veteran.Services@azwestern.edu.

Department of Veterans Affairs (VA) Educational Assistance

Arizona Western College is an approved institution for the Department of Veterans Affairs educational benefits. Veterans, survivors and dependents, eligible for Veterans A benefits under Title 38 of the US Code (Chapters 30, 31, 32, 33, 35 and VRAP) and reservists (Arizona National Guard) under Title 10, Chapter 1606 and 1607, must be certified through the AWC Veteran Services Office. Initial application to start veteran benefits VA form 22-1990 or Veterans Online Application (VONPP) may take up to 60 days for the Department of Veterans Affairs to complete the required procedures as early as possible through the AWC Veteran Services Office. Students must meet AWC's admission requirements and comply with the College's Academic Standards of Progress to maintain your status. (See the Academic Policies section of this catalog for a complete description).

Enrollment Certification and Limitations

Upon submission of an Educational Benefit Certification Request Form and necessary documentation to the Veteran Services Office, eligible persons and continuing veterans will be certified for courses that fall within their Veterans Affairs approved program. The Veteran Services Office will only certify courses that are required for a student's program of study. Students wanting to take additional courses that are not needed for his/her program of study, can self-pay for the course or use other funding, such as financial aid or scholarship. Students receiving tuition assistance or have a scholarship/award, you must notify the Veteran Services Office. Please allow 30 days for electronic Veterans Affairs processing.

Benefits

Veterans receive educational assistance based on their enrollment certification status for a certified period (e.g.,

full-time, three-quarter-time, half-time). In a "traditional" semester (16 weeks in length), this measure is determined by the following:

- Full-time: 12 or more semester credits
- Three-quarter-time: 9–11 semester credits
- Half-time: 6–8 semester credits

Less than half-time periods are only eligible for reimbursement of tuition and college fees paid by the student.

Veterans at the half-time status or higher will receive a monthly benefit check. The rate of the monthly benefit check will vary by student status and the educational chapter they are receiving. For example, a student receiving chapter 33 benefits must have a rate of pursuit of 51% or higher, to receive a monthly benefit check. Up-to-date pay charts are available at the Veteran Services Office or online at www.gibill.gov.

Enrollment in accelerated (nonstandard semester) terms will have an effect on the monthly rate received. Status is determined by the number of semester credits taken in a certified period (number of weeks). Combination of traditional and nonstandard courses will cause a variance in your status; therefore, there will be changes in the amount of the money received.

Veterans Affairs will not allow for the certification of open entry/open exit courses until a final grade (course completion) is received and posted to the students' record. Combination of open entry/open exit courses with other traditional or nonstandard courses has a direct impact on your monthly entitlement and rates.

Veterans Deferment of Tuition

Payment Plans

Arizona Western College offers deferment of payment of tuition and fees to any person who is eligible and has applied for Veterans Affairs educational benefits provided that a student has not defaulted on a previous deferment. Payment arrangements may be made online through e-Cashier on Web-Advisor (listed under Quick Links at www.azwestern.edu). Once you've logged in, click on the student's link, then on Online Payment link under Financial Information. This deferment is available during any registration in which a veteran is awaiting Montgomery GI Bill benefits and is intended to bridge the processing time it takes Veterans Affairs to send monies to the student veteran. Once Veterans Affairs benefits are received by the student, payments should be made to cover the remaining charges. The information for payment arrangements can also be found on the Veteran Services webpage.

Due to tuition and fees monies coming directly to the school from Veterans Affairs for Post 9/11 GI Bill (chapter 33) veterans, these students will be awarded based on their Veterans Affairs eligibility percentage. Students not meeting 100% eligibility will be responsible for the remaining balance at the time of registration.

All student veterans using Veterans Affairs educational benefits need to verify their enrollment with the Veteran Services Office by completing an Educational Benefit Request Form. New Educational Benefit Request Form must be submitted to the Veteran Services Office, every time a student has any changes in enrollment, to include added, dropped or cancelled courses.

Degree Plans

Students applying for Veterans Affairs educational benefits can only be certified for courses that they are enrolled in that are within their objective-program of study (or major). Eligible students should select a program of study (approved by Veterans Affairs) prior to registration for classes.

All degree programs are approved for a specific number of credit hours. Eligible students will not be certified or paid by Veterans Affairs for courses above and beyond the approved length. Veterans Affairs will pay only for required courses in approved programs. This same rule applies to certificate and vocational certificate programs which may be measured in clock hours rather than semester credits.

A program change may occur when a veteran changes institutions (place of training) and there is a material loss of 12 credits or more that are not transferable to the new institution. Veterans Affairs approves and monitors the number of program changes over the period of eligibility to ensure progress in reported goals.

Students who have a Baccalaureate Degree or higher can only pursue an Occupational Degree or Certificate that are Veterans Affairs approved.

Academic Standards

Veterans Affairs will not (pay) for courses unless they are used for computing graduation requirements for the selected objective. Students receiving the grade of Withdrawal (W) or Administrative Withdrawal (AW) in any of these courses will have to reimburse Veterans Affairs retroactive to the start of the semester, unless there are mitigating circumstances approved by Veterans Affairs. The last date of attendance will be reported to Veterans Affairs for every Withdrawal (W) or Administrative Withdrawal (AW).

All veterans should maintain a 2.0 grade point average (GPA) for continuous certification. Veterans not making satisfactory progress or who do not maintain academic status (see the Academic Policies section) will not be certified (benefits will be suspended) until the cause for the academic disqualification has been corrected and the program of study being pursued is suited to the person's aptitudes, interests and abilities. If a student receives a failing grade (F), their last date of attendance will be reported to Veterans Affairs. Students on Academic Probation or Academic Suspension will also be reported

to Veterans Affairs. Veterans Affairs will not pay for developmental (remedial) courses that are taken online. All developmental (remedial) courses need to be taken in-person, if the student wants to receive his/her educational benefits for a developmental (remedial) course.

Transfer of Previously Earned Credit

Veterans Affairs requires that all students receiving educational benefits have their "prior military and/or college experience" evaluated for credit toward the objective at Arizona Western College. The veteran must ensure that they have submitted their most current military and/or college transcript to Arizona Western College. Failure to have this process during the first semester of attendance could result in overpayment and/or delay of benefits. The Veteran Services Office will not certify a student's courses to Veterans Affairs, until military transcripts and/or college transcripts have been received and evaluated.

Non-Traditional Credits

A maximum of 30 non-traditional credits can be awarded and applied towards a degree. Exceptions can be made at the discretion of the department/program. Students must be registered and/or have completed at least six credit hours at AWC in order to have credits evaluated and posted on their AWC transcript.

Military Experience/Military Service School Credit

Military Experience

"A Guide to the Evaluation of Education Experience in the Armed Services," is the basis for evaluating the training and experiences in military service. When applicable, credit earned may be used for degree credit as equivalent courses in the major or as general electives up to the maximum number of credits prescribed by the specific program requirements. Credit accepted from such sources may not apply for graduation in specific majors or degree programs. These credits may not transfer to another educational institution.

A course evaluation may be requested by submitting the official transcript from the appropriate branch of service. The official transcripts can be obtained from:

<https://jst.doded.mil/smart/signIn.do> for Navy, Marines, Army, Army National Guard and Coast Guard transcripts

www.au.af.mil/au/ccaf/transcripts.asp for Air Force transcripts

Transcription of Military Experience

Some branches of the Armed Services such as the US Army and Marine Corps require military personnel to provide evidence of college transcripts for promotional purposes based on their participation on military-delivered course work, specialized training and service-related experiences. Detailed information regarding the transcript evaluation process can be found under "Transferring Credit to Arizona Western College." For more information on Appealing for Excessive Credits refer to the Financial Aid & Scholarship section of the catalog.

Training Academies

Those students who have training academy experience recorded on a college or university transcript should submit their records as indicated above. Those students who have such experiences from "noncollegiate" institutions should contact the appropriate faculty to arrange for an interview and challenge examinations.

Transferring Credit to Arizona Western College

Currently enrolled students must request an evaluation of previous course work. Official copies of all records (college and university transcripts, test scores, and military training/experiences) must be sent directly from the issuing institution to:

Transfer Services Office
Arizona Western College
P.O. Box 929
Yuma, AZ 85366-0929

From Other Colleges and Universities

Transcripts are needed for accurate student advisement. Academic Advisors and Faculty Advisors will advise students for classes based on unofficial transcripts. It is required that all official transcripts be on file along with an online request for evaluation in the Transfer Services Office in order to have an evaluation completed. Separate official transcripts must be sent from each prior institution attended. The process of evaluation may take up to three weeks once the request for evaluation and official transcripts have been submitted. Transcripts may be required for admission to academic programs or from specific individuals or groups; e.g., nursing program students, athletes, financial aid, and Veterans benefit recipients. Evaluation and posting of credits will be completed once the student is registered for or has completed a minimum of six credit hours at AWC. Evaluation of credits is major specific. External credits will be posted in the first semester the student is registered for and/or completes at AWC.

Acceptable transcripts must bear the imprint of the official school seal and be sent directly from the issuing institution to the AWC Transfer Services Office.

Courses numbered 99 and lower do not transfer and AWC only accepts credits with grades of "A," "B," "C," "CR," (credit) or "P" (passing). Courses designated as 100G or 100E on an AWC transcript do not have a direct course equivalency at Arizona Western College. For more information refer to the Course Information section. **Documentation must be provided that CR and P credits are equivalent to a grade of "C" or higher.**

On an exception basis, "P" grades may be allowed in the AGECEC for credit transferred if documentation collected by the community college indicates that the "P" grade issued was the only option for the student and the "P" grade is a "C" or better. The "P" grade exception does not apply to credits awarded by AGECEC granting/receiving institutions.

Quarter Hour Credits

- Quarter hour = two-thirds (.67) semester hours.
- Quarter-hour courses applied to the AGECEC must be equivalent to a course in the granting institution's AGECEC list as determined by the articulation process at the community college.
- The minimum credit hours for the AGECEC (35 semester hours) must be met for the granting institution to certify an AGECEC. A deficiency in an AGECEC category due to quarter-hour application, as well as semester hours, must be recovered by additional credits within the same or another AGECEC categorical requirement.

Non-Traditional Credits

A maximum of 30 non-traditional credits can be awarded and applied towards a degree. Exceptions can be made at the discretion of the department/program. Students must be registered and/or have completed at least six credit hours at AWC in order to have credits evaluated and posted on their AWC transcript.

Courses more than eight years old apply to degree requirements at the discretion of the College. In areas where information changes rapidly, departments may accept, reject, or request revalidation of earlier courses.

In some cases, accreditation agencies may set a term shorter than eight years. Individual departments may also set a shorter term in fields where information changes quickly, or when completing earlier requirements is no longer possible or educationally sound. There is no time limit for general education courses.

Transferring students must meet minimum credit requirements in residence at AWC to complete a degree or certificate. Detailed information can be found under "General Program Requirements".

**Office of Postsecondary Education (OPE)
Accrediting Agencies**

AWC accepts credits from institutions accredited by the six regional associations and by the specialized accrediting bodies as listed by the Office of Postsecondary Education, go to ope.ed.gov/accreditation/search.aspx

Foreign College or University

If you have completed college level courses at a foreign college or university, AWC requires an English translation and official foreign credential evaluation. For this service, please send your transcripts and request a course by course credential evaluation from the following agency:

AACRAO Office of International Education Services
One Dupont Circle, NW, Suite 520
Washington, DC 20036-1135
(202) 296-3359
Email: oies@aacrao.org

Approval of any other agency will be at the discretion of the Director of Transfer Services.

Evaluation and posting of credits will be completed once the student is registered for a minimum of 6 credits at AWC. The process of evaluation may take up to four weeks once the request for evaluation and official transcripts have been submitted. Evaluation of credits is major specific. External credits will be posted in the first semester the student is registered for and/or completes at AWC.

From AP/CLEP/DSST/IB and Special Examinations

Evaluation and posting of credits will be completed once the student is registered for a minimum of 6 credits at AWC. The process of evaluation may take up to four weeks once the scores have been received. Evaluation of credits is major specific. External credits will be posted in the first semester the student is registered for and/or completes at AWC.

Students planning to transfer to a university must request an additional official score report to be sent directly to that specific university.

Advanced Placement (AP)

These exams are administered by the College Board in high schools each year during the month of May and are designed to test competencies in specific lower division college subject areas. High school seniors may request the opportunity, through their high school counselor's office, to pursue college credit by examination in one or more subject areas. Arizona Western College credit will be awarded in those subjects for which an equivalency has been established. If an AP subject is not included in this catalog, contact the office of the Dean of Instruction at (928) 344-7519.

For this service, please send official scores directly to Arizona Western College.

AP Services

Box 6671
Princeton, NJ 08541-6671
(212) 713-8066

AP Exam Equivalents

General Education Category	Score	AWC Equivalent(s)
Art History	4 or 5	ARH 141 & ARH 142
Art History	3	ARH 141
Biology	4 or 5	BIO 181 & BIO 182
Biology	3	BIO 100
Calculus AB	3, 4, or 5	MAT 220
Calculus BC	4 or 5	MAT 220 & MAT 230
<i>Students who receive an AB sub-score on this exam will have that sub-score apply as the Calculus AB score.</i>		
Calculus BC	3	MAT 220
Chemistry	4	CHM 151
Chemistry	5	CHM 152
Comparative Govt. & Politics	4 or 5	POS 140
Computer Science A	4 or 5	CIS 220
Economics (Macro)	4 or 5	ECN 240
Economics (Micro)	4 or 5	ECN 250
English (Lang & Comp)	4 or 5	ENG 101 or dept. elective
English (Literature & Comp)	4 or 5	ENG 101 & ENG 190
Environmental Science	4 or 5	ENV 101
European History	4 or 5	HIS 240 & HIS 241
French Language	3, 4, or 5	FRE 101 & FRE 102 & FRE 201 & FRE 202
German Language	3, 4, or 5	GER 101 & GER 102 & GER 201 & GER 202
Govt. & Politics (US)	4 or 5	POS 110
Human Geography	4 or 5	GEO 105
Music The/Lit/Listening	4 or 5	MUS 111 & MUS 112 and MUS 191 & MUS 192
Music The/Lit/Listening	3	MUS 111 & MUS 191
Physics 1	4 or 5	PHY 111
Physics 2	4 or 5	PHY 112
Physics C Elect/Magnetism	3, 4, or 5	PHY 112
Physics C Mechanics	3, 4, or 5	PHY 111
Psychology	4 or 5	PSY 101
Spanish Language	3, 4, or 5	SPA 101 & SPA 102 & SPA 201 & SPA 202
Spanish Literature	3, 4, or 5	SPA 201 & 202
Statistics	3, 4, or 5	MAT 270
Studio Art (2D)	4 or 5	ART 101
Studio Art (3D)	4 or 5	ART 102
US History	4 or 5	HIS 121 & HIS 122

If an AP subject is not included in this catalog, contact the office of the Dean of Instruction (928) 344-7519.

College Level Examination Program (CLEP)

Many exams are available under this program for those who wish to earn college credit by examination.

Students should be aware that CLEP credit policies vary among colleges and universities, so the credit given by AWC may be increased or decreased upon transfer.

Credit cannot be granted for courses equivalent to or at a lower level than courses already completed through formal course work or in progress during or after the eighth week of the semester. For example, students enrolled in Spanish 260, 261, 263, 265 and who desire CLEP credit for SPA 101, 102, 201, 202 must take the CLEP exam before the 8th week of the semester.

Evaluation and posting of CLEP testing credit will be completed once the student is registered for a minimum of 6 credits at AWC.

Students planning to transfer to a university must request an additional official score report to be sent by CLEP. An official transcript (score report) can be obtained by writing to:

CLEP transcripts

Box 6600
Princeton, NJ 08541-6600
1 (800) 257-9558
FAX (609) 771-7088

<http://media.collegeboard.com/digitalServices/pdf/clep/clep-transcript-request-form.pdf>

CLEP Exam Equivalents

General Education Category	Score	AWC Equivalent(s)
Algebra	50	MAT 151
American Government	50	POS 110
American Literature	50	ENG 251 & ENG 252
Analyzing & Interpreting Literature	50	ENG 190
Business Law, Intro	50	BUA 230
Calculus	50	MAT 220
Chemistry	50	CHM 151
College Composition	50	ENG 101
College French	50	FRE 101
College French	55	FRE 101 & FRE 102
College French	62	FRE 101 & FRE 102 & FRE 201
College French	66	FRE 101 & FRE 102 & FRE 201 & FRE 202
College German	39	GER 101
College German	46	GER 101 & GER 102
College German	51	GER 101 & GER 102 & GER 201
College German	60	GER 101 & GER 102 & GER 201 & GER 202

College Spanish	50	SPA 101
College Spanish	55	SPA 101 & SPA 102
College Spanish	66	SPA 101 & SPA 102 & SPA 201
College Spanish	68	SPA 101 & SPA 102 & SPA 201 & SPA 202
Educational Psychology, Intro to	50	Elective (3)
English Literature	50	ENG 100E
Financial Accounting	50	ACC 211
History of the US I: Early Col.-1877	50	HIS 121
History of the US II: 1865-Present	50	HIS 122
Human Growth & Dev.	50	FAS 238 or PSY 238
Humanities* (General)	50	3 cr. Arts & 3 cr. Hum.
Information Systems & Computer Applications	50	CIS 120
Macroeconomics, Prncp. of	50	ECN 240
Management, Principles of	50	MGT Elective (3)
Marketing, Principles of	50	MKT 110
Microeconomics, Prncp. of	50	ECN 250
Precalculus	50	MAT 187
Psychology, Intro	50	PSY 101
Social Sciences & History*	50	3 cr Soc. Sci. GE
Sociology, Intro	50	SOC 101
Western Civilization I (Ancient Near East-1648)	50	HIS 240
Western Civilization II (1648-present)	50	HIS 241

*Students should take these tests before they enroll in other related discipline courses to ensure against duplication of credit.

Arizona transfer degrees (A.A., A.Bus., A.S.) require two laboratory sciences. CLEP science credits may be used in the A.G.S. degree. Students should discuss their situation with their Academic Advisor to avoid duplication of credit and other transfer problems.

DSST Exams

Students who have successfully completed DSST Exams may be eligible to receive credit by examination for appropriate Arizona Western College courses. *These transcripts must be sent directly to AWC. Transcript fees may be subject to change.*

Prometric

ATTN: DSST Transcript Request
1260 Energy Lane
St. Paul, MN 55108

getcollegedcredit.com/images/uploads/documents/DSST_Transcript_Order_Form.pdf

DSST Exam Equivalents

General Education Category	Min Score/ Min Score/Revised	AWC Equivalent(s)
Art of the Western World	48	ARH 141 or 142
Business Law II	52	BUA 230
Business Mathematics	48/400	BUA 110
Criminal Justice	49/400	AJS 101
Environment & Humanity	46	*ENV 101 (3 credits of lecture only)
Ethics in America	46/100	PHI 105
Fundamentals of College Algebra	47/400	MAT 121
Fundamentals of Counseling	45	PSY elect (3 credits)
General Anthropology	47	ANT 100
Intro to Computing	45/400	CIS 120
Intro to Law Enforcement	45	AJS 230
Intro to World Religions	48	REL 201
Introduction to Business	46/400	BUA 100
Lifespan Developmental	46	FAS 238 or PSY 238
Management Information Systems	46/400	CIS elect (3 credits)
Principles of Public Speaking	47	**SPC 215
Principles of Financial Accounting	49	ACC 211
Principles of Statistics	48/400	MAT 270 or PSY 230
Principles of Supervision	46/400	MGT 250
Technical Writing	47	ENG 110

*Arizona transfer degrees (A.A., A.Bus., A.S.) require two laboratory sciences. DSST science credits may be used in the A.G.S. degree. Students should discuss their situation with their Academic Advisor to avoid duplication of credit and other transfer problems.

**SPC 215: to receive credit equivalency for this course, students must also submit a video tape speech demonstrating the proficiency required.

International Baccalaureate (IB)

International students who have taken any of the IB exams may submit their test scores for evaluation of AWC course equivalencies. Questions about IB exams may be directed to:

Americas Global Centre

7501 Wisconsin Avenue, Suite 200 West
Bethesda, Maryland 20814
USA
+1 301-202-3000
Fax: +1 301-202-3003
Skype: IBAmericas
Email: iba@ibo.org

IB Exam Equivalents

General Education Category	Score	AWC Equivalent(s)
Art Design (2D)	5, 6, or 7	ART 101 & ART 111
Art Design (2D)	4	ART 101
Biology	6 or 7	BIO 181 & BIO 182
Biology	4	BIO 100
Chemistry	5, 6, or 7	CHM 151 & CHM 152
Chemistry	4	CHM 151
Computer Science	5, 6, or 7	CIS 220
Economics	5, 6, or 7	ECN 240 & ECN 250
English A	5, 6, or 7	ENG 101
French	5, 6, or 7	FRE 201 & FRE 202
French	4	FRE 101 & FRE 102
Geography	5, 6, or 7	GEO 105
German	5, 6, or 7	GER 201 & GER 202
German	4	GER 101 & GER 102
History, American	5, 6, or 7	HIS 121 & HIS 122
History, American	4	HIS 121
History, European	5, 6, or 7	HIS 240 & HIS 241
History, European	4	HIS 240
Mathematics (High Level)	5, 6, or 7	MAT 220
Music	5, 6, or 7	MUS 111 & MUS 112 and MUS 191 & MUS 192
Physics	6 or 7	PHY 111 & PHY 112
Physics	5	PHY 111
Psychology	5, 6, or 7	PSY 101
Spanish	5, 6, or 7	SPA 201 & SPA 202
Spanish	4	SPA 101 & SPA 102

Special Examinations (Challenging AWC Courses)

Students have the opportunity in some Arizona Western College courses to earn credit by completing a comprehensive examination. In order to receive credit (CR), an equivalent grade of "C" or higher must be scored (the grade will not show on the AWC academic transcript and will not be calculated into the cumulative GPA).

- Students cannot receive credit by special examination for a course that is equivalent to or lower than that in which they are currently enrolled or for which they have already received credit. Students may not apply to challenge a course a second time. Permission to challenge a course rests with the appropriate Division Chair/Director or Coordinator and instructor.

PLACEMENT/TESTING

Prior to registration students will be required to complete a placement test under **any one** of the following conditions:

- the student is taking his or her first college credit English, reading, and/or math course, or any college course for which an English, reading, or math course or placement score is a prerequisite. A reading score of 65 or higher is required for most courses that list an appropriate reading score as a prerequisite. Visit www.azwestern.edu/testing for more information.
- the student is pursuing a degree and does not have current valid AWC approved course placement scores on file or does not have previous college credit in English, reading, and math.
- the student for whom English is not the primary language and is taking his or her first English as a Second Language class is required to take a test of English proficiency.

Students **may be exempt** from a placement test if at least one of the following conditions apply:

- the student has earned an associate or higher degree.
- the student has earned college-level credit(s) from a regionally accredited college or university in English, reading, and math with a grade of "C" or higher.
- the student has valid AWC approved placement scores on file.

AWC accepts ACT, SAT, Accuplacer, Compass and ASSET scores for placement into college level courses. Contact the Testing Services office at (928) 344-7641 or email testing@azwestern.edu for additional information on approved placement tests.

After testing students will need to make an appointment to meet with an Academic Advisor who will help them understand their placement into English, reading, and mathematics courses.

For more information visit the Testing Services website at www.azwestern.edu/testing.

Note: *Being exempt from taking a placement test does not exempt the student from fulfilling the minimum graduation requirements.*

ACCUPLACER COURSE PLACEMENT

English/Reading Course Placement

Placement into an English course will be determined by the lowest Course Placement derived from the Reading and Sentence Skills scores. **For example:** A Reading score of 54 and a Sentence Skills score of 55 will place the student into English 80.

Course	Course Name	Reading	Sentence Skills
English			
ENG 101	Freshman Composition	82–120	90–120
ENG 100	Introduction to Composition*	71–81	76–89
ENG 90	Fundamentals of Writing (Accelerated)**	53–70	57–75
ENG 80	Fundamentals of Writing	0–52	0–56
ESL	<i>(If English is not a Primary Language)</i>	0–40	0–40
Reading			
RDG 121	College Reading Skills <i>(recommended)</i>	65–69	
RDG 121	College Reading Skills <i>(required)</i>	61–64	
RDG 95	Reading Improvement	54–60	
RDG 93	Reading Essentials	40–53	
RDG 91	Individualized Reading	0–39	

* Students placing into ENG 100 may qualify for ENG 101 if they score a 6 or higher on the Writeplacer exam.

** Students placing into ENG 90 may qualify for ENG 100 if they score a 4 or higher on the Writeplacer exam.

MATH COURSE PLACEMENT

The algebra test must be taken first. Results from this test will determine if additional tests are needed for placement.

Course	Course Name	Arithmetic	Algebra	College Level Math
Math				
MAT 270 MAT 220 MAT 212 MAT 172 MAT 130	Applied Statistics Calculus I with Analytic Geometry Brief Calculus Finite Mathematics Mathematics for Elementary Teachers 1			70–120
MAT 187 MAT 151 MAT 142	Precalculus College Algebra College Math with Applications		104–120	44–69
MAT 121	Intermediate Algebra		61–103	
MAT 105 MAT 81	Mathematics for the Applied Sciences Beginning Algebra	66–120	25–60	
MAT 71	Prealgebra	0–65	0–24	

ASSET, COMPASS, ACT and SAT COURSE PLACEMENT

ASSET	COMPASS	ACT	SAT	Course Placement
English	English	English	Critical Reading	
48–119	97–100	20	500	ENG 101 Freshman Composition
45–47	74–96			ENG 100 Intro to Composition
39–44	38–73			ENG 90 Fundamentals of Writing (Accelerated)
0–38	0–37			ENG 80 Fundamentals of Writing
Reading	Reading			
47	88			No Reading Class Needed
Num. Skills	Arithmetic			
Pre-Alg 41–55	50–100			MAT 105, MAT 81
Pre-Alg 23–40	0–50			MAT 71
Elem. Algebra	Algebra	Math	Math	
Int. Alg. 49–55	81–100	22	520	MAT 142, MAT 151, MAT 187
Elem. Alg. 49–55 or Int. Alg. 33–48	46–80			MAT 121
Elem. Alg. 30–48 or Int. Alg. 23–32	19–45			MAT 105, MAT 81
Elem. Alg. 23–29	0–18			MAT 71
College Alg.	College Lev.	Math	Math	
Col. Alg. 48–55	65–100	30	670	MAT 130, MAT 172, MAT 212, MAT 220
Col. Alg. 37–48	42–64	22	520	MAT 142, MAT 151, MAT 187

FINANCIAL AID & SCHOLARSHIPS

General Information

The philosophy of the Financial Aid and Scholarships Office is to attempt to meet the full need of all eligible applicants by “packaging” (combining) funds from various sources, including both institutional and non-institutional funds. Students are required to apply for other federal and state programs in order to maximize their opportunities for assistance by stretching limited AWC aid dollars.

Need (for financial aid purposes) is the difference between the cost of attending AWC and all of the resources an applicant has available. Those resources include, but are not limited to, the following:

- Expected Family Contribution (EFC)
 - Veterans Educational Benefits
- For general information call AWC at (928) 344-7634

Frequently requested websites:

- FAFSA on the WEB- Application for Financial Aid
www.fafsa.ed.gov
- US Department of Education “Financial Aid for Student” Home Page
www.studentaid.ed.gov
- The Student Guide
www.studentaid.ed.gov/students/publications/student_guide/index.html

Who can apply for financial aid?

The eligibility requirements listed on this and the following pages are general in nature and are not intended to be comprehensive. The requirements for individual types of aid do vary and students should contact the Financial Aid Office for details. Students are advised to keep current regarding any federal changes which may affect their eligibility for financial assistance. Students must meet the following eligibility criteria in order to receive federal financial aid:

- Must have a cumulative GPA of 2.0
- Must be admitted to AWC, be in a degree-seeking and eligible program
- Must be a US citizen or eligible non-citizen
- Must have a high school diploma, GED or equivalent
- Must not be in default of a student loan or in overpayment status on federal student aid

- Must not have exceeded the established AWC loan limit of \$15,000 (if applying for a student loan)
- Must meet the Satisfactory Academic Progress criteria (for returning or continuing students)

When should students apply?

In order to receive financial aid for the following academic year, students are advised to complete their application for financial aid and submit all required paperwork to the Financial Aid Office by the priority deadline which is April 15. Priority processing and aid consideration are given to students applying for financial aid by the priority deadline. FAFSA applications can be completed at www.fafsa.ed.gov.

How is financial aid calculated?

Financial aid programs are based on the premise that the primary responsibility rests with the student and the parents to pay college expenses to the extent that the family is able to do so. The analysis of a family's financial strength includes consideration of current family income, assets, family size and number of children in college, uninsured medical and/or dental expenses and any other factors which seriously alter a family's financial strength. Financial aid programs are designed to supplement family resources by bridging the gap between cost and a family's measured ability to pay. The Financial Aid and Scholarships Office uses the information received from the federal financial aid processors in determining need and eligibility.

How much do I qualify for?

$$\begin{array}{r}
 \text{College Cost} \\
 \text{(minus) - Expected Family Contribution} \\
 \hline
 \text{(equals) = Financial Need}
 \end{array}$$

The various programs may be divided into four broad categories:

- **Grants** - are gift aid and do not have to be repaid
- **Scholarships** - are gift aid and usually have an application process separate from grants.
- **Loans** - must be repaid with interest at a future date.
- **Employment** - is working during the academic year for the money needed.

What happens after I apply?

Within four to six business days after you have submitted a FAFSA application for Federal financial aid, your application is received by the AWC Financial Aid Office for processing. After your application has been processed, you may be required to submit additional paperwork directly to the college. You should check your WebAdvisor account (My Documents) and ToroMail to determine which documents (if any) you need to provide to the Financial Aid Office. For any questions regarding the status of an application, contact the Financial Aid Office at (928) 344-7634.

What happens if students apply late?

Students may still be eligible for aid but should be prepared to cover expenses with personal funds. Any applications received after April 15th will be considered late and will be processed according to the availability of staff and funds.

When is aid awarded?

Once all required paperwork is satisfactorily completed and all other eligibility requirements are met, AWC will post the award amount on the student WebAdvisor account.

AWC Scholarships

Arizona Western College helps students achieve their educational and career aspirations by enhancing access to learning opportunities. Scholarships are primarily awarded on the basis of academic excellence, performance in a particular area, or need. Both new and returning students are eligible for scholarships.

AWC Foundation Scholarships

Many scholarships are available through the AWC Foundation. While due dates for individual scholarships vary, applications for the majority of the scholarships are available in early spring for the following academic year. For more information about scholarships please call (928) 344-1720 or email awcfoundation@azwestern.edu.

Institutional Scholarships

Selection and awarding are determined by each division (Fine Arts, Vocational, Presidential, Student Government) in the early Spring. To be considered, you should correspond with the Division Chair/Director or Coordinator of the curriculum of your interest and make written application to the AWC Office of Financial Aid-Scholarships. In order to be eligible you must have a completed and verified FAFSA

for the current year. Scholarships are for four consecutive semesters only. Academic guidelines will be necessary for you to maintain your scholarship status. This applies to all students currently on an institutional scholarship as well as all new awardees. Individual scholarships may have other requirements, based upon the type of scholarship awarded.

Athletics Scholarships

Awarded to prospective or returning athletes by the Athletic Department. You must be eligible to participate in intercollegiate athletics and maintain NJCAA academic standards. The basic requirements are that the athletes be full-time enrolled students, have a completed and verified FAFSA for the current year and be making Satisfactory Academic Progress.

Upon receiving athletic aid to attend Arizona Western College and furthering your athletic career, it is understood that as an AWC student-athlete, you represent the community, the College, your team, your family and yourself. As part of AWC's commitment to excellence and integrity, you must behave in a socially responsible and acceptable manner. It must be plainly understood that your athletic scholarship award is a one year award that can be revoked for the following reasons:

- Student-athletes are responsible for completing 12 credit hours with a minimum 2.0 grade point average in the previous semester to continue to qualify for athletic aid.
- Quitting the team of your own volition or repeated unexcused absences from scheduled team activities.
- Dismissal from a team due to a violation(s) of Arizona Western College Student Code of Conduct and/or Student Athlete Commitment to Excellence or violation of Federal, State or Local laws.
- Dismissal from a team for violation(s) of team rules or guidelines.

Revocation of athletic aid resulting from violation(s) of Arizona Western College Student Code of Conduct, Federal, State or Local law can only result after a formal hearing by the College designated student hearing officer. Revocation due to violation(s) of team rules or guidelines will result in a meeting between the Athletic Director, appropriate Head Coach and the student-athlete outlining and discussing the concerns.

If a Student-Athlete's scholarship aid is revoked the College will remove all athletic aid from that point forward and the Athlete will become responsible at that point in time for the remainder of all costs associated with further attendance at Arizona Western College.

Other Scholarships

Scholarship funds are also available through community groups, organizations, and companies outside of the college. The financial aid office receives information periodically about available scholarships and those are posted on the college website www.azwestern.edu under Financial Aid.

Student Loans and Eligibility

The Office of Financial Aid and Scholarships at AWC is committed to providing post-secondary educational opportunities to all eligible students. However, it is also our intent to set the standards of the Satisfactory Academic Progress policy, assist students in building excellent borrowing habits and educate students in effective loan management.

A legislative change effective July 1, 2013 further emphasizes program completion for financial aid recipients. This change affects the borrower's access to Direct Subsidized Stafford Loans if the student does not complete his or her educational program in a timely fashion.

Students are allowed subsidized loans for 150% of the published timeframe for the program of study, if otherwise eligible. If the student is enrolled in a 2-year associate degree program, the maximum period for which a Direct Subsidized Loan is potentially available is 3 years (150% of 2 years = 3 years). Changing programs of study does not restart the clock. Time already used is subtracted from maximum time allowed. Students later seeking a four-year degree must subtract eligibility already used from the 6-year limit, as well. The student who reaches the 150% limitation, whether seeking a certificate, two-year or four-year degree, could continue to receive unsubsidized Stafford loans if he or she is otherwise eligible (for example, meeting satisfactory academic progress requirements). The limitation affects those considered to be new borrowers on or after July 1, 2013. New borrowers are students with no outstanding loans. Consequently, the 150 percent limit would include only periods of borrowing that began on or after July 1, 2013.

When a borrower has reached the 150 percent limitation, his or her eligibility for an interest subsidy also ends for all outstanding subsidized loans, if he/she did not complete the program of study within the 150% timeframe and borrows again. At that point, interest on those previously borrowed loans would begin to accrue and would be payable in the same manner as interest on unsubsidized loans.

- Students must be in degree or certificate seeking classes. Students participating in remedial classes will not be eligible for loans until they are registered for classes that progress towards a degree. Students participating in ESL classes will not be awarded any loans until progressing toward an approved major.

- Loan availability will no longer follow the AWC requirements for GPA. Students must have a 2.0 Cumulative GPA in order to receive loans. The GPA requirement will not affect Pell Grant eligibility.
- Students must be in good academic standing. Students on academic probation because of an academic appeal will not be offered any loans. Students denied a loan due to probationary status will not be eligible again until academic progress is demonstrated with a cumulative GPA of 2.0 or higher. This will not affect receipt of grant funds.
- Student athletes supported by an athletic scholarship will be required to provide supporting documentation with their request for a loan. All athletes requesting a loan will work through the Financial Aid Athletic Coordinator.
- Students must apply for student loans in a timely manner—before the 30th day of the semester. Students applying after the deadline are required to complete a Petition for Loan Certification and submit with all required paperwork and signatures; awarding of a loan will be at the discretion of the Arizona Western College Financial Aid Standards Committee. Students will be required to meet all other stated guidelines.
- Students must not have exceeded the AWC established loan limit of \$15,000 (includes all schools attended)
- Transfer students must transfer in all credits from institutions before loans will be certified.
- Petition for Loan is found on the Financial Aid webpage under Financial Aid Forms.

Satisfactory Progress

Federal regulations (CFR 668.32(f) and CFR 668.34) require a student to move toward the completion of a degree or certificate within an eligible program when receiving federal student aid. Federal regulations state that Academic Progress Standards must include a review of all periods of enrollment regardless of whether or not aid was received. The student must meet the following minimum standards to receive financial aid.

- Minimum cumulative grade point average (GPA) 2.0
- Cumulative Completion Rate of at least 67%
- Must not exceed maximum number of credits

Students will be ineligible for Federal and state financial aid if these standards are not met.

Each student's progress will be reviewed every semester to determine eligibility for Federal and state financial aid for the upcoming term. Students will be placed on Satisfactory, Warning or Suspension status at the end of each semester. Students receiving 0 credits due to with-

drawing completely from all classes, or receiving grades of NS, F or No Credit (NC) will be placed on Suspension. Students are not eligible to receive financial aid while on suspension.

Failure to Maintain Satisfactory Progress

Your financial aid will be cancelled if you do not maintain Satisfactory Academic Progress (SAP) for two consecutive terms or if you fail to complete any coursework (due to withdrawing, receiving a grade of F, NS or NC or any combination) in any one semester. Your class schedule must be finalized before the first day of the term. Otherwise, any credit-level changes you make may result in warning or cancellation status.

Quantitative Standards-Cumulative Completion Percentage

To obtain the completion percentage, the number of a student's total completed credits will be divided by the number of a student's total attempted credits. Please note: all AWC credits will be considered in the calculation; including multiple attempts in a course, regardless of grade earned (W, F, NS, or letter grade).

$$\frac{\text{Total \# Credits Completed}}{\text{Total \# Credits Attempted}} \times 100 = \text{Cumulative Completion \%}$$

Qualitative Standards- Minimum 2.0

Students receiving Title IV funds must maintain a GPA of 2.0.

Maximum Number of Credits

- 125% of the credits necessary to complete the degree stated (generally 80 credits).
- The maximum time frame for completion of a degree or certificate is measured by the total number of credits a student earns. This includes transfer credits and all semesters of enrollment and applies to each degree or certificate whether or not financial aid was received. Once the maximum number of credits is completed or you have received an Associate's Degree, your Federal Student Aid eligibility ends.

Other Progress Issues

Consortium Credits on Satisfactory Progress Consortium credits will count towards Satisfactory Progress requirements.

Developmental Courses

A maximum of 30 credits of developmental classes (including ESL courses) may be counted towards a student's minimum-credits-per-academic-year requirement. However,

these credits may not be charged against the total maximum credits allowed. The exact number of allowable developmental credits will be determined by a student's academic skill assessment results.

If You Change Your Program of Study

You must notify the Financial Aid Office in writing if you change your program of study. Changing your program of study may impact financial aid eligibility. Once you have exceeded the maximum number of credits for a degree program, you will be placed on financial aid suspension. Students who have been placed on suspension have the option to appeal.

Appeal for Extenuating Circumstances

A student who has lost financial aid eligibility may appeal. All appeals must be submitted in writing to the Office of Financial Aid using the Satisfactory Academic Progress Appeal form and submitting along with appropriate documentation. Students whose appeals are approved will be placed on Financial Aid Probation, must adhere to their Educational Academic Plan, (EAP) which they must follow, and will be allowed to receive aid for that semester. The student's record will be evaluated at the end of the semester to determine the status for the following semester. Students must meet the requirements of the SAP Standards and the academic plan before receiving financial aid for the next semester at AWC. You will only be allowed to have one appeal approved during your attendance with Arizona Western College.

Extenuating circumstances that may be considered include: personal illness or accident, serious illness or death of immediate family, long-term absence from school, or other circumstances beyond the reasonable control of the student. The condition or situation must no longer exist and the student must be able to complete coursework successfully or an appeal will not be granted. Results of an appeal include probation or denial. Incomplete or undocumented appeals will be **automatically denied**.

Appealing for Excessive Credits

A student who has exceeded the maximum number of credits for a degree or certificate program but has not yet completed that program may appeal. To determine future financial aid eligibility, the Financial Aid Office will consider:

- Total number of credits already completed (including transfer credits and credits in progress, whether or not financial aid was received)
- CLEP, ESL or developmental credits. A maximum of 30 developmental credits may be excluded from the total number of completed credits.
- Prior non-completed or failed credits (including F, W, AW, NS, NC etc.)

If the Financial Aid Office has determined that a student has remaining financial aid eligibility, the student must obtain and follow an approved Educational Academic Plan (EAP).

Reinstatement of Financial Aid Eligibility

If you have been suspended from receiving financial aid, for failing to earn your fundable hours you must successfully complete 6 credit hours in one semester at one institution to regain fundable status. These hours can be earned at another institution as long as they are transferrable to AWC. You can receive aid at that institution while making up the hours. It is the responsibility of the student to ensure that the hours are transferrable.

What are the Student Financial Aid Rights and Responsibilities?

(Institutional and private scholarships are subject to additional criteria)

Upon acceptance of any source of financial aid, the student is required to:

- Enroll only for those classes that apply to the declared program of study leading to a degree or certificate
- Have an assigned academic advisor and a specific major program (degree or certificate)
- Maintain satisfactory progress each semester (see Satisfactory Progress section)
- Notify the Financial Aid Office of any additional assistance received not shown on the award letter
- Notify the Financial Aid Office and Financial Aid Disbursement (Business Services Office) when adding or dropping classes or withdrawing from school
- Repay a part or the entire award for classes not attended, dropped, reduced, withdrawn or cancelled
- Complete loan entrance and exit counseling sessions as required if participating in the Student Loan program
- Meet all other requests and requirements established by the Financial Aid Office not indicated above

What else must a student know?

- Funds received under all federal and state aid programs must be used solely for expenses related to attendance or continued attendance at AWC
- Students are responsible for repayment of the pro-rated amount of any portion of payments which cannot reasonably be attributed to meeting educational expenses related to attendance at AWC

- The amount of such repayment is to be determined on the basis of criteria set forth by the Secretary of Education
- Students owing payment for any financial aid program coordinated by AWC are not eligible to receive funds until payment is made
- In accordance with federal guidelines Federal Student Aid cannot be used for repeated coursework for courses with grades of C or better.
- Students who are scholarship, grant and/or loan recipients and who drop a course or courses during the official add/drop periods, will be required to return some or all of the aid awarded to the appropriate program or lender

The amount of Federal Pell Grant funds a student may receive over his or her lifetime by a new federal law is the equivalent of six years of Pell Grant funding. Since the maximum amount of Pell Grant funding a student can receive is 100%, the six year equivalent is 600%. The percentage of eligibility used is reported to the student on the Student Aid Report, (SAR) and to all the institutions listed on the FAFSA. Guidelines as to how the calculation is formulated can be found at <http://studentaid.ed.gov>.

There is no appeal for the 600% Lifetime Eligibility Used (LEU).

Tax Implications

The Tax Reform Act impacts students who receive grant money or scholarship assistance. Any amount of gift aid (grants, scholarships, fellowships, stipends, assistantships, etc.) may be taxable for the amount in excess of tuition, fees and course related expenses. Since financial aid is awarded for an academic year, and portions of two academic years fall in a calendar or tax year, it is important for all aid recipients to maintain careful records of all direct educational expenses throughout the year. Any student who has a specific question or concern should contact his/her tax preparer.

Attempted Fraud

Students who are applying for financial aid must understand that federal and state laws, as well as institutional policy, require that all information provided be accurate. If it is not, a student may lose certain rights and benefits, be prosecuted under state and/or federal statutes and lose financial aid eligibility. It is extremely important, therefore, that students accurately complete all application materials and be prepared to verify all of the financial aid data provided. If the information on an application appears to be fraudulent or misleading, the student will first be contacted by the Financial Aid and Scholarships Office staff for documentation and discussion. If it is determined that the possibility of fraud exists, the Director may refer the case to the appropriate college disciplinary officer.

Attempted fraud may include:

- False claims of independent student status
- False claims of citizenship
- Use of false identities
- Forgery of signatures or certifications
- False statements of income
- Other similar conduct

These are very serious matters since the case must, in some instances, be referred to the Office of the Inspector General, Region IX, US Department of Education, for investigation. Referrals may also be made to the AWC Police, US Attorney's Office or State Attorney General for proper adjudication.

If applicants determine that any information provided to the Financial Aid Office is in error, they should take the initiative to make corrections so that misunderstandings regarding the accuracy of information do not occur.

Anti-Drug Abuse Act Certification

As a condition of a federal grant a student may not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance during the period covered by the federal financial aid award.

Persons violating AWC policies or regulations regarding alcohol and drug abuse are subject to College disciplinary and/or legal sanctions.

PROGRAM CHOICE & ADVISING

Program Choice

For those students who have decided upon a program, the program requirements can be found in the Academic Programs section of this catalog or at www.azwestern.edu.

Decided students who are degree seeking should also have a copy of the general education requirements which are appropriate to their degree:

- Transfer degree (A.A., A.Bus., A.S.) students use the Arizona General Education Curriculum (AGEC) Course Lists.
- Occupational degree (A.A.S.) students use the A.A.S. General Education Course List.
- General Studies (A.G.S.) students follow the instructions contained in the program requirements for their general education courses.

Undecided students should meet with an Academic Advisor to discuss possible career interests. If a student is considering a career which requires a university education (bachelor's degree or higher), then he/she should enroll in the Associate of Arts (AA) or Associate of Business (ABus) or Associate of Science (AS) degrees.

Transfer Degrees (A.A., A.Bus., A.S.)

These programs are designed to include Arizona General Education Curriculum (AGEC) courses and selected major and elective courses which the student then transfers to an Arizona university for further study towards a bachelor's degree.

Occupational Degrees (A.A.S.)

These programs are designed to include General Education courses and selected major and elective courses which prepare students for employment in a particular occupation.

General Studies Degree (A.G.S.)

This program is designed to include General Education courses, electives, and selected courses in two concentration areas of study. The A.G.S. is best suited for those students who are transferring credits into AWC or who have military experiences to include as credit; this program is not an Arizona articulated transfer degree.

Occupational Certificates

Occupational certificates are designed for those students who are not seeking a degree and who wish to complete a shorter program of study which provides them with certain skills for immediate employment. The number of credits required in certificate programs varies depending upon the program.

AGEC Certificates

AGEC (Arizona General Education Curriculum) certificates are designed for those transfer students who can only spend one year at AWC, but who would like to finish their lower division general education requirements before transferring to an Arizona university. Students who complete the requirements of an AGECA, B or S but do not complete a transfer degree must fill out and submit a graduation application to be awarded the AGECE Certificate and have the certificate noted on their transcript.

Within these five types of programs, there are many majors from which to choose; see the 2014–2015 Degrees and Certificates in the Academic Programs section.

Discover AWC

Discover AWC is designed for all incoming part-time or full-time students attending classes on any AWC site. Discover AWC provides students with the information and resources necessary for a successful academic experience at AWC. Participants will learn about AWC's degree and certificate programs, the importance of assessment/placement test scores, tips on how to choose classes, ideas on how to build a semester schedule, and how to register for classes. Additionally, students will be provided an introduction to WebAdvisor, Blackboard, and ToroMail, become acquainted with the myriad of academic support resources and services available to them at AWC, and receive information on other important topics necessary for a successful transition to college.

Discover AWC is an exciting and informative opportunity for students taking their first steps into college. Discover AWC is designed for all.

Who is My Advisor?

Academic advising is provided by professional Academic Advisors and by Division Advisors from different disciplines. The Advisement Services Department is located in the One Stop Shop on the second floor of the College Community Center (3C) on the AWC Main Campus. Call (928) 344-7624 or go to www.azwestern.edu/advisement for additional information and additional advisement locations available at other AWC campuses.

An Academic Advisor will:

- Provide information regarding the nature and purpose of higher education
- Explain the meaning of placement test results and how to utilize them
- Perform an unofficial evaluation of transfer credits
- Define and refine educational goals and objectives and understand the consequences of alternative courses of action
- Encourage students to become active participants in their educational planning and college careers
- Identify and provide assistance addressing transfer issues
- Assist students in making appropriate course, certificate, and degree selections
- Deliver accurate verbal and written information on majors and program requirements
- Provide assistance exploring academic and career goals.

In addition to Academic Advisors, there are other faculty and staff resources available at various AWC locations to assist students. Refer to the list below or visit the website at www.azwestern.edu/advisement

Advisement Offices

Main Campus (3C One Stop Shop)	(928) 344-7624
San Luis Learning Center	(928) 314-9449
Somerton Learning Center	(928) 314-9464
Parker Learning Center	(928) 669-2214
Quartzite Learning Center	(928) 927-8299
Wellton Learning Center	(928) 785-4175
MCAS Education Center	(928) 317-7605
International Students	(928) 344-7699
Student Athletes	(928) 317-6112
Career Services	(928) 344-7624

Division Advisors

Business & Computer Information Systems	(928) 344-7670
Career & Technical Programs	(928) 344-7749
Communications, Fine Arts, & Modern Languages	(928) 317-6055
Mathematics and Science	(928) 344-7784
Education & Social Sciences	(928) 317-6421

www.azwestern.edu/advisement

REGISTRATION & FEES

Registration

Students are to register as designated in the College Calendar. To be eligible to register each student must have completed all admissions requirements and have met the pre-requisites (PRE) and/or co-requisites (COREQ) listed in the Course Information section of this catalog. Failure to complete the admissions procedures may result in a delay of class enrollment.

Students are not permitted to register after the designated deadlines without the expressed approval of the instructor and the Division Chair/Dean. Any student needing information about registration may call (928) 344-7550, or email records@azwestern.edu.

Online Registration

You and your Academic Advisor review the online class schedule, select a number of courses, and then, utilizing WebAdvisor, register for the courses. If you have completed 15 credit hours or more, you may be eligible for priority online registration. Please check the Admissions and Registration website at www.azwestern.edu/admissions for the current priority online registration schedule.

To check your completed credit hours, log on to WebAdvisor, click transcript link (under academic profile), and scroll down for the total number of completed credit hours. Priority online registration does not count classes you are currently taking.

Special Admit Signatures for Registration

All students in middle school, grade school, or high school that are 16 years old and under must meet with an AWC Academic Advisor before registering for classes. Academic Advisors may have permission to sign on behalf of the instructors to register for certain classes. Students may be required to obtain written permission from the instructor for other classes. The decision to approve the student's registration is dependent upon one or more of the following: placement test scores, academic history, current course enrollment, and/or instructor approval. Students may also qualify for a reduced tuition rate based on date of birth.

Academic Class Load

The standard academic load, for a program to be completed in two years, is defined as 15–16 credits per semester. Most classes routinely require two to three hours of outside preparation for each hour spent in class. Enrollment in 19–21 credits requires Academic Advisors approval. Public

Safety Institute students may obtain overload approval from the program director/faculty. Enrollment in more than 21 credits requires the signature of the Director of Career and Advisement Services, Student Services Coordinator or designee. Enrollment in 11–12 credits in the summer requires Advisor approval. Enrollment in more than 12 credits in the summer requires the signature of the Director of Career and Advisement Services, Student Services Coordinator or designee. Students must submit their requests in writing and provide copies of their transcripts.

Course Load and Program Completion

Full-time status is defined as being enrolled for 12 or more credits in any given semester. If you choose to enroll for only 12 credits per semester, keep in mind that in four semesters, you will have completed only 48 credits. Most degree programs require completion of 64 credits.

Students choosing to enroll in 12 credits per semester, therefore, should plan on enrolling in summer or winter semester classes.

Change of Enrollment

Adds and Drops

During the designated add/drop period or as specified by the Director of Admissions/Registrar or designee, students may revise their programs by dropping classes and/or adding classes that are open. Certain restrictions may apply. Students withdrawing from class(es) after the add/drop period must follow withdrawal procedures. Classes dropped during the designated add/drop period will not appear on the student's transcript. Check with the Financial Aid Disbursement Department. See refund policies.

No-Shows

Students are expected to attend every class session in which they are enrolled. Students who have enrolled but have never attended class may be issued a No Show grade by the professor or instructor and receive a grade of "NS" on their official academic record.

Withdrawals

After the designated add/drop period and through the first three quarters of the course, or as specified by the Director of Admissions/Registrar or designee, students may withdraw from one or more classes and receive a grade of "W" on their official academic record. Classes lasting less than an entire semester may have a different withdrawal period.

Students who withdraw from any AWC course must submit a Withdrawal Form to the Admissions and Registration Office or any AWC off-campus site. The student must provide the "Last Date of Attendance" on the withdrawal form received by the Admissions and Registration Office. The "Last Date of Attendance" and the date the form was received for processing will be recorded for reporting and compliance requirements.

Administrative Withdrawals

Pursuant to 15-1466.02 ©, on the 45th-day class rosters, students who have not formally withdrawn but have stopped attending a course may be administratively withdrawn by the professor or instructor. A grade of "AW" (administrative withdrawal) and last date of attendance may be issued by the professor or instructor in these circumstances. Please note: it is the student's responsibility to properly withdraw from a course to avoid any academic or financial aid penalties.

Veteran Educational Benefits recipients and financial aid recipients, withdrawing may affect your award. Check with the Financial Aid Disbursement Department. See refund policies.

Payment of Financial Obligation

After you have registered for classes, your next step is to pay the tuition and any fees for the upcoming semester.

- All financial obligations are due and payable at the time they are incurred if the payment due date for a given term has passed. If payment in full is not received by the stated deadlines, you may be de-registered from your classes. Administrative de-registration occurs daily through the end of the official drop/add period. Any courses not dropped prior to the end of the official drop/add period will be the student's responsibility.
- The college accepts no responsibility for dropping you from the specific classes you intended not to take. **It is your responsibility** to officially drop a class during the official add/drop period of any semester or class, if you decide not to attend. Officially dropping will ensure that you will not be charged for classes that you do not attend.
- **Methods of payment** Forms of payment include cash, Visa®, MasterCard®, Discover® Card, money order, or check. Make checks and money orders payable to Arizona Western College. **Important—Write your AWC student ID number in the bottom left-hand corner of your check or money order. Please do not send cash in the mail.** United States legal tender is the only currency acceptable for payment of financial obligations at AWC. Bank drafts, checks and/or money orders drawn on United States financial institutions are accepted

contingent upon clearance through our banking facilities. Students may also pay online through e-Cashier by credit card (Visa®, MasterCard®, Discover®Card, or American Express®) or electronic check on WebAdvisor. Once you've logged in, click on the students link. Then click on the Online Payment link under Financial Information.

- **Payment Plans** Payment arrangements may be made online through e-Cashier on WebAdvisor. Once you've logged in, click on the students link. Then click on the Online Payment link under Financial Information. Payment plans made through the Online Payment program allow the college to make adjustments (i.e., increases and decreases) to your agreement and payment amounts according to NACHA guidelines. Students will be responsible for any additional costs incurred after the initial payment plan is completed.
- **Tuition Assistance** Active Duty military personnel may be eligible for tuition assistance programs. Please contact your branch Education Officer for additional information on available programs. The college requires that an official authorized Tuition Assistance Voucher be submitted on or before the day of registration. Failure to either submit an approved voucher or full payment may result in de-registration of classes. Any overpayment made by the student will be refunded to the student upon receipt of the approved Tuition Assistance Voucher.
- **Residence Hall Charges** Students who plan to live in the residence hall are required to pay for their room and board before they are allowed to check in and receive a room key. Students must be registered for a minimum of 12 credit hours to be eligible. A deposit of \$100.00 and proof of immunizations are required before a room will be assigned.
- **Past due student accounts** Students who have outstanding balances with the College will periodically receive statements of the account balance. Once the account has been deemed "uncollectible" (typically after reaching 120 days past due) the account will be turned over to the College's collection agency. Additional services such as providing official transcripts, testing services, or registration for additional courses will be prohibited until the balance is paid in full.

Concurrent Enrollment; Non-resident Tuition (A.R.S. 15-1807)

It is unlawful for any non-resident student to register concurrently in two or more public institutions of higher education in this state, including any university or community college, for a combined student credit enrollment of more than six credits without payment of non-resident tuition at one of such institutions.

Any non-resident student desiring to enroll concurrently in two or more public institutions of higher education in this state including any university or community college, for a combined total of student credits who is not subject to non-resident tuition at any of such institutions shall pay the non-resident tuition at the institution of his/her choice in an amount equivalent to non-resident tuition at such institution for the combined total of credits for which the non-resident student is currently enrolled.

Schedule of Fees 2014–2015

The College reserves the right to make changes in the Schedule of Fees without notice as they become necessary.

Tuition and fees and other costs are summarized at www.azwestern.edu. To complete early registration for the Fall semester all tuition and fees and costs must be paid by the payment deadline for early registrants. To register for classes at any other registration period all tuition and fees and other costs are due and payable at time of registration.

**Food Service contracts subject to variation.*

Refund Policies

Refund of Tuition and Special Fees

Refunds are processed automatically on a weekly basis after the start of each semester. Refunds may be combined with financial aid disbursements, and therefore may be subject to financial aid disbursement dates. If payment was made by credit card, the refund will be applied back to your credit card and you will be notified by mail. All other refunds will either be mailed to the student's last known address or returned to the appropriate financial aid program, as applicable. Refunds of less than one dollar will not be processed.

Dropping a Class

Students who officially drop one or more classes during the designated add/drop period of any semester or class will be refunded all tuition and special fees. The College accepts no responsibility for dropping you from the specific classes you intended not to take. It is your responsibility to officially drop a class during the official add/drop period of any semester, or class, if you decide not to attend. Officially dropping will ensure that you will not be charged for classes that you do not attend. Financial Aid recipients should refer to the "Financial Aid & Scholarships" section of the catalog for further clarification. To initiate the refund process, see "Refund of Tuition and Special Fees".

Deadlines for Dropping Classes and Receiving a Refund

To drop a class, go to www.azwestern.edu and click on WebAdvisor.

To receive a refund for:

- **a 16-week semester length class**, an official drop must occur prior to or during the first four days of the semester
- **a 16-week semester length class meeting one day per week**, an official drop must occur prior to or on the day of the second class meeting
- **a summer semester class**, an official drop must occur prior to or during the first three days of the semester
- **a class meeting a total of four times or less**, an official drop must occur prior to the first class meeting
- **all other classes (e.g., 12-week, 8-week, late start, summer, etc.)**, an official drop must occur prior to or on the day of the second class meeting

Cancelled Class

Fees for classes cancelled by Arizona Western College will be fully refunded. A net reduction in total credits due to changes in enrollment or the cancellation of a class may qualify a student for a refund. Financial Aid recipients should refer to the Financial Aid section of the catalog for further clarification.

Military Deployment

Military personnel called to active duty for war or national disaster may apply for a pro-rata refund based on the date of total withdrawal from Arizona Western College. Please see **total withdrawal** below for detailed instructions. Tuition assistance waivers may also be available through your service branch's education office. Please contact your service branch education office for more information.

Class Withdrawals After the Add/Drop Period

The student must provide the "Last Date of Attendance" on the withdrawal form received by the Admissions and Registration Office. The "Last Date of Attendance" and the date the form was received for processing will be recorded for reporting and compliance requirements.

For a **partial withdrawal**, no refund request will be considered, charges will remain on the student's account, and classes will be reflected on the student's transcript.

For a **total withdrawal** from all classes, students may be eligible for a prorated refund of all tuition and special fees. Please see “B. Extenuating Circumstances Refund Criteria” section for the criteria that must be met. An administrative charge, not exceeding the lesser of \$100 or 5% of charges assessed the student, will be deducted from all refunds after the add/drop period. All financial obligations must be satisfied prior to a total withdrawal from the College. Requests for refund after the end of the refund period must be submitted by a Petition for Extenuating Circumstance Refund form to the Business Services Office. **The deadlines to be considered for a refund are as follows: Fall—Last Thursday in October, Spring—Last Thursday in March, Summer—June 30.**

A. Refund Calculation

- End of add/drop period receives a 100% refund less an administrative charge
- End of add/drop period through 10% of enrollment period receives a 90% refund less an administrative charge
- Greater than 10% through 25% of enrollment period receives a 50% refund less an administrative charge
- Greater than 25% through 50% of enrollment period receives a 25% refund less an administrative charge
- Greater than 50% of enrollment period receives no refund

(See Return of Federal Funds Policy—part C, below, if you are receiving federal financial aid.)

B. Extenuating Circumstances Refund Criteria

Requests for refund after the end of the refund period must be submitted by a Petition for Extenuating Circumstances Refund form to the Business Services Office. Forms are available at the Business Services Office on Main Campus, at all off-campus sites and online through WebAdvisor. Once you’ve logged in, click on the student’s link. Then click on the Petition for Extenuating Circumstances Refund form link under Registration. Extenuating circumstances include:

- serious illness or injury verified by a doctor’s written statement (includes psychological disabilities verified by a psychologist)
- death of a spouse, parent, in-law, grandparent, sibling, or child verified by a death certificate
- military duty assignment changes verified by a copy of the orders

Requests not meeting these requirements will not be considered for a refund of extenuating circumstance. If a student received federal financial aid, it will be returned to the applicable federal financial aid program/grantor.

Examples of ineligible requests include: academic issues, course too difficult, financial issues, transportation issues, child care issues, course too easy, time conflict with employment, course scheduling conflict, faculty member conflict, time conflict with family obligations.

For a petition due to instructional issues please refer to the “Academic Policies & Regulations” section.

C. Return of Federal Funds Policy

This policy governs all federal grant and loan programs (Pell, SEOG, ACG Grant, Stafford Loans, Perkins, Direct and PLUS loans), but does not include the Federal Work-Study program.

The Higher Education Amendments of 1998 pertain to the Return of Title IV Federal Financial Aid when a student **withdraws completely from school**. Title IV funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive.

In general, the law assumes that a student “earns” **approved (verified)** federal financial aid awards in proportion to the number of days in the term prior to **the student’s complete withdrawal**. If a student completely withdraws from school during a term, the school must calculate, according to a specific federal formula, the portion of the total scheduled financial assistance that the student has earned and is, therefore, entitled to retain, until the time that the student withdrew. This policy governs the earned and unearned portions of the student’s Federal Title IV Financial Aid only. It determines how much, if any, the student and/or the school may need to return. This policy does not affect the student’s charges. **The student is responsible for paying any outstanding charges to the school.**

Return of Funds Calculation

- The responsibility to repay unearned aid is shared by the institution and student in proportion to the aid each is assumed to possess.
- During the first 60% of the enrollment period the student “earns” Title IV aid in direct proportion to the length of time he or she remains enrolled.
- Percentage is calculated by dividing the number of days completed in the term by the number of calendar days in the term.
- Percentage is applied to the amount of disbursable aid to the student for that period of enrollment.

Order of Return of Title IV Funds

A school must return Title IV funds to the programs from which the student received aid, up to the net amount disbursed from each source:

- Unsubsidized Federal Stafford loans
- Subsidized Federal Stafford loans
- Unsubsidized Direct Stafford Loans
- Subsidized Direct Stafford Loans
- Federal Perkins loans
- Federal PLUS loans
- Direct PLUS Loans
- Federal Pell Grant
- FSEOG (Federal Supplemental Educational Opportunity Grants)
- other Title IV assistance

Student Repayment Responsibility

The student is obligated to repay grant overpayments. Upon submission of the withdrawal card, the Financial Aid Disbursement Office will notify the student, in writing, of the amount of overpayment and available payment arrangements. If not paid within 45 days, the US Department of Education will be notified.

No-Shows

Students are expected to attend every class session in which they are enrolled. Students who have enrolled but have never attended class may be issued a No Show grade by the professor or instructor and receive a grade of "NS" on their official academic record. If this occurs, it is the student's responsibility to repay the Financial Aid award, accordingly, for classes not attended.

Room and Board Refunds

Refunds to students departing from the residence halls prior to the end of the semester are computed on the following basis:

- before ten weeks of room and board occupancy, students forfeit their room deposits. Students will also be charged 10% of the total semester rate for room and board for each week or partial week of registered occupancy, beginning with the day the residence halls are open.
- after ten weeks of room and board occupancy, students are not entitled to any refund for room, or board, but will be eligible for refund of the room deposit. The room deposit is retained as security against a student's cancellation of the housing agreement, voluntary termination

of residency prior to full semester payment, property damage or other possible charges that may accrue during residency. Although normally refundable, the entire room deposit is subject to forfeiture under the conditions stated in the Arizona Western College Residence Hall Agreement.

- students removed from housing for non-compliance or conduct are not entitled to a refund of any portion of the room and board and will automatically forfeit their housing deposit.

ACADEMIC POLICIES & REGULATIONS

Academic Policies

Classification of Students

- **Freshman:** completed **fewer than 30** credits
- **Sophomore:** completed **30 or more** credits
- **Part-time student:** enrolled for **less than 12** credits
- **Full-time student:** enrolled for **12 or more** credits

Academic Standing

The following policies apply only to students who have attempted 12 or more credits at AWC. Students must maintain at least a cumulative grade-point average (GPA) of 2.000. An **academic warning** is in effect when:

- a student's cumulative GPA is less than 2.000; or
- a student with an academic warning attains the most current semester's GPA of at least 2.000, but still has a cumulative GPA below 2.000.

Academic probation is in effect when a student, on warning from his/her previous semester of attendance, fails to attain at least a 2.000 semester GPA in the most current semester. Students on academic probation will not be permitted to enroll in more than 12 semester credits, and will be required to: 1. Meet with Advisement Services a minimum of three times during the semester of the academic probation; 2. Develop an Educational Academic Plan (EAP); 3. Enroll in and successfully complete a designated Strategies for Success course and/or attend a designated workshop(s); 4. Sign an educational contract with Advisement Services for the semester of the academic probation.

Academic suspension is in effect when students on academic probation from his/her last semester of attendance fail to attain at least a 2.000 semester GPA in the most current semester. Students placed on academic suspension will not be allowed to enroll in courses unless the student follows the appeal process below.

Restrictions of Suspension

Students who are:

- suspended spring semester are not eligible to enroll in or attend any spring semester class
- suspended fall semester are not eligible to enroll in or attend any fall semester class. Enrollment in summer semester(s) will be allowed.

Length of Suspension

After at least a one semester absence [not including summer semester(s)] the student will be eligible, without appeal, for readmission to AWC under academic probation status.

Readmission Without Appeal

After a semester of absence, a readmitted student will be placed on academic probation and will not be permitted to enroll in more than 12 semester credits. Students must also meet the following conditions: 1. Meet with Advisement Services a minimum of three times during the semester of the academic probation; 2. Develop an Educational Academic Plan (EAP); 3. Enroll in and successfully complete a designated Strategies for Success course and/or attend a designated workshop(s); 4. Sign an educational contract with Advisement Services for the semester of the academic probation.

Appeal

A suspended student may seek readmission to AWC by submitting a written appeal and supporting documentation to the Readmissions Committee, in care of the Admissions and Registration Office, no later than the first day of regular registration or date designated by the Dean of Admissions and Enrollment Services for the semester in question. The appeal letter and supporting documentation should justify why the committee should consider readmission. The decision of the Committee is final and cannot be appealed further.

A student readmitted for one semester under this section may be limited in the number of credits or classes allowed and may be required to submit to academic monitoring by Advisement Services throughout the semester. The Readmissions Committee will review the student's record at the end of the semester and determine if the student shall be placed on academic probation, attend classes with continued monitoring, or attend classes without restriction.

A preregistered student will be dropped from all classes if the appeal process upholds suspension.

Readmission to Arizona Western College

A student readmitted under an academic suspension appeal will be placed on academic probation and will be subject to other conditions imposed by the Readmissions Committee. These conditions include, but are not limited to:

1. Meeting with Advisement Services a minimum of four times during the semester
2. Updating EAP and completing an educational contract with Advisement Services
3. Enrolling in a designated Strategies for Success course and/or attending a designated workshop(s)
4. Enrolling in semester credits designated by Readmissions Committee.

Arizona Western College does not normally recognize credit earned from other institutions during the time the student is on academic suspension.

Academic Renewal Policy

A student returning to Arizona Western College after an absence of at least three years and who has satisfactorily completed 12 or more credits after returning, may, with the approval of the Dean of Instruction, have his/her former record treated in the same manner as transfer credits. That means that credit would be retained only for those courses in which a grade of "C" or higher was earned. All courses will remain on the student's transcript; however, course work affected by this policy with grades of "D" or "F" will not be calculated into the cumulative grade point average and will not be included in total credits completed. To request academic renewal, a student should contact the Dean of Instruction's office for a Petition for Instructional Issues.

Academic renewal may be granted only once during a student's enrollment.

Choice of Catalog

Students maintaining continuous enrollment follow the requirements outlined by the catalog in effect when they first enroll in a public Arizona community college or university. A student may choose instead to follow the requirements outlined by any single catalog in effect during subsequent terms of continuous enrollment. Each student is responsible for knowing and abiding by the policies described in the catalog chosen. *AWC policy is defined as:* Students not attending or who totally withdraw from AWC for two consecutive semesters or more (excluding summer semesters) must meet the requirements outlined in the catalog in effect at the time of re-enrollment.

Summer Admission

Students admitted or readmitted to a public Arizona community college or university during a summer term follow the requirements of the catalog in effect the following fall semester. Students transferring among Arizona public higher education institutions must meet the admission requirements, residency requirements, and all curricular and academic requirements of the degree-granting institution.

Program Changes by Outside Regulatory Agencies

Those students enrolled in programs regulated by outside agencies, such as nursing and emergency medical services, may be subject to changes in their degree or certificate requirements. Students in such programs should keep in close contact with their Academic Advisors about such possible changes in order to allow for a timely completion of the new requirements.

Grading System

Grading System I*

Performance for Learning Outcomes	Points Per Credit
A —Exceptional Performance	4 (for most learning outcomes)
B —Good Performance	3 (for most learning outcomes)
C —Satisfactory Performance	2 (for most learning outcomes)
D —Unsatisfactory Performance	1 (for most learning outcomes)
F —Unsatisfactory Performance	0 (for all learning outcomes)

Grading System II*

- CR** (Credit) not computed into the GPA
- NC** (No Credit) not computed into the GPA

To earn credit, "CR," a student must have achieved an equivalent grade of "C" or higher for the course. No prerequisite requirement will be satisfied by a grade of "D" or "F."

Additional grades included in both systems but not calculated into the GPA are:

- AU** Audit
- I** Incomplete
- W** Student-initiated Withdrawal
- AW** Administrative Withdrawal
- NS** No Show
- R** Repeat
- IP** In Progress

**Students have the option to select either Grading System I or Grading System II at the time of registration. A change from Grading System I to Grading System II or from Grading System II to Grading System I is permitted prior to the mid-point of the course. It is the responsibility of the student to initiate this procedure and complete the required paperwork.*

A maximum of 30 credits of "CR" may be applied toward graduation from Arizona Western College. A minimum of six credits in Freshman Composition and the required major courses must be completed under Grading System I except upon approval of the Dean of Instruction or designee. Courses taken for the Arizona General Education Curriculum (AGEC) must be completed under Grading System I except upon approval of the Dean of Instruction or designee.

Audit

Auditing classes is permitted with the permission of the instructor. Students auditing a class are expected to attend class regularly and participate in general class activities; however, students are not required to take examinations or complete class assignments. Students auditing a class must officially register in the course but will not receive credit or a grade in the class. The grade of "AU" will show on the official college transcript.

In addition to the regular tuition and fee charges, there will be an additional assessment as specified in the Tuition and Fees Schedule.

The last day to change a class from audit to credit or credit to audit is the last day of the add/drop period. Courses taken as audit may not be retaken for credit.

Incomplete

A grade of incomplete may be awarded at the discretion of the instructor and is permissible only when the student has been unable to complete assigned course work due to an illness or to other reasons beyond his/her control and is applicable only when the student would otherwise have had a passing grade.

A student receiving an incomplete has the responsibility of initiating the procedure for completing the work. The course must be completed during the following semester or a grade of "F" (if registered for Grading System I), or "NC" (if registered for Grading System II), will be recorded for the course. Additional time may be required by the student and granted at the discretion of the instructor. In the event an extension is granted, the instructor must notify the Admissions and Registration Office in writing.

Student-initiated Withdrawal

After the designated add/drop period and through the first three quarters of the course, or as specified by the Director of Admissions/Registrar or designee, students may withdraw from one or more classes and receive a grade of "W" on their official academic record.

Administrative Withdrawal

Students who have not formally withdrawn but have stopped attending a course may be administratively with-

drawn by the professor, instructor or administrator and receive a grade of "AW" on their official academic record.

No Show

Students who have enrolled but have never attended class may be issued a No Show grade by the professor or instructor and receive a grade of "NS" on their official academic record.

Repeat

Students may enroll for a course previously completed at AWC for a variety of reasons: (1) to earn a better grade, to update knowledge in a particular field, or to take a refresher course, or (2) to earn additional credits in courses which change topics or which allow for continuous and multiple experiences. In the first case, only the best grade is figured into the GPA and the course credits are only counted once. An example is a student who took SPA 101 and received a "C," but felt he didn't learn the basic grammar well enough to advance to 102; he repeats 101. In the second case, all the credits and grades of each repetition are figured into the student's GPA and total number of credits. An example is a theater student who participates each semester in the College's plays; she enrolls in THE 250 Rehearsal and Production four times and receives credits and grades for each semester.

Permission to repeat some courses may require departmental or division approval, and it may not be possible to repeat some courses due to program or external requirements.

In Progress

"IP" is a grade indicating a course is in progress and a final grade has yet to be assigned. It is not to be used as an alternative to an incomplete grade. The "IP" must be used for open entry/open exit courses or short courses approved by the Dean of Instruction when the ending date of the course is not coincidental with the ending date of the grading period in which the course begins.

At the close of the first grading period, an "IP" grade will be assigned. The "IP" will be replaced by a letter grade at the conclusion of the course. There is a limit of one more semester beyond the semester of enrollment (not including summer) to replace the "IP." After this time limit, the "IP" reverts to the grade of "F." The "IP" is not computed in the GPA.

Attendance Policy

Students are expected to attend every session of class in which they are enrolled. Class attendance is especially important for academic success at the college level, particularly for laboratory and activity classes since a substantial portion of course content can be learned only through class participation.

Petition for Instructional Issues

A grade reported to the Director of Admissions/Registrar may be changed only upon the authorization of the faculty member issuing the grade, unless there is evidence of institutional error. Students should first discuss the issue with the faculty member involved. If the problem is not resolved, then the student should discuss the issue with the appropriate Division Chair/Director or Coordinator. If the issue is not resolved, the student may obtain a Petition for Instructional Issues from the Office of the Dean of Instruction and write a formal request for a review of the grade. Grade change requests must occur within the following semester (including summers) of the original grade issuance. After the one-semester period, a request for review of grade will not be granted unless there are unusual circumstances as determined by the Dean of Instruction or designee. The procedure can be found in the Student Rights and Responsibilities Section of this catalog. **Examples of Instructional Issues include:** general academic issues, faculty member conflict, and course scheduling conflict.

Course Admission by Exception

A number of courses require specific pre-requisites or co-requisites and/or permission of the instructor in order to enroll. Students who have not met the specified pre-requisite with a grade of "C" or higher or have not met the co-requisite course(s), but who can demonstrate the essential knowledge and skills to enroll in a course should contact the respective instructor. The instructor's signature, which is required, recommends students who do not meet the specified pre-requisite with a grade of "C" or higher or have not met the co-requisite course to their respective Division Chair/Director or Coordinator for exception. The Division Chair/Director or Coordinator's signature is required in order to gain admission into the course. *Division Chair/Director or Coordinator signature will suffice in faculty absence.*

Course admission by exception does not apply to all English, math, and reading courses. Additionally, courses/programs with externally imposed admission requirements such as EMS, law enforcement, nursing, and radiologic technology may not be considered for exception.

Independent Study

AWC provides the opportunity for students to pursue, on an individual basis, subjects in the students' major area of study. Independent study is not intended, nor will it be allowed, as a substitute for existing courses as listed in this catalog. If the student is preparing to complete the last semester of study prior to graduation and the college is unable to offer a major course required for a degree, independent study will be considered.

In an independent study arrangement, the student first receives approval from his/her advisor and the instructor selected to supervise the study. The student then meets

with the instructor to arrange a course outline and to agree on the requirements. The instructor then notifies the appropriate Division Chair/Director or Coordinator who authorizes scheduling of the course. The number of credits may vary. Current tuition rates apply, as do standard grading policies. Independent study opportunities are for students who:

- are currently enrolled in classes at AWC
- have a 3.0 or higher cumulative GPA
- have completed 12 credits in their major
- are eligible for General Education course work

Independent study courses are subject to the availability and consent of qualified instructors. Courses are run by semester and all work must be completed within the semester dates. A student may register for a maximum of 4 credits of independent study in a given semester. Only 4 credits taken as independent study will apply toward an associate degree.

Final Exams

Final examinations are an essential and integral component of students' classroom experiences, and all students are required to take them. Times and dates of final examinations are published in the AWC Registration Information. Students must attend their final examinations sessions.

A student is not required to take more than two final exams in one day (6:00 AM–10:30 PM). In case a student is scheduled for three or more exams in one day, he/she should contact the appropriate faculty member or Division Chair/Director or Coordinator (AWC) of the middle final. The faculty member or Division Chair/Director or Coordinator will then arrange to schedule a make-up exam with the appropriate faculty.

Dean's List

Each semester, students who successfully complete 12 or more credits and whose grade-point average for the semester is 3.500 or above are placed on the Dean's List for special academic achievement. Only A, B, C, D and F grades are used to calculate the grade-point average.

Honors Program Options

Students may choose from among three different Honors tracks. Upon completion, the chosen track will be designated on both the transcript and the diploma and will be recognized at a special Honors Convocation at graduation.

Honors Liberal Arts

The most prestigious level of AWC Honors, this option is recommended for those students who wish to enter a rigorous program with a "classical honors" orientation. These students must meet the following requirements:

- complete all requirements for the Honors General Studies option (below).
- demonstrate competency in a second language or complete two courses of foreign language study.

Honors General Studies

This option is recommended for transfer-degree students not wishing to study a foreign language. These students must meet the following requirements:

- complete two Honors Seminars (HON-180, 1 credit).
- complete at least one 3-credit Honors Colloquium (HON 280) or Capstone Project (HON 285).
- complete at least 19 additional Honors credits— comprised of Honors general education courses.

For both the above degree options, AGEC-S students need complete only 18 additional Honors credits, including a Colloquium or Capstone.

Discretionary Honors

Students who wish to take a few Honors courses, but who do not elect either of the above Honors Program options, may take selected courses for Honors credit. These students must meet the following requirements:

- complete two Honors Seminars (HON 180, 1 credit)
- complete at least one 3-credit Honors Colloquium (HON 280) or Capstone Project (HON 285).
- complete at least 12 additional Honors credits comprised of any Honors general education courses.

All courses completed for Honors credit will carry an Honors (HON) prefix or be designated with an H on the transcript, even if one of the programs in Honors is not completed. For all of the above Honors Program options, no grade of less than "C" may be used in the overall program, and no grade of less than "B" is allowed for Honors credit.

Graduation

In the final semester of your enrollment, you should apply for graduation. The graduation policies and procedures of AWC are as follows:

To graduate from AWC, the student must:

- meet the basic requirements for an associate degree or certificate, as listed in the General Program Requirements section of this catalog

Note: a minimum of a "C" grade and a minimum 2.0 GPA is required for all courses in a certificate or degree program

- pay the required non-refundable graduation fee to the AWC Cashier. The graduation fee covers the cost of processing and issuing of diplomas.
- file a completed Application for Graduation form with the Admissions and Registration Office in accordance with the following time schedule

Students who complete the requirements of an AGEC-A, B or S but do not complete a transfer degree must fill out and submit a graduation application to be awarded the AGEC Certificate and have the certificate noted on their transcript.

Term of Expected Graduation Application Deadline

Fall	1st Monday in November
Spring	1st Monday in March
Summer	1st Monday in June

- clear any indebtedness to the college before degree/certificate requirements will be certified or the degree/certificate will be awarded
- meet in full the requirements for graduation set forth in this catalog

Students not completing graduation requirements within the semester for which they applied will be required to re-apply and will be charged an additional graduation fee.

Additional Degree and/or Major

A student may earn recognition of an additional major, subject to the following stipulations:

- all degree and major requirements must be completed.
- students must apply through the normal graduation application process.

Academic Distinction

Students who have achieved a grade-point average of 3.400 or above will receive academic honors upon completion of the degree.

Academic Distinction (degrees only):

Highest	3.900–4.000
High	3.600–3.899
Distinction	3.400–3.599

STUDENT RIGHTS & RESPONSIBILITIES

Arizona Western College considers all students enrolled in the College as adult students responsible and accountable for their own behavior. Enrollment in the College carries with it the requirement that all students conduct themselves as responsible members of the campus community and maintain the highest degree of integrity and honesty. It is the expectation of AWC that students will obey local, state, and federal laws and conduct themselves in accordance with the College's standards of conduct as defined in the Arizona Western College Student Code of Conduct. This document is intended to provide a framework for an orderly and stable College community and to protect the due process rights of students and other members of the campus community.

Code of Conduct (Code)

The Code covers student conduct which occurs on College property, at a College sponsored, sanctioned, or supervised activity or function regardless of location, and, in any manner, on or off campus, is associated with the College or otherwise deemed to affect the operation of the College. The Student Code of Conduct is printed in the AWC Student Handbook and available on the College website at www.azwestern.edu Examples of prohibited conduct include, but are not limited to:

- academic dishonesty
 - plagiarism
 - forgery
 - cheating
- disruptive conduct
- possession, sale, purchase, use, or transfer of illegal drugs, drug paraphernalia, or alcohol
- under the influence of alcohol or drugs
- threats, assaults, and fighting
- defamation
- obscenity and vulgarity
- initiation and hazing
- fraud, misrepresentation, extortion, and theft
- endangering the health and safety of others
- destruction of College facilities
- false imprisonment
- harassment and sexual harassment
- vandalism, littering, and destruction of property

Student Grievance Procedure

The primary objective of the Student Grievance Procedure is to ensure concerns are promptly dealt with and resolutions reached in a fair and just manner. It is essential each student be given adequate opportunity to bring complaints and problems to the attention of the College with the assurance each will be heard and due process afforded the student. College Procedure #551.1 is available at www.azwestern.edu/business_and_administrative/human_resources/procedures.html

A grievance is a complaint by an AWC student involving an alleged misapplication or violation of any College policy or procedure that adversely impacts the student or any other dispute within the College that directly impacts the student in adverse manners. A Grievance may include, but is not limited to , complaints alleging (a) mistreatment by a College employee, (b) errors in the assessment of fees or other financial obligations, (c) registration errors, (d) loss of financial aid eligibility, and/or (e) student housing issues. Student is an individual who is matriculate or otherwise enrolled to attend class full or part-time at AWC.

Issues and Disputes Not Covered in the Student Grievance Procedure:

1. Requests to review and challenge contents of student records will be processed according to the College procedure #545.1 Student Record Confidentiality.
2. Grievances or concerns involving harassment or discrimination on the bases of race, color, religion, sex, age, national origin, disability, or Vietnam-era veteran will be processed according to procedure #455.2 Grievance for Specified Civil Rights Grievances.
3. Grievances relating to sexual harassment will be processed according to College procedure #460.1 Prohibition Against Sexual Harassment.
4. Appeals of disciplinary actions will be handled as provided in College procedure #550.1 Student Code of Conduct.
5. Appeals or petition regarding instruction or academic issues will be processed according to College procedure #551.2 Instructional Grievance Petition.
6. Complaints that, on their face, are not subject to possible resolution in a student grievance context. (An example would be a student complaint where the student's requested relief is prohibited by state or federal law.)

Students should try to resolve the problem informally with the person(s) alleged to have caused the grievance and/or with the direct supervisor before pursuing a formal grievance. Formal Student Grievances must be submitted

in writing to the appropriate Vice President. The Vice President will forward the grievance to the most appropriate person to resolve the issues. Forms are available in most administrative offices throughout the College District or online.

Copyright Act Compliance

Students are expected to comply with the provision of the Copyright Act of 1976 pertaining to photocopying of printed materials, copying of computer software, and videotaping. To assist students in complying with the copyright law, appropriate notices shall be placed on or near all equipment capable of duplicating copyrighted materials.

Taping of Classroom Lectures

- Faculty members shall inform their students, within the first week of class, their rules regarding taping. Failure to do so will accord students the right to tape the lectures.
- Students with disabilities that render them unable to take adequate lecture notes are entitled to reasonable accommodation to remedy this inability. Requests for accommodation are processed through the AccessABILITY Resource Services Office.

Campus Police

The role of the AWC Campus Police Department is to provide service to our unique community of students, faculty, staff, and visitors. The Campus Police Department fully supports the educational mission of the college and provides safety, security, and policing services balanced with supporting and contributing to an environment conducive to learning, working, and living. Services include crime prevention and safety education programming, campus communication of safety tips and crime alerts through the Cop Talk newsletter, partnership for safety and crime prevention with student Residence Life department, building and campus security program, and motorist assist program. The AWC Campus Police are available 24 hours per day for campus patrol, providing evening escort services to parking lots, lock/unlock problems or vehicle assists, building access and security, and response to incidents. To contact AWC Campus Police call (928) 344-5555 or (928) 314-9500.

Vehicles on Campus

Visitor, staff, faculty, and student parking on campus is unrestricted in all parking lots with the exception of marked visitor spaces and lots adjacent to the residence halls. Parking permits are not required for any vehicles. Students residing in the campus residence halls must register their vehicles with the Campus Police Department in order to park in the

parking lots adjacent to the halls. Residence hall students must post their AWC vehicle registration in their vehicle at all times when parking on campus.

All persons driving and parking on campus are subject to campus regulations and applicable laws of the state of Arizona. All regulations and fines are authorized by the state of Arizona Revised Statutes 15-1449. AWC Traffic Regulations are printed in the AWC Student Handbook and are available at the Campus Police Department Office in the District Services Building.

Records Privacy Policy

The Family Education Rights and Privacy Act (FERPA), deals specifically with the education records of students. For purposes or definition, education records are those records that are:

- directly related to a student and
- maintained by an institution or a party acting for the institution

The Family Education Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. *The right to consent to disclosures of personally identifiable information contained in their education records, except to the extent that FERPA authorizes disclosure without consent.*

One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the college in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Council of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities.

Upon request, the college may disclose education records without consent to officials of another school in which a student seeks or intends to enroll, or where the student is already enrolled so long as the disclosure is for purposes related to the student's enrollment or transfer.

2. *The right to restrict the disclosure of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes such disclosure without consent.*

The student has the right to restrict the publication or dissemination of Directory Information. To do so, a student must complete a Request to Restrict Disclosure of Directory Information form.

3. The right to inspect and review their education records within 45 days of the day the university receives a request for access.

Students should submit to the Director of Admissions/Registrar, or other appropriate official, written requests that identify the record(s) they wish to inspect. The university official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the college official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

4. The right to request the amendment of their education records that they believe are inaccurate or misleading.

Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write the college official responsible for the record, clearly identify the part(s) of the record they want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as requested by the student, the college will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

5. The right to file a complaint with the US Department of Education concerning alleged failures by Arizona Western College to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office

US Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5920

Copies of the college's policy governing the Family Education Rights and Privacy Act are available in the Admissions and Registration Office. Questions concerning FERPA should be referred to the Director of Admissions/Registrar.



Student Services & Activities



STUDENT SERVICES

Academic Library

The Academic Library is located in the Learning Resources Building. In a world where many people feel overloaded with information, our reference librarians can help you with your research needs. We offer general and customized workshops to familiarize you with both the print and online library resources. We can aide you in learning how to access and evaluate information resources to find quality information needed for your academic projects. The Academic Library serves AWC and the NAU-Yuma Branch Campus students, faculty, and staff, along with residents of Yuma and La Paz Counties.

The Library offers a wide variety of information resources to support the research and general information needs of students (from those in their first-year to those at the doctoral level), faculty, and staff (on and off-campus). The Academic Library houses the Resource Center for future and current community educators. It also maintains links to Northern Arizona University's Cline Library and its resources.

To obtain a library card, please present a picture ID and proof of current address.

Our services include:

- reference and research assistance in person, by telephone, (928) 344-7777, by email, library@azwestern.edu, and instant text messaging, (928) 231-3650
- library orientations and instructional sessions (information literacy)
- online Academic Library catalog access
- Cline Library Catalog access (library catalog for NAU in Flagstaff)
- electronic books
- reference and circulating book collection
- Federal Government Depository collection
- media materials and streaming video collection
- internet access for research purposes
- wireless internet access
- online databases accessible through the campus computers and off-campus via username and password
- periodical collection (including current issues, back issues and many online full-text articles)

- interlibrary loan and document delivery services
- coin-operated copy machines
- group study rooms

The Academic Library maintains the following hours during fall and spring semesters:

8:00 AM–9:00 PM, Monday–Thursday

10:00 AM–5:00 PM, Friday

Noon–5:00 PM, Saturday

Call (928) 344-7777 for summer semester and other hours of operation. For more information go to www.azwestern.edu/library

Student Success Center

The Student Success Center (SC building, on the north side of campus) offers a variety of free services for students. Trained peer tutors are on site in the Math Center and the Writing Center to assist students individually or in small groups. In addition to staff, each center houses a state-of-the art computer lab equipped with software that students can use independently to improve basic skills. Throughout the year, the Student Success Center also offers "Successful Student" seminars where students learn skills that help them navigate their college courses.

The Writing Center provides assistance at any stage of the writing process in any subject. Students are able to schedule appointments with a tutor to address individual writing concerns. Writing tutors do not proofread or edit papers but do assist students with the writing process, focusing on organizational issues, thesis and thesis support, and paragraph and sentence construction. In addition, the writing tutors will assist students with grammar, spelling, and punctuation issues. ESL, Spanish, and reading tutors are also housed in the Writing Center.

The Math Center offers tutoring services for all levels of mathematics on a walk-in basis. In addition, tutorial support for science, technology, and business courses is provided here. Students can receive help with math-related software or check out a laptop for use in the center. The Math Center also features a graphing calculator loan program and rooms available by reservation for small study groups.

The mission of the Student Success Center is to serve students in a way that promotes their successful completion of courses at AWC and beyond. If you need assistance in any course, please contact us. Students who regularly use our services find they are more successful in college.

Both the Math and Writing Centers are open Monday–Thursday, 8:00 AM–8:00 PM, Friday, 10:00 AM–3:00 PM, and Sunday, 5:00–8:00 PM during fall and spring semesters. Hours may vary during summer months and holidays. For more information, call (928) 317-6029 or visit us online at www.azwestern.edu/ssc.

Business Services

Located in the College Community Center (3C), the AWC Business Services Office is open Monday through Thursday, 7:00 AM–5:00 PM, to handle student accounts and other business matters.

Bookstore

A subsidiary of Barnes and Noble, the AWC Bookstore is located in the College Community Center (3C). The hours of operation are 7:30 AM–6:00 PM, Monday–Thursday. Visit our website for updated and extended hours during the beginning of each semester at www.awc.bncollege.com.

Dining Services

The College contracts with a private food service to provide quality and economical meals on campus. The service provides a variety of pre-paid meal plan options from which to choose as well as cash dining operations and catering services. All dining options are located in the College Community Center (3C). Go to www.azwestern.dining.com for more information.

Residential Life

The Office of Residential Life oversees three residence halls on the AWC campus. Suite style accommodations—which include a bathroom, shower, phone line, ethernet, and cable access—are available to accommodate full-time students at both AWC and NAU-Yuma Branch Campus. All residence halls are co-ed with an all female and all male wing option. All residents benefit from a room-and-board cost with all utilities included and a declining balance meal plan. Each hall is staffed by a professional administrator, student support staff, and nighttime security officers.

Application/Agreements must be submitted to the Residential Life Office accompanied by the required deposit and proof of current immunizations—specifically two MMR shots. Although normally refundable, the entire housing deposit is subject to forfeiture under the term outlined in the Residence Hall License Agreement/Contract. In addition, residential students are required to purchase the meal plan provided.

Room assignments are made by date of application and the College reserves the right to consolidate vacancies in the interest of economy. In addition, residents are subject to the Policies and Living Standards as outlined in the Residential Life Handbook.

Measles, Mumps, Rubella (MMR) Immunizations

Arizona Western College policy requires that all students meet **one** of the following immunization requirements for Measles, Mumps and Rubella:

- immunization record listing 2 MMR shots: first given after 12 months of age and second at least 28 days apart from the first.
- a blood titre for immunity to Measles, Mumps, and Rubella exceptions from the Measles and Mumps requirements are provided to students born prior to 1957

Students who do not comply with this regulation may be removed from the residence halls. If you need to update your vaccinations, you can do so for a minimal fee at the Health and Wellness Office on main campus located in Cottage 1.

All students living in the residence hall are required to fill out a Tuberculosis (TB) screening questionnaire. If indicated on the form that the student has visited or lived in a high TB endemic area (as identified by the World Health Organization) a TB skin test will be required.

Health and Wellness

AWC Student Health and Wellness Center is a Nurse-Directed Clinic offering both physical and behavioral health amenities. The Center's mission is to promote safe campus communities and healthy lifestyles to support academic success.

Health evaluations are offered for various illnesses such as earaches, flu, cramps, sprains, burns, bites, etc., along with screenings and treatment for strep throat, urinary tract infections, asthmatic attacks, severe nausea/vomiting, acute sinusitis and STI testing. These services are offered free-of-charge to our students. A fee is required for various immunizations and TB Skin Tests.

The behavior health and wellness is here to assist students with issues related to behavior wellness such as stress, feeling anxious, self-esteem, body image issues, anger, depressed mood, trauma, victimization due to violence, loss, and family and relationship conflicts.

In addition, Student Health and Wellness Center offers various educational programs to encourage students to take responsibility for their own lifelong health decisions.

Student Health and Wellness is located on main campus in Cottage 1. For information call 928-344-7602 or visit the website www.azwestern.edu/health.

Career and Advisement Services

Career and Advisement Services provides ongoing assistance to students in their academic and career development guiding students into, through, and beyond their college experience.

We teach students how to:

- discover their career/academic/personal interests.
- explore their career/academic options.
- create their individual college experiences.
- prepare for their future career.

Career and Advisement Services are both located in the One Stop Shop on the second floor of the College Community Center (3C).

Advisement Services

Advisement Services assists students in pursuit of their goals using a holistic approach that enhances their future plans and maximizes their potential for success, guiding students who are undecided or are working towards completion of one of the following programs:

- Arizona General Education Curriculum (AGEC)
 - Arts (AGEC-A) (Certificate)
 - Business (AGEC-B) (Certificate)
 - Science (AGEC-S) (Certificate)
- Associate Degree for transfer in Arizona (A.A. or A.S.)
- Associate of General Studies (A.G.S.)

For more information, go to www.azwestern.edu/advisement or call (928) 344-7624.

Career Services

AWC Career Services encourages students to get a head start on their future by helping them make important career decisions regarding choosing a major and career. Services include:

- Jobs for Matadors—an online service where students and alumni can post resumes and search on and off campus employment opportunities and internships. Students will also receive assistance in creating their resume through the Jobs for Matadors site.
- Online step by step help in choosing a major and career assistance www.azwestern.edu/careerservices
- Monthly Career Expos highlighting jobs and internships in targeted AWC program of study areas.
- Annual College Majors Fair.

- Resume, job interviewing and cover letter assistance.
- Referral for internships and volunteer opportunities.
- Courses in Career Exploration (AWC 104) and Job Search Strategies (AWC 202).

For more information, go to www.azwestern.edu/careerservices or call (928) 344-7624 for appointments.

Career Courses

AWC 104 Career Exploration (2 credits) Comprehensive examination of the career exploration process designed to assist students in making informed career decisions. Coursework includes a major career research project.

AWC 202 Job Search Strategies (2 credits) Thorough review of the job search process including traditional and non-traditional approaches to job hunting. Coursework will also focus on workplace survival skills, including employer expectations, work attitudes and ethics, customer service, working well with others, and appropriate attire.

Cooperative Education

Students have opportunities to apply theory they have learned to employment or volunteer work related to their major or program of study. Students will work individually with instructors who will supervise their study in conjunction with the work site supervisor. Permission must be obtained from the discipline specific instructor. Career Service Coordinators can assist students in setting up his or her plan.

Transfer Services

Transfer Services is designed to facilitate a smooth transition for students transferring into and from Arizona Western College to a four-year institution. To learn more about university partnerships, course equivalency, and transfer opportunities, visit our website www.azwestern.edu/transfers

Transportation (Bus Service)

Transportation to and from the AWC campus is available through the Yuma County Area Transit (YCAT) bus system. You may purchase a student bus pass at the AWC Business Services Office, AWC San Luis, or AWC Somerton. Schedules are available in the College Community Center (3C) or online at www.ycat.org.

For more information, please call the Department of Campus Life at (928) 344-7576.

AccessABILITY Resource Services

The AccessABILITY Resource Services office works in partnership with students with disabilities, faculty and staff to remove barriers in the educational process through design and accommodation. We recognize disability as an aspect of diversity and promote a culture of inclusion for all diverse groups.

AccessABILITY Resource Services provides services to students who qualify under the American's with Disabilities Act, ADA Amendment Act 2008, and Section 504 of the Rehabilitation Act of 1973. An individual with a disability is an individual with a documented impairment that substantially limits one or more of that individual's major life activities. Recognized disabilities include, but are not limited to, mobility impairments, deafness, hard of hearing, blindness, visual impairments, learning disabilities, chronic medical conditions, and psychological disorders.

Requesting Accommodations and Auxiliary Aids

- Students with disabilities must self-identify with AccessABILITY Resource Services and provide the required disability documentation.
- The eligibility determination process is not a same day process. Once documentation is received, it will be reviewed in order of receipt; therefore, it is recommended that documentation be submitted well in advance of any accommodation related needs (e.g. exam accommodations and alternative media services).
- Students must make an appointment with the ARS Coordinator; located on the top floor of the College Community Center (3C) at (928) 344-7674. Students must meet with the coordinator each semester to develop the accommodation letter.
- Students should be prepared to speak to the Coordinator about their disability and the barriers they feel they may encounter in the classroom, as well as, accommodations or design modifications needed to ensure equal access.
- The ARS Coordinator will work with the students to determine which design modifications or accommodations are appropriate for each class.
- We encourage all students to contact instructors two weeks before the start of classes to discuss accommodations and success strategies for the semester. This not only gives the instructor time to consider the changes that will be needed to ensure access to materials, but also breaks the ice and encourages more effective communication.

Services can be requested at any time during the semester; however, requesting services well in advance will help ensure resources are available when needed.

Requesting auxiliary aids

Note Taking Accommodation:

- Students must identify the classes they will need a note taker in and pick up the "Note Taker Request" form(s) from the ARS Coordinator each semester when they pick up their accommodation letter.
- Students may either find a note taker themselves or the instructor may assist them. If they require assistance, they must approach the instructor before class starts on the first day to request that the instructor reads the announcement on the note taker request form.
- Students must meet the volunteer(s) after class and send their choice with the note taker request form to AccessABILITY Resource Services, located on the top floor of the College Community Center (3C).
- If no one volunteers to share notes students must contact the ARS Coordinator in writing. ARS will find a note taker within 5 working days after notification.
- If students are dissatisfied with the notes, they may terminate the initial note taker contract, and solicit a new note taker.
- If students terminate a note taker, they must submit the reason for termination in writing to the ARS Coordinator.
- If students receiving notes withdraw from a class, they must inform the note taker and the ARS Coordinator in writing within 24 hours.

For more information go to www.azwestern.edu/AccessABILITY

Child Care/Child Development Learning Laboratory

The Dr. Kathryn A. Watson Child Development Learning Laboratory (CDLL) is an academic department of the Social Sciences Division. It provides a practicum site for future Child Care Professionals and for students learning about the development of young children. Students are welcome to complete course assignments, field experiences and internships/student teaching requirements at the CDLL. The laboratory school has a full day program that begins at 6:30 AM and ends at 5:30 PM, Monday–Thursday and 6:30 AM to 4:00 PM, Friday. The program runs from the second week of August until the end of June. The lab school offers infant (6 wks–1 yr), toddler (1–2 yrs), and preschool (3–5 yrs) care. The CDLL provides a developmentally appropriate environment that fosters physical, social, intellectual, emotional, and creative development. Children of faculty, staff and students are welcome. The CDLL is licensed by the Arizona Department of Health Services for up to 68 children and maintains NAEYC accreditation. Children may enroll full

time with a limited number of part-time spaces available in preschool and toddler programs. The CDLL maintains a waiting list, parents must contact the CDLL to be placed on the waiting list at (928) 317-6107.

Call early to be placed on the list, space is limited. Names for the waiting list are also being taken from the Yuma School District One and the Yuma Union High School District employees.

Student Support Services

Student Support Services (Keep Envisioning Your Success) Program is a federally funded TRIO program that is designed to help first-generation, low-income and/or disabled students graduate and transfer from AWC to a four-year institution to obtain a bachelors degree. The Student Support Services (KEYS) staff works closely with students to determine individual areas of need and to develop strategies to meet those needs. Some of the program services provided to eligible students are: academic advising, one-on-one tutoring, mentoring, First Year College Experience (FYCE) program, transfer services, and financial/economic literacy. The Student Support Services (KEYS) program is funded to serve only 240 students each academic year, who meet federal eligibility criteria; have an academic need; and demonstrate the potential to successfully meet program goals and objectives. The Student Support Services (KEYS) Program is located on the second floor of the College Community Center (3C). Call (928) 344-7761 or visit our website at www.azwestern.edu/ss for more information.

Educational Talent Search

Educational Talent Search (ETS) is a federally funded program which assists middle and high school students to be more successful in school by offering academic, career, and financial counseling to its participants and encourages them to graduate from high school and continue on to and complete their postsecondary education. ETS also helps students who have not completed high school or postsecondary school to re-enter school. Guidelines for eligibility are set by federal regulations. Call (928) 317-6036 or visit our website at www.azwestern.edu/talentsearch for more information.

Upward Bound

Upward Bound (UB) is a federally funded program which works intensely with identified high school students during the school year and throughout a six-week summer campus residency program. Students are expected to complete high school and a four-year college program, and must therefore be highly motivated and college bound. Guidelines for eligibility are set by federal regulations.

If you have any questions regarding the Upward bound program, call (928) 317-6036 or visit our website at www.azwestern.edu/upwardbound.

College Assistance Migrant Program (CAMP)

CAMP is a federally funded program for first-year college students from families who are currently employed in or were employed in farm work. CAMP helps students get into college and provides financial and other supportive services that include tutoring, leadership activities, and academic events to help students succeed in college. Guidelines for eligibility are set by federal regulations. For more information, please call (928) 317-7627.

Single Parents/Homemakers Services

This office assists students who qualify for support services while attending college. The services provide limited funds for transportation as well as assistance with referrals and other needs to enhance the students' ability to achieve academic and personal success. Come to Advisement Services in the College Community Center (3C) or call (928) 344-7628 for further information.

ACTIVITIES

Honor Society

Phi Theta Kappa, an International Honor Society, www.ptk.org, recognizes and encourages leadership, scholarship, fellowship, and service among community college students. If you have completed 12 credits of course work towards a degree, and have a cumulative 3.5 grade-point average, you may be eligible for membership. Go to www.azwestern.edu/learning_services/instruction/honors or contact the Honors Director or Honors Student Advocate at (928) 344-7685 for information.

Intercollegiate Athletics

AWC sponsors a broad range of intercollegiate athletic programs and is a member of the Arizona Community College Athletic Conference (ACCAC), the National Junior College Athletic Association (NJCAA), and the Western States Football League. AWC has gained regional and national recognition for its intercollegiate sports programs and provides athletic opportunities for women in basketball, softball, soccer, and volleyball, while sponsoring baseball, basketball, football, and soccer for male students. If you are interested in participating in a particular sport, please contact the appropriate head coach of that sport. For more information regarding the athletic programs at AWC, please contact the Athletic Department at (928) 344-7536.

Campus Life

Participation in leadership opportunities and activities outside of the classroom prove to be equally as important as what happens in the classroom. Most colleges express the mission to develop the whole student, to take a holistic approach to helping the student become a well-rounded, mature individual. Colleges recognize that much of this process happens outside of the classroom.

Following are several ways students can get involved at Arizona Western College.

Student Government Association

The purpose of the Student Government Association (SGA) at Arizona Western College is to be the voice of the student body and to work as a liaison between the student body and the college administration. SGA recognizes the importance of student needs and works to help students resolve issues on campus and in the community. SGA is dedicated to improving student life by providing a variety of activities. Contact SGA at student.government@azwestern.edu

Student Leadership and Activities

Student Leadership and Activities strives to offer all types of social, multicultural, intellectual, and recreational programs for our students to experience. We are committed to students' development outside of the classroom. Our students will learn about their peers and discover skills and ambitions they didn't know they had! Getting involved in Student Activities connects students with each other, helps build healthy relationships, and shapes well-rounded members of the AWC community.

Clubs and Organizations

AWC clubs and organizations represent a wide variety of student aptitudes and interests. There are more than 30 clubs and organizations here on campus that students are encouraged to join. Go to www.azwestern.edu/student_services/campus_life/student_activities/clubs_and_organizations to view a current list. If there isn't a club for you, don't worry. Anyone can start a club!

For more information on any of the above go to www.azwestern.edu/campuslife/studentactivities or contact the Campus Life Office at (928) 344-7576.

Intramural Sports

The Intramural Program is designed to provide the entire campus community with the opportunity to participate in fun and competitive sports. Teams are comprised of students, staff and faculty. Intramural sports provide growth opportunities and educational experiences, which will enrich the life-long learning process. We promote healthy life-style choices through these sports which are recreational, educational, and sporting in nature.

AWC Game Room

The AWC Game Room, located in College Community Center (3C) on the second floor next to Campus Life, offers a friendly, relaxing atmosphere where students can unwind and socialize with friends and others who share similar interests. Special features of the room are: two 42 inch flat screen TVs, 4 billiards tables, a ping pong table, gaming systems, and more. Tournaments and special parties are hosted throughout the year. All games are available for free play to all AWC students. The Game Room is open from 9:00 AM–6:00 PM, Monday–Thursday while school is in session, and is staffed by six AWC students including a student manager.



General Education Philosophy, Curriculum, and Assessment

Arizona General Education
Curriculum (AGEC)

AWC General Education Curriculum

Writing Intensive Course List

AGEC Course Lists

AGEC Checksheets

Student Learning Outcomes
and Assessment

Arizona General Education Curriculum (AGEC)

Effective January, 1999, the Arizona community colleges and universities agreed upon a common structure for a transfer general education curriculum. This curriculum provides students attending any Arizona community college with the opportunity to build a general education curriculum that is transferable upon completion without loss of credit to another Arizona community college or university.

This common agreement is called the Arizona General Education Curriculum. There are three forms of the AGEC:

- **AGEC-A (Arts)** for students majoring in the arts, humanities, or the social and behavioral sciences
- **AGEC-B (Business)** for students majoring in business
- **AGEC-S (Science)** for students majoring in the physical and biological sciences or in the health related professions

Each AGEC is at least a 35 credit lower division general education curriculum block that fulfills the lower division general education requirements at Arizona's three universities. The general education subject areas include English, mathematics, arts and humanities, social and behavioral sciences, physical and biological sciences, and additional courses (the number of credits and specific courses for each subject area are listed in the following, "Arizona General Education Curriculum (AGEC) Course List"). The mathematics requirement differs among the three forms of AGEC; and the AGEC-S additional courses requirement consists of a science and math focus as well as requiring a sequence of science courses in either biology, chemistry, or physics; otherwise, the requirements for the subject areas in the three AGECS are the same.

Because of the university requirement of demonstrating proficiency in a single second language at either the second or fourth semester level, you should consult the university requirements for the university to which you wish to transfer to for specific instructions. To demonstrate proficiency by means other than course work, refer to the General Program Requirements section of the catalog.

Arizona Western College General Education

What is General Education?

Through general education, AWC encourages faculty and students to pursue wholeness in learning by providing a curriculum that focuses intensely on values and meaning, knowledge and understanding, imagination and creativity, reasoning and judgment, consciousness, and existence. General education enables students to see that education integrates and unifies knowledge, and allows them to become aware of ambiguity and appreciative of cultural diversity while encouraging comprehensive literacy, including an understanding of symbol systems that educated people in contemporary society must possess.

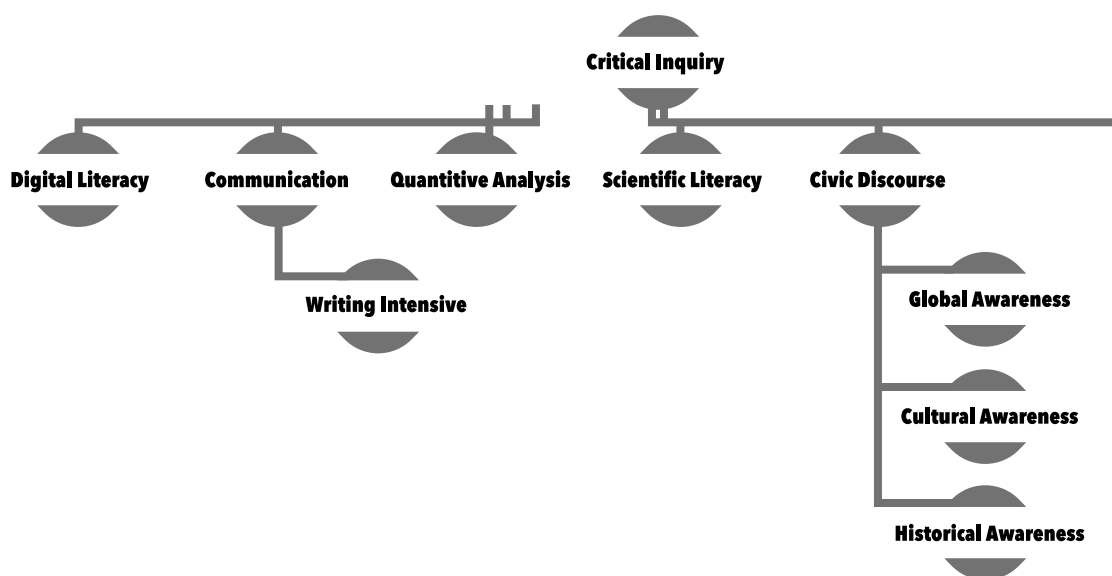
Why General Education?

The accumulation of knowledge, together with independent thinking, can produce comprehensive understanding and reasoned values. Differences in values can be viewed as constructive elements in learning when students attempt to perceive the problem from the perspective of those who disagree. The purpose is to give every student pursuing an undergraduate degree the basic skills and the familiarity with various branches of knowledge which are associated with college and university education and are useful in advanced study within the university and in life beyond the university. The ultimate goal of general education is to enable students to continue to participate with active, discerning commitment in the political, ethical, and aesthetic life of the community.

How do we measure General Education?

General education is designed for all undergraduate students to examine the links between various disciplines and the relationships among areas of knowledge. By completing the general education curricula students will discover the power and limitations of the historical foundations of thinking and understanding. In the general education curricula critical inquiry prepares students to explore and critique their thoughts about these models through comparison with alternative models from other thinkers and cultures.

Critical Inquiry involves the development of sustained and increasingly complex levels of questioning that lead to the gathering, interpretation, and evaluation of evidence within and among disciplinary communities. A responsive general education program requires thoughtful and precise writing, critical reading, quantitative thinking, scientific literacy, digital literacy, civic discourse and the development of the processes of analysis and synthesis which underlie reasoning.



Digital Literacy

Digital literacy is the ability to effectively and critically evaluate, navigate and create information using a range of digital technologies while adhering to the rules and laws governing said information and technologies. Digital literacy is a supplement to, not a replacement of, traditional forms of literacy, building upon the foundation of traditional forms of literacy.

A digitally literate person comprehends and can use technology strategically to find and evaluate information, connect and collaborate with others, produce and share original content, and use the Internet and technology tools to achieve academic, professional, and personal goals.

Student Learning Outcomes

- Determine the extent of information needed.
- Comprehend the basic components of a networked computer system.
- Access the needed information effectively and efficiently.
- Evaluate information and its sources critically.
- Incorporate selected information into one's knowledge base.
- Use information effectively to accomplish a specific purpose.
- Understand the economic, legal, and social issues surrounding the use of information, and access and use information ethically and legally.
- Create content in a digital environment.

Communication

Effective communication is the ability to read critically, articulate questions clearly, identify and evaluate appropriate research, construct and support cogent arguments, and engage in intellectual and artistic expression.

Effective communicators develop proficiency in the skills of writing, reading, speaking, and utilizing electronic media, which provides an intellectual foundation for future academic, professional, and personal lives.

Student Learning Outcomes

- Write effectively and intelligently for a range of purposes and audiences in the English language (e.g., informing, persuading, advancing an argument, expressing, creating, etc.).
- Read a wide range of texts across the curriculum, demonstrating comprehension through written and oral summary and analysis.
- Utilize proper citations, evaluate critically, and use effectively relevant information for problem-solving and presentation of ideas, issues, and arguments.
- Speak effectively to a purpose before an audience.
- Demonstrate effective listening skills.
- Demonstrate skill in using electronic media generally appropriate to contemporary academic and professional workplaces.
- Produce scholarly or creative works that effectively employ the communication conventions and means of the major field.
- Provide writing that presents a clear, specific thesis and awareness of audience.
- Fully develops examples to support thesis in logical, coherent manner demonstrates original thinking, depth of analysis, and comprehension of material used and that shows high proficiency in standard English grammar, spelling, and punctuation.

Writing Intensive

Intensive writing involves the development of communicative competence in written discourse, Intensive writing provides students a unique opportunity to learn disciplinary content while mastering writing skills. Writing Intensive (WI) courses at Arizona Western College integrate writing assignments in ways that help students learn both the subject matter of the courses and discipline-specific ways of thinking and writing. Writing Intensive courses help develop students' identities as good writers by linking their writing proficiency with their desire to know more about the field of study, to engage in questions in the discipline, and to become a participant in academic discourse.

The prerequisite for courses meeting the Writing Intensive component is ENG 101 completion with a C or better. Writing Intensive courses are identified by a WI following the course title. WI courses are capped at a maximum of 20 students. Two writing intensive courses, beyond the ENG 101/102 Composition sequence, are required.

Writing Intensive courses include the following characteristics:

- Demonstrate proficiency in written discourse through the composition of at least 3000 words, or about 12 pages, of writing embedded into the requirements of the GE course through multiple written assignments.
- Writing demonstrates critical inquiry which includes the gathering, interpretation, and evaluation of evidence.
- Engage in a recursive writing process, developing flexible strategies for generating ideas, revising, editing, and proofreading, using instructor and peer feedback on written discourse to guide improvement through revision. At least 33% of the student's grade in the course is based on revised written discourse.
- Develop written discourse in the form appropriate to discipline, which includes overall organization, analysis, grammar, mechanics, punctuation, and style.
- Develop strategies for composing in class and out of class compositions.
- Demonstrate through written discourse a sequence of increasing complexity/skill in knowledge of content as well as discipline specific discourse form.

Quantitative Analysis

Quantitative Analysis is the ability to use mathematical concepts and operations in order to solve problems. Students should be able to apply analytical skills to solve real world and abstract problems. A quantitatively literate individual should be able to perform arithmetic, algebraic and logical operations that involve abstract problems, and demonstrate problem solving skills.

Student Learning Outcomes

- Identify and extract relevant data from given mathematical or contextual situations.
- Select known models or develop appropriate models that organize the data into:
 - tables or spreadsheets (with or without technology)
 - graphical representations (with or without technology)
 - symbolic/equation format
- Obtain correct mathematical results and state those results with appropriate qualifiers and use the results to:
 - determine whether they are realistic in terms of original data/problem
 - determine whether the mathematical model/representation of data is appropriate
 - describe trends in a table, graph, or formula and make predications based on these trends
 - draw qualitative conclusions in written form
 - apply them to real world problems

Scientific Literacy

Scientific Literacy is the ability to describe, explain, predict, and evaluate the quality of scientific information on the basis of its source and the methods used to generate it.

Student Learning Outcomes

- Distinguish between a scientific hypothesis and scientific theory.
- Describe the scientific method as a process.
- Utilize data to communicate and apply an understanding of scientific logic and/or quantitative reasoning.
- Analyze an article in popular literature that pertains to science and interpret the findings in terms of public policy, personal experience, or daily life.

Civic Discourse

Civic Discourse fosters the ability to describe and analyze how historical, cultural, and political issues shape our contemporary perspectives and engage us as individuals and as citizens of a global community. Civic discourse includes both the principles of citizenship and issues of mannerly discourse.

Student Learning Outcomes

- Describe historical, cultural, and political issues relevant in contemporary local, national, and global communities.
- Analyze how such issues affect various local, national, and global regions, communities, and individuals.
- Identify and explicate successful models of civic discourse at the local, national, and global levels.
- Develop strategies beyond the classroom to address local, national, and global issues.

Civic Discourse - Awareness Areas**Global Awareness**

While the modern world is comprised of many geographically and politically independent states and countries, the complexity of our society compels us to acknowledge a significant interdependence among peoples of the world. There is an ever increasing need to balance regional and national goals with global concerns. Indeed our future survival may depend on our ability to generate global solutions to problems. Learning that recognizes the nature of other peoples and the relationship of our cultural system to generic human goals and welfare will help create persons who are able to effectively interact in the global community. Forms of global awareness may be embedded in courses in arts and humanities, social and behavioral science, physical and biological sciences, or additional courses areas of the Arizona General Education Curriculum (AGEC).

- Include contemporary subject matter.
- Include one or more of the following:
 - a. Study that is concerned with an examination of culture-specific elements of a region, country or culture group.
 - I. The area studied must be non-U.S.
 - II. The study contributes to understanding contemporary society.
 - b. Cross-cultural study with an emphasis on one or more foreign areas, including courses on such subjects as comparative religions, politics and international relationships.
 - c. Study of non-U.S. centered cultural interrelationships of global scope, such as the global interdependence produced by problems of world ecology, multinational corporations, migration, and the threat of nuclear war.
 - d. Study of a scientific discipline that includes ecological and environmental interrelationships.

Cultural Awareness

At Arizona Western College, general education courses emphasizing cultural (ethnic, race, and gender) awareness ask students to reassess the relationships between their identities and those of the members of groups outside their own. These courses present sensitive, balanced insights into issues arising from ethnic, race, and gender differences, with the aims of demonstrating the value of cultural pluralism and preparing students to work to resolve existing conflicts. Forms of ethnic/race/gender awareness may be embedded in courses in arts and humanities, social and behavioral sciences, or additional courses areas of the Arizona General Education Curriculum (AGEC).

- Offer views of humanity from a multitude of perspectives.
- Engender an awareness of the universal aspects of humanity.
- Explore causes of prejudice and discrimination.
- Analyze traditional and evolving views of women, race, and ethnicity.
- Foster a cooperative atmosphere in which inclusive cultural relations may be improved.
- Include study of the social, economic, political, and/or psychological dimension of relations between and among ethnic, racial, and gender groups.

Historical Awareness

Historical consciousness is essential for students to understand present as well as future events. Historical forces and traditions have created modern life, and historical perspective is a valuable resource in analyzing contemporary problems. While knowledge of the past is an important source for identifying and understanding our own cultural value system, historical study can also encourage intercultural appreciation by tracing cultural differences to their origins. Opportunities for nurturing historical awareness may be embedded in courses in arts and humanities, social and behavioral sciences, or additional courses areas of the Arizona General Education Curriculum (AGEC).

- Have history as a major focus.
- Examine past human events in a sequential manner.
- Use broad historical views, showing the interconnectedness of events/ideas/creations/themes/theories.
- Analyze sources of information that interpret human developments, ideas and institutions in the sequence or sequences of past events (example: a course that covers not only what happened in the past, but examines the historical influences that explain why this past occurred as it did or why present human developments have occurred).

2014–2015 Writing Intensive (WI) Courses

Two writing intensive (WI) courses are required for transfer degrees. ENG 101 is a prerequisite for all WI courses.

- AJS 123** Ethics and Criminal Justice
- BIO 182** General Biology (Majors) II
- ECE 240** Child Growth and Development
- ECN 240** Principles of Macroeconomics
- ENG 220** Science Fiction
- ENG 231** World Literature to 1600
- ENG 232** World Literature 1600 to Present
- ENG 241** English Literature to 1800
- ENG 242** English Literature 1800 to Present
- ENG 245** Contemporary Multicultural Literature
- ENG 251** American Literature to 1860
- ENG 252** American Literature 1860 to Present
- ENG 281** Intro to Film Studies
- FAS 204** Gender Relations
- FAS 238** Human Development
- HIS 110** World History to 1500
- HIS 111** World History Since 1500
- HIS 230** Women in American History
- PHI 105** Intro to Ethics
- POS 110** American Politics
- POS 120** World Politics
- POS 130** State and Local Politics
- POS 140** Introduction to Comparative Politics
- PSY 238** Human Development
- PSY 290** Introduction to Research Methods
in the Social Sciences
- REL 201** Comparative World Religions

2014–2015 Arizona General Education Certificate (AGEC) Courses (A.A., A.Bus, A.S.)

FRESHMAN COMPOSITION

ENG 101 Freshman Composition
ENG 102 Freshman Composition

MATHEMATICS

MAT 142 College Mathematics
with Applications
MAT 212 Brief Calculus
MAT 220 Calculus I with Analytic Geometry

ARTS

ARH 141 Survey of World Art 1
ARH 142 Survey of World Art 2
ENG 281 Intro to Film Studies
MUS 120 Music Appreciation
THE 101 Survey of Theatre
THE 102 History of Contemporary Theatre

HUMANITIES

AJS 123 Ethics and Criminal Justice
ENG 170 Intro to the Literature of the Bible
ENG 180 Literature of the American West
ENG 185 Myths and Other
Traditional Narratives
ENG 186 Folklore
ENG 190 Intro to Literature
ENG 220 Science Fiction
ENG 231 World Literature to 1600
ENG 232 World Literature 1600 to Present
ENG 241 English Literature to 1800
ENG 242 English Literature 1800 to Present
ENG 245 Contemporary Multicultural
Literature
ENG 251 American Literature to 1860
ENG 252 American Literature 1860
to Present
PHI 101 Intro to Philosophy
PHI 103 Intro to Logic
PHI 105 Intro to Ethics
PHI 220 Medical Ethics
PHI/REL 233 Philosophy of Religion
PHI 240 Ancient Philosophy
PHI/POS 257 Social and Political Philosophy
REL 201 Comparative World Religions
SPA 260 Mexican-American Literature
SPA 261 Intro to Spanish Literature
SPA 263 Intro to Hispanic Film and Culture
SPA 265 Survey of Spanish and
Spanish-American Literature

SOCIAL & BEHAVIORAL SCIENCES

ANT 100 Intro to Anthropology
ANT 120 Intro to Archaeology and Prehistory
ANT 130 Intro to Cultural Anthropology
ANT 140 Intro to Native American Studies
ECE 240 Child Growth and Development
ECN 240 Principles of Macroeconomics
ECN 250 Principles of Microeconomics
FAS/SOC 160 Close Relationships
FAS 204 Gender Relations
FAS 220 The Family
FAS/PSY 238 Human Development
GEO 105 World Regional Geography
HIS 110 World History to 1500
HIS 111 World History Since 1500
HIS 121 History of the US to 1865
HIS 122 History of the US from 1865
HIS 220 History of Arizona
HIS 230 Women in American History
HIS 240 Western Civilization 1
HIS 241 Western Civilization 2
HIS 280 History of Mexico
JRN 100 Intro to Mass Communication
POS 100 Intro to Politics
POS 110 American Politics
POS 120 World Politics
POS 130 State and Local Politics
POS 140 Intro to Comparative Politics
PSY 101 Intro to Psychology
PSY 290 Introduction to Research Methods
in the Social Sciences
SOC 101 Intro to Sociology
SOC/PSY 170 Human Sexuality
SOC 230 Social Problems
SOC 240 Racial and Ethnic Relations

PHYSICAL & BIOLOGICAL SCIENCES

AST 100 Astronomy
AST 130 The Planets
BIO 100 Biology Concepts
BIO 108 Plants and People
BIO 109 Natural History of the Southwest
BIO 145 Marine Biology
BIO 160 Intro to Anatomy and Physiology
BIO 181 General Biology (Majors) I
BIO 182 General Biology (Majors) II
BIO 205 Microbiology
CHM 130 Fundamental Chemistry

CHM 151 General Chemistry I
CHM 152 General Chemistry II
ENV 101 Environmental Science
GLG 101 Intro to Geology 1 (Physical)
GLG 102 Intro to Geology 2 (Historical)
GLG 110 Environmental Geology
GPH 110 Physical Geography
GPH 171 Intro to Meteorology
GPH 213 Intro to Climate Science
MAT 230 Calculus II with Analytic Geometry
MAT 241 Calculus III with Analytic Geometry
MAT 262 Intro to Ordinary
Differential Equations
OCN 110 Oceanography
PHY 111 College Physics I
PHY 112 College Physics II
PHY 121 Mechanics
PHY 131 Electricity and Magnetism
PLS 100 Plant Science

ADDITIONAL COURSES

ASL 101 American Sign Language 1
ASL 102 American Sign Language 2
ASL 201 Interm American Sign Language 1
ASL 202 Interm American Sign Language 2
CIS 105 Intro to Business Info Systems
CIS 120 Intro to Computer Info Systems
CIS 154 Intro to E-Commerce/E-Business
FRE 101 Elementary French 1
FRE 102 Elementary French 2
FRE 201 Intermediate French 1
FRE 202 Intermediate French 2
GER 101 Elementary German 1
GER 102 Elementary German 2
GER 201 Intermediate German 1
GER 202 Intermediate German 2
MAT 119 Mathematics Across Cultures
SPA 101 Elementary Spanish 1
SPA 102 Elementary Spanish 2
SPA 201 Intermediate Spanish 1 or
SPA 203 Intermediate Spanish
for Native Speakers 1
SPA 202 Intermediate Spanish 1 or
SPA 204 Intermediate Spanish
for Native Speakers 2
SPA 251 Intermediate Spanish Grammar
and Composition
SPC 110 Intro to Speech Communications
SPC 215 Public Speaking
SPC 271 Group Communication

2014–2015 Arizona General Education Associate in Applied Science (A.A.S.) Courses

FRESHMAN COMPOSITION

- ENG 100 Intro to Composition
- ENG 101 Freshman Composition
- ENG 102 Freshman Composition

MATHEMATICS

- MAT 105 Mathematics for the Applied Sciences

ARTS

- ARH 141 Survey of World Art 1
- ARH 142 Survey of World Art 2
- ENG 281 Intro to Film Studies
- MUS 120 Music Appreciation
- THE 101 Survey of Theatre
- THE 102 History of Contemporary Theatre

HUMANITIES

- AJS 123 Ethics and Criminal Justice
- ENG 170 Intro to the Literature of the Bible
- ENG 180 Literature of the American West
- ENG 185 Myths and Other Traditional Narratives
- ENG 186 Folklore
- ENG 190 Intro to Literature
- ENG 220 Science Fiction
- ENG 231 World Literature to 1600
- ENG 232 World Literature 1600 to Present
- ENG 241 English Literature to 1800
- ENG 242 English Literature 1800 to Present
- ENG 245 Contemporary Multicultural Literature
- ENG 251 American Literature to 1860
- ENG 252 American Literature 1860 to Present
- PHI 101 Intro to Philosophy
- PHI 103 Intro to Logic
- PHI 105 Intro to Ethics
- PHI 220 Medical Ethics
- PHI/REL 233 Philosophy of Religion
- PHI 240 Ancient Philosophy
- PHI/POS 257/Social and Political Philosophy
- REL 201 Comparative World Religions
- SPA 260 Mexican-American Literature
- SPA 261 Intro to Spanish Literature
- SPA 263 Intro to Hispanic Film and Culture
- SPA 265 Survey of Spanish and Spanish-American Literature

SOCIAL AND BEHAVIORAL SCIENCES

- ANT 100 Intro to Anthropology
- ANT 120 Intro to Archaeology and Prehistory
- ANT 130 Intro to Cultural Anthropology
- ANT 140 Intro to Native American Studies
- ECE 240 Child Growth and Development
- ECN 100 Intro to Economics
- ECN 240 Principles of Macroeconomics
- ECN 250 Principles of Microeconomics
- FAS/SOC 160 Close Relationships
- FAS 204 Gender Relations
- FAS 220 The Family
- FAS/PSY238 Human Development
- GEO 105 World Regional Geography
- HIS 110 World History to 1500
- HIS 111 World History Since 1500
- HIS 121 History of the US to 1865
- HIS 122 History of the US from 1865
- HIS 220 History of Arizona
- HIS 230 Women in American History
- HIS 240 Western Civilization 1
- HIS 241 Western Civilization 2
- HIS 280 History of Mexico
- JRN 100 Intro to Mass Communication
- POS 100 Intro to Politics
- POS 110 American Politics
- POS 120 World Politics
- POS 140 Intro to Comparative Politics
- PSY 101 Intro to Psychology
- PSY 290 Introduction to Research Methods in the Social Sciences
- SOC 101 Intro to Sociology
- SOC/PSY 170 Human Sexuality
- SOC 230 Social Problems
- SOC 240 Racial and Ethnic Relations

PHYSICAL & BIOLOGICAL SCIENCES

- AST 100 Astronomy
- AST 130 The Planets
- BIO 100 Biology Concepts
- BIO 108 Plants and People
- BIO 109 Natural History of the Southwest
- BIO 145 Marine Biology
- BIO 160 Intro to Anatomy and Physiology
- BIO 181 General Biology (Majors) I
- BIO 182 General Biology (Majors) II
- BIO 205 Microbiology
- CHM 130 Fundamental Chemistry

- CHM 151 General Chemistry I
- CHM 152 General Chemistry II
- ENV 101 Environmental Science
- GLG 101 Intro to Geology 1 (Physical)
- GLG 102 Intro to Geology 2 (Historical)
- GLG 110 Environmental Geology
- GPH 110 Physical Geography
- GPH 171 Intro to Meteorology
- GPH 213 Intro to Climate Science
- OCN 110 Oceanography
- PHY 111 College Physics I
- PHY 112 College Physics II
- PHY 121 Mechanics
- PHY 131 Electricity and Magnetism
- PLS 100 Plant Science

ADDITIONAL COURSES

- ASL 101 American Sign Language 1
- ASL 102 American Sign Language 2
- ASL 201 Intermediate American Sign Language 1
- ASL 202 Intermediate American Sign Language 2
- CIS 105 Intro to Business Info Systems
- CIS 120 Intro to Computer Info Systems
- CIS 154 Intro to E-Commerce/E-Business
- FRE 101 Elementary French 1
- FRE 102 Elementary French 2
- FRE 201 Intermediate French 1
- FRE 202 Intermediate French 2
- GER 101 Elementary German 1
- GER 102 Elementary German 2
- GER 201 Intermediate German 1
- GER 202 Intermediate German 2
- MAT 119 Mathematics Across Cultures
- SPA 101 Elementary Spanish 1
- SPA 102 Elementary Spanish 2
- SPA 201 Intermediate Spanish 1 or
- SPA 203 Intermediate Spanish for Native Speakers 1
- SPA 202 Intermediate Spanish 1 or
- SPA 204 Intermediate Spanish for Native Speakers 2
- SPA 251 Intermediate Spanish Grammar and Composition
- SPC 110 Intro to Speech Communications
- SPC 215 Public Speaking
- SPC 271 Group Communication
- PER 100 to 187 Physical Education and Recreation courses

A Freshman Composition ENG 101 ENG 102 **6**

B Mathematics (select one course from the following courses) MAT 142, 151, 187, 212, 220, 230, 241, 252, 262, 270 **3**

C Arts & Humanities (SELECT AT LEAST ONE COURSE FROM THE ARTS LIST) **6**

ARH 141, 142 (H) ENG 281 (H, WI) MUS 120 (H) THE 101 (H) THE 102 (H)

AND (SELECT AT LEAST ONE COURSE FROM THE HUMANITIES LIST)

AJS 123 (H, WI) ENG 170 (H) ENG 180 (H) ENG 185 (C) ENG 186 (C) ENG 190 (C)
 ENG 220 (H, WI) ENG 231, 232 (C, WI) ENG 241, 242 (H, WI) ENG 245 (C, WI) ENG 251, 252 (H, WI) PHI 101 (H)
 PHI 103 (G) PHI 105 (H, WI) PHI 210 (H) PHI 220 (C) PHI/REL 233 (H) PHI 240 (H)
 PHI/POS 257 (G) REL 201 (G, WI) SPA 260 (C) SPA 261 (C) SPA 263 (C) SPA 265 (C)

D Social & Behavioral Sciences **6**

ANT 100 (G) ANT 120 (G) ANT 130 (G) ANT 140 (C) ECE 240 (C, WI) ECN 240 (G, WI)
 ECN 250 (G) FAS/SOC 160 (C) FAS 204 (C, WI) FAS 220 (C) FAS/PSY 238 (C, WI) GEO 105 (G)
 HIS 110 (H, WI), 111 (H, WI) HIS 121, 122 (H) HIS 220 (C) HIS 230 (H, WI) HIS 240, 241 (H) HIS 280 (C)
 JRN 100 (H) POS 100 (G) POS 110 (H, WI) POS 120 (G, WI) POS 130 (H, WI) POS 140 (C, WI)
 PSY 101 (C) PSY 290 (G, WI) SOC 101 (C) SOC/PSY 170 (C) SOC 230 (C) SOC 240 (C)

E Physical & Biological Sciences **8**

AST 100 (G) AST 130 (G) BIO 100 (G) BIO 108 (G) BIO 109 (G) BIO 145 (G)
 BIO 160 A & P (G) BIO 181 (G), 182 (G, WI) BIO 205 (G) CHM 130 (G) CHM 151, 152 (G) ENV 101 (G)
 GLG 101 (G) GLG 102 (G) GLG 110 (G) GPH 110 (G) GPH 171 (G) GPH 213 (G)
 OCN 110 (G) PHY 111, 112 (G) PHY 121, 131 (G) PLS 100 (G)

F Additional Courses (SELECT COURSES ACCORDING TO MAJOR AND LANGUAGE PROFICIENCY REQUIREMENT) **6**

- From Arts & Humanities (section C) above
- From Social & Behavioral (section D) above

ASL 101 (C) ASL 102 (C) ASL 201 (C) ASL 202 (C) CIS 105 (H) CIS 120 (H)
 CIS 154 (G) FRE 101 (C) FRE 102 (C) FRE 201 (C) FRE 202 (C) GER 101 (C)
 GER 102 (C) GER 201 (C) GER 202 (C) MAT 119 (C) SPA 101 (C) SPA 102 (C)
 SPA 201 or 203 (C) SPA 202 or 204 (C) SPA 251 (C) SPC 110 (G) SPC 215 (G) SPC 271 (G)

All AWC General Education (GE) courses are CRITICAL INQUIRY (CI).

AWARENESS AREAS—one cultural (C) course and one global (G) or historical (H) course are required.

WRITING INTENSIVE (WI)—two WI courses are required. ENG 101 is a prerequisite for all WI courses.

TOTAL REQUIRED AGECA CREDITS— **35**

AWC 2014–2015 Arizona General Education Curriculum-Business (AGEC-B) Checksheet

Credits

A Freshman Composition ENG 101 ENG 102 **6**

B Mathematics (select one course from the following courses) MAT 212, 220, 230, 241, 252, 262 **3**

C Arts & Humanities (SELECT AT LEAST ONE COURSE FROM THE ARTS LIST) **6**

- ARH 141, 142 (H) ENG 281 (H, WI) MUS 120 (H) THE 101 (H) THE 102 (H)
- AND (SELECT AT LEAST ONE COURSE FROM THE HUMANITIES LIST)
- AJS 123 (H, WI) ENG 170 (H) ENG 180 (H) ENG 185 (C) ENG 186 (C) ENG 190 (C)
- ENG 220 (H, WI) ENG 231, 232 (C, WI) ENG 241, 242 (H, WI) ENG 245 (C, WI) ENG 251, 252 (H, WI) PHI 101 (H)
- PHI 103 (G) PHI 105 (H, WI) PHI 210 (H) PHI 220 (C) PHI/REL 233 (H) PHI 240 (H)
- PHI/POS 257(G) REL 201 (G, WI) SPA 260 (C) SPA 261 (C) SPA 263 (C) SPA 265 (C)

D Social & Behavioral Sciences **6**

- ANT 100 (G) ANT 120 (G) ANT 130 (G) ANT 140 (C) ECE 240 (C, WI) ECN 240 (G, WI)
- ECN 250 (G) FAS/SOC 160 (C) FAS 204 (C, WI) FAS 220 (C) FAS/PSY 238 (C, WI) GEO 105 (G)
- HIS 110 (H, WI), 111 (H, WI) HIS 121, 122 (H) HIS 220 (C) HIS 230 (H, WI) HIS 240, 241 (H) HIS 280 (C)
- JRN 100 (H) POS 100 (G) POS 110 (H, WI) POS 120 (G, WI) POS 130 (H, WI) POS 140 (C, WI)
- PSY 101 (C) PSY 290 (G, WI) SOC 101 (C) SOC/PSY 170 (C) SOC 230 (C) SOC 240 (C)

E Physical & Biological Sciences **8**

- AST 100 (G) AST 130 (G) BIO 100 (G) BIO 108 (G) BIO 109 (G) BIO 145 (G)
- BIO 160 A & P (G) BIO 181 (G), 182 (G, WI) BIO 205 (G) CHM 130 (G) CHM 151, 152 (G) ENV 101 (G)
- GLG 101 (G) GLG 102 (G) GLG 110 (G) GPH 110 (G) GPH171 (G) GPH 213 (G)
- OCN 110 (G) PHY 111, 112 (G) PHY 121, 131 (G) PLS 100 (G)

F Computer Information Systems **3**

- CIS 105 (H) CIS 120 (H)

G Additional (SELECT COURSES ACCORDING TO MAJOR AND LANGUAGE PROFICIENCY REQUIREMENT) **3**

- From Arts & Humanities (section C) above
- From Social & Behavioral (section D) above

- ASL 101 (C) ASL 102 (C) ASL 201 (C) ASL 202 (C) CIS 105 (H) CIS 120 (H)
- CIS 154 (G) FRE 101 (C) FRE 102 (C) FRE 201 (C) FRE 202 (C) GER 101 (C)
- GER 102 (C) GER 201 (C) GER 202 (C) MAT 119 (C) SPA 101 (C) SPA 102 (C)
- SPA 201 or 203 (C) SPA 202 or 204 (C) SPA 251 (C) SPC 110 (G) SPC 215 (G) SPC 271 (G)

All AWC General Education (GE) courses are CRITICAL INQUIRY (CI).

AWARENESS AREAS—one cultural (C) course and one global (G) or historical (H) course are required.

WRITING INTENSIVE (WI)—two WI courses are required. ENG 101 is a prerequisite for all WI courses.

TOTAL REQUIRED AGECE-B CREDITS— **35**

A Freshman Composition ENG 101 ENG 102 **6**

B Mathematics (select one course from the following courses) MAT 220, 230, 241, 252, 262 **5**

C Arts & Humanities (SELECT AT LEAST ONE COURSE FROM THE ARTS LIST) **6**

- ARH 141, 142 (H) ENG 281 (H, WI) MUS 120 (H) THE 101 (H) THE 102 (H)
- AND (SELECT AT LEAST ONE COURSE FROM THE HUMANITIES LIST)
- AJS 123 (H, WI) ENG 170 (H) ENG 180 (H) ENG 185 (C) ENG 186 (C) ENG 190 (C)
- ENG 220 (H, WI) ENG 231, 232 (C, WI) ENG 241, 242 (H, WI) ENG 245 (C, WI) ENG 251, 252 (H, WI) PHI 101 (H)
- PHI 103 (G) PHI 105 (H, WI) PHI 210 (H) PHI 220 (C) PHI/REL 233 (H) PHI 240 (H)
- PHI/POS 257 (G) REL 201 (G, WI) SPA 260 (C) SPA 261 (C) SPA 263 (C) SPA 265 (C)

D Social & Behavioral Sciences **6**

- ANT 100 (G) ANT 120 (G) ANT 130 (G) ANT 140 (C) ECE 240 (C, WI) ECN 240 (G, WI)
- ECN 250 (G) FAS/SOC 160 (C) FAS 204 (C, WI) FAS 220 (C) FAS/PSY 238 (C, WI) GEO 105 (G)
- HIS 110 (H, WI), 111 (H, WI) HIS 121, 122 (H) HIS 220 (C) HIS 230 (H, WI) HIS 240, 241 (H) HIS 280 (C)
- JRN 100 (H) POS 100 (G) POS 110 (H, WI) POS 120 (G, WI) POS 130 (H, WI) POS 140 (C, WI)
- PSY 101 (C) PSY 290 (G, WI) SOC 101 (C) SOC/PSY 170 (C) SOC 230 (C) SOC 240 (C)

E Physical & Biological Sciences (SELECT ONE SEQUENCE) **8**

- BIO 181, 182 (G) CHM 151, 152 (G) PHY 121, 131 (G)

F Additional Courses (SELECT COURSES ACCORDING TO MAJOR) **6–8**

- AST 100 (G) AST 130 (G) BIO 109 (G) BIO 145 (G) BIO 160 A & P (G) BIO 181 (G), 182 (G, WI)
- BIO 205 (G) CHM 151, 152 (G) ENV 101 (G) GLG 101 (G) GLG 102 (G) GLG 110 (G)
- GPH 110 (G) GPH 171 (G) GPH 213 (G) MAT 230 MAT 241 MAT 262
- OCN 110 (G) PHY 121, 131 (G) PLS 100 (G)

All AWC General Education (GE) courses are CRITICAL INQUIRY (CI).

AWARENESS AREAS—one cultural (C) course and one global (G) or historical (H) course are required.

WRITING INTENSIVE (WI)—two WI courses are required. ENG 101 is a prerequisite for all WI courses.

TOTAL REQUIRED AGECS CREDITS— **37–39**

AWC 2014-2015 Associate in Applied Science (A.A.S.) General Education Checksheet

Credits

A	Freshman Composition <input type="checkbox"/> ENG 100 <input type="checkbox"/> ENG 101 <input type="checkbox"/> ENG 102		6
B	Mathematics (select one course from the following courses) <input type="checkbox"/> MAT 105, 121, 142, 151, 187, 212, 220, 230, 241, 252, 262, 270		3
C	Arts & Humanities		3
	<input type="checkbox"/> AJS 123 (H, WI) <input type="checkbox"/> ARH 141, 142 (H) <input type="checkbox"/> ENG 170 (H) <input type="checkbox"/> ENG 180 (H) <input type="checkbox"/> ENG 185 (C) <input type="checkbox"/> ENG 186 (C) <input type="checkbox"/> ENG 190 (C) <input type="checkbox"/> ENG 220 (H, WI) <input type="checkbox"/> ENG 231, 232 (C, WI) <input type="checkbox"/> ENG 241, 242 (H, WI) <input type="checkbox"/> ENG 245 (C, WI) <input type="checkbox"/> ENG 251, 252 (H, WI) <input type="checkbox"/> ENG 281 (H, WI) <input type="checkbox"/> MUS 120 (H) <input type="checkbox"/> PHI 101 (H) <input type="checkbox"/> PHI 103 (G) <input type="checkbox"/> PHI 105 (H, WI) <input type="checkbox"/> PHI 210 (H) <input type="checkbox"/> PHI 220 (C) <input type="checkbox"/> PHI/REL 233 (H) <input type="checkbox"/> PHI 240 (H) <input type="checkbox"/> PHI/POS 257(G) <input type="checkbox"/> REL 201 (G, WI) <input type="checkbox"/> SPA 260 (C) <input type="checkbox"/> SPA 261 (C) <input type="checkbox"/> SPA 263 (C) <input type="checkbox"/> SPA 265 (C) <input type="checkbox"/> THE 101 (H) <input type="checkbox"/> THE 102 (H)		
D	Social & Behavioral Sciences		3
	<input type="checkbox"/> ANT 100 (G) <input type="checkbox"/> ANT 120 (G) <input type="checkbox"/> ANT 130 (G) <input type="checkbox"/> ANT 140 (C) <input type="checkbox"/> ECE 240 (C, WI) <input type="checkbox"/> ECN 100 (G) <input type="checkbox"/> ECN 240 (G, WI) <input type="checkbox"/> ECN 250 (G) <input type="checkbox"/> FAS/SOC 160 (C) <input type="checkbox"/> FAS 204 (C, WI) <input type="checkbox"/> FAS 220 (C) <input type="checkbox"/> FAS/PSY 238 (C, WI) <input type="checkbox"/> GEO 105 (G) <input type="checkbox"/> HIS 110 (H, WI), 111 (H, WI) <input type="checkbox"/> HIS 121, 122 (H) <input type="checkbox"/> HIS 220 (C) <input type="checkbox"/> HIS 230 (H, WI) <input type="checkbox"/> HIS 240, 241 (H) <input type="checkbox"/> HIS 280 (C) <input type="checkbox"/> JRN 100 (H) <input type="checkbox"/> POS 100 (G) <input type="checkbox"/> POS 110 (H, WI) <input type="checkbox"/> POS 120 (G, WI) <input type="checkbox"/> POS 130 (H, WI) <input type="checkbox"/> POS 140 (C, WI) <input type="checkbox"/> PSY 101 (C) <input type="checkbox"/> PSY 290 (G, WI) <input type="checkbox"/> SOC 101 (C) <input type="checkbox"/> SOC/PSY 170 (C) <input type="checkbox"/> SOC 230 (C) <input type="checkbox"/> SOC 240 (C)		
E	Physical & Biological Sciences		4
	<input type="checkbox"/> AST 100 (G) <input type="checkbox"/> AST 130 (G) <input type="checkbox"/> BIO 100 (G) <input type="checkbox"/> BIO 108 (G) <input type="checkbox"/> BIO 109 (G) <input type="checkbox"/> BIO 145 (G) <input type="checkbox"/> BIO 160 A & P (G) <input type="checkbox"/> BIO 181 (G), 182 (G, WI) <input type="checkbox"/> BIO 205 (G) <input type="checkbox"/> CHM 130 (G) <input type="checkbox"/> CHM 151, 152 (G) <input type="checkbox"/> ENV 101 (G) <input type="checkbox"/> GLG 101 (G) <input type="checkbox"/> GLG 102 (G) <input type="checkbox"/> GLG 110 (G) <input type="checkbox"/> GPH 110 (G) <input type="checkbox"/> GPH 171 (G) <input type="checkbox"/> GPH 213 (G) <input type="checkbox"/> OCN 110 (G) <input type="checkbox"/> PHY 111, 112 (G) <input type="checkbox"/> PHY 121, 131 (G) <input type="checkbox"/> PLS 100 (G)		
F	Additional Courses (SELECT COURSE ACCORDING TO MAJOR)		2
	<input type="checkbox"/> sections B, C, D, or E (above)		
	<input type="checkbox"/> ASL 101 (C) <input type="checkbox"/> ASL 102 (C) <input type="checkbox"/> ASL 201 (C) <input type="checkbox"/> ASL 202 (C) <input type="checkbox"/> CIS 105 (H) <input type="checkbox"/> CIS 120 (H) <input type="checkbox"/> CIS 154 (G) <input type="checkbox"/> FRE 101 (C) <input type="checkbox"/> FRE 102 (C) <input type="checkbox"/> FRE 201 (C) <input type="checkbox"/> FRE 202 (C) <input type="checkbox"/> GER 101 (C) <input type="checkbox"/> GER 102 (C) <input type="checkbox"/> GER 201 (C) <input type="checkbox"/> GER 202 (C) <input type="checkbox"/> MAT 119 (C) <input type="checkbox"/> PER 100 to 187 <input type="checkbox"/> SPA 101 (C) <input type="checkbox"/> SPA 102 (C) <input type="checkbox"/> SPA 201 or 203 (C) <input type="checkbox"/> SPA 202 or 204 (C) <input type="checkbox"/> SPA 251 (C) <input type="checkbox"/> SPC 110 (G) <input type="checkbox"/> SPC 215 (G) <input type="checkbox"/> SPC 271 (G)		

TOTAL REQUIRED A.A.S. CREDITS— **21**

Learning is a dynamic, engaging and continuous process.

It involves:

- Making learning expectations explicit and public.
- Setting appropriate criteria and rigorous standards for learning quality.
- Systematically gathering, analyzing, and interpreting evidence to determine how well performance matches expectations and standards.
- Using the resulting information to understand, document, explain, and improve performance.

Throughout each course and degree program, assessment of student learning outcomes takes place in a variety of forms including homework assignments, examinations, written papers, project work, oral presentations, design portfolios, and more. Beyond course-related assessments, students may be asked to provide feedback on their learning experiences via a variety of materials including: satisfaction surveys, learning self-reflection papers, participation in focus groups and exit interviews

Results of the various approaches to assessment of student learning outcomes help guide the faculty in analyzing instructional practices, curricular course work sequences, alignment of course and program objectives, and efficacy of the curriculum in meeting the mission of the degree program. Student learning outcomes assessment helps foster a shared academic culture dedicated to assuring and improving the quality of the higher education experience offered at AWC.

Academic Programs

[Types of Programs](#)

[General Program Requirements](#)

[Institutional Partnerships](#)

[2014–2015 Programs](#)

TYPES OF PROGRAMS

Arizona Western College offers the following five types of programs:

- Transfer Degrees:
 - Associate in Arts (A.A.)
 - Associate in Business (A.Bus.)
 - Associate in Science (A.S.)
- Occupational Degrees:
 - Associate in Applied Science (A.A.S.)
- General Studies Degree:
 - Associate in General Studies (A.G.S.)
- Occupational Certificates
- Arizona General Education Curriculum (AGEC) Certificates

Transfer Degrees

Those students wishing to begin their studies at AWC with the intention of transferring to a state university are encouraged to complete one of the transfer degree programs. There are three advantages to completing a transfer degree before moving on to a university:

- the lower division general education requirements will be fulfilled,
- students can get an early start on their major by completing some or many of the lower division major courses during their first two years, and
- by graduating with an associate's degree, students will have completed 64 credits towards the usual 120 credits required for a bachelor's degree, thus placing them in junior status and just over halfway through the required number of credits.

Because of these obvious advantages, those transfer students who begin at AWC are strongly encouraged to stay here two years and complete a transfer degree program.

The Associate in Arts (A.A.) degree is designed for students majoring in the arts, humanities, or the social and behavioral sciences and who plan to transfer to a college or university to earn a bachelor's degree. The A.A. is also offered for those students as yet undecided about their university major.

The Associate in Business (A.Bus.) degree is designed for students majoring in business and who plan to transfer to a college or university to earn a bachelor's degree.

The Associate in Science (A.S.) degree is designed for students majoring in the physical or biological sciences or in the health-related professions and who plan to transfer to a college or university to earn a bachelor's degree. The A.S. degree is also offered for those students as yet undecided about their university major, but who know they would like to pursue some career in science.

Occupational Degrees

Associate in Applied Science (A.A.S.) programs provide training in theory and skills that prepare students for immediate employment in business and industry. The programs are also used to upgrade skills and retrain currently employed adults. Students who enroll in such programs generally do not plan to transfer to a four-year college or university however the opportunity exists through the increased availability of Bachelor of Applied Science (B.A.S.) degrees offered at colleges and universities.

Associate in General Studies Degree

The Associate in General Studies (A.G.S.) is designed for students who wish to pursue two different academic concentrations or whose academic backgrounds may include course work taken at other institutions or credits earned, for example, through military experience.

This is not a transfer degree, according to the articulation agreements between the Arizona community colleges and universities. Students who wish to use this degree for transfer to out-of-state colleges and universities should consult the catalog of the institution to which they wish to transfer for specific general education and other course requirements.

Students who have such educational goals should consult with an Academic Advisor to determine if the A.G.S. degree is appropriate for them, and to determine how to best select courses which will meet their objectives.

Occupational Certificates

A number of students enrolled in college course work do not wish to pursue a two-year associate degree but wish to concentrate on acquiring skills which lead to immediate employment. For this reason, AWC has designed certificate programs that upon completion prepare students to become employable in specific occupations. The number of credits required in certificate programs varies depending upon the program.

Arizona General Education Curriculum (AGEC) Certificates

AGEC certificates are designed for those transfer students who can only spend one full-time year at AWC before they move on to the university. By completing an AGEC and having the AGEC annotated on their transcript, students have automatically completed the lower division general education, also known as “liberal studies,” requirement at the three Arizona universities. AWC offers three AGEC certificates: AGEC-A (Arts), AGEC-B (Business), and AGEC-S (Science).

GENERAL PROGRAM REQUIREMENTS

Policies Applicable to All Degrees

- **Course Work Level** All course work to be included in any of the AWC degrees (A.A., A.Bus., A.S., A.G.S., and A.A.S.) must be numbered 100 and higher.
- **Dual Application of Courses** is the sharing of course-work between the AGEC and major or program requirements which allows the student to meet both requirements with a single course. Students must still meet the required number of credits to satisfy the program or degree. This dual application of courses gives students the opportunity to include additional course work under general electives.
- **Minimum Grade** A minimum of a "C" grade and a minimum 2.0 GPA is required for all courses in a certificate or degree program.
- **"P" Grade** On an exception basis, "P" grades may be allowed in the AGEC for credit transferred if documentation collected by the community college indicates that the "P" grade issued was the only option for the student and the "P" grade is a "C" or better. The "P" grade exception does not apply to credits awarded by AGEC granting/receiving institutions.
- **Residency** Completion of a minimum of 15 credits in residence at AWC. Residence credit is given for any course offered through AWC on or off the main campus.
- **Time Limit** Courses more than eight years old apply to degree requirements at the discretion of the College. In areas where information changes rapidly, departments may accept, reject, or request revalidation of earlier courses.
- A maximum of 30 non-traditional credits can be awarded and applied towards a degree. Exceptions can be made at the discretion of the department/program. A minimum of six credits in Freshman Composition and the required major courses must be completed under Grading System I (refer to the Academic Policies and Regulations section for grading systems) except upon approval of the Dean of Instruction or designee. Courses taken for the Arizona General Education Curriculum (AGEC) must be completed under Grading System I except upon approval of the Dean of Instruction or designee.

In some cases, accreditation agencies may set a term shorter than eight years. Individual departments may also set a shorter term in fields where information changes

quickly, or when completing earlier requirements is no longer possible or educationally sound. There is no time limit for general education courses.

Transfer Degree (A.A., A.Bus., A.S.) Requirements

- All transfer degrees contain an Arizona General Education Curriculum (AGEC) block of at least 35 credits; all AGEC courses, for the purposes of transfer and annotation on the transcript, must have an A, B, or C grade and a minimum 2.0 GPA.
- All courses (AGEC, major, and elective) to be included in these degrees must have A, B, or C grades and a minimum 2.0 GPA whether students transfer or not. The universities only take a maximum of 64 credits of community college course work towards transfer into a baccalaureate program.
- When applicable, military credits may be used for credit as equivalent courses in the major or as general electives up to the maximum number of credits prescribed by the specific program requirements.
- Some major required courses or departmental requirements may not be accepted for transfer credit by all universities.
- How courses transfer is contained in the Course Equivalency Guide (CEG) website. Go to www.aztransfer.com
- Pathway and Language Proficiency Requirement. "Pathway" is a term used in community college/university articulation agreements which refers to the transfer degrees (A.A., A.Bus., A.S.) and the kinds of requirements (either special requirements "SR" or general requirements "GR") contained in them which lead towards the successful completion of a bachelor's degree, thus there are AA/GR, AA/SR, ABUS/GR, ABUS/SR, AS/GR, AS/SR pathways. Special requirements mean that the major is such that certain course work must be taken in the first two years of study as preparatory to the university course work. General requirements mean that the major is less specific and that all requirements can be met in the 56 credits required at the university after the 64 earned at a community college. The last pathway is TG/XR which means "Transfer Guide/Exceptional Requirements." This pathway is for majors which are especially sequenced from the first semester of study through the completion of the bachelor's degree which may require more credits than the usual 120.

In general, when students take the courses listed in their transfer degree, they are following a pathway which prepares them for a particular university major. Two specific pathways, however, deserve particular attention:

AA/GR Pathway: four semesters of second (foreign) language proficiency are required, unless a particular Arizona university bachelor's degree requirements states otherwise. Students, and Academic Advisors should check the university requirements to be sure about the language requirement for particular majors.

All AWC students in transfer degree programs need to check out the language proficiency requirement carefully. Universities are requiring second language proficiency for graduation in many majors. See the section below for the language proficiency statement.

TG/XR Pathway: students enrolled in a transfer degree with this pathway need to be aware that, because there is special sequencing from the first semester in these majors and since they have chosen to earn an associate's degree first before transferring to a university, completion of university bachelor's degree requirements may take longer as a result. For specific information about these majors, students need to work closely with their Academic Advisors and consult the university catalogs carefully.

Language Proficiency Statement

Transfer degree students (those enrolled in A.A., A.Bus., or A.S. programs) need to be aware that a large majority of majors at Arizona's three universities, (ASU, NAU, and U of A) require demonstrating proficiency in a second language at either the second- or fourth-semester level. AWC students may demonstrate this proficiency in the following ways:

- **Course Work** Proficiency at the second semester level can be demonstrated by earning a "C" in either ASL 102, FRE 102, GER 102, or SPA 102; proficiency at the fourth semester level can be demonstrated by earning a "C" in either SPA 202, 260, 261, 263, or 265.

Conversational language courses (at AWC, numbered 114 through 120) do not fulfill the second language requirement.

- **College Level Examination Program (CLEP)** Subject exams are available for French, German, and Spanish. Refer to the section on Credit by Examinations for specific language passing score ranges at the various course levels.
- **Modern Languages Examinations** Proficiency at the second-, third- or fourth-semester level can be demonstrated by passing with a "C" grade the final exam in ASL, FRE, or SPA 102, 201, or 202, as appropriate. Arrangements for this option may be made by calling the language faculty at (928) 344-7662 or (928) 317-7523.

Students at AWC have two options:

- A student can challenge a class to obtain credits. The student must pay for the credits in order to take the challenge exam. Students are able to challenge individual sections (ASL 101 or 102; FRE 101 or 102; SPA 101, 102, 201, or 202) or may choose to challenge SPA 202 and meet fourth-semester proficiency but will only receive credit for the course challenged. Contact an AWC Spanish faculty member for Spanish challenges. For other challenges contact the Division Chair of Modern Languages.
- A student can complete a standard examination to meet fourth-semester proficiency administered by an AWC Spanish faculty member. The student will not obtain credits. Verified by the "Verification of Language Proficiency Form."
- Completion of a secondary or college education in a foreign country where a language other than English is the official or native Language. Student's transcript will state language proficiency met. Student will not receive credits. Verified by Transcript.

Associate in General Studies (A.G.S.) Requirements

A minimum of a "C" grade and a minimum 2.0 GPA is required for all courses in the A.G.S. degree. When applicable, military credits may be used for credit as equivalent courses in the major or as general electives up to the maximum number of credits prescribed by the specific program requirements.

Occupational Degree (A.A.S.) Requirements

A minimum of a "C" grade and a minimum 2.0 GPA is required for all courses in the A.A.S. degree. When applicable, military credits may be used for credit as equivalent courses in the major or as general electives up to the maximum number of credits prescribed by the specific program requirements. Any planned departure from the outlined program must be approved by the student's Academic Advisor and the Division Chair/Director or Coordinator of the division offering the program.

Occupational Certificate Requirements

- A minimum of a "C" grade and a minimum 2.0 GPA is required for all courses specified in the certificate program. When applicable, military credits may be used for credit as equivalent courses in the major or as general electives up to the maximum number of credits prescribed by the specific program requirements.
- **Residency**—Six credits of the certificate program must be taken in residence at AWC.

AGEC Certificate Requirements

- Students must complete 35 credits of AGECE course work as specified in the certificate requirements.
- A minimum of a "C" grade and a minimum 2.0 GPA is required for all courses in the AGECE certificate.
- **Residency**—A minimum of 6 credits of certificate course work must be completed at AWC before completion of an AGECE can be certified.

Students who complete the requirements of an AGECE-A, B or S but do not complete a transfer degree must fill out and submit a graduation application to be awarded the AGECE Certificate and have the certificate noted on their transcript.

INSTITUTIONAL PARTNERSHIPS

Go to www.azwestern.edu/transfers or the university links below to learn more about university partnerships and transfer opportunities.



Start at Arizona Western College... Finish at the University of Arizona

The University of Arizona-Yuma, is a place where students can have a UA experience while remaining connected to their home town. Students complete their first two years at Arizona Western in their specific area of study and receive their AGECE and Associates degree. Then students complete their last two years and a Bachelors of Science degree in Yuma, or transfer to Tucson.

Bachelors of Science Degrees fully available in Yuma:

- Agriculture Technology Management—Agriculture Systems option—Plant Sciences minor
- Sustainable Plant Systems- Agronomy & Food Safety options
- Family Studies & Human Development—thematic minors—Children & Youth, Community & Health, or Military & Family
- Computer Sciences—thematic minor—Agriculture Technology Management, Biology, Family Studies & Human Development, or Systems Engineering.
- Systems Engineering—Solar/renewable energy certificate

Students interested in this partnership program are encouraged to contact: U of A—Yuma: (928) 271-9560 or email to thodges@cals.arizona.edu.



Transfer Admission Guarantee (TAG)

Have you already decided on your ASU major? If so, the ASU Transfer Admission Guarantee (TAG) has been designed for you. Through this program, you follow a prescribed sequence of course work that meets the lower-division course requirements for an ASU major. When you complete your TAG, you will have met the require-

ments for your associate's degree and be on track towards earning your bachelor's degree. TAGs include the appropriate AGECE (Arizona General Education Curriculum) and an associate's degree.

Benefits include:

- Guaranteed admission to ASU degree programs.
- Cost-effective pathway ensuring that all of your courses transfer and apply to your ASU degree.
- Eligibility for participation in the ASU Tuition Commitment program.
- Access to ASU transfer advising by phone and occasionally in-person.
- Potential eligibility for financial awards.

Go to transfer.asu.edu/az-western for more information.



Your degree could be your next step.

Elevate your education by transferring your Arizona Western College credits toward a degree at University of Phoenix*. When you enroll in classes at University of Phoenix, you'll be assigned a personalized team of advisors to support you from enrollment to graduation. The faculty hold advanced degrees and work in the fields they teach — so you'll gain practical, real-time knowledge that is focused, challenging and relevant. And as a student, you'll have access to innovative education technologies and work in learning teams alongside other students, many of who are working professionals.

Go to www.phoenix.edu/awc for more information.



Students who have enrolled at Arizona Western College will find it easy to transfer the credits earned towards a Bachelors Degree at Grand Canyon University. Whether you have just taken a few classes to brush up on some skills or if you have completed a degree you will find it easy to transfer many of those credits to GCU.

Go to www.gcu.edu/Transfer-Center/transfer-from-another-university-or-college.php for more information.

KEEP LEARNING WITHOUT LEAVING.



EARN YOUR NAU DEGREE
AT AWC



NAU offers programs at Arizona Western College and online. nau.edu/awc2nau

- AWC2NAU—a joint admission program between AWC and NAU
- Receive guidance from both institutions while earning your associate's degree *and* bachelor's degree
- Pay less than half the price of a traditional four-year education
- Choose from a variety of majors



nau.edu/awc2nau

Call us today at (888) NAU-YUMA ext. 2



Degrees Without Boundaries

Charter Oak State College serves non-traditional students, adult students, and those students looking for flexibility and affordability in degree-completion. To meet the needs of AWC students Charter Oak State College has teamed up with Arizona Western College to provide students with direct pathways to degree completion in Public Safety Administration.

Go to www.charteroak.edu for more information.



Education is a key factor in a successful career, but continuing your education as a working adult can be tricky. Western International University (WIU) understands the demands facing working adults and has over 30 years of experience providing undergraduate and graduate degree options that meet their unique needs.

Go to www.west.edu for more information.

2014–2015 Degrees

Transfer Degrees

64 credits (A.A., A.Bus., A.S.)

Administration of Justice Studies (A.A.)
 Agricultural Science (A.A.)
 American Indian Studies (A.A.)
 Art: Graphics (A.A.)
 Art: Studio Art (A.A.)
 Associate in Arts (A.A.)
 Associate in Science (A.S.)
 Biology (A.S.)
 Business (A.Bus.)
 Chemistry (A.S.)

Computer Science (A.S.)
 Crop Production (A.S.)
 Customs and Border Protection Homeland Security (A.A.)
 Earth Systems Science (A.S.)
 Education—Elementary (A.A.)
 Education—Elementary (A.A.)
 Early Childhood Ed Emphasis
 Education—Secondary (A.A.)

Engineering (A.S.)
 English (A.A.)
 Environmental Sciences (A.S.)
 Applied Geology Emphasis
 Biology Emphasis
 Exercise and Wellness (A.A.)
 Family Studies (A.A.)
 Geology (A.S.)
 History (A.A.)
 Homeland Security (A.A.)

Hotel/Restaurant Management (A.A.)
 Mathematics (A.A.)
 Media Arts (A.A.)
 Music (A.A.)
 Philosophy (A.A.)
 Physics (A.S.)
 Political Science (A.A.)
 Psychology/Sociology (A.A.)
 Spanish (A.A.)
 Social Work: U.S.-Mexico Border Emphasis (A.A.)
 Theatre (A.A.)

Occupational Degrees

64 or more credits (A.A.S.)

Accounting
 Administration of Justice Studies
 Air Conditioning and Refrigeration
 Air Conditioning and Refrigeration (GE Emphasis)
 Applied Agriculture
 Architectural Technology
 Automotive Technology
 Automotive Technology (GE Emphasis)
 Broadcasting
 Business
 Carpentry

Civil Engineering Technology
 Community Health Worker
 Computer Graphics
 Computer Information Systems
 Construction Trades Management
 Culinary Arts
 Drafting CAD Technology
 Early Childhood Education
 Electrical Technology
 EMS—Paramedic
 Fire Science

Industrial Maintenance & Instrumentation Technology
 Industrial Maintenance Technology (GE Emphasis)
 Industrial Manufacturing Technology (GE Emphasis)
 Industrial Technology
 Industrial Technology (GE Emphasis)
 Industrial Water Treatment
 Law Enforcement Training
 Logistics Supply Chain Management
 Manufacturing Maintenance and Operations Electrical

Manufacturing Maintenance and Operations Technology
 Massage Therapy
 Media Arts
 Nursing
 Paralegal Studies
 Plumbing
 Radiologic Technology
 Recreation Management
 Solar Photovoltaic Installation
 Television Production
 Welding
 Welding Technology (GE Emphasis)

General Studies

64 credits (A.G.S.) In Two Concentration Areas:

Business/Computers
 Humanities

Education/Nursing/Health
 Occupational/Technology

Mathematics/Science
 Languages/Communications

Phys Ed, Recreation & Sport
 Social Science

2014–2015 Certificates

Occupational Certificates

variable credits

Accounting	Carpentry	Food Science and Safety	Nursing, Practical
Agriculture, Occupational	Community Health Worker	Foundations of Construction	Office Administration
Air Conditioning and Refrigeration	Computed Tomography	Green Construction Methods	Paralegal Studies
Architectural Technology	Computer Information Systems	Industrial Graphics Drafting/CAD	Plumbing Technology
Athletic Coaching	Computer Security	Industrial Water Treatment	Pre-Health Careers
Automotive Brakes and Suspension	Construction/Industrial Safety	Infant and Toddler Education	Preschool Education
Automotive Computer Fundamentals, Engine Performance, and Diagnostics	Culinary Arts	Law Enforcement Training Academy	Project Supervision and Management
Automotive Electrical and Air Conditioning Systems	Culinary Arts with a focus in Entrepreneurship	Logistics Advanced	Recreation Management
Automotive Power Trains	Dietetics	Logistics Basic	Retail Management
Automotive Technology	Drafting CAD Technology	Manufacturing Equipment Maintenance and Repair Technology	Solar Panel Installation Level 1
Basic Air Conditioning and Refrigeration Service Technician	Early Childhood Education	Masonry	Welding
Basic Carpentry	Electrical Technology	Massage Therapy	Welding AWS (American Welding Society) Entry Level 1
Basic Carpentry and Employability Skills	EMS—Paramedic	Media Arts	Welding Certificate of Proficiency GMAW (Gas metal Arc Welding)/ FCAW (Flux Core Arc Welding) Plate
Basic Electrical	EMT—Basic	Microcomputer Business Applications	Welding Certificate of Proficiency SMAW (Shielded Metal Arc Welding) Plate
Basic Plumbing	Family Childcare Education	Networking	
	Family Development Credential	Nursing, Assistant	
	Fire Academy		
	Fitness Training Professional		

AGEC Certificates

35–38 credits

AZ Gen. Ed. Curriculum—Arts (AGEC-A)

AZ Gen. Ed. Curriculum—Business (AGEC-B)

AZ Gen. Ed. Curriculum—Science (AGEC-S)

Course Cluster

English as a Second Language (ESL)

2014–2015 DEGREES & CERTIFICATES

For information about our graduation rates, the median debt of students who completed a specific program, and other important information go to www.azwestern.edu/degrees to view the disclosure information.

Accounting

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.ACCT

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate ability in accounting for skilled entry level positions within both the private and public accounting sectors.

Program Description: This degree program is designed for students seeking a two-year vocational degree. A variety of accounting along with complementary business and general education courses will guide the student to establish a clearly focused foundation to enter the accounting profession in a wide range of available positions.

A. Required major courses: 21

ACC 111 Career Accounting 1	3
ACC 112 Career Accounting 2	3
ACC 115 Computerized Accounting	3
ACC 120 Income Tax Procedures	3
ACC 125 Introduction to Payroll	3
ACC 211 Financial Accounting	3
ACC 212 Managerial Accounting	3

B. Other departmental requirements: 15

BUA 100 Survey of Business	3
BUA 110 Business Application Concepts	3
CIS 120 Introduction to Computer Information Systems	3
CIS 121 Spreadsheet	3
ECN 100 Introduction to Economics	3
or	
ECN 240 Principles of Macroeconomics	
or	
ECN 250 Principles of Microeconomics	

C. General education requirements: 21

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math)	3
Arts and Humanities	3
Social and Behavioral Sciences	3
Physical and Biological Sciences	4
Additional Courses:	2

D. General electives: 7

Total credits required for degree: 64

Accounting

Certificate

Major Code: CERT.ACCT

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will focus on their vocational training with the program being designed to deliver the necessary tools to equip the student in obtaining an entry level position within the field of accounting.

Program Description: Graduates will be equipped with the essential skills required of an entry level employee in the accounting industry. The required major and other departmental (business) courses are designed to meet the growing demand for competent accounting personnel in both the private and public sectors.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 21

ACC 111 Career Accounting 1	3
ACC 112 Career Accounting 2	3

ACC 115 Computerized Accounting 3
ACC 120 Income Tax Procedures 3
ACC 125 Introduction to Payroll. 3
ACC 211 Financial Accounting 3
ACC 212 Managerial Accounting. 3

B. Other departmental requirements: 15

BUA 100 Survey of Business 3
BUA 110 Business Application Concepts 3
CIS 120 Introduction to Computer Information Systems 3
CIS 121 Spreadsheet 3
ECN 100 Introduction to Economics 3
or
ECN 240 Principles of Macroeconomics
or
ECN 250 Principles of Microeconomics

Total credits required for certificate: 36

Administration of Justice Studies

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ADMJU

Contact: Career and Technical Education Division
 (928) 344-7567

Program Purpose: The mission of the Administration of Justice Studies program at Arizona Western College is to offer a challenging set of courses that will produce from its harvest a graduate who will be successful in the study and field of criminal justice. The program accomplishes this by offering courses that embed critical thinking skills in AWC’s General Education focus areas.

Program Outcomes:

- Use criminological theories (e.g. classical criminology, sociological criminology, and psychological criminology) to explain current events; explain the inner workings of the criminal justice system and its agencies; explain why the criminal justice system is considered to be a non-system; and discuss the different purposes of criminal law.
- Brief and explain landmark cases using constitutional precedence; identify the tenets of the U.S. Constitution and Bill of Rights; and apply the elements of criminal statutes to factual situations.

- Deliver well written essays that explain how the three components of the criminal justice system work together; conduct an oral presentation on ethics and the law, the police, and the courts; and complete oral exams.
- Explain the characteristics of field notes and explain their importance; explain the importance of interviewing a witness; describe how to properly prepare crime scene reports; identify the three types of fingerprints.
- Construct sound arguments regarding crime-related issues; demonstrate critical thinking and analytical abilities by applying appropriate case laws; and quantify methods of treatment for the incarcerated.

A. Required major courses: 7

AJS 101 Introduction to Administration of Justice 3
AJS 201 Criminal Justice Crime Control Policies and Procedures 3
AJS 295 Administration of Justice Studies Capstone. . 1

B. Other departmental requirements: 18

Select 18 credits from AJS courses

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

Freshman Composition (ENG 101 and 102) 6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
Social and Behavioral Sciences. 6
Physical and Biological Sciences. 8
Additional Courses (see above or see the AGECA Additional Courses list for possible selections) 6

D. General electives: 4

Total credits required for degree: 64

Administration of Justice Studies

Associate in Applied Science (a.a.s.) degree

Major Code: AAS.ADMJU

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: The mission of the Administration of Justice Studies program at Arizona Western College is to offer a challenging set of courses that will produce from its harvest a graduate who will be successful in the study and field of criminal justice. The program accomplishes this by offering courses that embed critical thinking skills in AWC's General Education focus areas.

Program Outcomes:

- Use criminological theories (e.g. classical criminology, sociological criminology, and psychological criminology) to explain current events; explain the inner workings of the criminal justice system and its agencies; explain why the criminal justice system is considered to be a non-system; and discuss the different purposes of criminal law.
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- Deliver well written essays that explain how the three components of the criminal justice system work together; conduct an oral presentation on ethics and the law, the police, and the courts; and complete oral exams.
- Explain the characteristics of field notes and explain their importance; explain the importance of interviewing a witness; describe how to properly prepare crime scene reports; identify the three types of fingerprints.
- Construct sound arguments regarding crime-related issues; demonstrate critical thinking and analytical abilities by applying appropriate case laws; and quantify methods of treatment for the incarcerated.

A. Required major courses: 21

AJS 101 Introduction to Administration of Justice . . .	3
AJS 109 Substantive Criminal Law	3
AJS 210 Court Function	3
AJS 225 Criminology	3
AJS 230 Police Function	3
AJS 240 Corrections Function	3
AJS 260 Procedural Criminal Law.	3

B. Other departmental requirements: 15
(any other **AJS** courses)

C. General education requirements: 22

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses: SPC 110 or SPC 215	3

D. General electives: 6

Total credits required for degree: 64

Agricultural Science

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.AGRIC

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in agricultural science that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students preparing for transfer to a four-year college of agriculture will find the necessary required courses in agriculture, science, mathematics, and related subject areas available to them and will be advised by the agriculture faculty. This program articulates with the B.S. in Agricultural Systems Management offered by the University of Arizona—Yuma.

A. Required major courses: 11

AGB 230 Agriculture Business Management.	3
PLS 100 Plant Science	4
PLS 211 Soils.	4

B. Other departmental requirements: 7

ACC 211 Financial Accounting	3
CHM 151 General Chemistry I.	4

C. Other departmental options: 10

Select 10 credits from the following courses:

- AGS 110** Introduction to Food Safety
- AGS 200** Food Safety Practices and Management

- AGS 220** Food Safety in Facilities
- AGS 240** Environmental Effects on Food Safety
- AGS 296** Agricultural Internship
- ANS 100** Animal Industries
- ANS 240** Feeds and Feeding
- GPH 187** Introduction to ArcGIS
- PLS 290** Vegetable Crop Production
- PLS 122** Ornamental Horticulture
- PLS 200** Introduction to Integrated Pest Management
- PLS 230** Basic Crop Fertility
- PLS 240** Plant Propagation
- PLS 270** Turfgrass Management

D. Arizona General Education Curriculum-Arts (AGEC-A): **36**

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 151 College Algebra or approved higher level math). 4

Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences 6
(ECN 250 Microeconomics suggested)

Physical and Biological Sciences (BIO 181 and 182 General Biology I and II). 8

Additional Courses 6
*(second semester foreign language course and CIS course suggested)**

E. General electives: **0**

Total credits required for degree: **64**

Agriculture, Occupational

Certificate

Major Code: CERT.AGOCC

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate basic knowledge in agricultural technology that will prepare them to obtain an entry-level position within the field.

Program Description: Over the past several years, the need for well-trained entry-level agricultural tech-

nicians has greatly increased. To meet this need, this program is offered for those wishing to pursue this occupation which, upon completion, will enable the student to become employable. The course work contained in the certificate may be applied to the A.A.S. degree in Applied Agriculture.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: **17**

AGB 230 Agricultural Business Management 3

ECN 250 Principles of Microeconomics 3

PLS 100 Plant Science 4

PLS 211 Soils. 4

TEC 165 Employee and Occupational Safety. 3

B. Other departmental requirements: **15**

Select 15 credits from the following courses:

AGS 110 Introduction to Food Safety

AGS 200 Food Safety Practices and Management

AGS 220 Food Safety in Facilities

AGS 240 Environmental Effects on Food Safety

AGS 296 Agricultural Internship

ANS 100 Animal Industries

ANS 240 Feeds and Feeding

GPH 187 Introduction to ArcGIS

PLS 290 Vegetable Crop Production

PLS 122 Ornamental Horticulture

PLS 200 Introduction to Integrated Pest Management

PLS 230 Basic Crop Fertility

PLS 240 Plant Propagation

PLS 270 Turfgrass Management

Total credits required for certificate: **32**

Air Conditioning and Refrigeration

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.AIRCR

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in air conditioning and refrigeration that will prepare them to obtain an entry-level posi-

tion within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Provides the student with the essential skills required to enter this fast-growing field which includes both heating and cooling. The student attains the technical knowledge associated with each type of refrigeration system, their uses, and their controlling devices. This program includes troubleshooting, maintenance, motors, as well as study of related electrical controlling devices and safety related to the use of refrigerants.

A. Required major courses: 27

- ACR 101 Air Conditioning and Refrigeration 1 3
- ACR 102 Air Conditioning and Refrigeration 2 3
- ACR 103 Electrical Motors, Circuits and Controls. . . 3
- ACR 112 Control Systems 3
- ACR 113 Heating Technology 3
- ACR 201 Air Conditioning and Refrigeration 3 3
- ACR 202 Air Conditioning and Refrigeration 4 3
- ACR 212 Heat Load Calculations and Duct Design . 3
- ACR 213 Light Commercial Systems. 3

B. Other departmental requirements: 15

- ECT 105 Basic Electricity. 3
 - ENG 110 Technical Writing 3
 - ENT 240 Business Plan Development. 3
 - TEC 165 Employee and Occupational Safety. 3
- Select a minimum of 3 credits from the following courses:*
- WLD 104 Techniques in Flux Core Arc Welding
 - WLD 105 Techniques in Oxyacetylene Welding and Cutting
 - WLD 106 Techniques in Shielded Metal Arc Welding
 - WLD 109 Techniques in Gas Metal Arc Welding

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102) 6
- Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math). . . 3
- Arts and Humanities 3
- Social and Behavioral Sciences. 3
- Physical and Biological Sciences. 4
- Additional Courses 2

D. General electives: 1

Total credits required for degree: 64

Air Conditioning and Refrigeration

Certificate

Major Code: CERT.AIRCR

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in air conditioning and refrigeration that will prepare them to obtain an entry-level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides the student with the essential skills required for entry-level employees in the air conditioning and refrigeration industry. Training in various aspects of air conditioning and refrigeration include trouble-shooting, maintenance, repair and servicing of A/C units, related electrical controlling devices, motors, and safety factors concerning the use of various refrigerants. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 35

- ACR 100 Core Curriculum Introductory Craft Skill . . 5
- ACR 101 Air Conditioning and Refrigeration 1 3
- ACR 102 Air Conditioning and Refrigeration 2 3
- ACR 103 Electrical Motors, Circuits and Controls. . . 3
- ACR 112 Control Systems 3
- ACR 113 Heating Technology 3
- ACR 201 Air Conditioning and Refrigeration 3 3
- ACR 202 Air Conditioning and Refrigeration 4 3
- ACR 212 Heat Load Calculations and Duct Design . 3
- ACR 213 Light Commercial Systems. 3
- TEC 165 Employee and Occupational Safety. 3

B. Other departmental requirements: 3

- WLD 104 Techniques in Flux Core Arc Welding . . . 3
- WLD 105 Techniques in Oxyacetylene Welding/Cutting 3
- WLD 106 Techniques in Shielded Metal Arc Welding 3
- WLD 109 Techniques in Gas Metal Arc Welding . . . 3

Total credits required for certificate: 38

Air Conditioning and Refrigeration

(General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.ACRGE

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Industrial air conditioning and refrigeration requires combined knowledge and skills in a variety of industrial/technical fields. This program will prepare the individual for an entry level job in the air conditioning and refrigeration career field. Students are instructed in the processes and practices of trouble-shooting, maintenance, repair and service, working with electrical controlling devices, motors, and safety. Graduates will demonstrate critical thinking skills in AWC's General Education focus areas.

Program Description: This program provides courses in air-conditioning and other technical subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses: 27

- ACR 101 Air Conditioning and Refrigeration 1 3
- ACR 102 Air Conditioning and Refrigeration 2 3
- ACR 103 Electrical Motors, Circuits and Controls. . . 3
- ACR 112 Control Systems 3
- ACR 113 Heating Technology 3
- ACR 201 Air Conditioning and Refrigeration 3 3
- ACR 202 Air Conditioning and Refrigeration 4 3
- ACR 212 Heat Load Calculations and Duct Design . 3
- ACR 213 Light Commercial Systems. 3

B. Other departmental requirements: 13

- ECT 105 Basic Electricity. 3
- MFG 191 Machine Tool Operations 4
- TEC 165 Employee and Occupational Safety. 3
- Select at least one course from
WLD 104, WLD 105, WLD 106, or WLD 109 3

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGECE-A Additional Courses list for possible selections). 6

Total credits required for degree: 75

American Indian Studies

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.AIS

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Provides an opportunity for Arizona Western College to support the local Native American heritage and to acquaint both the Native Americans and the Non-Native American community with Pan-Indian experience.

Program Description: American Indian Studies provides an educational experience that will develop appreciation, understanding and protection of Native American cultures and their histories. It introduces students to the diversity and uniqueness of Native American cultures, their sovereignty as independent nations and the challenges they face in our contemporary society.

A. Required major courses: 15

- ANT 100 Introduction to Anthropology 3
- ANT 130 Introduction to Cultural Anthropology . . . 3
- ANT 140 Introduction to Native American Studies . 3
- AIS 180 Overview of American Indian Studies 3
- AIS 220 Introduction to Contemporary
American Indian Studies 3

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences	6
Physical and Biological Sciences	8
Additional Courses (see the AGEC-A Additional Courses list for possible selections).	6

D. General electives: **14**

Total credits required for degree: **64**

Applied Agriculture

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.AGBUS

Contact: Science Division (928) 344-7656

Program Purpose: Graduate will demonstrate (1) basic knowledge in agriculture that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: For students interested in agriculture, this program provides entry skills in agriculture and some flexibility for choices in the agricultural area of interest.

A. Required major courses: **17**

AGB 230 Agricultural Business Management	3
BUA 109 Principles of Human Relations	3
PLS 100 Plant Science	4
PLS 211 Soils	4
TEC 165 Employee and Occupational Safety.	3

B. Other departmental requirements: **25**

Select 24 credits from the following courses:

AGS 110 Introduction to Food Safety
AGS 200 Food Safety Practices and Management
AGS 220 Food Safety in Facilities
AGS 240 Environmental Effects on Food Safety
AGS 296 Agricultural Internship
ANS 100 Animal Industries
ANS 240 Feeds and Feeding
GPH 187 Introduction to ArcGIS
PLS 290 Vegetable Crop Production

PLS 122 Ornamental Horticulture
PLS 200 Introduction to Integrated Pest Management
PLS 230 Basic Crop Fertility
PLS 240 Plant Propagation
PLS 270 Turfgrass Management

C. General education requirements: **22**

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences (ECN 250 Principles of Microeconomics).	3
Physical and Biological Sciences (CHM 130 Fundamental Chemistry)	4
Additional Courses (CIS 120 Introduction to Computer Information Systems)	3

D. General electives: **0**

Total credits required for degree: **64**

Architectural Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.ARCH

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in the architectural field which will prepare them to obtain an entry-level position in the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program prepares graduates for an entry-level position in the career field of drafting and pre-architecture in preparation for an architectural program at an university.

A. Required major courses: **38**

ARC 105 Principle of Interior Design	3
ARC 131 Building Codes	3
ARC 221 Architectural 3D CAD	3
ARC 230 Environmental Systems	4
ARC 235 Survey of Architecture	3
ARC 240 Design Project	4
ARC 266 Materials and Methods	3
DFT 182 Construction Graphics-Drafting	5

DFT 185 Introduction to Computer Aided Drafting	3
DFT 186 Computer Aided Drafting 2	3
DFT 201 Construction Graphics 1	4
<hr/>	
B. Other departmental requirements:	3
CIS 120 Introduction to Computer Information Systems	3
<hr/>	
C. General education requirements:	21
English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math)	3
Arts and Humanities	3
Social and Behavioral Sciences	3
Physical and Biological Sciences	4
Additional Courses	2
<hr/>	
D. General electives:	2
<hr/>	
Total credits required for degree:	64

Architectural Technology

Certificate

Major Code: CERT.ARCH

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in the architectural field which will prepare them to obtain an entry-level position in the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program prepares graduates for an entry-level position in the career field of drafting and pre-architecture in preparation for an architectural program at an university.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses:	25
ARC 105 Principle of Interior Design	3
ARC 131 Building Codes	3
ARC 230 Environmental Systems	4
ARC 240 Design Project	4
ARC 266 Materials and Methods	3

DFT 182 Construction Graphics-Drafting	5
DFT 185 Introduction to Computer Aided Drafting	3

B. Other departmental requirements: 3

MAT 105 Mathematics for the Applied Sciences or approved higher level math	3
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Total credits required for certificate: 28

Arizona General Education Curriculum (AGEC)

Certificate

Program Purpose: Graduates will demonstrate basic knowledge in general education.

Program Description: Three AGECE certificates are available, AGECE-A (Arts), AGECE-B (Business), and AGECE-S (Science) for those students who wish to complete a "general education package" before transferring to an Arizona university. Students should see an academic counselor or Academic Advisor to see which AGECE is best suited to their baccalaureate degree plans.

Arts (AGECE-A)

Major Code: CERT.AGECA

Contact: Advisement Services (928) 344-7624

A. Required major courses: 35

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math)	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences	6
Physical and Biological Sciences	8
Additional Courses (see the AGECE-A Additional Courses list for possible selections)	6

Business (AGECE-B)

Major Code: CERT.AGECEB

Contact: Advisement Services (928) 344-7624

A. Required major courses: 35

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 212 Brief Calculus or approved-higher level math)	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Computer Information Systems (CIS 120 Computer Information Systems)	3
Additional Courses (see the AGECE-B Additional Courses list for possible selections)	3

Science (AGEC-S)

Major Code: CERT.AGECS

Contact: Advisement Services, (928) 344-7624

A. Required major courses: 37–39

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math)	5
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
<i>(Select one sequence.)</i>	
BIO 181 and 182 General Biology I and II, or CHM 151 and 152 General Chemistry I and II, or PHY 121 and 222 General Physics I and II	
Additional Courses (see the AGECE-S Additional Courses list for possible selections).	6–8

Art: Graphics

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ARTGR

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) knowledge that will prepare them for transfer to university graphics programs and (2) critical thinking skills in AWC’s General Education focus areas relevant to graphic design.

Program Description: Students in this major receive a foundation in art and technology; with the assistance of their Academic Advisors, students then select courses according to the major they wish to pursue at the university.

A. Required major courses: 23

ARH 141 Survey of World Art 1	3
ARH 142 Survey of World Art 2	3
ART 101 Basic Design, 2-Dimensional	3
ART 102 Basic Design, 3-Dimensional	3
ART 111 Drawing 1.	3
GRA 101 Graphic Communication 1	4
GRA 102 Graphic Communication 2	4

B. Other departmental requirements: 6

Two ART or GRA courses 200 or higher	6
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C. Arizona General Education Curriculum-Arts (AGEC-A): 35

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math)	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECE-A Additional Courses list for possible selections)	6

D. General electives: 0

Total credits required for degree: 64

Art: Studio Art

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ARTST

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in studio art that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Outcome: Art (Studio) provides foundational and continuing opportunities for the study of visual art.

A. Required major courses: 15

- ARH 141 Survey of World Art 1 3
- ARH 142 Survey of World Art 2 3
- ART 101 Basic Design, 2-Dimensional 3
- ART 102 Basic Design, 3-Dimensional 3
- ART 111 Drawing 1. 3

B. Other departmental requirements: 14

Four to five ART courses 100 or higher

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6
- Physical and Biological Sciences. 8
- Additional Courses (see the AGECA Additional Courses list for possible selections) 6

D. General electives: 0

Total credits required for degree: 64

Associate in Arts (A.A.)

Pathway: AA/GR

Major Code: AA.ASSOC

Contact: Advisement Services (928) 344-7624

Program Purpose: Graduates will demonstrate (1) basic knowledge in the arts, humanities, and social and behavioral sciences that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: The Associate in Arts degree is designed for students who are undecided about a university major. As such, students are asked to complete two steps:

1. complete the AGECA and

2. create a block of credits: (to meet the required 64 credit program minimum) which are transferable to any of the three public state universities in Arizona; the selection of these courses (numbered 100 or higher) ought to be made in consultation with an academic or faculty advisor and by consulting the Course Equivalency Guide (CEG) (www.aztransfer.com). Students should select courses based on exploring various fields of interests.

A. Electives: complete enough courses to meet program requirement of 64 credits

B. Arizona General Education Curriculum-Arts (AGECA): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6
- Physical and Biological Sciences. 8
- Additional Courses (see the AGECA Additional Courses list for possible selections). 6

Total credits required for degree: 64

Associate in Science (A.S.)

Pathway: AS/GR

Major Code: AS.ASSOC

Contact: Advisement Services, (928) 344-7624

Program Purpose: Graduates will demonstrate (1) basic knowledge in the physical and biological sciences or health related professions that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: The Associate in Science degree is designed for students who are undecided about a university major. As such, students are asked to complete two steps:

1. complete the AGEC-S and
2. create a block of credits: (to meet the required 64 credit program minimum) which are transferable to any of the three public state universities in Arizona; the selection of these courses (numbered 100 or higher) ought to be made in consultation with an academic or faculty advisor and by consulting the Course Equivalency Guide (CEG) (www.aztransfer.com). Students should select courses based on exploring various fields of interests.

A. Electives: complete enough courses to meet program requirement of 64 credits

- B. Arizona General Education Curriculum-Science (AGEC-S):** **37–39**
- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 220** Calculus I with Analytic Geometry or approved higher level math). 5
- Arts and Humanities** 6
- (Select at least one course from the Arts list and one course from the Humanities list.)*
- Social and Behavioral Sciences.** 6
- Physical and Biological Sciences.** 8
- (Select one sequence.)*
- BIO 181** and **182** General Biology I and II,
or
CHM 151 and **152** General Chemistry I and II
or
PHY 121 and **131** Mechanics and Electricity and Magnetism
- Additional Courses** (see the AGEC-S Additional Courses list for possible selections). 6–8

Total credits required for degree: **64**

Athletic Coaching

Certificate

Major Code: CERT.ATHCH

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in athletic coaching that will prepare them to obtain an entry-level position within the field.

Program Description: Designed for students who need a credential verifying coaching experience as either a head or an assistant coach.

A. Required major courses: **16**

- PEM 102** Emergency Procedures for Coaches. 2
- PEM 101** Directed Lab Experience. 2
- PEM 201** Principles of Athletic Coaching 3
- PEM 202** Sports Injury Management 3
- PEM 203** Sports Psychology 3
- PEM 204** Methods of Coaching Team Sports 3

B. Other departmental requirements: **3**

Select 3 credits from the following courses:

- BIO 160** Introduction to Anatomy and Physiology
- BIO 201** Human Anatomy and Physiology I
- BIO 202** Human Anatomy and Physiology II
- NTR 139** Personal Nutrition
- PEM 205** Team Sports Officiating: Spring Sports
- PEM 206** Team Sports Officiating: Fall Sports

Total credits required for certificate: **19**

Automotive Brakes and Suspension

Certificate

Major Code: CERT.AUTBR

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in automotive brakes and suspension that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician.

A. Required major courses: **16**

- AUT 120** Automotive Suspension. 6
- AUT 125** Automotive Brakes 4
- AUT 200** Automotive Electrical Systems 6

Total credits required for certificate: **16**

Automotive Computer Fundamentals, Engine Performance, and Diagnostics

Certificate

Major Code: CERT.AUTCD

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in automotive computer fundamentals, engine performance, and diagnostics that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician.

A. Required major courses: 14

- AUT 200 Automotive Electrical Systems 6
- AUT 209 Auto Engine Performance and Diagnosis . 5
- AUT 215 Automotive Computer Testing 3

Total credits required for certificate:. 14

Automotive Electrical and Air Conditioning Systems

Certificate

Major Code: CERT.AUTAC

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in automotive electrical and air conditioning that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician.

A. Required major courses: 13

- AUT 200 Automotive Electrical Systems 6
- AUT 215 Automotive Computer Testing 3
- AUT 252 Automotive Air Conditioning Systems . . . 4

Total credits required for certificate:. 13

Automotive Power Trains

Certificate

Major Code: CERT.AUTPT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in automotive power trains that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician.

A. Required major courses: 13

- AUT 101 Theory of Engine Operation 4
- AUT 133 Automotive Power Trains 3
- AUT 200 Automotive Electrical Systems 6

Total credits required for certificate:. 13

Automotive Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.AUTOT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in automotive technology that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Recognizing that a successful career in automotive technology involves much

more than the mechanical ability to replace parts, this program is for the individual who has the ability and aptitude to become a skilled automotive technician. Students gain competency in a variety of automotive systems which enables them to diagnose and perform corrective procedures accurately. In addition, students receive advanced technical education procedures on many vehicle components to keep them abreast of current changes in the automotive industry. This program is certified through the National Automotive Technicians Education Foundation (NATEF). When completing the automotive training the student will be able to apply for and take the Automotive Service Excellence (ASE) certification examinations. Student-supplied safety glasses are required.

A. Required major courses: 41

- AUT 101** Theory of Engine Operation 4
- AUT 120** Automotive Suspension. 6
- AUT 125** Automotive Brakes 4
- AUT 133** Automotive Power Trains. 3
- AUT 200** Automotive Electrical Systems 6
- AUT 209** Auto Engine Performance and Diagnosis . 5
- AUT 215** Automotive Computer Testing. 3
- AUT 220** Automotive Hybrid Fundamentals 3
- AUT 252** Automotive Air Conditioning Systems . . . 4
- ENG 110** Technical Writing 3

B. Other departmental requirements: 3

Select a minimum of 3 credits from the following courses:

- AUT 100** Basic Service and Systems
- AUT 102** Engine Reconditioning and Machine Shop
- AUT 135** Automatic Transmissions
- AUT 211** Automotive Emissions Control Systems
- AUT 260** Automotive Internship
- DFT 181** Industrial Graphics—Drafting
- ECT 105** Basic Electricity
- MFG 191** Machine Tool Operations
- TEC 165** Employee and Occupational Safety
- WLD 106** Techniques in Shielded Metal Arc Welding Cooperative Education

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102)** 6
- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3

- Arts and Humanities** 3
- Social and Behavioral Sciences.** 3
- Physical and Biological Sciences** 4
- Additional Courses** 2

D. General electives: 0

Total credits required for degree: 65

Automotive Technology (General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.AUTGE

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: This program is certified through the National Automotive Technicians Education Foundation (NATEF). When completing the automotive training the student will be able to apply for and take the Automotive Service Excellence (ASE) certification examinations.

Program Description: This program provides courses in the automotive and technical subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses: 38

- AUT 101** Theory of Engine Operation 4
- AUT 120** Automotive Suspension. 6
- AUT 125** Automotive Brakes 4
- AUT 133** Automotive Power Trains. 3
- AUT 200** Automotive Electrical Systems 6
- AUT 209** Auto Engine Performance and Diagnosis . 5
- AUT 215** Automotive Computer Testing. 3
- AUT 220** Automotive Hybrid Fundamentals 3
- AUT 252** Automotive Air Conditioning Systems . . . 4

B. Other departmental requirements: 3

- TEC 165** Employee and Occupational Safety. 3

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences	6
Physical and Biological Sciences	8
Additional Courses (see the AGEC-A Additional Courses list for possible selections).	6

D. General electives: 0

Total credits required for degree: 76

Automotive Technology

Certificate

Major Code: CERT.AUTOT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in automotive technology that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician. Student will be able to apply for and take the Automotive Service Excellence (ASE) certification examinations.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 38

AUT 101 Theory of Engine Operation	4
AUT 120 Automotive Suspension.	6
AUT 125 Automotive Brakes	4
AUT 133 Automotive Power Trains.	3
AUT 200 Automotive Electrical Systems	6
AUT 209 Auto Engine Performance and Diagnosis	5
AUT 215 Automotive Computer Testing	3
AUT 252 Automotive Air Conditioning Systems	4

B. Other departmental requirements: 3

Select 3 credits from the following courses:

AUT 100 Basic Service and Systems
AUT 102 Engine Reconditioning and Machine Shop
AUT 135 Automatic Transmissions
AUT 211 Automotive Emissions Control Systems
TEC 165 Employee and Occupational Safety

Total credits required for certificate: 41

Basic Air Conditioning and Refrigeration Service Technician

Certificate

Major Code: CERT.BACT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in air conditioning and refrigeration that will prepare them to obtain an entry-level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides the student with the essential skills required of an entry-level employee in the air conditioning and refrigeration industry. Training in various aspects of air conditioning and refrigeration include trouble-shooting, maintenance, repair and servicing of A/C units, related electrical controlling devices, motors and safety factors concerning the use of various refrigerants. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 20

ACR 100 Core Curriculum Introductory Craft Skill	5
ACR 101 Air Conditioning and Refrigeration 1	3
ACR 102 Air Conditioning and Refrigeration 2	3
ACR 103 Electrical Motors, Circuits and Controls.	3
ACR 112 Control Systems	3
ACR 113 Heating Technology	3

Total credits required for certificate: 20

Basic Carpentry

Certificate

Major Code: CERT.BCARP

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in carpentry that will prepare them to obtain an entry level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides graduates with the essential skills required of an entry-level employee in the carpentry industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

A. Required major courses: 17

- CTM 100 Core Curriculum Introductory Craft Skills . 5
- CTM 105 Blueprint Reading for Construction 3
- CTM 123 Building Construction Methods 1 3
- CTM 124 Building Construction Methods 2 3
- CTM 224 Concrete and Concrete Form Systems . . . 3

Total credits required for certificate: 17

Basic Carpentry and Employability Skills

Certificate

Major Code: CERT.BCES

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: This program is part of the contract with Arizona Department of Corrections (ADOC) and offers inmates at the Arizona State Prison Complex Yuma the opportunity to obtain a vocational certificate.

Program Description: Provides graduates with the essential skills required of an entry-level employee in the carpentry industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades. Specific certificate for inmates of

the Arizona State Prison Complex Yuma that provides them with essential entry-level employment skills to enable them to find employment after their release from prison.

A. Required major courses: 12

- CTM 105 Blueprint Reading for Construction 3
- CTM 123 Building Construction Methods 1 3
- CTM 124 Building Construction Methods 2 3
- CTM 224 Concrete and Concrete Form Systems . . . 3

B. Other departmental requirements: 7

- ORI 101 Strategies for Success 3
- ORI 105 Decision Making 1
- TEC 165 Employee and Occupational Safety. 3

Total credits required for certificate: 19

Basic Electrical

Certificate

Major Code: CERT.BELEC

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in electrical wiring that will prepare them to obtain an entry-level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides graduates with the essential skills required of an entry-level employee in the electrical wiring industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 23

- ECT 100 Core Curriculum Introductory Craft Skills. . 5
- ECT 105 Basic Electricity. 3
- ECT 110 AC/DC Circuits 4
- ECT 115 National Electrical Code 3
- ECT 205 Fixtures and Installation. 4
- ECT 210 Control Circuits. 4

Total credits required for certificate: 23

Basic Plumbing

Certificate

Major Code: CERT.BPLMB

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in plumbing that will prepare them to obtain an entry level position within the field.

Program Description: Provides graduates with the essential skills required of an entry level employee in the plumbing industry. This program is certified with the National Association of Home Builders through the Home Builders Institute and encompasses the National Skills Standards for the Construction Trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 19

- PCT 100 Core Curriculum Introductory Craft Skill . . . 5
- PCT 105 Plumbing Safety 3
- PCT 115 Plumbing Drain, Waste,
and Venting Systems. 3
- PCT 205 Plumbing Water Supply
and Distribution Systems 4
- PCT 210 Plumbing Fixture and Appliance Installation . 4

Total credits required for certificate: 19

Biology

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.BIOLO

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in biology that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is designed for those students pursuing a career in biological sciences. Students who wish to pursue a pre-med preparation should follow this program as well. It is recommended that all students who wish to enter other related fields, such as medical technology or

pre-professional health science (pre-dental, pre-optometry, pre-pharmacy, and pre-veterinary) should also follow this program and consult with an Academic Advisor for the appropriate courses and sequences for their particular field. Students may also be interested in the A.S. degree in Environmental Sciences with Biology Emphasis.

A. Required major courses: 8

- BIO 181 General Biology (Majors) I 4
- BIO 182 General Biology (Majors) II 4

B. Other departmental requirements: 19

- BIO 205 Microbiology 4
- MAT 270 Applied Statistics 4

Select a minimum of one of the following courses:

- BIO 234 Desert Biology
- ENV 230 Foundations of Environmental Science:
Humans and the Environment

GPH 239 Intro to Geographic Information Systems

Select a minimum of seven additional credits with a BIO, ENV, CHM, GLG, GPH, PLS, or PHY prefix from the following courses: 7

- BIO 201, BIO 202, BIO 234
- CHM 235, CHM 236
- ENV 230, GPH 239, ENV 280
- GLG 101, GLG 102, GLG 110
- PLS 200, PLS 211, PLS 240
- PHY 111, PHY 112, PHY 121, PHY 131

(It is critical that the appropriate courses are chosen and that these are completed in proper sequence; you should review specific requirements of the university to which you wish to transfer)

C. Arizona General Education Curriculum-Science (AGEC-S): 37

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math) . . 5

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II). 8

Additional Courses (see the AGECS-Additional Courses list for possible selections). 6-8

D. General electives: 0

Total credits required for degree: 64

Broadcasting

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.BRDCA

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in broadcasting that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: AWC is the only community college in Arizona to operate both AM and FM radio stations licensed by the Federal Communications Commission (FCC). The stations, known collectively as Yuma Public Radio, have a potential audience of 135,000 in Yuma County and eastern Imperial County, California. Both stations are also streamed over the internet at **KAWC.org**. KAWC-AM broadcasts a News/Talk format , while KAWC-FM broadcasts NPR news along with alternative, jazz and classical music. KAWC-FM also broadcasts locally-produced news, alternative music and jazz programs. AWC broadcasting classes use the KAWC facility for hands on learning experiences in audio production, announcing and performance. AWC students are also eligible for hands-on learning experiences as interns in the KAWC studios, working along side Yuma Public Radio professionals.

A. Required major courses: 33

- BDC 100** Introduction to Broadcasting 3
- BDC 110** Radio Studio Operations 1 3
- BDC 120** Announcing and Performance 1. 3
- BDC 130** Radio Studio Operations 2 3
- BDC 140** Announcing and Performance 2. 3
- BDC 150** Broadcast Practices 3
- BDC 200** Broadcast Advertising. 3
- BDC 210** Broadcast Writing. 3
- BDC 220** Radio Studio Operations 3 3
- BDC 230** Management and Sales 3
- BDC 240** Radio Studio Operations 4 3

B. Other departmental requirements: 6

Select one course from each area listed below:

Journalism (print)

Any **CIS** course

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102)** 6
- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3
- Arts and Humanities** 3
- Social and Behavioral Sciences.** 3
- Physical and Biological Sciences.** 4
- Additional Courses** 2

D. General electives: 4

Total credits required for degree: 64

Business

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.BUS

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in business with an area of emphasis that will prepare them to obtain an entry-level position within a specialized business field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: For students who plan to attend college only two years and then enter the workforce. Students can select an area of emphasis to specialize this degree. Areas of emphasis include: General Business, Entrepreneurship, Financial Management, Marketing, Office Management, Management, and Logistics.

A. Required major courses: 21

- ACC 111** Career Accounting **or** 3
- ACC 211** Financial Accounting 3
- BUA 100** Survey of Business 3
- BUA 110** Business Math Applications. 3
- BUA 220** Legal Environment of Business **or** 3
- BUA 230** Business Law 3
- BUA 295** Business Capstone Project 3
- CIS 120** Introduction to Computer Information Systems. 3

ECN 100 Principles of Economics or	3
ECN 250 Microeconomics.	3

B. Other departmental requirements: 15

Take at least 15 credits from one of the following emphases:

General Business

- BUA 109** Principles of Human Relations
- BUA 290** Business Communications
- MKT 110** Principles of Marketing
- MGT 135** Management Fundamentals
- FIN 100** Introduction to Finance

Entrepreneurship

- ENT 100** Introduction to Entrepreneurship
- ENT 220** Marketing the Small Business
- ENT 240** Business Plan Development
- FIN 230** Commercial and Consumer Credit
- MKT 100** Salesmanship

Financial Management

- FIN 100** Introduction to Finance
- FIN 140** Financial Markets and Institutions
- FIN 220** Fundamentals of Investing
- FIN 230** Commercial and Consumer Credit
- And one** of the following two courses:
- FIN 120** Principles of Real Estate
- FIN 130** Principles of Insurance

Logistics

- LGS 101** Introduction to Logistics
- LGS 102** Inventory Control
- LGS 103** Freight Claims and Contracts
- LGS 104** Computerized Logistics
- LGS 105** Warehouse Management

Marketing

- MKT 100** Salesmanship
- MKT 110** Principles of Marketing
- MKT 230** Principles of Advertising
- MGT 220** Principles of Retailing
- GRA 101** Graphic Communications 1

Management

- BUA 109** Principles of Human Relations
- BUA 290** Business Communications
- MGT 135** Management Fundamentals
- MGT 140** Small Business Management

- MGT 250** Personnel Supervision or
- MGT 280** Leadership

Office Management

- CIM 145** Word Processing
- CIS 121** Spreadsheet
- BUA 109** Principles of Human Relations
- BUA 290** Business Communications
- SPC 110** Introduction to Speech Communication or
- SPC 215** Public Speaking

C. General education requirements: 21

- English Composition (ENG 100, 101 or 102).** 6
- Mathematics (MAT 105** College Mathematics for Applied Sciences or approved higher level math). . . 3
- Arts and Humanities** 3
- Social and Behavioral Sciences.** 3
- Physical and Biological Sciences.** 4
- Additional Courses** 2

D. General electives (complete enough courses to meet program requirement of 64)

Total credits required for degree: 64

Business

Associate in Business (A.Bus.) degree

Pathway: ABUS/GR

Major Code: ABUS.BUSIN

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in business that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program provides the opportunity for students to complete the lower division (freshman and sophomore) requirements, preparatory to specialization in appropriate fields, in general education and business subjects, for transfer to a university. The students should study carefully and discuss with their advisors the following statement of policy promulgated by the Colleges of Business Administration in the three Arizona state universities regarding transfer credits from community colleges:

Undergraduate programs in business administration in universities normally concentrate on the professional courses in the last two years of a four-year program. Only a limited amount of work in business courses is offered below the junior year. The objective of this policy is to permit the student to acquire a foundation of work in the basic arts and sciences as prerequisites for professional courses in business. All business programs accredited by the American Association of Collegiate Schools of Business require the student to take a minimum of 40 percent of the four-years' work in the arts and sciences, including work in mathematics, social science, humanities, and the natural sciences. Students desiring a four-year degree are advised to take a majority of their work during the first two years in the arts and sciences, including a strong background in mathematics.

Students planning to take their first two years' work at a community college or at another four-year college should take only those courses in business that are offered as freshman or sophomore level courses at any of the three universities. Full lower division transfer credit will be granted for all courses equivalent to those specified for the freshman and sophomore years at any one of the three four-year state universities in Arizona. Professional business courses taught in the junior and senior years in the three state universities may not be completed for transfer credit at any community college. Courses taught as occupational or career classes at the community colleges, even though similar to professional courses offered at the junior and senior levels at the three universities, will not be accepted for credit toward a bachelor's degree. A one-semester course in business law will be accepted as an exception to this policy. A maximum of 30 credits of business and economics courses from community colleges may be transferred toward a bachelor's degree in business administration.

A. Required major courses:	21
ACC 211 Financial Accounting	3
ACC 212 Managerial Accounting.	3
BUA 220 Legal Environment of Business	3
ECN 240 Macroeconomics	3
ECN 250 Microeconomics.	3
MAT 172 Finite Mathematics.	3
QBA 211 Quantitative Analysis	3

B. Other departmental requirements:	3
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Select an elective course from the following prefixes
ACC, BUA, CIS, ECN, ENT, FIN, MGT, or MKT.

C. Arizona General Education Curriculum-Business (AGEC-B):	35
Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 212 Brief Calculus or approved higher level math).	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Computer Information Systems (CIS 120	
Computer Information Systems or	
CIS 105 Business Information Systems	3
Additional Courses (see the AGEC-B Additional Courses list for possible selections)	3
D. General electives:	5
Total credits required for degree:	64

Carpentry

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.CARP

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in carpentry that will prepare them to obtain an entry level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides graduates with the essential skills required of an entry level employee in the carpentry industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

A. Required major courses:	17
CTM 100 Core Curriculum Introductory Craft Skills	5
CTM 105 Blueprint Reading for Construction	3
CTM 123 Building Construction Methods 1	3

CTM 124 Building Construction Methods 2 3
CTM 224 Concrete and Concrete Form Systems 3

B. Other departmental requirements: 24

ACR 101 Air Conditioning and Refrigeration 1 3
CTM 110 Construction Estimating 3
CTM 230 Construction Management
 Field Operations 3
DFT 185 Introduction to Computer Aided Drafting 3
ECT 105 Basic Electricity. 3
ENT 240 Business Plan Development. 3
TEC 165 Employee and Occupational Safety. 3
WLD 106 Techniques in Shielded Metal Arc 3

C. General education requirements: 21

English Composition (ENG 100, 101 or 102). 6
Mathematics (MAT 105 College Mathematics for Applied Sciences or approved higher level math). 3
Arts and Humanities 3
Social and Behavioral Sciences. 3
Physical and Biological Sciences. 4
Additional Courses 2

D. General electives: 2

Total credits required for degree: 64

Carpentry

Certificate

Major Code: CERT.CARPT

Contact: Career and Technical Education Division
 (928) 344-7567

Program Purpose: Program completers will obtain knowledge and experience in residential construction with emphasis on Carpentry.

Program Description: The certificate in carpentry prepares the student for an entry level position in the construction industry. This program provides opportunities for students to learn construction technology used to erect, install and repair structures with modern construction materials and techniques. This program focuses on blueprint reading, construction project estimating, and safety practices.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 17

CTM 100 Core Curriculum Introductory Craft Skills 5
CTM 105 Blueprint Reading for Construction 3
CTM 123 Building Construction Methods 1 3
CTM 124 Building Construction Methods 2 3
CTM 224 Concrete and Concrete Form Systems 3

B. Other departmental requirements: 15

ACR 101 Air Conditioning and Refrigeration 1 3
DFT 185 Introduction to Computer Aided Drafting 3
ECT 105 Basic Electricity. 3
TEC 165 Employee and Occupational Safety. 3
WLD 106 Techniques in Shielded Metal Arc 3

Total credits required for certificate: 32

Chemistry

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CHEMI

Contact: Science Division (928) 344-7656
 (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in chemistry that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is designed for those students pursuing a career in chemistry or in a related field for which chemistry is an integral part.

A. Required major courses: 17

CHM 151 General Chemistry I 4
CHM 152 General Chemistry II 4
CHM 235 Organic Chemistry I. 5
CHM 236 Organic Chemistry II 4

B. Other departmental requirements: 8

MAT 230 Calculus II with Analytic Geometry. 5
MAT 262 Introduction to Ordinary Differential Equations 3

C. Arizona General Education Curriculum-Science (AGEC-S): 37

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math).	5
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences (PHY 121 and 131 Mechanics and Electricity and Magnetism)	8
Additional Courses (see the AGEC-S Additional Courses list for possible selections).	6-8

D. General electives: 2

Total credits required for degree: 64

Civil Engineering Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.CET

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate knowledge in drafting and surveying that will prepare them to obtain an entry-level position within the field.

Program Description: The content for this program is developed to meet the needs for job entry-level skills as identified by educators and the American Industry, including manufacturing and construction. This program offers students flexibility in meeting career objectives by sequencing required courses in four semesters. The software selected for CAD offers great versatility for job entry-level skill development and can duplicate many CAD software programs in use today.

A. Required major courses: 35

CET 102 Construction Surveying	5
CET 123 Plane Surveying	5
CET 201 Boundary Control and Legal Principles . . .	3
CET 250 Public Land Surveying Systems.	3
DFT 182 Construction Graphics-Drafting	5
DFT 185 Introduction to Computer Aided Drafting	3
DFT 186 Computer Aided Drafting 2	3
DFT 187 Introduction to ArcGIS.	1
DFT 191 Civil Drafting	3
DFT 201 Construction Graphics 1	4

B. Other departmental requirements: 6

ENG 110 Technical Writing 3

TEC 165 Employee and Occupational Safety. 3

C. General education requirements: 21

Freshman Composition (ENG 100, 101 or 102) . . . 6

Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math). . . 3

Arts and Humanities 3

Social and Behavioral Sciences. 3

Physical and Biological Sciences. 4

Additional Courses 2

D. General electives: 2

Total credits required for degree: 64

Community Health Worker

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.COMHW

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge of professional skills required for community health advocacy (promotores) and (2) appropriate application of skills (3) competency in communication, critical thinking, ethical decision making, and a comprehensive skill base with a foundation of the sciences (4) fundamental concepts for working effectively in the health care environment.

Program Description: This program is designed to provide students with the essential skills to become a community health worker, also known as a Promotora/o. The curriculum focuses on integration of the physical, emotional, and spiritual aspects of the individual while providing the philosophical foundation and technical skills required. Students will learn to build individual and community capacity by increasing health knowledge and self sufficiency through outreach, education, informal counseling, social support and advocacy. Students are prepared for frontline community health work serving as liaisons between health/social services and the community.

Program Requirements: Students must (1) attend orientation prior to the first day of classes (2) meet health and safety standards for dedicated on-site

personnel to complete field service experience in hospitals, clinics, professional healthcare facilities and community settings.

A Community Health Worker Program application must be submitted prior to acceptance into this program.

A. Required major courses:	20
CHW 101 Introduction to Community Health Advocacy	1
CHW 106 Healthy Living	3
CHW 110 Community Health Worker Fund. 1	3
CHW 120 Preparation for Field Experience	3
CHW 210 Community Health Worker Fund. 2	3
CHW 220 Field Experience	3
CHW 230 Health Services	4
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B. Arizona General Education Curriculum-Arts (AGEC-A):	35
Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . .	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECA Additional Courses list for possible selections)	6
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C. General electives:	9
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Total credits required for degree:	64

Community Health Worker

Certificate

Major Code: CERT.COMHW

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge of professional skills required for community health advocacy (promotores) and (2) appropriate application of skills (3) competency in communication, critical thinking, ethical decision making, and a comprehensive skill base with a foundation of the sciences (4) fundamental concepts for working effectively in the health care environment.

Program Description: This program is designed to provide students with the essential skills to become a community health worker, also known as a Promotora/o. The curriculum focuses on integration of the physical, emotional, and spiritual aspects of the individual while providing the philosophical foundation and technical skills required. Students will learn to build individual and community capacity by increasing health knowledge and self sufficiency through outreach, education, informal counseling, social support and advocacy. Students are prepared for frontline community health work serving as liaisons between health/social services and the community.

Program Requirements: Students must (1) attend orientation prior to the first day of classes (2) meet health and safety standards for dedicated on-site personnel to complete field service experience in hospitals, clinics, professional healthcare facilities and community settings.

A Community Health Worker Program application must be submitted prior to acceptance into this program.

A. Required major courses:	20
CHW 101 Introduction to Community Health Advocacy	1
CHW 106 Healthy Living	3
CHW 110 Community Health Worker Fund. 1	3
CHW 120 Preparation for Field Experience	3
CHW 210 Community Health Worker Fund. 2	3
CHW 220 Field Experience	3
CHW 230 Health Services	4

Total credits required for degree:

Computed Tomography

Certificate

Major Code: CERT.RADCT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: The Computed Tomography (CT) certificate will provide technologists with the opportunity to learn CT Imaging Technology, to gain practical clinical skills and to be prepared academically to sit for the American Registry of Radiologic Technologists (ARRT) CT Registry Examination.

CT Certificate completers will enhance their job opportunities and become eligible to work with hybrid imaging systems that include CT such as PET/CT or SPECT/CT.

Program Description: This certificate is appropriate for technologists wishing to enter the field of CT imaging who have no previous CT experience as well as technologists who have worked in CT without extensive formal training. It allows them to meet the new requirements for ARRT Certification, clinical practice for documentation of 125 exams and 16 hours of structured educational classes.

Program Requirements: Must be American Registry of Radiologic Technologists (ARRT) Certified in Radiologic Technology

A. Required major courses: 25

- RCT 230 Introduction to Computed Tomography (CT) . 2
- RCT 231 Computed Tomography Clinical 1 3
- RCT 232 Physics of Computed Tomography(CT) . . . 3
- RCT 233 Computed Tomography (CT) Positioning
Protocols and Contrast Media 4
- RCT 234 Computed Tomography Clinical 2 3
- RCT 235 Cross Sectional Anatomy 3
- RCT 236 Cardiac CT, Planar and
Volumetric Post Processing 4
- RCT 237 Computed Tomography Clinical 3 3

Total credits required for degree: 25

Computer Graphics

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.COMGR

Contact: Fine Arts Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in computer graphics that will prepare them to obtain an entry-level position within the field of computer graphics, printing, and digital imaging and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: The program is designed to provide the underpinning graphics training needed for a wide variety of graphics professions: graphic designers, illustrators, desktop publishing specialists, production artists, multimedia specialists, digital photographers, computer artists, and web designers.

This program focuses on both industry standard software training and design theory.

A. Required major courses: 43

- GRA 101 Graphic Communications 1 4
- GRA 102 Graphic Communications 2 4
- GRA 103 Computer Illustration 4
- GRA 104 Digital Imaging 1 4
- GRA 105 Digital Imaging 2 4
- GRA 106 Page Composition 3
- GRA 201 Interactivity and Graphics 3
- GRA 202 Advanced Interactivity and Graphics . . . 3
- GRA 203 3-D Modeling and Surfacing 4
- GRA 204 Advanced 3-D Graphics 4
- GRA 205 Principles of Animation 3
- GRA 206 Portfolio and Career Management. 3

B. Other departmental requirements: 0

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102) 6
- Mathematics (MAT 105 Mathematics for the
Applied Sciences or approved higher level math). . . 3
- Arts and Humanities 3
- Social and Behavioral Sciences. 3
- Physical and Biological Sciences. 4
- Additional Courses 2

D. General electives: 0

Total credits required for degree: 64

Computer Information Systems

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.CISYS

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in computer information systems that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is for students pursuing a two-year degree with the intent of eventual

employment in the computer industry with aspirations of attaining the position of (1) computer programmer, (2) programmer/analyst, or with further study (3) computer systems analyst. Programmers are responsible for writing a detailed set of logically ordered instructions that tell the computer to perform the necessary tasks, in the correct sequence, to process data into useful information. Systems analysts are responsible for the analysis of existing systems and the design development and installation of new or redesigned systems that provide information necessary to successfully operate businesses and other organizations. Students receive sufficient background in business and accounting to seek entry-level employment in the information processing environment. This program articulates with the B.A.S. degree in Technology Management offered by NAU-Yuma Branch Campus.

A. Required major courses: 20

- CIS 131** Database. 3
- CIS 180** Computer Programming Logic 3
- CIS 200** Computer Programming: Visual BASIC. . . . 4
- CIS 220** Computer Programming: C#. 4
- CIS 260** Introduction to Operating Systems 3
- CIS 295** Structured Systems Analysis and Design. . . 3

B. Other departmental requirements: 21

a. Departmental requirements: 15

- ACC 211** Financial Accounting 3
- BUA 100** Survey of Business 3
- or**
- ECN 250** Microeconomics (*required for B.A.S.*)
- BUA 110** Business Application Concepts 3
- or**
- CIS 121** Spreadsheets (*required for B.A.S.*)
- CIS 120** Introduction to Computer Information Systems 3
- MAT 172** Finite Mathematics. 3

b. Departmental electives: CIS courses selected with the approval of departmental advisor 6

- CIS 170** Microcomputer Installation and Support (*required for B.A.S.*)
- CIS 270** Networking 1 (*required for B.A.S.*)

C. General education requirements: 22

- Freshman Composition (ENG 101 and 102) 6**

- Mathematics (MAT 151** College Algebra or approved higher level math). 4
- Arts and Humanities 3**
- Social and Behavioral Sciences (ECN 250** *see above*) 3
- Physical and Biological Sciences. 4**
- Additional Courses (CIS 120** *see above*). 2

D. General electives: 1

Total credits required for degree: 64

Computer Information Systems

Certificate

Major Code: CERT.CISYS

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in computer information systems that will prepare them to obtain an entry-level position within the field.

Program Description: This program is for students seeking immediate entry-level employment in an office environment or computer industry.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 12

- ACC 211** Financial Accounting 3
- BUA 100** Survey of Business 3
- BUA 110** Business Application Concepts 3
- CIS 120** Introduction to Computer Information Systems. 3

B. Other departmental requirements: 20

- CIS 180** Computer Programming Logic 3
- CIS 200** Computer Programming: Visual BASIC 4
- CIS 220** Computer Programming: C#. 4
- CIS 260** Introduction to Operating Systems 3
- CIS 295** Structured Systems Analysis and Design. . . 3
- CIS** Electives 3

Total credits required for certificate: 32

Computer Science

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CSCIE

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: This Associate of Science degree focuses on the theoretical foundations of computing, algorithms, and programming techniques, as applied to operating systems, artificial intelligence, informatics and the like.

Program Description: Focuses on computers, computing problems and solutions, the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, and computing theory; computer hardware design; computer development and programming; and applications to a variety of end-use situations.

A. Required major courses: 16

- CSC 127A** Introduction to Computer Science 1 4
- CSC 127B** Introduction to Computer Science 2 4
- EGR 123** Introduction to Structured Programming . 3
- MAT 230** Calculus II with Analytic Geometry. 5

B. Other departmental requirements: 11

- CIS 120** Introduction to Computer Information Systems. 3
- or**
- CIS 105** Introduction to Business Information Systems
- CIS 175** Computer Security. 4
- CSC 210** Human Computer Interaction. 4
- or**
- CSC 215** Artificial Intelligence

C. Arizona General Education Curriculum-Science (AGEC-S): 37

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 220** Calculus I with Analytic Geometry or approved higher level math). 5
- Arts and Humanities** (*Select at least one course from the Arts list and PHI 103 Introduction to Logic*). 6
- Social and Behavioral Sciences (ECN 250** Principles of Microeconomics and one additional course) 6

Physical and Biological Sciences (PHY 121 and 131 Mechanics and Electricity and Magnetism). 8

Additional Courses (CHM 151 General Chemistry I and one additional course). 6

D. General electives: 0

Total credits required for degree: 64

Computer Security

Certificate

Major Code: CERT.COMSE

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Development and guidance for increased secure IT planning, implementation, management and operation.

Program Description: Increase awareness of Information Technology risks, vulnerabilities, and protection requirements for new and emerging technologies.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 20

- CIS 120** Introduction to Computer Information Systems. 3
- CIS 175** Computer Security. 4
- CIS 180** Computer Programming Logic 3
- CIS 260** Introduction to Operating Systems 3
- CIS 275** Network Security 4
- CIS 276** Information Systems Security. 3

Total credits required for certificate: 20

Construction/Industrial Safety

Certificate

Major Code: CERT.CIST

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Certificate will allow completers to enhance employment or seek new employment in

the construction industry as a person responsible for site safety.

Program Description: A course of study in regulatory safety requirements associated with construction and industrial site management. Course includes individual body of knowledge required for employment in the construction and industrial work place. Emphasis will be on interpretation, implementation and documentation of required job site safety procedures.

A. Required major courses: 11

TEC 100 Core Curriculum Introductory Craft Skills . . 5

TEC 165 Employee and Occupational Safety 1 3

TEC 175 Employee and Occupational Safety 2 3

Total credits required for degree: 11

Construction Trades Management

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.CTM

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in the construction trades field which will prepare them to obtain an entry-level position in the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Provides graduates with the essential skills required of an entry level employee in the construction trades industry. This program is certified with the National Association of Home Builders through the Home Builders Institute and encompasses the National Skills Standards for the Construction Trades.

A. Required major courses: 20

CTM 100 Core Curriculum Introductory Craft Skills . 5

CTM 105 Blueprint Reading for Construction 3

CTM 110 Construction Estimating 3

CTM 123 Building Construction Methods 1 3

CTM 124 Building Construction Methods 2 3

CTM 230 Construction Management
 Field Operations 3

B. Other departmental requirements: 20

ACR 101 Air Conditioning and Refrigeration 1 3

DFT 182 Construction Graphics-Drafting 5

DFT 185 Introduction to Computer Aided Drafting . 3

ECT 105 Basic Electricity. 3

ECT 115 National Electrical Code 3

TEC 165 Employee and Occupational Safety. 3

C. General education requirements: 21

English Composition (ENG 101 and 102) 6

Mathematics (MAT 105 College Mathematics for Applied Sciences or approved higher level math). . . 3

Arts and Humanities 3

Social and Behavioral Sciences. 3

Physical and Biological Sciences. 4

Additional Courses 2

D. General electives: 3

Total credits required for degree: 64

Crop Production

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CRPRO

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in agricultural science that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students preparing for transfer to a four-year college of agriculture will find the necessary required courses in agriculture, science, mathematics, and related subject areas available to them and will be advised by the agriculture faculty. This program articulates with the B.S. in Crop Production offered by The University of Arizona, Tucson and Yuma campus.

A. Required major courses: 4

PLS 211 Soils. 4

B. Other departmental requirements: 10

Take at least 10 credits from one of the following tracks:

Track 1

- AGS 110 Introduction to Food Safety
- AGS 200 Food Safety Practices and Management
- AGS 220 Food Safety in Facilities
- AGS 240 Environmental Effects on Food Safety
- AGS 296 Agricultural Internship
- CIS 120 Computer Information Systems

Track 2

- AGS 296 Agricultural Internship
- CIS 120 Computer Information Systems
- GPH 187 Introduction to ArcGIS
- PLS 290 Vegetable Crop Production
- PLS 200 Introduction to Integrated Pest Management
- PLS 230 Basic Crop Fertility

Track 3

- AGS 296 Agricultural Internship
- CIS 120 Computer Information Systems
- GPH 187 Introduction to ArcGIS
- PLS 122 Principles of Ornamental Horticulture
- PLS 240 Plant Propagation
- PLS 270 Turfgrass Management

C. Arizona General Education Curriculum-Science (AGEC-S): 39

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 220) Calculus I with Analytic Geometry or approved higher level math . . . 5
- Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences 6
(ECN 250 Microeconomics suggested)
- Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II) 8
- Additional Courses (PLS 100 Plant Science and one additional course from the AGEC-S Additional Courses list. GLG 101 Introduction to Geology 1 or BIO 205 Microbiology recommended) 8

D. General electives: 11

- (MAT 270 Applied Statistics, PHY 111 College Physics I, or CHM 235 Organic Chemistry I recommended)

Total credits required for degree: 64

Culinary Arts

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.CULAR

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate advanced knowledge in Culinary Arts which will prepare them for a position within the food service industry.

Program Description: Students will develop more advanced skills necessary to compete for a position in a restaurant, school, hospital, or nursing facility. In addition, the student would be capable of pursuing the option of developing a restaurant, catering business or personal chef career. Students will be required to obtain a ServSafe Managers card and become certified through the American Culinary Federation as a CC, (Certified Culinarian).

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 32

- CUL 140 Food Selection and Preparation 3
- CUL 143 Sanitation 1.5
- CUL 144 Menu Planning 1.5
- CUL 146 Production Kitchen 1 (Hot Foods) 4
- CUL 147 Production Kitchen 2 (Bakery/Pastry) 4
- CUL 148 Garde Manger/Dining Room 4
- CUL 149 Culinary Arts Field Experience 1
- CUL 246 Production Kitchen 3 (American Regional Cuisine) 4
- CUL 248 Production Kitchen 4 (International Cuisine) 4
- CUL 252 Catering—Planning and Production 2
- CUL 253 Food Costing, Purchasing and Inventory Control 3

B. Other departmental requirements: 12

- ENT 240 Business Plan Development 3
- HRM 100 Introduction to Hospitality 3
- MGT 250 Personnel Supervision 3
- NTR 139 Personal Nutrition 3
- or
- NTR 201 Nutrition

C. General education requirements: 21

- English Composition (ENG 100, 101 or 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3

Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: 0

Total credits required for degree: 65

Culinary Arts

Certificate

Major Code: CERT.CULAR

Contact: Career and Technical Education Division
(928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in culinary arts that will prepare them to obtain an entry-level position within the field.

Program Description: Designed to prepare the student for a career in food service in the following areas: restaurants, resorts, catering, hospitals, cruise ships, television shows, and food processing companies. Students will develop creative food preparation and presentation. Volunteer placement is available for students who wish to continue training before entering the job market.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 25

CUL 140 Food Selection and Preparation.	3
CUL 143 Sanitation.	1.5
CUL 144 Menu Planning.	1.5
CUL 146 Production Kitchen 1 (Hot Foods).	4
CUL 147 Production Kitchen 2 (Bakery/Pastry).	4
CUL 148 Garde Manger/Dining Room	4
CUL 149 Culinary Arts Field Experience	1
MGT 250 Personnel Supervision	3
NTR 139 Personal Nutrition.	3
or	
NTR 201 Nutrition	

Total credits required for certificate: 25

Culinary Arts with a Focus in Entrepreneurship

Certificate

Major Code: CERT.CAENT

Contact: Career and Technical Education Division
(928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in culinary arts and good business practices that will enable them to operate their own catering business.

Program Description: Designed to prepare the student to operate and manage their own catering business by developing skills in creating an effective business plan, conducting market research, determining the target market and developing a marketing strategy as well as developing skills in food preparation and plate and buffet presentation.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 25

CUL 140 Food Selection and Preparation.	3
CUL 143 Sanitation.	1.5
CUL 144 Menu Planning	1.5
CUL 146 Production Kitchen 1 (Hot Foods).	4
CUL 147 Production Kitchen 2 (Bakery/Pastry).	4
CUL 148 Garde Manger/Dining Room	4
CUL 149 Culinary Arts Field Experience	1
MGT 250 Personnel Supervision	3
NTR 139 Nutrition	3
or	
NTR 201 Nutrition	

B. Other departmental requirements: 9

ENT 100 Introduction to Entrepreneurship	3
ENT 220 Marketing the Entrepreneurial Venture	3
ENT 240 Business Plan Development.	3

Total credits required for certificate: 34

Customs and Border Protection Homeland Security

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.HLSPR

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: The purpose of the program is to meet the needs of the United States Department of Homeland Security (Customs and Border Protection). It is to encourage federal law enforcement officers to seek a degree in their field which will assist them in pursuing promotional opportunities within the Department of Homeland Security.

Program Description: The homeland security construct has become a large, complex, and dynamic enterprise consisting of multiple professions, skill sets, and expertise. The degree in homeland security is to assist the individual officer in understanding the constant innovation and unrelenting evolution of homeland security as well as the threats facing the nation. The degree will also assist the individual in their professional endeavors in their chosen field.

A. Required major courses: 27

- AJS 101 Introduction to Administration of Justice . . 3
- AJS 201 Crime Control Policies and Procedures . . . 3
- AJS 220 Spanish for Law Enforcement 3
- AJS 225 Criminology 3
- HLS 101 Introduction to Homeland Security 3
- HLS 109 Federal Law 3
- HLS 205 Report Writing 3
- HLS 230 Federal Law Enforcement 3
- HLS 260 Federal Procedure. 3

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6
(ARH 141 Survey of World Art and
PHI 105 Introduction to Ethics recommended)

Social and Behavioral Sciences (SOC 101
Introduction to Sociology and **FAS 238/PSY 238**
Human Development recommended) 7

Physical and Biological Sciences (GPH 171
Introduction to Meteorology and **ENV 101**
Environmental Science recommended). 8

Additional Courses (CIS 120 Introduction
to Computer Information Systems and
SPC 215 Public Speaking recommended) 6

D. General electives: 2

Total credits required for degree: 64

Dietetics

Certificate

Major Code: CERT.DIETP

Contact: Career and Technical Education Division
(928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in dietetics that will prepare them to obtain an entry-level position within the field. This coursework will also prepare the students for majoring in dietetics at the universities.

Program Description: Students enrolling in the program will develop basic skills to function in the dietary services of health care institutions, schools, correctional institutions, as well as the commercial food service industry.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 9

- CUL 140 Food Selection and Preparation 3
- CUL 143 Sanitation. 1.5
- CUL 144 Menu Planning 1.5
- NTR 201 Nutrition 3

B. Other departmental requirements: 6

- BUA 109 Principles of Human Relations 3
- MGT 250 Personnel Supervision 3

Total credits required for certificate: 15

Drafting CAD Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.DFT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate (1) knowledge and ability in the use of computer assisted drafting (CAD) technology which will prepare them to obtain an entry-level position in the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program prepares graduates for an entry-level position in the career field of drafting through instruction in the use of industry recognized drafting technologies. The content for this program is developed with support from an industry advisory committee to allow students the opportunity to gain work force entry-level skills. This program offers students to meet career objectives by focusing on standards, drafting practices and skill development in the use of computer assisted drafting (CAD).

A. Required major courses:	39
DFT 100 AutoCAD 1 - Drafting	3
DFT 102 AutoCAD 2 - Drafting 2	4
DFT 106 Revit 1 Intro. to Revit Modeling - Drafting	4
DFT 107 Revit 2 Revit Modeling - Drafting	4
DFT 201 Construction Graphics 1	4
DFT 202 Construction Graphics 2	4
DFT 203 AutoCAD 3 - Drafting 3	4
DFT 204 AutoCAD 4 - Drafting 4	4
DFT 208 Revit 3 Revit MEP (Mechanical, Electrical, Plumbing) - Drafting	4
DFT 209 Revit 4 Revit Structural - Drafting	4
B. Other departmental requirements:	3
CIS 120 Introduction to Computer Information Systems	3
C. General education requirements:	21
English Composition (ENG 100, 101 or 102)	6
Mathematics MAT 105 College Mathematics for Applied Sciences or approved higher level math).	3
Arts and Humanities	3

Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives:	1
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Total credits required for degree:	64
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Drafting CAD Technology

Certificate

Major Code: CERT.DFT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate (1) knowledge and ability in the use of computer assisted drafting (CAD) technology which will prepare them to obtain an entry-level position in the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program prepares graduates for an entry-level position in the career field of drafting through instruction in the use of industry recognized drafting technologies. The content for this program is developed with support from an industry advisory committee to allow students the opportunity to gain work force entry-level skills. This program offers students to meet career objectives by focusing on standards, drafting practices and skill development in the use of computer assisted drafting (CAD).

A. Required major courses:	39
DFT 100 AutoCAD 1 - Drafting	3
DFT 102 AutoCAD 2 - Drafting 2	4
DFT 106 Revit 1 Intro. to Revit Modeling - Drafting	4
DFT 107 Revit 2 Revit Modeling - Drafting	4
DFT 201 Construction Graphics 1	4
DFT 202 Construction Graphics 2	4
DFT 203 AutoCAD 3 - Drafting 3	4
DFT 204 AutoCAD 4 - Drafting 4	4
DFT 208 Revit 3 Revit MEP (Mechanical, Electrical, Plumbing) - Drafting	4
DFT 209 Revit 4 Revit Structural - Drafting	4
Total credits required for certificate	39

Early Childhood Education

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.ECE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: The early childhood programs at Arizona Western College prepare students from Yuma and La Paz counties to work effectively with children and families and promote life-long learning.

Program Outcomes:

- Knowing and understanding young children's characteristics and needs, from birth through age 8; knowing and understanding the multiple influences on early development and learning; and using developmental knowledge to create healthy, respectful, supportive and challenging learning environments for young children.
- Knowing about and understanding diverse family and community characteristics; supporting and engaging families and communities through respectful, reciprocal relationships; and involving families and communities in young children's development and learning.
- Identify the reasons for assessing children's development; integrate families and co-workers in documenting children's progress; assess Children's development, behavior and knowledge through observation; and collect other forms of documentation to assess children's competency.
- Use both physical and emotional security for each child in order to promote self esteem; organize the classroom environment to promote social interaction; prepare an environment for children that will enhance and sustain good communication; demonstrate practices that enable children to learn and know appropriate behavior; and practice respect at all times to children, co-workers and families.
- Demonstrate developmentally appropriate practice; construct positive relationships and supportive interactions as a foundation for work with children; identify and organize content areas for young children's learning; and assemble resources to design, implement and evaluate meaningful, challenging curriculum that promotes comprehensive learning outcomes for all children.
- Define ethical guidelines and other professional standards related to ECE; determine what is an early childhood professional; identify the requirements of an informed advocate for sound early childhood practice and policy; practice continuous collaborative learning; demonstrate knowledgeable, reflective, and critical perspectives of work with children.

A. Required major courses: 42

ECE 165 Health, Safety, and Nutrition for the Young Child. 3

or the following three courses:

ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program

ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program

ECE 111 Nutrition

ECE 166 Early Childhood Field Experience 1 1

ECE 200 Early Childhood Education 3

ECE 205 Home, School and Community Relations. . 3

ECE 206 Early Childhood Field Experience 2 1

ECE 208 Guiding Children's Behavior. 3

ECE 210 Activities of Early Childhood Education. . . 3

ECE 211 Early Childhood Field Experience 3 1

ECE 243 Early Childhood Development 3

ECE 245 Early Childhood Special Education. 3

ECE 250 Language and Literacy Development 3

ECE 260 Techniques for Observing/
Assessing Children 3

ECE 265 Children's Literature 3

ECE 270 Early Childhood Internship. 4

Electives (ECE 202 and ECE 246 recommended) . . . 5

B. Other departmental requirements: 0

C. General education requirements: 22

English Composition (ENG 100, 101, or 102) 6

Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math). . . 3

Arts and Humanities 3

Social and Behavioral Sciences
(ECE 240 Child Growth and Development) 3

Physical and Biological Sciences. 4

Additional Courses (SPC 215 Public Speaking). . . . 3

D. General electives: 0

Total credits required for degree: 64

Early Childhood Education

Certificate

Major Code: CERT.ECE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate a basic knowledge in early childhood education.

Program Description: For students who wish to have basic knowledge in early childhood education. The certificate can work with an existing degree in another area of education or related fields.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 22

ECE 165 Health, Safety, and Nutrition for the Young Child. 3

or the following three courses:

ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program

ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program

ECE 111 Nutrition

ECE 166 Early Childhood Field Experience 1 1

ECE 200 Early Childhood Education 3

ECE 205 Home, School and Community Relations. . 3

ECE 206 Early Childhood Field Experience 2 1

ECE 210 Activities of Early Childhood Education. . . 3

ECE 211 Early Childhood Field Experience 3 1

ECE 212 Early Childhood Certificate Capstone 1

ECE 243 Early Childhood Development 3

ECE 245 Early Childhood Special Education 3

Total credits required for certificate: 22

Early Childhood Education— Child Development Credential (CDA) Preparation

Contact: Social Sciences Division—
Early Childhood Education (928) 344-7790

The following certificates provide prescribed training towards a Child Development Credential (CDA):

- Family Childcare Education
- Infant and Toddler Education
- Preschool Education

The certificates can be completed without the necessity to apply for and or receive the CDA credential. It is mandatory that enrolled students have an appropriate work-site available for the completion of credits. There is a fee for each CDA course including ECE 143 Resource File and ECE 145 CDA Student Teaching-Vocational. In order to apply for the CDA credential students will need to complete ECE 143 and ECE 145.

Courses in these certificates are open entry/open exit and can be taught individually and as credit/no credit for informational purposes. Go to www.azwestern.edu/schedule to find out which courses are available.

Family Childcare Education

Certificate

Major Code: CERT.FACHE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in family childcare education that will prepare them to obtain an entry-level position within the field.

Program Description: This program is designed for those individuals who wish to earn a Child Development Associate (CDA) credential in Family Childcare Education. The CDA training program follows the prescribed criteria set forth by the Council of Professional Recognition based in Washington, D.C. The CDA competencies for this program are as follows: (1) to establish and maintain a safe, healthy learning environment, (2) to advance physical and intellectual competence, (3) to support social and emotional development and to provide positive guidance, (4) to establish positive and productive relationships with families, (5) to ensure a well-run, purposeful program responsive to participant needs, and (6) to maintain a commitment to professionalism.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 23

ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program . . 1

ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program . . .	1
ECE 104 Planned Arrangements and Schedules . . .	1
ECE 105 Techniques for Observing Children.	1
ECE 106 Building Relationships with Parents.	1
ECE 107 The Child's Total Learning Environment. . .	1
ECE 108 Guidance Principles	1
ECE 111 Nutrition	1
ECE 117 Multicultural and Anti-Bias Curriculum . . .	1
ECE 121 Sciencing and Discovery	1
ECE 124 Creative Media.	1
ECE 126 Blocks	1
ECE 128 Music and Creative Movement.	1
ECE 129 Emerging Literacy.	1
ECE 130 Cognitive Development	1
ECE 134 Language Development of Infants and Toddlers	1
ECE 137 Enhancing Social Competence of Infants and Toddlers	1
ECE 146 Family Childcare as a Small Business	1
ECE 148 Recordkeeping for the Family Child Care Provider.	1
ECE 151 Ages and Stages: Preschool-Infancy	1
ECE 152 Ages and Stages: Toddlerhood	1
ECE 153 Ages and Stages: The Preschool Years . . .	1
ECE 154 Ages and Stages: The Middle Years	1

Total credits required for certificate: **23**

Infant and Toddler Education

Certificate

Major Code: CERT.INTOE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in infant and toddler education that will prepare them to obtain an entry-level position within the field.

Program Description: This program is designed for those individuals who wish to earn a Child Development Associate (CDA) credential in Infant and Toddler Education. The CDA training program follows the prescribed criteria set forth by the Council of Professional Recognition based in Washington, D.C. The CDA competencies for this program are as follows: (1) to establish and maintain a safe, healthy learning environment, (2) to advance physical and

intellectual competence, (3) to support social and emotional development and to provide positive guidance, (4) to establish positive and productive relationships with families, (5) to ensure a well-run, purposeful program responsive to participant needs, and (6) to maintain a commitment to professionalism.

A. Required major courses: **17**

ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program.	1
ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program.	1
ECE 106 Building Relationships with Parents.	1
ECE 109 Enhancing Family Involvement.	1
ECE 111 Nutrition	1
ECE 117 Multicultural and Anti-Bias Curriculum . . .	1
ECE 130 Cognitive Development	1
ECE 133 Developing Observation Skills: Infant/Toddler Program	1
ECE 134 Language Development of Infants and Toddlers	1
ECE 135 Guidance and Discipline for Infants and Toddlers	1
ECE 136 Physical Development in Infancy.	1
ECE 137 Enhancing Social Competence of Infants and Toddlers	1
ECE 138 Encouraging Trust and Autonomy Leading to the Development of Positive Self Concept of Infants and Toddlers	1
ECE 139 Organization of Space, Materials, and Equipment for Infants and Toddlers	1
ECE 141 Physical Development in Toddlerhood . . .	1
ECE 142 Recordkeeping Skills for Daily Infant/Toddler Care Programs	1
ECE 152 Ages and Stages: Toddlerhood	1

Total credits required for certificate: **17**

Preschool Education

Certificate

Major Code: CERT.PRSCE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in child development that will prepare them for a national credential and to obtain an entry-level position within the field.

Program Description: This is a highly individualized,

competency-based program taught primarily on-site in early childhood settings where students are working with children. The courses are organized around the competencies adopted by the CDA National Credentialing Program. Employment in this area is expected to rise as Head Start and other day care providers are requiring the CDA credential. This program is "open entry/open exit," therefore, students may be enrolled at any time. All courses require permission of instructor. Students, in consultation with the Director of Early Childhood Programs, develop the program of study that prepares for the national credential process. Additional modules may be required to demonstrate competency before a student is scheduled for the assessment process. Students will undergo a background and fingerprint check before entering any of the laboratory courses.

A. Required major courses: 17

- ECE 101** Providing a Healthy Environment for Children in an Early Childhood Program. 1
- ECE 103** Ensuring a Safe Environment for Children in an Early Childhood Program. 1
- ECE 104** Planned Arrangements and Schedules . . . 1
- ECE 105** Techniques for Observing Children. 1
- ECE 106** Building Relationships with Parents. 1
- ECE 107** The Child's Total Learning Environment. . . 1
- ECE 108** Guidance Principles 1
- ECE 111** Nutrition 1
- ECE 114** Understanding How Children Learn 1
- ECE 117** Multicultural and Anti-Bias Curriculum . . . 1
- ECE 121** Sciencing and Discovery 1
- or**
- ECE 126** Blocks
- ECE 122** Transitions 1
- ECE 123** Literature for Preschool Children 1
- or**
- ECE 129** Emerging Literacy
- ECE 124** Creative Media. 1
- ECE 125** Dramatic Play. 1
- ECE 128** Music and Creative Movement. 1
- ECE 153** Ages and Stages: The Preschool Years . . . 1

Total credits required for certificate: 17

Students in consultation with the coordinator of the CDA program may be required to enroll in additional modules to demonstrate competency for the national credential. Students desiring to articulate CDA training into a Child Development Certificate or Child Development A.A.S. must see a CDA advisor. Parents or other interested

parties may take any of these courses for no credit without a worksite and without the additional supervisory fee.

Additional Courses which may be required:

- ECE 109** Enhancing Family Involvement
- ECE 110** Fostering Communication and Language
- ECE 119** Enhancing a Positive Self-Concept
- ECE 120** Beginning Mathematical Concepts
- ECE 130** Cognitive Development
- ECE 133** Developing Observation Skills—Infant/Toddler Program
- ECE 134** Language Development of Infants and Toddlers
- ECE 135** Guidance and Discipline of Infants and Toddlers
- ECE 136** Physical Development in Infancy
- ECE 137** Enhancing Social Competence of Infants and Toddlers
- ECE 138** Encouraging Trust and Autonomy Leading to the Development of Positive Self Concept of Infants and Toddlers
- ECE 139** Organizing Space, Materials, and Equipment for Infants and Toddlers
- ECE 141** Physical Development in Toddlerhood
- ECE 142** Recordkeeping Skills for Daily Infant/Toddler Care Programs
- ECE 143** Resource File
- ECE 145** CDA Student Teaching- Vocational
- ECE 146** Family Child Care as a Small Business
- ECE 148** Recordkeeping for the Family Child Care Provider
- ECE 151** Ages and Stages: Preschool-Infancy
- ECE 152** Ages and Stages: Toddlerhood
- ECE 196** Child Care Management

Earth Systems Science

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.GLG

Contact: Science Division (928) 344-7656

Program Purpose: Earth Science is an interdisciplinary field offering opportunities to work on practical problems that are important for life as we know it on planet Earth. Because the Earth and its environment are all around us, job opportunities related to the Earth and our environment will always be plentiful. Top industries that hire earth scientists are engineering/surveying,

research, and education. Successful completion of the associates degree will result in a strong foundation in several key aspects of earth science, which prepare the student to continue on in the field to study geologic hazards, GIS, climate science, meteorology, oceanography, the environment, resource management, or any number of other related subfields.

Program Description: This program provides a dedicated path to an Earth Science degree that focuses more on the physical processes.

A. Required major courses: 21

- GLG 101** Introduction to Geology 1 (Physical) 4
- GLG 102** Introduction to Geology 2 (Historical). 4
- GPH 239** Introduction to Geographic Information Systems. 4
- MAT 230** Calculus II with Analytic Geometry. 5
- PHY 111** College Physics I 4

B. Other departmental requirements: 4

Select one of the following courses:

- BIO 181** General Biology (Majors) 1
- PHY 112** College Physics II

C. Arizona General Education Curriculum-Science (AGEC-S): 39

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 220** Calculus I with Analytic Geometry or approved higher level math). . . 5
- Arts and Humanities** 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences.** 6
- Physical and Biological Sciences (CHM 151 and 152** General Chemistry I and II). 8
- Additional Courses (GPH 213** Introduction to Climate Science and **OCN 110** Introduction to Oceanography). 8

D. General electives: 0

Total credits required for degree: 64

Education, Elementary

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.EDELM

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in education that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students planning to enter the field of elementary education may complete their first two years of study at AWC. It is recommended that education majors consult often with their Academic Advisors concerning the courses required for certification in Arizona and/or graduation from a state university with a bachelor's degree in education.

A. Required major courses: 25

- EDU 110** Introduction to Education 3
- EDU 207** Education Practicum. 1
- EDU 210** Cultural Diversity in Education. 3
- EDU 222** Introduction to Special Education 3
- EDU 275** Classroom Management. 3
- MAT 130** Math for Elementary Teachers 1. 3
- MAT 135** Math for Elementary Teachers 2. 3
- POS 221** Arizona Constitution and Government . . . 2
- POS 222** National Constitution and Government . . 1
- SEI 293** Structured English Immersion (SEI). 3

B. Other departmental requirements: 4

Any course with the prefix **ENG, HIS, or ECN 240**, or any lab science course; **ECE 265** may be taken with instructor approval.

History, economics and English courses must be chosen from courses other than required courses in this program. Courses cannot fulfill requirements in more than one category.

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities** 6

(Select one course from the Arts list and one of the following courses from the Humanities list: **ENG 190**, **ENG 231**, or **ENG 251**)

Social and Behavioral Sciences. 9

(**ECE 240**, **HIS 122** and one of the following courses: **GEO 105** or **HIS 121**)

Physical/Biological/Earth Sciences 8

Life Sciences: ENV 101

Physical Science: GLG 101

Additional Courses (SPC 215 Public Speaking). 3

D. General electives: 0

Total credits required for degree: 64

Education, Elementary

(*Early Childhood Education Emphasis*)

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.EDECE

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in early childhood education that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students planning to enter the field of education may complete their first two years of study at AWC. Students interested in working with children grade four and below, in an elementary setting, are encouraged to follow the prescribed and recommended lists of courses for certification in AZ and/or graduation from a state university with a degree in education.

A. Required major courses: 29

ECE 240 Child Growth and Development. 3

ECE 265 Children's Literature 3

EDU 110 Introduction to Education 3

EDU 210 Cultural Diversity in Education. 3

EDU 222 Introduction to Special Education 3

MAT 130 Math for Elementary Teachers I. 3

MAT 135 Math for Elementary Teachers II. 3

POS 221 Arizona Constitution and Government 2

POS 222 National Constitution and Government . . . 1

Electives in content areas** relevant to Arizona K–12 Academic Standards, including at least 3 credits in education (**EDU 275** recommended) 5

*You may take **POS 130** State and Local Politics for 3 credits instead of **POS 221** and **POS 110** American Politics for 3 credits instead of **POS 222**; the 3 credit courses are required for history and social studies content areas. Recommended courses are: **ECE 210** Activities of Early Childhood Education and **ECE 212** Child Development Internship.

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list—**ARH 141** or **142** recommended—and one course from the Humanities list.)

Social and Behavioral Sciences. 6

(**HIS 121** and/or **122** highly recommended—**PSY 101**, **GEO 105**, **ECN 240** or **250**, any **POS**, **FAS/PSY 238** also recommended.)

Physical/Biological/Earth Sciences 8

(Select one course from any two of the following tracks):

Life Sciences: BIO, ENV, PLS

Physical Sciences: GPH 110, PHY, CHM

Earth/Space Sciences: AST, GLG, Meteorology (**GPH 171**)

Additional Courses (see the AGEC-A Additional Courses list for possible selections—**CIS 120** recommended) 6

D. General electives: 0

Total credits required for degree: 64

Education (Secondary)

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.EDSEC

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in education that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students planning to enter the field of secondary education may complete their first two years of study at AWC. It is recommended that education majors consult often with their Academic Advisors concerning the courses required for certification in Arizona and/or graduation from a state university with a bachelor's degree in education. Secondary education students also need to "double major" in the discipline they wish to teach in high school.

A. Required major courses: 29

- EDU 110 Introduction to Education* 3
- EDU 210 Cultural Diversity in Education or
- EDU 222 Introduction to Special Education 3
- POS 221 Arizona Constitution and Government** . . 2
- POS 222 National Constitution and Government** . 1
- Teaching major and minor courses*** 20

*required by NAU

**You may take POS 130 State and Local Politics for 3 credits instead of POS 221 and POS 110 American Politics for 3 credits instead of POS 222; the 3 credit courses not only meet state certification requirements, but may also be applicable in the the AGEC Social and Behavioral Sciences category below.

***Note that, in addition to the education major which you will pursue at the university, you must also select a teaching major which you plan to teach in secondary school; a particular university may also require a minor; please consult your academic or faculty advisor for the selection of courses for the teaching major and/or minor and university program requirements of the university to which you wish to transfer.

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6
- Physical and Biological Sciences. 8
- Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 0

Total credits required for degree: 64

Electrical Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.ELECT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate a basic knowledge in residential electrical wiring required of an entry-level employee, and competency in communication, critical thinking, quantitative analysis and technological application.

Program Description: Provides graduates with essential skills required of an entry-level employee in the construction trades industry. This program encompasses the national skills standards for the construction trades.

A. Required major courses: 23

- ECT 100 Core Curriculum Introductory Craft Skills . . 5
- ECT 105 Basic Electricity. 3
- ECT 110 AC/DC Circuits. 4
- ECT 115 National Electrical Code 3
- ECT 205 Fixtures and Installation. 4
- ECT 210 Control Circuits. 4

B. Other departmental requirements: 21

- ACR 101 Air Conditioning and Refrigeration 1 3
- CTM 105 Blueprint Reading for Construction 3
- CTM 110 Construction Estimating 3
- CTM 230 Construction Management
Field Operations 3

DFT 185 Introduction to Computer Aided Drafting	3
ENT 240 Business Plan Development.	3
TEC 165 Employee and Occupational Safety.	3

C. General education requirements: 21

English Composition (ENG 100, 101 or 102).	6
Mathematics (MAT 105 College Mathematics for Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: 0

Total credits required for degree: 65

Electrical Technology

Certificate

Major Code: CERT.ECT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Provide program completers with greater knowledge and experience in residential construction with emphasis on electrical technology and competency in communication, critical thinking, quantitative analysis and technological application.

Program Description: Prepares students for an entry-level position in the construction trades industry. This program provides opportunities for students to learn to install, maintain, and repair electrical wiring, equipment, and fixtures in accordance with relevant codes. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 23

ECT 100 Core Curriculum Introductory Craft Skills	5
ECT 105 Basic Electricity.	3
ECT 110 AC/DC Circuits.	4

ECT 115 National Electrical Code	3
ECT 205 Fixtures and Installation.	4
ECT 210 Control Circuits.	4

B. Other departmental requirements: 9

ACR 101 Air Conditioning and Refrigeration 1	3
DFT 185 Introduction to Computer Aided Drafting	3
TEC 165 Employee and Occupational Safety.	3

Total credits required for certificate: 32

Emergency Medical Services: Paramedic

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.EMSPA

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in emergency medical services that will prepare them for employment as paramedics and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is offered for both professionals and community members. Emergency medical classes are available for everything from CPR and first aid to paramedic training. The program offers courses sanctioned by various agencies such as the Arizona Department of Health Services, the National Registry of Emergency Medical Technicians, the American Heart Association, and the National Safety Council. Students must maintain 80% or higher in each EMS course specified in the program in order to test for state and national certification. Criminal history self disclosure required.

A. Required major courses: 45

EMS 293 Paramedic Academy 1	15
EMS 294 Paramedic Academy 2	15
EMS 295 Paramedic Academy 3	15

B. Other departmental requirements: 0

C. General education requirements: 21

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: 0

Total credits required for degree: 66

Emergency Medical Services: Paramedic

Certificate

Major Code: CERT.EMSPA

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in emergency medical services that will prepare them for employment as paramedics.

Program Description: This program is offered for both professionals and community members. Emergency medical classes are available for everything from CPR and first aid to paramedic training. The program offers courses sanctioned by various agencies such as the Arizona Department of Health Services, the National Registry of Emergency Medical Technicians, the American Heart Association, and the National Safety Council. Students must maintain 80% or higher in each EMS course specified in the program in order to test for state and national certification. Criminal history self disclosure required.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 45

EMS 293 Paramedic Academy 1	15
EMS 294 Paramedic Academy 2	15
EMS 295 Paramedic Academy 3	15

Total credits required for certificate: 45

Emergency Medical Technician: Basic

Certificate

Major Code: CERT.EMSBA

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in emergency medical services that will prepare them for employment as technicians.

Program Description: Designed to prepare individuals for certification as Emergency Medical Technicians (EMTs). Upon successful completion of EMS 152, the student is eligible to take the EMT examination and to apply to the Arizona Department of Health Services, Office of Emergency Medical Services for certification as an EMT. Criminal history self disclosure required.

A. Required major course:

EMS 152 Basic Emergency Medical Technology	12
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Total credits required for certificate: 12

Engineering

Associate in Science (A.S.) degree

Pathway: TG/XR

Major Code: AS.ENGIN

Contact: Mathematics Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in engineering that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program prepares students for a wide variety of engineering majors at the university. Students should work closely with an Academic Advisor in their choice of courses as they consider which engineering specialty best fits their career goals.

A. Required major courses: 8

EGR 123 Introduction to Structured Programming.	3
EGR 188 Fundamentals of Engineering Design.	5

B. Other departmental requirements: **13**

MAT 230 Calculus II with Analytic Geometry. 5

MAT 241 Calculus III with Analytic Geometry 4

PHY 131 Electricity and Magnetism 4

C. Arizona General Education Curriculum-Science (AGEC-S): **38**

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math). . . 5

Arts and Humanities 6

Social and Behavioral Sciences. 6

(ECN 250 Principles of Microeconomics and one additional course from the Social and Behavioral list.)

Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II). 8

Additional Courses (MAT 262 Introduction to Ordinary Differential Equations and **PHY 121** Mechanics). 6–8

D. General electives: **7**

SIE 270 and **SIE 277** are recommended

Total credits required for degree: **66**

English

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.ENGLI

Contact: Communications Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in English that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: Provides the university parallel courses to develop proficiency in written composition and informed appreciation of literature necessary for an English major’s success in upper division courses. A major in English provides an excellent background for a profession in education, writing, law, business, or library science.

The program for an English major is flexible and allows for general electives appropriate to the particular educational objective of the student. An advisor from the English department will help each student

with program design. However, it is the responsibility of the student to check with the four year college/university he/she plans to attend regarding specific program requirements.

A. Required major courses: **6**

ENG 241 English Literature to 1800 3

ENG 242 English Literature 1800 to Present 3

B. Other departmental requirements: **9**

 One course in literature, creative writing, or journalism, numbered 125–299

 One course in literature numbered 170–290

 One course in literature numbered 200–290

C. Arizona General Education Curriculum-Arts (AGEC-A): **35**

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: **14**

Total credits required for degree: **64**

English as a Second Language

Course Cluster

Contact: Modern Languages Division (928) 344-7591

Purpose: The English as a Second Language course cluster is designed for students who (1) are literate non-native speakers of English and (2) have English language skills that would make it difficult to function in a college-level environment. The course cluster will assist students to achieve self-determined language acquisition goals including:

- degree/certificate completion
- employment
- employment mobility
- personal goals

ESL faculty recommend appropriate entry levels of instruction for incoming students based upon placement tests and recommend promotion through the levels based upon progress tests. Students may not select ESL courses without placement testing and/or faculty evaluation and recommendation.

Description: The ESL program at AWC consists of courses that emphasize three areas of language study:

(1) listening and speaking, (2) structure (grammar), and (3) reading and writing. It is recommended that these courses be taken concurrently. The courses are taught in English using techniques to make the information understandable to new language students.

(1) **Listening and Speaking** courses give students an introduction to and experience in listening to authentic sources of English. Students learn and apply a variety of techniques designed to improve listening comprehension and practice spoken English in increasingly more complex social situations. Course activities encourage language practice outside of the classroom and students are given the opportunity to gain and increase fluency through discussions and presentations based on course themes.

(2) **Structure** (grammar) courses incorporate integrated language instruction with an emphasis on grammatical concepts. Students are exposed to a variety of grammatical concepts and practice these concepts in written and oral activities. Students work in groups and with partners using English grammar forms in meaningful communication.

(3) **Reading and Writing** courses help students develop reading and writing fluency through individual, pair, and group work in oral and written discourse. Students are given experience in reading and writing sentences, paragraphs, and essays. Emphasis will be placed on improving students' written organizational skills and comprehension of different expository writing styles in essays from one to five paragraphs in length. Readings exhibiting the various topics and expository styles are assigned as a model and stimulus to writing.

Ingles Como Segundo Idioma

Grupo de cursos de inglés como segundo idioma

Información: La escuela de artes, humanidades, y servicios humanos (928) 344-7591.

El propósito del estudio en inglés como segundo idioma es ofrecer estudios a los individuos que (1) son hablantes no-nativos de inglés que pueden leer y escribir en su lengua nativa , y (2) tienen un nivel en el idioma inglés que les hace difícil funcionar en un ambiente académico universitario. Los cursos de inglés como segundo idioma les ayudarán a los estudiantes a realizar sus metas en aprender el inglés. Estas metas pueden ser:

- completar un título
- obtener un trabajo
- cambiar carrera
- metas personales o familiares

Los maestros de inglés de este departamento recomiendan que todas las personas que quieran inscribirse en clases de inglés como segundo idioma (ESL) hagan el examen de colocación para entrar en el nivel apropiado del estudio. Los estudiantes no pueden escoger el nivel del estudio—hay que hacer el examen de colocación o recibir una recomendación de un maestro de ESL.

Descripción: el programa de ESL en AWC consiste en cursos que enfatizan tres áreas del estudio del lenguaje: (1) oír y hablar, (2) gramática, y (3) leer y escribir. Se recomienda que estos cursos sean tomados al mismo tiempo. Los cursos son impartidos en inglés usando técnicas para hacer la información entendible para nuevos estudiantes de lenguaje.

1) **Cursos de Oír y Hablar** dan a los estudiantes una introducción y experiencia en escuchar las fuentes auténticas del inglés. Estudiantes aprenden y aplican una variedad de técnicas diseñadas para mejorar la comprensión de oído y aumentar la práctica de inglés hablado en situaciones sociales complejas. Actividades del curso motivan la práctica del lenguaje fuera del salón y le dan la oportunidad a los estudiantes para ganar y aumentar fluidez a través de discusiones y presentaciones basadas en temas del curso. t

(2) **Cursos de Estructura** (gramática) incorporan instrucción de lenguaje integrado con énfasis en conceptos gramaticales. Estudiantes están expuestos a una variedad de conceptos gramaticales y practican

estos conceptos en actividades escritas y orales. Los estudiantes trabajan en grupo usando formas gramaticales en inglés en comunicación significativa.

(3) **Cursos de Leer y Escribir** ayudan a los estudiantes desarrollarse leyendo y escribiendo con fluidez a través de grupos de trabajos individuales y en par en discursos orales y escritas. Los estudiantes son dados experiencia en leer y escribir oraciones, párrafos y composiciones. Énfasis será puesto en mejorar las habilidades de organización escrita y la comprensión en diferentes estilos de composiciones de uno a cinco párrafos de largo. Lecturas presentan varios temas y estilos de exposición que están asignadas como un modelo y motivación a escribir.

Environmental Sciences

Associate in Science (A.S.) degree

Pathway: TG/XR

Program Purpose: Graduates will demonstrate (1) basic knowledge in environmental sciences that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Intended for students pursuing a career in fields such as environmental consulting, natural resource management, science education, or graduate school in the sciences. This program is offered as a "2+2" partnership between AWC and NAU in Yuma. Students first complete the A.S. degree in Environmental Sciences at AWC and then transfer to NAU in Yuma for the B.S. degree in Environmental Science. Two emphases are available: Applied Geology and Biology. Students may complete the BS degree entirely at NAU in Yuma. Other emphasis areas (e.g., Environmental Management) require transfer to NAU in Flagstaff or elsewhere for the BS degree.

Applied Geology Emphasis

Major Code: AS.ESGEO

Contact: Science Division (928) 344-7656

A. Required major courses: 8

- ENV 230** Foundations of Environmental Science: Humans and the Environment 4
- ENV 280** Physical and Chemical Processes in the Environment. 4

B. Other departmental requirements: 19

- GLG 101** Introduction to Geology 1 (Physical) 4
- GLG 102** Introduction to Geology 2 (Historical) 4
- GLG 240** Introduction to Field Methods and Report Writing. 2
- MAT 230** Calculus II with Analytic Geometry. 5
- PHY 111** College Physics I or higher 4

C. Arizona General Education Curriculum-Science (AGEC-S): 37-39

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 220** Calculus I with Analytic Geometry or approved higher level math). . . 5
- Arts and Humanities** 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences.** 6
- Physical and Biological Sciences (CHM 151 and 152** General Chemistry I and II). 8
- Additional Courses** (see the AGECS-Additional Courses list for possible selections). 6-8

D. General electives: 0

Total credits required for degree: 64

Biology Emphasis

Major Code: AS.ESBIO

Contact: Science, Math, and Agricultural Sciences Division, (928) 344-7656

A. Required major courses: 8

- ENV 230** Foundations of Environmental Science: Humans and the Environment 4
- ENV 280** Physical and Chemical Processes in the Environment 4

B. Other departmental requirements: 20

- BIO 181** General Biology I 4
- BIO 182** General Biology II 4
- BIO 205** Microbiology 4
- GPH 239** Intro to Geographic Information Systems. . 4
- MAT 270** Applied Statistics 4

C. Arizona General Education Curriculum-Science (AGEC-S): 37-39

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math). . .	5
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II).	8
Additional Courses (see the AGEC-S Additional Courses list for possible selections).	6-8

D. General electives: 0

Total credits required for degree: 65

Exercise and Wellness

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.EXW

Contact: Wellness and Physical Education
(928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in exercise science, health, and physical education that will prepare them for employment in the fitness industry or prepare them for transfer to the universities. Students will learn critical thinking skills in AWC's General Education focus areas.

Program Description: Designed to prepare individuals for employment in the fitness industry and/or prepare the individual interested in continuing their education leading to careers in exercise science, health and wellness, and physical education.

A. Required major courses: 18

BIO 201 Anatomy and Physiology I	4
BIO 202 Anatomy and Physiology II	4
EXW 100 Health and Wellness	3
EXW 101 Exercise Science, Kinesiology and Physical Education.	3
MAT 270 Applied Statistics	4

B. Department Electives: 10

Select 10 credits from the following courses:

EXW 112 Professional Applications of Fitness Principles	
EXW 214 Instructional Competency: Flexibility and Mind-Body Exercises	
EXW 216 Instructional Competency: Muscular Strength and Conditioning	
EXW 218 Instructional Competency: Cardio respiratory Exercises and Activity	
EXW 225 Exercise Physiology	
EXW 245 Guidelines for Exercise Testing and Prescription	
EXW 265 Exercise For Special Populations	
NTR 201 Nutrition	
PEM 202 Sports Injury Management	
PEM 208 Sports Injury Treatment	
PEM 210 Athletic Training Practicum	
PER 101 Fitness for Life	
EXW 275 Fitness Professional Practicum	
EXW 280 Certification Preparation	

C. Arizona General Education Curriculum-Arts (AGEC-A): 36

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . .	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list. PHI 105 Introduction to Ethics recommended)</i>	
Social and Behavioral Sciences (PSY 101 Introduction to Psychology and FAS 238/PSY 238 Human Development)	7
Physical and Biological Sciences (CHM 130 Fundamental Chemistry and one additional course)	8
Additional Courses (SPC 215 Public Speaking and one additional course- see the AGEC-A Additional Courses list for possible selections)	6

D. General electives: 0

Total credits required for degree: 64

Family Development Credential

Certificate

Major Code: CERT.FDC

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate skills that promote family strengths and prepare them to obtain an entry-level position within the field.

Program Description: The certificate program includes eleven (11) credit hours. Each of the prescribed courses of this program has an embedded laboratory experience component essential for “application of theory” throughout the training period.

Following successful completion of the FDC certificate, individuals may apply for a nationally recognized certification, The Family Development Credential issued by the University of Connecticut.

A. Required major courses: 11

- FAS 206** Family and Worker Development 3
- FAS 207** Cultural Competency and Family Assessment 3
- FAS 208** Community Services 5

Total credits required for certificate: 11

Family Studies

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.FAS

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in family studies that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: This program strives to integrate relationships between individuals, families, and communities as well as the environments in which they function. This profession is concerned with: the strength and vitality of families; the use of personal, social, and material resources to meet human needs; the well-being of individuals and families; the role of individuals and families as consumers of goods and services; and the development and management of home and community environments that are supportive of individuals and families. Any student may take courses in this area for personal or professional development. Some FAS courses fulfill general education requirements (AGEC and A.A.S.) in the Social and

Behavioral Sciences category. To reach the objectives of the profession, students are advised to continue and complete a bachelor’s degree for employability in this area.

A. Required major courses: 13

- ECE 240** Child Growth and Development. 3
- FAS 160** Close Relationships. 3
- FAS 238** Human Development 4
- NTR 201** Nutrition 3

B. Other departmental requirements: 9

- FAS 204** Gender Relations 3
- FAS 220** The Family 3
- PSY 170** Human Sexuality. 3

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6**
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math) 3
- Arts and Humanities 6**
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6**
- Physical and Biological Sciences. 8**
- Additional Courses** (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 7

Total credits required for degree: 64

Fire Academy

Certificate

Major Code: CERT.FIREA

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in fire science that will prepare them for employment as firefighters.

Program Description: Designed to equip students with the knowledge and practical skills necessary for certification as entry-level firefighters. Successful

completion with a "B" or higher allows students to sit for the Firefighter 1 and 2 certification examinations as conducted by the Arizona Center for Fire Service Excellence.

View disclosure information online at www.azwestern.edu/degrees

A. Required major course: 24

FSC 148 Fire Academy 1. 12

FSC 149 Fire Academy 2. 12

B. Other departmental requirements:

Admission and Selection Policy:

1. High school diploma or GED
2. Minimum age requirement of 18 years
3. Meet the medical requirements of NFPA 1582
4. Liability waiver
5. Meet physical fitness requirements
6. Certification in the state of Arizona as a EMT-B or equivalent
7. Permission of the Coordinator

Total credits required for certificate: 24

Fire Science

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.FIRSC

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate expertise in fire science at a level that prepares them for a supervisory position within the fire service.

Graduates will demonstrate competency critical thinking skills in AWC's General Education focus areas necessary to educate and lead fire service personnel.

Program Description: Designed for individuals who desire a career in fire science. Beyond being a professional firefighter, the degree will assist in qualifying individuals for related occupations such as building inspector, rescue specialist, and hazardous materials specialist. For the employed firefighter, this degree can be an asset in seeking promotion within fire science.

A. Required major courses: 18

FSC 106 Principles of Fire and Emergency Services
Safety and Survival 3

FSC 151 Principles of Emergency Services 3

FSC 152 Fundamentals of Fire Prevention 3

FSC 153 Fire Behavior and Combustion 3

FSC 201 Fire Protection Systems 3

FSC 203 Building Construction 3

B. Other departmental requirements: 24

Any FSC course 100 or higher

A Limit of 12 credits from Fire Academy Courses may be applied towards other departmental requirements (FSC 148 or 149 or 150)

C. General education requirements: 22

English Composition (ENG 101 and 102) 6

Mathematics (MAT 121 Intermediate Algebra or approved higher level math) 4

Arts and Humanities 3

Social and Behavioral Sciences. 3

Physical and Biological Sciences. 4

Additional Courses 2

D. General electives: 0

Total credits required for degree: 64

Fitness Training Professional

Certificate

Major Code: CERT.FTPR

Contact: Wellness and Physical Education
(928) 344-7689

Program Purpose: Graduates will demonstrate a fundamental knowledge of human anatomy and physiology, exercise testing and program principles, nutrition and weight control, and injury prevention.

Program Description: This program is designed to provide students with work experience in various fitness leadership positions in the health/fitness industry or to become self-employed in health/fitness training and consultation. The program offers students a variety of physical education and health courses,

emphasizing the relationship of human physiology, exercise training, lifestyle behavior modification and disease prevention. Extensive focus is placed on integrating text-learned information into practical experience using substantial laboratory work with clients and a training/consultation internship. Fitness assessment, exercise prescription, and exercise program implementation are targeted, preparing students to enter the workforce in the area of personal training at health clubs, gyms, etc.

A. Required major courses: 27

- EXW 100 Health and Wellness 3
- NTR 201 Nutrition 3
- PEM 202 Sports Injury Management 3
- EXW 214 Instructional Competency:
Flexibility and Mind-Body Exercises. 2
- EXW 216 Competency: Muscular Strength
and Conditioning 2
- EXW 218 Instructional Competency:
Cardio respiratory Exercises and Activity . 2
- EXW 112 Professional Applications
of Fitness Principles 3
- EXW 245 Guidelines for Exercise Testing and
Prescription. 3
- EXW 275 Fitness Professional Practicum 3
- EXW 280 Certification Preparation. 3

B. Department Electives: 3

- Select 3 credits from the following courses:*
- EXW 101 Introduction to Exercise Science, Kinesiology,
and Physical Education
 - EXW 265 Exercise for Special Populations

Total credits required for certificate: 30

Food Science and Safety

Certificate

Major Code: CERT.FSS

Contact: Science Division (928) 344-7656

Program Purpose: Provide education, training, and credentials in the area of food production safety for current and future members of the industry.

Program Description: This certificate is designed to provide a student with an understanding of microbial

growth, production practices, and prevention and eradication methods.

A. Required major courses: 16

- AGS 200 Food Safety Practices and Management. . . 4
- AGS 220 Food Safety in Facilities 4
- PLS 100 Plant Science 4
- PLS 290 Vegetable Crop Production 4

Total credits required for certificate: 16

Foundations of Construction

Certificate

Major Code: CERT.FNDC

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: This program is part of the contract with the Arizona Department of Corrections and offers inmates of the Arizona State Prison Complex Yuma the opportunity to obtain a vocational certificate.

Program Description: This program provides inmates of the Arizona State Prison Complex Yuma with essential entry-level employment skills to enable them to find employment after their release from prison.

A. Required major courses: 10

- CTM 105 Blueprint Reading for Construction 3
- ORI 101 Strategies for Success 3
- ORI 105 Decision Making 1
- TEC 165 Employee and Occupational Safety. 3

Total credits required for certificate: 10

General Studies

Associate in General Studies (A.G.S.) degree

Major Code: AGS.GENST

Contact: Advisement Services (928) 344-7624

Program Purpose: Graduates will demonstrate (1) basic knowledge in general studies that will prepare them for two of the following areas of specialization: business or computers; humanities; mathematics or sciences; languages or communications; physical education, recreation, and sport; social science; education, nursing, or health; occupational or technology; (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This degree is designed for students who wish to pursue two different academic concentrations or whose academic backgrounds may include course work taken at other institutions or credits earned, for example, through military experience.

This is not a transfer degree, according to the articulation agreements between the Arizona community colleges and universities. Students who wish to use this degree for transfer to out-of-state colleges and universities should consult the catalog of the institution to which they wish to transfer for specific general education and other course requirements.

Students who have such educational goals should consult with an Academic Advisor to determine if the A.G.S. degree is appropriate for them, and to determine how to best select courses which will meet their objectives.

A. Required major courses: 24

Choose **two concentration areas** (each of which must be a minimum of 12 credits) from:

- Business/Computers;**
- Humanities;**
- Mathematics/Sciences;**
- Languages/Communications;**
- Physical Education/Recreation/Sport;**
- Social Science;**
- Education/Nursing/Health;**
- Occupational/Technology**

B. Other departmental requirements: 0

C. General education requirements: 22

- Freshman Composition (ENG 101 and 102) 6**
- Mathematics (MAT 121 Intermediate Algebra or approved higher level math) 3**

- Arts and Humanities 3**
- Social and Behavioral Sciences. 3**
- Physical and Biological Sciences. 4**
- Additional Courses 3**

(Select one course from any of the Arizona General Education Course (AGEC) lists.)

D. General electives: 18

Total credits required for degree: 64

Geology

Associate in Science (A.S.) degree

Pathway: TG/XR

Major Code: AS.GEOL0

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in geology that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Geology is the study of the earth. The geology department emphasizes a process-oriented approach to studying phenomena which shape the earth's surface, and ultimately impacts all of our lives. This program articulates with the BS degree in Environmental Science-Geology Emphasis as part of AWC's "2+2" partnership with NAU-Yuma Branch Campus. Students may also be interested in the A.S. degree in Environmental Sciences with an Applied Geology Emphasis.

A. Required major courses: 13

- GLG 101** Introduction to Geology 1 (Physical). 4
- GLG 102** Introduction to Geology 2 (Historical). 4
- MAT 230** Calculus II with Analytic Geometry. 5

B. Other departmental requirements: 14

Select a minimum of one of the following courses:

- GLG 225** Introduction to Paleontology
- GLG 240** Introduction to Field Methods
- PHY 121** Mechanics
- PHY 131** Electricity and Magnetism

And select additional courses from physics, chemistry, calculus, or geology in consultation with your faculty advisor. 10–12

(It is critical that the appropriate courses are chosen and that these are completed in proper sequence; you should review specific requirements of the university to which you wish to transfer)

C. Arizona General Education Curriculum-Science (AGEC-S): 37–39

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math). . . 5

Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II). 8

Additional Courses (see the AGEC-S Additional Courses list for possible selections). 6–8

D. General electives: 0

Total credits required for degree: 64

Green Construction Methods

Certificate

Major Code: CERT.GRCON

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: To prepare the student for career opportunities in the construction field utilizing new technologies, materials and methods that support environmental, energy and resource management.

Program Description: Students enrolled in the Green Construction Methods courses will gain valuable classroom instruction using nationally developed curriculum with hands on training to develop the skills needed to gain entry level employment in the construction industry with emphasis on green construction technologies, materials and methods.

A. Required major courses: 16

CTM 100 Core Curriculum Introductory Craft Skills . . 5

CTM 123 Building Construction Materials and Equipment Safety 3

CTM 124 Building Construction Methods 2 (Framing). 3

TEC 120 Theory of Weatherization Tactics for New and Existing Buildings 3

TEC 121 Applications of Weatherization Tactics for New and Existing Buildings 2

Total credits required for certificate: 16

History

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.HISTO

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in history that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Outcomes:

- Identify and recall key information from a historical text and/or documentary film.
- Define and discuss the historical significance of key historical terms and concepts.
- Identify the underlying causes, explain the historical significance, and analyze the lasting impact of an event and/or how it changed the course of history.
- Evaluate a primary or secondary source.
- Summarize their findings in an oral presentation to the class.
- Research an assigned topic and synthesize information in a research paper, citing all sources using appropriate style and format.

A. Required major courses: 9

HIS 111 World History Since 1500 3

HIS 121 History of the U.S. to 1865 3

HIS 122 History of the U.S. from 1865. 3

B. Other departmental requirements: 12

Select any four of the following courses:

GEO 105 World Regional Geography

HIS 110 World History to 1500

HIS 220 History of Arizona

- HIS 230 Women in American History
- HIS 240 Western Civilization 1
- HIS 241 Western Civilization 2
- HIS 280 History of Mexico

C. Arizona General Education Curriculum-Arts (AGEC-A): **35**

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGECA Additional Courses list for possible selections) 6

D. General electives: **8**

Total credits required for degree: **64**

Homeland Security

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.HLS

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: The purpose of the program is to educate the student as to the dangers facing the United States and organizations that protect us from the danger. The program will also assist the student in selecting and preparing a career path within one of the law enforcement agencies of the federal government.

Program Description: There is an ever increasing threat against the citizens of the United States at home and abroad. As a result, there is a need for individuals in the various agencies of state and federal government to combat this threat. The program will assist the community in meeting this need by providing students with a basic foundation in identifying the threat and response to it.

A. Required major courses: **21**

AJS 191 Terrorism and Counter Terrorism. 3

AJS 275 Criminal Investigation 3

HLS 101 Introduction to Homeland Security 3

HLS 103 Introduction to Fire and Emergency Services3

HLS 107 Introduction to Cyberterrorism 3

HLS 203 Bioterrorism and Weapons of Mass Destruction 3

HLS 215 Critical Incident Management for Public Safety 3

B. Other departmental requirements: **6**

Select 6 credits from the AJS department

C. Arizona General Education Curriculum-Arts (AGEC-A): **35**

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGECA Additional Courses list for possible selections) 6

D. General electives: **2**

Total credits required for degree: **64**

Honors

Associates in Arts (A.A.)

- Honors Liberal Arts**
- Honors General Studies**
- Honors Discretionary**

Associates in Business (A.Bus.)

- Honors Liberal Arts**
- Honors General Studies**
- Honors Discretionary**

Associates in Science (A.S.)

- Honors Liberal Arts**
- Honors General Studies**
- Honors Discretional**

Associates in Applied Science (A.A.S.)

***Honors Discretional**

Major Codes: AA.HONOL, AA.HONOG, AA.HONOD, ABUS.HONOL, ABUS.HONOG, ABUS.HONOD, AS.HONOL, AS.HONOG, AS.HONOD, AAS.HONOD

Contact: Honors Program (928) 344-7685

Program Purpose: To serve as a vehicle for Honors Program members to explore and expand their intellectual, physical, social and emotional boundaries. The Honors Program is dedicated to providing a variety of formal and informal learning opportunities designed to enrich each student’s overall experience. Our goal is to encourage interaction between students and faculty that stimulates intellectual and emotional student growth.

Program Description: Honors Program members shall work towards a discipline specific Associates degree in order to be eligible for an Honors degree.

There are three Honors degree choices:

Liberal Arts

- Successful completion of an A.A., A.Bus. or A.S. with a cumulative GPA of 3.5 or higher
- Demonstrate competency in a second language or complete two courses of foreign language study
- Complete two Honors Seminars (HON 180, 1 credit each)
- Complete either an Honors Colloquium (HON 280, 3 credits) or Honors Capstone (HON 285, 3 credits)
- Complete at least nineteen additional Honors credits, comprised of Honors designated General Education courses and additional HON prefixed courses.

General Studies

- Successful completion of an A.A., A.Bus. or A.S. with a cumulative GPA of 3.5 or higher
- Complete two Honors Seminars (HON 180, 1 credit each)
- Complete either an Honors Colloquium (HON 280, 3 credits) or Honors Capstone (HON 285, 3 credits)
- Complete at least nineteen additional Honors credits, comprised of Honors designated General Education courses and additional HON prefixed courses.

Discretional

- Successful completion of an A.A., A.Bus., A.S. or *A.A.S. with a cumulative GPA of 3.5 or higher
- Complete two Honors Seminars (HON 180, 1 credit each)
- Complete either an Honors Colloquium (HON 280, 3 credits) or Honors Capstone (HON 285, 3 credits)
- Complete at least twelve additional Honors credits, comprised of Honors designated General Education courses and additional HON prefixed courses.

A. Required major courses: 2

HON 180 Honors Seminar	1
HON 180 Honors Seminar	1
HON 280 Honors Colloquium or	1
HON 285 Honors Capstone	

B. Other departmental requirements: 12-19

- 12-19 additional Honors credits comprised of Honors designated General Education courses and additional HON prefixed courses.
- Liberal Honors degree (19 Honors credits + 8 credits of a foreign language)
- General Honors degree (12 Honors credits)
- Discretional Honors degree (12 Honors credits)

C. General Education: 21-39

Complete appropriate AGEC-A (35), AGEC-B (35), AGEC-S (37-39) or A.A.S. General Education requirements (21)

D. General electives (Complete required and other departmental courses to meet discipline specific A.A., A.Bus., A.S. or A.A.S. requirements)

Total credits required for degree: 64

Hotel/Restaurant Management

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.HOTEL

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1)

basic knowledge in hospitality that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Designed to develop the student's professional and technical competence in preparation for a leadership role in the hospitality industry, including tourism, lodging, and food service enterprises. The degree transfers to the NAU-Yuma Branch Campus Hotel and Restaurant Management program.

A. Required major courses: 17

- CUL 146** Production Kitchen 1 4
- CUL 148** Garde Manger/Dining Room 4
- HRM 100** Introduction to Hospitality 3
- HRM 210** Customer Service Management 3
- HRM 220** Property Management 3
- *CUL 146 and CUL 148 have CUL 140 and CUL 143 as prerequisites.*

B. Other departmental requirements: 3

- ACC 211** Financial Accounting 3

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities** 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences.** 6
- Physical and Biological Sciences.** 8
- Additional Courses** (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 9

Total credits required for degree: 64

Industrial Graphics Drafting/CAD

Certificate

Major Code: CERT.INDSG

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) knowledge in drafting that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: The content for this program is developed to meet the needs for job entry-level skills as identified by educators and the American Industry, including manufacturing and construction. This program offers students flexibility in meeting career objectives by focusing on standards, drafting practices and board skills, application of these areas to computer assisted drafting (CAD) using both input and output services. The software selected for CAD offers great versatility for job entry-level skills development and can duplicate many CAD software programs in use today.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 20

- DFT 181** Industrial Graphics—Drafting 3
- DFT 185** Introduction to Computer Aided Drafting . . . 3
- DFT 186** Computer Aided Drafting 2 3
- DFT 281** Computer-aided Drafting/Design—Manufacturing 5
- DFT 283** Manufacturing Graphics 2 6

B. Other departmental requirements: 3

- MAT 105** Mathematics for the Applied Sciences or approved higher level math 3

Total credits required for certificate: 23

Industrial Maintenance and Instrumentation Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.IMIT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in industrial maintenance and instrumentation technology that will prepare them to

obtain an entry-level position within the field (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students gain basic competencies in welding, electrical theory, safety, interpreting construction drawings, the safe use of power tools, understanding the purpose and use of major electrical, hydraulic and pneumatic components, piping and tubing layouts and the proper use of test instrumentation.

A. Required major courses: 24

MFG 100 Core Curriculum Introductory Craft Skills 5
MFG 140 Industrial Maintenance Electrical and Instrumentation Level I 3
MFG 141 Industrial Maintenance Electrical and Instrumentation Level II 3
MFG 142 Industrial Maintenance Electrical and Instrumentation Level III 3
MFG 143 Industrial Maintenance Electrical and Instrumentation Level IV 3
MFG 144 Programmable Logic Controllers 4
MFG 145 Pipe Layout and Installation 3

B. Other departmental requirements: 19

MFG 170 Introduction to Lean Manufacturing 3
MFG 185 Quality Control and Inspection 3
MFG 191 Machine Tool Operations 4
TEC 165 Employee and Occupational Safety 3
WLD 109 Techniques in Gas Metal Arc Welding 3
WLD 123 Manufacturing/Welding Technology Survey 3

C. General education requirements: 21

English Composition (ENG 100, 101, or 102) 6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math). 3
Arts and Humanities 3
Social and Behavioral Sciences. 3
Physical and Biological Sciences. 4
Additional Courses 2

D. General electives: 0

Total credits required for degree: 64

Industrial Maintenance Technology (General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.IMTGE

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Industrial maintenance technology requires combined knowledge and skills in a variety of industrial/technical fields. This program will prepare the individual for entry level employment in the industrial maintenance career field. Students are instructed in the processes and practices involved in the areas of air conditioning and refrigeration, industrial graphics, quality control and inspection, machine tool operations, and occupational safety. Competencies related to critical thinking skills in AWC's General Education focus areas are embedded.

Program Description: This program provides courses in the industrial maintenance technology subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses: 22

ACR 101 Air Conditioning and Refrigeration 1 3
DFT 181 Industrial Graphics—Drafting 3
ECT 105 Basic Electricity 3
MFG 185 Quality Control and Inspection 3
MFG 191 Machine Tool Operations 4
TEC 165 Employee and Occupational Safety 3
Select at least one course in each of the following areas:
Automotive 3
Welding 3

B. Other departmental requirements: 19

MFG 140 Industrial Maintenance Electrical and Instrumentation Level I 3
MFG 141 Industrial Maintenance Electrical and Instrumentation Level II 3
MFG 142 Industrial Maintenance Electrical and Instrumentation Level III 3
MFG 143 Industrial Maintenance Electrical and Instrumentation Level IV 3
MFG 144 Programmable Logic Controllers 4
MFG 170 Introduction to Lean Manufacturing 3

C. Arizona General Education Curriculum-Arts

(AGEC-A):	35
Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math).	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECE-A Additional Courses list for possible selections)	6

D. General electives: **0**

Total credits required for degree: **76**

Industrial Manufacturing Technology (General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.IMFGE

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Industrial manufacturing technology requires combined knowledge and skills in a variety of industrial/technical fields. This program will prepare the individual for entry level employment in the industrial manufacturing career field. Students are instructed in the processes and practices involved in the areas of air conditioning and refrigeration, industrial graphics, electrical, quality control and inspection, machine tool operations, occupational safety, and project supervision and management. Competencies related to critical thinking skills in AWC’s General Education focus areas are embedded.

Program Description: This program provides courses in the industrial manufacturing technology subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses: **22**

ACR 101 Air Conditioning and Refrigeration 1	3
DFT 181 Industrial Graphics—Drafting	3
ECT 105 Basic Electricity	3

MFG 185 Quality Control and Inspection	3
MFG 191 Machine Tool Operations	4
TEC 165 Employee and Occupational Safety.	3
<i>Select at least one course in each of the following areas:</i>	
Automotive	3
Welding	3

B. Other departmental requirements: **19**

MFG 170 Introduction to Lean Manufacturing.	3
MFG 171 Introduction to Solar “Green” Manufacturing.	3
MFG 200 Manufacturing Project Supervision 1	3
MFG 201 Manufacturing Project Supervision 2	3
MFG 202 Manufacturing Project Management 1	3
MFG 203 Manufacturing Project Management 2	4

C. Arizona General Education Curriculum-Arts (AGEC-A): **35**

Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math).	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECE-A Additional Courses list for possible selections)*	6

D. General electives: **0**

Total credits required for degree: **76**

Industrial Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.INDST

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in industrial technology that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: For maximum flexibility, this program allows the student to develop a technical sequence of courses in cooperation with an Academic Advisor to achieve a specific employment objective.

A. A. Required major courses:	21
DFT 181 Industrial Graphics—Drafting	3
ECT 105 Basic Electricity	3
ENG 110 Technical Writing	3
MFG 191 Machine Tool Operations	4
TEC 165 Employee and Occupational Safety.	3
<i>At least one course in each of the following areas:</i>	
Automotive	3
Welding	2

B. Other departmental requirements:	14
<i>Select 14 credits from the following prefixes:</i>	
ACR, ARC, AUT, CET, CTM, DFT, ECT, MFG, PCT, SLR, TEC, and WLD	

C. General education requirements:	21
English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives:	8
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Total credits required for degree:	64
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Industrial Technology (General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.INDGE

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: The field of industrial technology requires combined knowledge and skills in a variety of industrial/technical fields. This program

will prepare the individual for entry level employment in a broad range of career fields. Students are instructed in the processes and practices involved in the areas of industrial graphics, technical writing, machine and tool operations, and occupational safety. Competencies related to critical thinking skills in AWC’s General Education focus areas are embedded.

Program Description: This program provides courses in the industrial technology subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses:	22
ACR 101 Air Conditioning and Refrigeration 1	3
DFT 181 Industrial Graphics—Drafting	3
ECT 105 Basic Electricity	3
MFG 191 Machine Tool Operations	4
TEC 165 Employee and Occupational Safety.	3
<i>Select one course in each of the following areas:</i>	
Automotive	3
Welding	3

B. Other departmental requirements:	18
<i>Select 18 credits from the following prefixes:</i>	
ACR, ARC, AUT, CET, CTM, DFT, ECT, MFG, PCT, SLR, TEC, and WLD	

C. Arizona General Education Curriculum-Arts (AGEC-A):	35
Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math).	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECA Additional Courses list for possible selections)	6

D. General electives:	0
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Total credits required for degree:	75
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Industrial Water Treatment

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.IWT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate extensive knowledge in industrial water treatment that will prepare them to obtain advancement within the field.

Program Description: A self-contained program designed to meet the specific needs and requirements for the certification process associated with Industrial Water Treatment.

A. Required major courses: 36

IWT 145 Water Treatment Math, Chemistry, and Biology	3
IWT 146 Reverse Osmosis.	3
IWT 147 Reverse Osmosis Troubleshooting	3
IWT 160 High Purity Water From Ion Exchange.	3
IWT 161 Ion Exchange Troubleshooting.	3
IWT 162 Maintaining High Purity	3
IWT 255 Pretreatment Troubleshooting	3
IWT 256 Scaling and Fouling Troubleshooting	3
IWT 257 Advanced Reverse Osmosis Monitoring and Cleaning.	3
IWT 270 Feedwater and Pretreatment	3
IWT 271 Ion Exchange Troubleshooting.	3
IWT 272 Post Ion Exchange	3

B. Other departmental requirements: 0

C. General education requirements: 21

English Composition (ENG 101 and 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: 7

Total credits required for degree: 64

Industrial Water Treatment

Certificate

Major Code: CERT.IWT

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate extensive knowledge in industrial water treatment that will prepare them to obtain advancement within the field.

Program Description: A self-contained program designed to meet the very specific needs and requirements for the certification process associated with Industrial Water Treatment.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 36

IWT 145 Water Treatment Math, Chemistry, and Biology	3
IWT 146 Reverse Osmosis.	3
IWT 147 Reverse Osmosis Troubleshooting	3
IWT 160 High Purity Water From Ion Exchange.	3
IWT 161 Ion Exchange Troubleshooting.	3
IWT 162 Maintaining High Purity	3
IWT 255 Pretreatment Troubleshooting	3
IWT 256 Scaling and Fouling Troubleshooting	3
IWT 257 Advanced Reverse Osmosis Monitoring and Cleaning.	3
IWT 270 Feedwater and Pretreatment	3
IWT 271 Ion Exchange Troubleshooting.	3
IWT 272 Post Ion Exchange	3

Total credits required for certificate: 36

Law Enforcement Training

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.LET

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: To award college credit for completing training in the Law Enforcement Training Academy as required by the Arizona Peace Officers Standards and Training Board.

Program Description: Students are attending a state certified police academy and meeting the academic standards and objectives as set forth by the Arizona Peace Officers Standards and Training Board.

A. Required major courses: 43

LET 101 Criminal Justice Systems 3

LET 107 Patrol Procedures 3

LET 109 Arizona Substantive Criminal Law 3

LET 111 Law and Legal Matters 1 3

LET 112 Law and Legal Matters 2 3

LET 115 Juvenile Law and Procedures 3

LET 120 Introduction to Law Enforcement 3

LET 123 Ethics and Professionalism 1

LET 130 Defensive Tactics 2

LET 131 Firearms 2

LET 132 First Aid/First Responder 1

LET 134 Vehicle Operations 3

LET 157 Wellness for Law Enforcement 1

LET 205 Report Writing 3

LET 208 Traffic Control 3

LET 270 Police and the Community 3

LET 275 Criminal Investigation 3

B. Other departmental requirements: 0

C. General education requirements: 21

English Composition (ENG 100, 101 or 102) 6

Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3

Arts and Humanities 3

Social and Behavioral Sciences 3

Physical and Biological Sciences 4

Additional Courses 2

D. Electives: 0

Total credits required for degree: 64

Law Enforcement Training Academy

Certificate

Major Code: CERT.LETA

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in law enforcement that will prepare them for an entry-level position within the field.

Program Description: This program is offered only to individuals who have met the minimum qualifications for a peace officer applicant as specified by the Arizona Peace Officer Standards and Training Board (AZPOST). To attend the academy, an individual must either be appointed by a law enforcement agency or through an application process as set forth by the Public Safety Institute. For information regarding the Law Enforcement Training Academy, contact the Public Safety Institute. The Academy is comprised of two semester segments that operate parallel to the academic school year. Background check required.

A. Required major courses: 43

LET 101 Criminal Justice Systems 3

LET 107 Patrol Procedures 3

LET 109 Arizona Substantive Criminal Law 3

LET 111 Law and Legal Matters 1 3

LET 112 Law and Legal Matters 2 3

LET 115 Juvenile Law and Procedures 3

LET 120 Introduction to Law Enforcement 3

LET 123 Ethics and Professionalism 1

LET 130 Defensive Tactics 2

LET 131 Firearms 2

LET 132 First Aid/First Responder 1

LET 134 Vehicle Operations 3

LET 157 Wellness for Law Enforcement 1

LET 205 Report Writing 3

LET 208 Traffic Control 3

LET 270 Police and the Community 3

LET 275 Criminal Investigation 3

Total credits required for certificate: 43

Logistics Supply Chain Management

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.LOGIS

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate ability in logistics for skilled entry level positions within both the private and public logistics sectors.

Program Description: The Associate of Applied Science degree in Logistics Supply Chain Management provides students with an understanding of the fundamental principles of logistics and business, and with the working knowledge of inventory control, transportation, and warehouse management required for employment in the field of logistics.

A. Required major courses: 27

LGS 101 Introduction to Logistics	3
LGS 102 Inventory Control	3
LGS 103 Freight Claims and Contracts	3
LGS 104 Computerized Logistics	3
LGS 105 Warehouse Management	3
LGS 106 Transportation and Traffic Management	3
LGS 107 Introduction to Purchasing	3
LGS 108 International Logistics	3
LGS 190 Logistics Internship	3

B. Other departmental requirements: 15

BUA 100 Survey of Business	3
CIS 120 Introduction to Computer Information Systems	3
CIS 154 Introduction to E-Commerce	3
MGT 250 Personnel Supervision	3
MGT 280 Leadership	3

C. General education requirements: 21

English Composition (ENG 100, 101 or 102)	6
Mathematics (MAT 142 College Mathematics or approved higher level math)	3
Arts and Humanities	3
Social and Behavioral Sciences (GEO 105 World Regional Geography)	3
Physical and Biological Sciences	4
Additional Courses	2

D. Electives: 1

Total credits required for degree: 64

Logistics Advanced

Certificate

Major Code: CERT.LGSAD

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate ability in logistics for skilled entry level positions within both the private and public logistics sectors.

Program Description: This certificate program is designed for students seeking a vocational degree. A variety of logistics along with complementary business and general education courses will guide the student to establish a clearly focused foundation to enter the logistics profession in a wide range of available positions.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 12

LGS 101 Introduction to Logistics	3
LGS 102 Inventory Control	3
LGS 104 Computerized Logistics	3
LGS 105 Warehouse Management	3

B. Other departmental requirements: 16

ENG 101 Freshman Composition	3
or	
BUA 290 Business Communication	3
MGT 250 Personnel Supervision	3
LGS 106 Transportation and Traffic Management	3
LGS 108 International Logistics	3
LGS 109 Readiness Skills for Logistics Careers	1
LGS 190 Logistics Internship	3

Total credits required for certificate: 28

Logistics Basic

Certificate

Major Code: CERT.LGSBA

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate ability in logistics for skilled entry level positions within both the private and public logistics sectors.

Program Description: This Certificate program is designed for students seeking a vocational certificate. A variety of logistics along with complementary business and general education courses will guide the student to establish a clearly focused foundation to enter the logistics profession in a wide range of available positions.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses:	12
LGS 101 Introduction to Logistics	3
LGS 102 Inventory Control	3
LGS 104 Computerized Logistics	3
LGS 105 Warehouse Management	3
<hr/>	
B. Other departmental requirements:	4
ENG 101 Freshman Composition	3
or	
BUA 290 Business Communication	
LGS 109 Readiness Skills for Logistics Careers	1
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C. Electives:	3
<i>Select one of the following courses:</i>	
LGS 106 Transportation and Traffic Management	
LGS 108 International Logistics	
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Total credits required for certificate:	19

Manufacturing Maintenance and Operations Electrical

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.MMOE

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: To prepare the student for career opportunities in the manufacturing industry with an emphasis on plant electrical maintenance operations technology.

Program Description: Students enrolled in this program using a nationally developed curriculum will develop knowledge and skills related to electrical wiring, motor controls and circuits for use in maintaining manufacturing plant operations. Students will gain valuable classroom and practical lab instruction in

the use of related electrical tools and equipment that are utilized to operate and maintain a modern manufacturing plant. Students will learn manufacturing terms, plant resource utilization and organization with emphasis on electrical wiring technology.

A. Required major courses:	21
ECT 100 Core Curriculum Introductory Craft Skills	5
MFG 170 Introduction to Lean Manufacturing	3
MFG 171 Introduction to Solar "Green" Manufacturing	3
MFG 172 Solar "Green" Manufacturing Research Project	4
MFG 185 Quality Control and Inspection	3
WLD 123 Manufacturing/Welding Technology Survey	3
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B. Other departmental requirements:	24
ECT 105 Basic Electricity	3
ECT 110 AC/DC Circuits	4
ECT 115 National Electrical Code	3
ECT 205 Fixtures and Installation	4
ECT 210 Control Circuits	4
MFG 195 Materials Science and Metallurgy	3
TEC 165 Employee and Occupational Safety	3
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C. General education requirements:	21
English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2
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D. General electives:	0
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Total credits required for degree:	66

Students may also benefit from the following recommended elective:

MFG 191 Machine Tool Operations

Manufacturing Maintenance and Operations Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.MMOT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: To prepare the student for career opportunities in the manufacturing industry with an emphasis on plant maintenance operations technology.

Program Description: Students enrolled in this program using a nationally developed curriculum will develop knowledge and skills related to industrial maintenance for use in maintaining manufacturing plant operations. Students will gain valuable classroom and practical lab instruction in the use of related mechanical tools and equipment for pneumatics, hydraulics, pipe layout and programmable relays that are utilized to operate and maintain a modern manufacturing plant. Students will learn manufacturing terms, plant resource utilization and organization.

A. Required major courses: 21

- MFG 100** Core Curriculum Introductory Craft Skills. . . 5
- MFG 170** Introduction to Lean Manufacturing. 3
- MFG 171** Introduction to Solar "Green" Manufacturing. 3
- MFG 172** Solar "Green" Manufacturing Research Project 4
- MFG 185** Quality Control and Inspection 3
- WLD 123** Manufacturing/Welding Technology Survey 3

B. Other departmental requirements: 22

- MFG 140** Industrial Maintenance Electrical and Instrumentation Level I. 3
- MFG 141** Industrial Maintenance Electrical and Instrumentation Level II 3
- MFG 142** Industrial Maintenance Electrical and Instrumentation Level III. 3
- MFG 143** Industrial Maintenance Electrical and Instrumentation Level IV. 3
- MFG 144** Programmable Logic Controllers. 4
- MFG 145** Pipe Layout and Installation 3
- TEC 165** Employee and Occupational Safety. 3

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102) 6**
- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3
- Arts and Humanities 3**
- Social and Behavioral Sciences. 3**
- Physical and Biological Sciences. 4**
- Additional Courses 2**

D. General electives: 0

Total credits required for degree: 64

Manufacturing Equipment Maintenance and Repair Technology

Certificate

Major Code: CERT.MEMRT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: The certificate in Manufacturing Equipment Maintenance and Repair Technology allows student to gain valuable knowledge and skill related to the maintenance and repair of manufacturing equipment used in today's manufacturing industries. Developed in cooperation with local manufacturing companies with a global perspective in mind this program is designed to provide students with the real world skills they need to for a career as a maintenance and repair technician. This program of study can be used towards the A.A.S degree in Industrial Technology and other developing education and career opportunities.

Program Description: The certificate in Manufacturing Equipment Maintenance and Repair Technology is a course of study using a nationally standardized curriculum with emphasis on the maintenance and repair of mechanical, hydraulic, pneumatic, electrical components and instrumentation devices. Students will develop skills used to trouble shoot a variety of motor controls and programmable logic controls used in a variety of automatic and semi automatic manufacturing process controls systems. This program is a competency based requiring students to demonstrate both understanding of the information through written testing as well as formal performance evaluations.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: **24**

MFG 100 Core Curriculum Introductory Craft Skills . 5

MFG 140 Industrial Maintenance Electrical and Instrumentation Level I. 3

MFG 141 Industrial Maintenance Electrical and Instrumentation Level II 3

MFG 142 Industrial Maintenance Electrical and Instrumentation Level III. 3

MFG 143 Industrial Maintenance Electrical and Instrumentation Level IV. 3

MFG 144 Programmable Logic Controllers. 4

MFG 145 Pipe Layout and Installation 3

Total credits required for certificate:. **24**

Masonry

Certificate

Major Code: CERT.MAS

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Program is part of a contract with the Arizona Department of Corrections to offer inmates of the Arizona State Prison Complex Yuma the opportunity to obtain a vocational masonry certificate.

Program Description: Provides inmates of the Arizona State Prison Complex Yuma with essential skills required of an entry-level employee in the masonry industry.

A. Required major courses: **14**

MAS 120 Introduction to Masonry 2

MAS 121 Tools and Materials 3

MAS 123 Masonry Blueprint Reading and Building Codes 2

MAS 129 Hod Carrier. 3

ORI 101 Strategies for Success 3

ORI 105 Decision-Making 1

Total credits required for certificate:. **14**

Massage Therapy

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.MASTH

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge of professional skills required in therapeutic massage and (2) appropriate application of modalities (3) competency in communication, critical thinking, ethical decision making, and a comprehensive skill base with a foundation of the sciences (4) fundamental concepts for working effectively in the health care environment.

Program Description: This program is designed to provide students with the essential skills to become a massage therapist. The curriculum focuses on integration of the physical, emotional, and spiritual aspects of the individual while providing the philosophical foundation and technical skills required to perform therapeutic massage. Students are prepared to manage a private massage practice and work in collaboration with other healthcare professionals. This program meets the requirement for state certification as a Massage Therapist.

Program Requirements:

Placement Tests

- CPT Reading score of 65 or higher
- Math score of 25 or higher

Prerequisite Courses

Completion of prerequisite courses with C or better

Acceptance into Program

- Submit program application
- Attend orientation
- Successful completion of Health and Safety Requirements indicated for on-site personnel at hospital and other clinical experience settings. Including:
 - Current CPR certification designation of "Healthcare Provider" or equivalent
 - Vaccination or Titer for common illnesses
 - Complete physical
 - Background check

Student fees include equipment and supplies. These items will provide the student with the basic supplies needed for participation in class, clinical and to begin professional work upon completion of this course.

Prerequisites 7

Select one of the following four credit courses:

- BIO 160** Introduction to Human Anatomy and Physiology
- BIO 201** Human Anatomy and Physiology I
- BIO 202** Human Anatomy and Physiology II
- LMT 104** Introduction to Essential Sciences for Therapeutic Bodywork

Select one of the following three credit courses:

- LMT 106** Healthy Living
- WED 110** Concepts of Wellness

A. Required major courses: 32

- LMT 114** Massage Techniques 1 5
- LMT 115** Clinical Experience 1. 1
- LMT 124** Essential Sciences for Therapeutic Bodywork 1 5
- LMT 131** Complementary Bodywork Systems 2
- LMT 140** Business Practices for Massage and Bodyworkers 2
- LMT 141** Professionalism and Ethics of Bodywork . . 1
- LMT 214** Massage Techniques 2 5
- LMT 215** Clinical Practicum. 3
- LMT 233** Complementary Bodywork Systems 2. . . . 2
- LMT 234** Kinesiology 2
- LMT 240** Massage Therapy Internship 2
- LMT 244** Pathology for Massage Therapy. 1
- LMT 254** Pharmacology for Massage Therapy. . . . 1

B. Other departmental requirements: 0

C. General education requirements: 17

- English Composition (ENG 100, 101, or 102)** 6
- MAT 105** Mathematics for the Applied Sciences or approved higher level math 3
- Arts and Humanities** 3
- Social and Behavioral Sciences** 3
- Physical and Biological Sciences** 4
(**BIO 160** prerequisite)

Additional Courses 2

D. General electives: 8

Total credits required for degree: 64

Massage Therapy

Certificate

Major Code: CERT.MASTH

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge of professional skills required in therapeutic massage and (2) appropriate application of modalities (3) competency in communication, critical thinking, ethical decision making, and a comprehensive skill base with a foundation of the sciences (4) fundamental concepts for working effectively in the health care environment.

Program Description: This program is designed to provide students with the essential skills to become a massage therapist. The curriculum focuses on integration of the physical, emotional, and spiritual aspects of the individual while providing the philosophical foundation and technical skills required to perform therapeutic massage. Students are prepared to manage a private massage practice and work in collaboration with other healthcare field professionals. This course meets the requirement for state certification as a Massage Therapist.

Placement Tests

- CPT Reading score of 65 or higher
- Math score of 25 or higher

Prerequisite Courses

Completion of prerequisite courses with C or better

Acceptance into Program

- Submit program application
- Attend orientation
- Successful completion of Health and Safety Requirements indicated for on-site personnel at hospital and other clinical experience settings. Including:

- Current CPR certification designation of “Healthcare Provider” or equivalent
- Vaccination or Titer for common illnesses
- Complete physical
- Background check

Student fees include equipment and supplies. These items will provide the student with the basic supplies needed for participation in class, clinical and to begin professional work upon completion of this course.

Prerequisites 7

Select one of the following 4 credit courses:

- BIO 160** Introduction to Human Anatomy and Physiology
- BIO 201** Human Anatomy and Physiology I
- BIO 202** Human Anatomy and Physiology II
- LMT 104** Introduction to Essential Sciences for Therapeutic Bodywork

Select one of the following 3 credit courses:

- LMT 106** Healthy Living
- WED 110** Concepts of Wellness

A. Required major courses: 32

- LMT 114** Massage Techniques 1 5
- LMT 115** Clinical Experience 1. 1
- LMT 124** Essential Sciences for Therapeutic Bodywork 1 5
- LMT 131** Complementary Bodywork Systems 2
- LMT 140** Business Practices for Massage and Bodyworkers 2
- LMT 141** Professionalism and Ethics of Bodywork 1
- LMT 214** Massage Techniques 2 5
- LMT 215** Clinical Practicum 3
- LMT 233** Complementary Bodywork Systems 2. 2
- LMT 234** Kinesiology 2
- LMT 240** Massage Therapy Internship 2
- LMT 244** Pathology for Massage Therapy. 1
- LMT 254** Pharmacology for Massage Therapy. 1

Total credits required for certificate: 39

Mathematics

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MATHE

Contact: Mathematics Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in mathematics that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: Mathematics majors seek employment in the actuarial sciences, statistics, education, cryptology, cartography, topology, and research. This program is designed to transfer to a university major where students can specialize in one of these areas.

A. Required major courses: 17

- MAT 220** Calculus I with Analytic Geometry 5
- MAT 230** Calculus II with Analytic Geometry. 5
- MAT 241** Calculus III with Analytic Geometry 4
- MAT 262** Introduction to Ordinary Differential Equations 3

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6**
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6**
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6**
- Physical and Biological Sciences. 8**
- Additional Courses** (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 12

Consult with your or academic or faculty advisor for additional departmental courses which may be part of the bachelor’s degree in which you wish to enroll.

Total credits required for degree: 64

Media Arts

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MDART

Contact: Communications Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in media arts that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is designed for those students who wish to continue their studies in the following university majors: broadcasting, electronic media, advertising, photography, public relations, and media arts.

A. Required major courses: 23

- BDC 100** Introduction to Broadcasting 3
- GRA 101** Graphic Communications 1 4
- JRN 100** Introduction to Mass Communications . . . 3
- JRN 125** News Writing 3
- MKT 100** Salesmanship 3
- or**
- MKT 110** Principles of Marketing
- SPC 215** Public Speaking 3
- TVP 125** Television Production 1 4

B. Other departmental requirements: 6

Select 6 credits from the following prefixes:
ART (photography courses only), **BDC**, **GRA**, **JRN**, or **TVP**. Students should meet with an advisor in their chosen emphasis to determine which courses best fit their needs and which are transferable.

C. Arizona General Education Curriculum— Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102)** 6
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities** 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences.** 6
- Physical and Biological Sciences.** 8
- Additional Courses** (see the AGECE-A Additional Courses list for possible selections) 6

D. General electives: 0

Total credits required for degree: 64

Media Arts

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.MDART

Contact: Communications Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in media arts that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is designed not only to provide a foundation in basic media arts course work, but also to allow students to select an area of emphasis: photography, broadcasting, graphic arts, journalism, or television production.

A. Required major courses: 26

- BDC 100** Introduction to Broadcasting 3
- GRA 101** Graphic Communications 1 4
- JRN 100** Introduction to Mass Communications . . . 3
- JRN 125** News Writing 3
- MKT 100** Salesmanship 3
- or**
- MKT 110** Principles of Marketing
- SPC 215** Public Speaking 3
- TVP 125** Television Production 1 4
- ART, BDC, GRA, JRN, or TVP 299** Independent Study/Internship. 3

B. Other departmental requirements: 17

Select an area of emphasis from one of the following prefixes:
ART (photography courses only), **BDC**, **GRA**, **JRN**, or **TVP**. 9
Select additional courses from the following prefixes:
ART (photography courses only),
BDC, **GRA**, **JRN**, or **TVP**. 8

C. General education requirements: 21

- English Composition (ENG 101 and 102)** 6
- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3

Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: **0**

Total credits required for degree: **64**

Media Arts

Certificate

Major Code: CERT.MDART

Contact: Communications Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in media arts that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This program is designed not only to provide a foundation in basic media arts course work, but also to allow students to select an area of emphasis: photography, broadcasting, graphic arts, journalism, or television production.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: **26**

BDC 100 Introduction to Broadcasting.	3
GRA 101 Graphic Communications 1.	4
JRN 100 Introduction to Mass Communications . . .	3
JRN 125 News Writing	3
MKT 100 Salesmanship	3
or	
MKT 110 Principles of Marketing	
SPC 215 Public Speaking	3
TVP 125 Television Production 1	4
ART (photography courses only), BDC , GRA , JRN , or TVP 299 Independent Study/Internship	3

B. Other departmental requirements: **9**

*Select an area of emphasis from one of the following prefixes: **ART** (photography courses only), **BDC**, **GRA**, **JRN**, or **TVP**.*

Total credits required for certificate: **35**

Microcomputer Business Applications

Certificate

Major Code: CERT.MICBA

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in microcomputer business applications that will prepare them to obtain an entry-level position within the field.

Program Description: This program is for students seeking immediate entry-level employment in an office.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: **12**

ACC 111 Career Accounting 1.	3
BUA 109 Principles of Human Relations	3
BUA 110 Business Application Concepts	3
CIS 120 Introduction to Computer Information Systems.	3

B. Other departmental requirements: **11**

CIM 142 Keyboarding—Intermediate.	2
CIS 121 Spreadsheet	3
CIS 131 Database	3
CIS 260 Introduction to Operating Systems	3

Total credits required for certificate: **23**

Music

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MUSIC

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in music that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: The music major provides a solid foundation in music theory and in voice or instrumental performance training. This program is designed for transfer to the university where students then specialize in particular music majors.

A. Required major courses: 16

- MUS 111/112 Dictation and Sight Reading 2
- MUS 191/192 Theory 1A/1B 6
- MUS 211/212 Dictation and Sight Reading 2A/2B . 2
- MUS 291/292 Theory 2A/2B 6

B. Other departmental requirements: 12

- MUS 121/122 Class Piano 1A/1B (for Music Majors)* . 2
- MUS 221/222 Class Piano 2A/2B (for Music Majors)* . 2
- MUS Instrumental or Vocal lessons 4
- MUS Performing Ensembles 4

The following are not required, but highly recommended:

- MUS 141/142 Educational Methods for Brass**
- MUS 171/172 Educational Methods for Woodwinds**

*not required for piano majors

**recommended for all music majors

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) . . 3
- Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

- Social and Behavioral Sciences 6
- Physical and Biological Sciences 8

Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 1

Total credits required for degree: 64

Networking

Certificate

Major Code: CERT.NETWK

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in computer networking that will prepare them to obtain an entry-level position within the field.

Program Description: The computer networking certificate is appropriate for students who want to obtain an entry-level position in network administration for a business, government agency, or nonprofit organizations. The program provides hands-on training in state-of-the art computer technology. With appropriate choice of courses, the majority of this certificate may be completed while pursuing the Associate of Applied Science in Computer Information Systems.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 26

- CIS 120 Introduction to Computer Information Systems 3
- CIS 175 Computer Security 4
- CIS 260 Introduction to Operating Systems 3
- CIS 270 Networking 1 3
- CIS 271 Networking 2 3
- CIS 275 Network Security 4
- CIS 276 Information Systems Security 3
- CIS 295 Structured Systems Analysis and Design . . . 3

B. Other departmental requirements: 6

CIS electives

Total credits required for certificate: 32

Nursing

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.NUR

Contact: Department of Nursing (928) 317-6049

Program Purpose: Graduates will demonstrate (1) knowledge and skills to provide safe care as an entry level nurse, (2) basic knowledge in nursing that

will prepare them for the registered nurse licensure examination, and (3) critical thinking skills in AWC's General Education focus areas..

Program Description: The program is designed to prepare students for entry level nursing practice in a variety of health care settings. The curriculum is designed to offer an exit option at the practical nursing level. Graduates who have obtained a license to practice (RN) are eligible for transfer to advanced degrees in nursing.

Competencies/Student Learning Outcomes

Program graduates are expected to:

1. Provide holistic care that recognizes an individual's preferences, values, and needs and respects the patient or designee as a full partner in providing compassionate, coordinated, age and culturally appropriate, safe and effective care. (Patient Centered Care)
2. Function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development. (Teamwork and Collaboration)
3. Identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients' preferences, experience and values to make practice decisions. (Evidence-Based Practice (EBP))
4. Use data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems. (Quality Improvement (QI))
5. Minimize risk of harm to patients and providers through both system effectiveness and individual performance. (Safety)
6. Use information and technology to communicate, manage knowledge, mitigate error, and support decision making. (Informatics and Technology)
7. Practice accountability during delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles. (Professionalism)
8. Interact effectively with families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes. (Communication)
9. Influence the behavior of individuals or groups of individuals within their environment in a way that will facilitate the establishment and acquisition/achievement of shared goals. (Leadership)
10. Demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystems recourse to provide care that is optimal quality. (System-Based Practice) (Cronewett et al., 2007)

Program Outcomes

1. Students will graduate within 3 years of enrollment at a percentage determined by the faculty.
2. Graduates will have first-time pass on the National Council Licensure Examination (NCLEX) with a rate at or above the national mean for the same time period.
3. Graduate satisfaction with program will be at an average of 3.5 or above on a scale of 1 to 5.
4. Employer satisfaction with program graduates will be at an average of 3.5 or above on a scale of 1 to 5.
5. Graduate employment rate will be at or above the local employment rate.

The AWC Nursing Program is approved by the Arizona State Board of Nursing and is accredited by Accreditation Commission for Education in Nursing, Inc (ACEN), 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326

Admission to or graduation from the program at any level does not guarantee certification or licensure by the Arizona State Board of Nursing. Under the Arizona Law of the State Board of Nursing, an applicant could be denied certification as a nursing assistant or licensure as a registered or practical nurse if convicted of a felony or addicted to habit-forming drugs. Fingerprinting will be required for licensure.

Admission Information:

In order to be eligible to apply for the AWC Nursing Program, the student must:

- have completed the following prerequisite courses: ENG 101 and BIO 201
- be eligible for MAT 142 or approved higher level math course
- have an overall GPA of 2.5 or greater
- have a reading score of 80 or higher on the Computerized Placement Test (CPT-R)
- current and unrestricted Certified Nursing Assistant (CNA) on the Arizona State Board of Nursing (AZBN) registry
- meet the HESI Admission Assessment (HESI A2) requirements: scores of 75% or higher on Math, English Language Composite, and Science Composite

- meet the English language skill requirement if the primary language of the country, in which the prior education was received, is a language other than English

Requests for admission by Licensed Practical Nurses, transfer students, or students requesting re-admission must be submitted in writing to the Director of Nursing. Guidelines and application forms are available on the program website at www.azwestern.edu/nursing. As applicable, students for advanced placement will enroll in a 1 credit by portfolio course that is equivalent to NUR 121.

Additional information is available on the AWC website at www.azwestern.edu/nursing or by contacting the Department of Nursing.

Prerequisites: 7

To be completed prior to entrance into A.A.S. program; students enrolled in these courses use the Major Code: AAS.PRERN

- BIO 201** Anatomy and Physiology I 4
- ENG 101** Freshman Composition 3

A. Required major courses: 46.25

- BIO 202** Human Anatomy and Physiology II 4
- BIO 205** Microbiology 4
- FAS/PSY 238** Human Development 4
- NUR 117** Pharmacology 2
- NUR 121** Nursing 1 8.25
- NUR 122** Nursing 2 8
- NUR 221** Nursing 3 8
- NUR 222** Nursing 4 8

Students must successfully pass designated standardized exams in order to progress to the next nursing course.

B. Other departmental requirements: 0

C. General education requirements: 14

- Freshman Composition (ENG 101)**
(met in prerequisite)
- Freshman Composition (ENG 102)** 3
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities** 3
- Social and Behavioral Sciences (PSY 101** Introduction to Psychology). 3
- Physical and Biological Sciences (BIO 205** Microbiology)
(met in major required courses)
- Additional Courses** 2

D. General electives: 0

Total credits required for degree: 67.25

Nursing Assistant

Certificate

Major Code: CERT.NURAS

Contact: Department of Nursing (928) 317-6049

Program Purpose: Graduates will demonstrate basic knowledge as required of beginning nursing assistant practitioners.

Program Description: This course prepares the learner for taking the state examination to become a certified nursing assistant. The Arizona State Board of Nursing requires evidence of citizenship or nationality for state certification (CNA). Fingerprints needed to take the licensure exam.

A. Required major courses:

- NUR 101** Nursing Assistant 5

B. Other departmental requirements:

In order to be eligible to apply for the AWC Nursing Assistant Program, the student must have the following:

- reading score of 60 or above on the Computerize Placement Test (CPT-R)
- current CPR certification, Professional Rescuer or HealthCare Provider
- current Arizona DPS Fingerprint Clearance Card for Volunteer Health Science Student & Clinical Assistant

Total credits required for certificate: 5

Nursing Practical

Certificate

Major Code: CERT.NURPN

Contact: Department of Nursing (928) 317-6049

Program Purpose: This program is designed to offer students in the A.A.S. degree nursing program an exit option upon completion of the first two semesters of that program. Those desiring to earn this certificate are required to successfully complete a summer course, NUR 123. Students are also eligible

after successful completion of the 3rd semester. They are then eligible to take the NCLEX-PN and to apply to the Arizona State Board of Nursing for licensure as a practical nurse. Fingerprinting will be required for licensure.

Program Description: Nursing-LPN Exit Option

View disclosure information online at www.azwestern.edu/degrees

Prerequisites: 7

- BIO 201** Anatomy and Physiology I 4
- ENG 101** Freshman Composition 3

A. Required major courses: 35.25

- BIO 202** Human Anatomy and Physiology II 4
- FAS/PSY 238** Human Development 4
- NUR 117** Pharmacology with Clinical Calculations . . 2
- NUR 121** Nursing 1 8.25
- NUR 122** Nursing 2 8
- NUR 123** Transition to Practical Nursing 6
- or**
- NUR 221** Nursing 3* 8
- PSY 101** Introduction to Psychology. 3

*A licensure topics tutorial is also required.

Total credits required for certificate: 42.25

Office Administration

Certificate

Major Code: CERT.OFFAD

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in office administration that will prepare them to obtain an entry-level position within the field.

Program Description: For students whose personal interests and needs can be met by a concentration of office administration courses and who do not wish to earn a degree.

Advantages to students enrolled in this program include marketable office skills and the program may be completed within a year. On the other hand, a certificate program may limit or restrict individuals from future job programs or opportunities for advance-

ment. Individuals who successfully complete this program in office administration may secure entry-level positions such as file clerk, receptionist, clerk typist, cashier, teller, hospital admitting clerk, transcribing machine operator, among others.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 11

- ACC 111** Career Accounting 1. 3
- or**
- ACC 211** Financial Accounting
- BUA 110** Business Application Concepts 3
- CIM 141** Keyboarding: Introduction 2
- or**
- CIM 142** Keyboarding: Intermediate
- CIS 120** Introduction to Computer Information Systems. 3

B. Other departmental requirements: 9

Select 9 credits from the following:

- BUA 290** Business Communications
- CIM 142** Keyboarding: Intermediate
- CIM 160** Automated Filing Systems
- CIS 121** Spreadsheet
- CIS 131** Database
- CIM 298** Internship (maximum of 2 credits)

C. General education requirements:

- English Composition (ENG 100 and 101)** 6

Total credits required for certificate: 26

Paralegal Studies

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.LEGAL

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate 1) basic knowledge in legal skills which will prepare them to obtain an entry level position within a law office, corporation, governmental agency, or other entity and 2) competency in communications, critical thinking, quantitative analysis, and technological applications.

Program Description: Preparation for entry level employment in law offices. Provides students with practical legal skills enabling them to draft legal documents. Students are familiarized with fundamental concepts of substantive areas such as torts and business law. Legal theory and related practical applications are integrated throughout the program.

A. Required major courses: 43

LAS 100 Introduction to Paralegalism. 3
LAS 101 Introduction to Law. 3
LAS 109 Legal Procedures 4
LAS 115 Criminal Trial Procedure. 3
LAS 131 Legal Writing 3
LAS 204 Business Law for Paralegals 3
LAS 208 Probate 3
LAS 211 Legal Research 3
LAS 212 Insurance and Tort Law 3
LAS 216 Real Estate Transactions. 3
LAS 217 Family Law 3
LAS 218 Administrative Law 3
LAS 219 Bankruptcy 3
LAS 220 Legal Interviewing, Investigating,
and Report Writing 3

B. Other departmental requirements: 0

C. General education requirements: 21

English Composition (ENG 100, 101, or 102) 6
Mathematics (MAT 142 College Mathematics with
Applications or approved higher level math) 3
Arts and Humanities 3
Social and Behavioral Sciences. 3
Physical and Biological Sciences. 4
Additional Courses 2

D. General electives: 0

Total credits required for degree: 64

Students pursuing a paralegal career may also benefit from the following recommended electives:

- CIS 120** Introduction to Computer Information Systems
- CIS 175** Computer Security
- LAS 221** Computerized Law Office and Litigation Support
- LAS 222** Paralegal Internship 1

LAS 223 Paralegal Internship 2

LAS 224 Paralegal Internship 3

Paralegal Studies

Certificate

Major Code: CERT.LEGAL

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate 1) basic knowledge in legal skills which will prepare them to obtain an entry level position within a law office, corporation, governmental agency, or other entity and 2) competency in communications, critical thinking, quantitative analysis, and technological applications.

Program Description: Preparation for entry level employment in law offices. Provides students with practical legal skills enabling them to draft legal documents. Students are familiarized with fundamental concepts of substantive areas such as torts and business law. Legal theory and related practical applications are integrated throughout the program.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 22

LAS 100 Introduction to Paralegalism. 3
LAS 101 Introduction to Law. 3
LAS 109 Legal Procedures 4
LAS 131 Legal Writing 3
LAS 204 Business Law for Paralegals 3
LAS 211 Legal Research 3
LAS 212 Insurance and Tort Law 3

B. Other departmental requirements: 6

Select a minimum of 6 credits from the following courses:

- LAS 115** Criminal Trial Procedure
- LAS 208** Probate
- LAS 216** Real Estate Transactions
- LAS 217** Family Law
- LAS 218** Administrative Law
- LAS 219** Bankruptcy
- LAS 220** Legal Interviewing, Investigating, and Report Writing
- LAS 221** Computerized Law Office and Litigation Support

- LAS 222 Paralegal Internship 1
- LAS 223 Paralegal Internship 2
- LAS 224 Paralegal Internship 3

Total credits required for certificate: 28

Philosophy

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.PHILO

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge and analytical skill in philosophy that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Philosophy is the study of the relationships between personal opinions and real-world issues faced by members of a pluralistic, open society. This program constitutes an excellent liberal arts foundation for students planning to pursue university studies in philosophy, law, education, communication, and art, among others.

A. Required major courses: 9

- PHI 101 Introduction to Philosophy 3
- PHI 103 Introduction to Logic 3
- PHI 105 Introduction to Ethics. 3

B. Other departmental requirements: 6

Select 6 credits from the following courses:

- PHI 210 Philosophy of Science
- PHI 220 Medical Ethics
- PHI 233 Philosophy of Religion
- PHI 240 Ancient Philosophy
- PHI 257 Social and Political Philosophy

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

- Social and Behavioral Sciences. 6
- Physical and Biological Sciences. 8
- Additional Courses (see the AGECE-A Additional Courses list for possible selections) 6

D. General electives: 14

Total credits required for degree: 64

Physics

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.PHYSI

Contact: Science Division (928) 344-7656

Program Purpose: Graduates will demonstrate (1) basic knowledge in physics that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Physics is the study of nature's most basic interactions between matter and energy. This program prepares students for transfer to a university to major in physics or in a closely related career for which physics is an integral part.

A. Required major courses: 8

- PHY 121 Mechanics 4
- PHY 131 Electricity and Magnetism 4

B. Other departmental requirements: 12

- MAT 230 Calculus II with Analytic Geometry. 5
- MAT 241 Calculus III with Analytic Geometry 4
- MAT 262 Introduction to Ordinary Differential Equations. 3

C. Arizona General Education Curriculum-Science (AGEC-S): 37-39

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math). . . 5
- Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences	6
Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II)	8
Additional Courses (see the AGEC-S Additional Courses list for possible selections).	6-8

D. General electives: 7

Total credits required for degree: 64

Plumbing

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.PLMB

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in plumbing that will prepare them to obtain an entry-level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides the student with the essential skills required of an entry-level employee in the plumbing industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

A. Required major courses: 22

PCT 100 Core Curriculum Introductory Crafts Skills . . .	5
PCT 105 Plumbing Safety	3
PCT 115 Plumbing Drain, Waste, and Venting Systems	3
PCT 205 Plumbing Water Supply and Distribution Systems	4
PCT 210 Plumbing Fixture and Appliance Installation . . .	4

B. Other departmental requirements: 21

ACR 101 Air Conditioning and Refrigeration 1	3
CTM 110 Construction Estimating	3
CTM 230 Construction Management Field Operations	3
DFT 185 Introduction to Computer Aided Drafting	3
ECT 105 Basic Electricity	3
ENT 240 Business Plan Development	3
TEC 165 Employee and Occupational Safety	3

C. General education requirements: 21

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 College Mathematics for Applied Sciences or approved higher level math).	3
Arts and Humanities	3
Social and Behavioral Sciences	3
Physical and Biological Sciences	4
Additional Courses	2

D. General electives: 3

Total credits required for degree: 64

Plumbing Technology

Certificate

Major Code: CERT.PLMB

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in Plumbing that will prepare them to obtain an entry-level position within the field and critical thinking skills in AWC's General Education focus areas.

Program Description: Provides the student with the essential skills required of an entry-level employee in the Plumbing industry. Program curriculum is aligned with National Center for Construction Education Research standardized national skills standards for the construction trades.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 19

PCT 100 Core Curriculum Introductory Crafts Skills . . .	5
PCT 105 Plumbing Safety	3
PCT 115 Plumbing Drain, Waste, and Venting Systems	3
PCT 205 Plumbing Water Supply and Distribution Systems	4
PCT 210 Plumbing Fixture and Appliance Installation	4

B. Other departmental requirements: 6

ACR 101 Air Conditioning and Refrigeration 1	3
ECT 105 Basic Electricity	3

Total credits required for certificate: 25

Political Science

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.POLSC

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in political science that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: Political science studies governments, politics, and social ideologies. This program not only is for students who wish to become political scientists, but also is an excellent preparation for pre-law.

A. Required major courses: 6

- POS 100 Introduction to Politics 3
- POS 110 American Politics 3

B. Other departmental requirements: 6

- POS 120 World Politics
- POS 130 State and Local Politics
- POS 140 Comparative Politics
- POS 257 Social and Political Philosophy

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6
- Physical and Biological Sciences. 8
- Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 17

Total credits required for degree: 64

Pre-Health Careers

Certificate

Major Code: CERT.PREHC

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: To prepare the student to enter the healthcare related career programs.

Program Description: Provide students interested in a health care profession with a consolidated group of courses that will meet the prerequisites for entering into various health care programs

A. Required major courses: 8

- AHE 101 Medical Terminology 3
- EMS 106 Introduction to Health Care. 5

B. Other departmental requirements: 22

- BIO 160 Introduction to Anatomy and Physiology . . 4
- ENG 100, 101, or 102 English Composition. 6
- MAT 105 Mathematics for the Applied Sciences . . . 3
- or
- MAT 142 College Mathematics with Applications or approved higher level math
(contact advisor for specific course recommendation)
- ORI 101 Strategies for Success 3
- PHI 220 Medical Ethics. 3
- PSY 101 Introduction to Psychology. 3

C. General electives: 3

(contact advisor for specific course recommendation)

Total credits required for certificate: 33

Project Supervision and Management

Certificate

Major Code: CERT.PRJSM

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: To prepare the student to work more effectively as a project supervisor, project manager through the study and use of a comprehensive, competency-based program that will give students wishing to work as a field manager a step-by-step approach to developing their abilities, essential skills, and generally improving their performance as leaders in the construction industry.

Program Description: Students enrolled in this program will gain valuable instruction in communication, safety and the supervisor's role, conflict management, construction documentation, scheduling, cost control, time management and resource control. Students will learn the characteristics of a project manager, the basic functions of project management, ethical approaches to project management, flow and phases of a construction project and the four common construction delivery systems.

A. Required major courses: 13

- MFG 200** Manufacturing Project Supervision I 3
- MFG 201** Manufacturing Project Supervision II 3
- MFG 202** Manufacturing Project Management I 3
- MFG 203** Manufacturing Project Management II 4

Total credits required for certificate: 13

Psychology/Sociology

Associate in Arts (A.A.) degree

Pathway: Psychology: AA/SR; Sociology: AA/GR

Major Code: AA.PSYSO

Contact: Social Sciences Division (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in psychology and sociology that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: This combined major in the behavioral sciences allows students continuing at the university to major in either field. Also, students considering a career in social work or other human services can use this program as a solid preparation for those careers.

A. Required major courses: 22

- PSY 101** Introduction to Psychology 3
- PSY 270** Social Psychology 3
- PSY 281** Abnormal Psychology 3
- PSY 290** Research Methods for the Social Sciences 4
- SOC 101** Introduction to Sociology 3
- SOC 230** Social Problems 3
- SOC 240** Racial and Ethnic Relations 3

B. Other departmental requirements: 3-4

Select one of the following courses:

- PSY 230** Statistics for the Social Sciences
(required in the baccalaureate
Psychology major)
- SOC 160** Close Relationships (required in the
baccalaureate Sociology major)

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6**
- Mathematics (MAT 142** College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities 6**
(Select at least one course from the Arts list and one course from the Humanities list.)
- Social and Behavioral Sciences. 6**
- Physical and Biological Sciences. 8**
- Additional Courses** (see the AGEC-A Additional Courses list for possible selections) 6

D. General electives: 3-4

It is recommended that at least one of the following courses be taken as an elective:

- ANT 130** Cultural Anthropology
- PSY/SOC 170** Human Sexuality
- PSY 227** Personality
- PSY/FAS 238** Human Development

Total credits required for degree: 64

Radiologic Technology

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.RADTE

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: The Radiologic Technology program is a comprehensive competency-based program of study that prepares students to sit for the National Registry Examination offered by the American Registry of Radiologic Technologists and allows successful students to graduate with expertise at the entry level in the field of diagnostic radiology. Students will be able to use critical thinking skills, communicate professionally, and apply quantitative analytical skills to community-centered professional practice, for the fulfillment of personal goals, or to be eligible for education and training in other specialized diagnostic imaging fields.

Program Description: Radiologic Technology prepares the graduate for a career in diagnostic medical imaging. The Associate in Applied Science degree prepares graduates for application to the certification examination administered by the American Registry of Radiologic Technologists (ARRT). The radiologic technologist may secure employment in hospitals, clinics, and other health care agencies. Admission to the Radiologic Technology Program requires a separate application procedure. Students are encouraged to meet with a program advisor within the department. Admission to and graduation from the program does not guarantee certification by the ARRT. Under the guidelines of the ARRT a felony conviction can cause the applicant to be denied certification. Applicants are encouraged to contact the ARRT to petition and submit documents pertinent to an existing felony conviction prior to making application to the program.

Program Outcomes:

- Demonstrate acceptable positioning skills.
- Adjust positioning strategies to suit patient's conditions.
- Use critical thinking skills to perform competency evaluations on exams that require non routine views .
- Illustrate and explain patient care concepts using communication skills.
- Apply technical concepts to produce images of optimum quality.
- Access and archive radiographic studies using PACS.
- Determine the importance of involvement with professional associations.
- Exhibit professional behaviors in the performance of their clinical practice.

General education and major prerequisites:

To be completed prior to application to the A.A.S program. A grade of "C" or higher is required for admission to the program. 25

General Education prerequisites:

English Composition (ENG 100, 101 or 102). 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3

Arts and Humanities 3

Social and Behavioral Sciences (PSY 101 Introduction to Psychology). 3

Physical and Biological Sciences

BIO 160 Intro. to Anatomy and Physiology 4

or

BIO 201 and **BIO 202** Human Anatomy and Physiology I &II. 8

Additional Courses (CIS 120 Introduction to Computer Information Systems). 3

Major prerequisite:

AHE 101 Medical Terminology 3

A. Required major courses 57

RAD 100 Introduction to Radiography and Patient Care 2

RAD 105 Basic Radiographic Procedures 3

RAD 106 Intermediate Radiographic Procedures. . . 3

RAD 110 Patient Care in Imaging Technology. . . . 3

RAD 111 Radiographic Anatomy and Physiology. . . 3

RAD 115 Principles of Radiographic Imaging 1 . . . 3

RAD 120 Clinical 1 Medical Radiologic Technology 3

RAD 121 Clinical 2 Medical Radiologic Technology 4

RAD 122 Clinical 3 Medical Radiologic Technology 4

RAD 200 Radiographic Imaging Equipment 3

RAD 205 Advanced Radiologic Procedures 3

RAD 207 Radiation Biology and Protection. 3

RAD 215 Principles of Radiographic Imaging 2 . . . 3

RAD 216 Radiologic Pathology 3

RAD 217 Advanced Medical Imaging. 2

RAD 220 Clinical 4 Medical Radiologic Technology 5

RAD 221 Clinical 5 Medical Radiologic Technology 5

RAD 225 Radiologic Technology Seminar. 2

B. Other departmental requirements: 0

C. General education requirements: 22

(completed as prerequisites to program)

D. General electives: 0

Total credits required for degree: 82

Recreation Management

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.RECMG

Contact: Wellness and Physical Education (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in recreation planning and development, leisure delivery services in public, private, and commercial settings, as well as general knowledge of outdoor skills.

Program Description: Provides graduates with essential skills required of an entry level employee in parks and recreation, community agencies such as long term care centers, and other recreation based organizations.

A. Required major courses: 30

- BUA 109** Principles of Human Relations 3
- PEM 102** Emergency Care for Coaches 2
- HRM 210** Customer Service Management 3
- PED 120** Leisure and Quality of Life 3
- PER 130** Outdoor Adventure Skills 3
- PER 210** Leisure Delivery Systems 3
- PER 230** Recreation Programming and Management . 3
- REC 250** Recreation Leadership. 3
- WED 110** Concepts of Wellness 3
- Outdoor Activity courses 4

B. Program electives: 3

- PEM 202** Sports Injury Management
- PEM 203** Sports Psychology
- WED 102** Overview of Herbal Remedies
- WED 109** Humor and Play
- WED 112** Exploring Native American Medicine Ways
- WED 122** Meditation and Wellness
- WED 212** Stress Management
- Any Fine or Performing Arts course

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102)** 6

- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3
- Arts and Humanities** 3
- Social and Behavioral Sciences (FAS/PSY 238** Human Development) 4
- Physical and Biological Sciences.** 4
- Additional Courses** 1

D. General electives: 10

Total credits required for degree: 64

Recreation Management

Certificate

Major Code: CERT.RECMG

Contact: Wellness and Physical Education (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in recreation planning and development, leisure delivery services in public, private, and commercial settings, as well as general knowledge of outdoor skills.

Program Description: Provides graduates with essential skills required of an entry level employee in parks and recreation, community agencies such as long term care centers, and other recreation based organizations.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 30

- BUA 109** Principles of Human Relations 3
- EMS 150** Emergency Care 2
- HRM 210** Customer Service Management 3
- PED 120** Leisure and Quality of Life 3
- PER 130** Outdoor Adventure Skills 3
- PER 210** Leisure Delivery Systems 3
- PER 230** Recreation Programming and Management 3
- REC 250** Recreation Leadership. 3
- WED 110** Concepts of Wellness 3
- Outdoor Activity courses 4

B. Program electives: 3

- PEM 202** Sports Injury Management

- PEM 203 Sports Psychology
- WED 102 Overview of Herbal Remedies
- WED 109 Humor and Play
- WED 112 Exploring Native American Medicine Ways
- WED 122 Meditation and Wellness
- WED 212 Stress Management
- Any Fine or Performing Arts course

Total credits required for certificate: 33

Retail Management

Certificate

Major Code: CERT.RETMG

Contact: Business and Computer Information Systems Division (928) 344-7689

Program Purpose: Graduates will demonstrate leadership skills in retail management.

Program Description: Fundamentals in business accounting, management, marketing, personnel supervision and leadership.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 24

- ACC 111 Career Accounting 1. 3
- BUA 110 Business Application Concepts 3
- CIS 120 Introduction to Computer Information Systems . 3
- MGT 135 Management Fundamentals 3
- MGT 220 Principles of Retailing. 3
- MGT 250 Personnel Supervision 3
- MGT 280 Leadership 3
- MKT 110 Principles of Marketing. 3

B. Other departmental requirements: 6

- ENG 110 Technical Writing 3
- SPC 110 Introduction to Speech Communications. . 3

Total credits required for certificate: 30

Social Work: US-Mexico Border Emphasis

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SOCWK

Contact: Social Sciences Division (928) 344-7689

Program Purpose: This program is designed to prepare students to enter university programs to earn baccalaureate and graduate degrees in the field of Social Work. Graduates will demonstrate (1) basic knowledge of social work theory that will prepare them to transfer to university social work programs; and(2) critical thinking skills in AWC's General Education focus areas.

Program Description: Students in this major receive a foundation in the social sciences, language and related fields that that prepares them to meet the demands of promoting human and community well-being. Graduates will be ready to enter university baccalaureate study versed in the underpinnings of the field of social work. "Guided by a person and environment construct, a global perspective, respect for human diversity, and knowledge based on scientific inquiry, social work's purpose is actualized through its quest for social and economic justice, the prevention of conditions that limit human rights, the elimination of poverty, and the enhancement of the quality of life for all persons." (Council on Social Work Education, 2008, p. 1)

A. Required major courses: 13

- PSY 101 Introduction to Psychology. 3
- PSY/FAS 238 Human Development 4
- SOC 240 Racial and Ethnic Relations 3
- SOC 250 Introduction to Social Work. 3

B. Other departmental requirements: 10

- HIS 280 History of Mexico. 3
- FAS 185 Family Communication Skills 3
- PSY 230 Statistics for the Social Sciences 4

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

- Freshman Composition (ENG 101 and 102) 6
- Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3
- Arts and Humanities (PHI 105 Introduction to Ethics and an Arts course). 6
- Social and Behavioral Sciences (SOC 101 Introduction to Sociology and FAS 204 Gender Relations). 6

Physical and Biological Sciences (BIO 160 Introduction to Human Anatomy and Physiology and one additional course)	8
Additional Courses (SPA 101 Elementary Spanish 1 and SPA 102 Elementary Spanish 2)	6

D. General electives: (SPC 215 Public Speaking recommended)	4
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Total credits required for degree:	64
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Solar Panel Installation Level 1

Certificate

Major Code: CERT.SOLIN

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in the installation of both residential and commercial photovoltaic panels preparing them to sit for the North American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Examination.

Program Description: Students enrolled in this program using a nationally developed curriculum will develop knowledge and skills to successfully install photovoltaic panels. The student will gain a basic understanding of electrical theory, wiring to proper code requirements, proper safety and panel mounting, panel positioning and tie-in to the commercial grid. Students will have the skills necessary to enter the workforce as an entry level solar panel installer.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 31

ECT 100 Core Curriculum Introductory Craft Skills	5
ECT 105 Basic Electricity	3
ECT 110 AC/DC Circuits	4
ECT 115 National Electrical Code	3
ECT 220 Electrical Installation	5
ECT 225 Load Calculation	3
TEC 140 Roofing Construction & Safety	2
SLR 105 Intro to Solar Photovoltaics 1	3
SLR 110 Intro to Solar Photovoltaics 2	3

Total credits required for certificate:	31
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Solar Photovoltaic Installation

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.SOLPV

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate 1) basic knowledge in the installation of both residential and commercial photovoltaic panels preparing them to sit for the North American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Examination. 2) competency in communication, critical thinking, quantitative analysis and technological applications prepare the student for career opportunities in the manufacturing industry with an emphasis on plant electrical operations and solar technology.

Program Description: Students enrolled in this program using a nationally developed curriculum will develop knowledge and skills to successfully install photovoltaic panels. The student will gain a basic understanding of electrical theory, wiring to proper code requirements, proper safety and panel mounting, panel positioning and tie-in to the commercial grid. Students will have the skills necessary to enter the workforce as an entry level solar panel installer.

A. Required major courses: 31

ECT 100 Core Curriculum Introductory Craft Skills	5
ECT 105 Basic Electricity	3
ECT 110 AC/DC Circuits	4
ECT 115 National Electrical Code	3
ECT 220 Electrical Installation	5
ECT 225 Load Calculation	3
TEC 140 Roofing Construction & Safety	2
SLR 105 Intro to Solar Photovoltaics 1	3
SLR 110 Intro to Solar Photovoltaics 2	3

B. Other departmental requirements: 11

ECT 205 Fixtures and Installation	4
ECT 210 Control Circuits	4
MFG 195 Materials Science and Metallurgy	3

C. General education requirements: 21

English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).	3
Arts and Humanities	3

Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses	2

D. General electives: 1

Total credits required for degree: 64

Spanish

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SPANI

Contact: Modern Languages Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in Spanish that will prepare them for transfer to the university and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: This program is designed for students who wish to transfer to a university and either major in Spanish or in a closely related major of which Spanish is an integral part. Spanish majors should consult the bachelor’s degree requirements of the universities to determine the inclusion of 100 and 200 level courses as part of the major.

200 level courses are not part of the Spanish major at the three State universities; students choosing this major need to understand that it is preparatory to the upper division course work required at the universities and that the university major may take longer to complete than the usual two years or four semesters beyond the associate’s degree.

A. Required major courses: 12

SPA 251 Intermediate Spanish Grammar and Composition 3

SPA 260 Mexican-American Literature. 3

or

SPA 263 Introduction to Hispanic Film and Culture

SPA 261 Introduction to Spanish Literature 3

SPA 265 Survey of Spanish and Spanish-American Literature 3

B. Other departmental requirements: 0

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGECA Additional Courses list for possible selections) 6

D. General electives: 17

Total credits required for degree: 64

Television Production

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.TVPRO

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in television production that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC’s General Education focus areas.

Program Description: AWC provides TV classes and programs on AWC-74, cable channel 74. This is a joint project with NAU in Yuma, the City of Yuma, the Yuma Educational Consortium, and Time Warner Cable. AWC-74 programming includes telecourses offered by AWC faculty, courses from other educational institutions, PBS shows, productions and cablecasts of educationally related subjects, cultural events, and AWC sports. AWC’s TV studio is a modern facility which trains students who are seeking a job in television, production companies, and media related fields. The program provides practical experience in the use of professional equipment in a television studio.

A. Required major courses: 31

BDC 100 Introduction to Broadcasting. 3

BDC 120 Announcing and Performance 1. 3

BDC 210 Broadcast Writing. 3

BDC 215 Audio Production. 3

JRN 100 Introduction to Mass Communications . . .	3
SPC 215 Public Speaking	3
TVP 125 Television Production 1	4
TVP 170 TV Control Room Operation.	3
TVP 225 Television Production 2	3
TVP 250 Video Post Production	3
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B. Other departmental requirements:	6
JRN 125 News Writing	3
Any CIS course	3
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C. General education requirements:	21
English Composition (ENG 100, 101, or 102)	6
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math). . .	3
Arts and Humanities	3
Social and Behavioral Sciences.	3
Physical and Biological Sciences.	4
Additional Courses (SPC 215 see above).	2
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D. General electives:	6
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Total credits required for degree:	64

Theatre

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.THETR

Contact: Fine Arts Division (928) 344-7591

Program Purpose: Graduates will demonstrate (1) basic knowledge in theatre that will prepare them for transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: After a solid preparation in theatre history and the fundamentals in acting or stagecrafts, theatre majors then have the opportunity to include their performances as cast or crew members as departmental credit.

A. Required major courses:	9
THE 101 Survey of Theatre History.	3
THE 102 History of Contemporary Theatre	3
*THE 172 Acting 2 or *THE 130 Stagecrafts	3
<i>*It is highly recommended that both courses be taken.</i>	

B. Other departmental requirements:	12
<i>Select from the following courses:</i>	
THE 171 Acting 1	
THE 213 Creative Drama	
THE 215 Basic Stage Lighting	
THE 222 Voice and Diction	
THE 242 Intro to Oral Interpretation	
THE 250 Rehearsal and Production (repeatable)	

C. Arizona General Education Curriculum-Arts (AGEC-A):	35
Freshman Composition (ENG 101 and 102)	6
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . .	3
Arts and Humanities	6
<i>(Select at least one course from the Arts list and one course from the Humanities list.)</i>	
Social and Behavioral Sciences.	6
Physical and Biological Sciences.	8
Additional Courses (see the AGECE-A Additional Courses list for possible selections)	6

D. General electives:	8
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Total credits required for degree:	64
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Welding

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.WELDT

Contact: Career and Technical Education Division (928) 344-7567

Program Purpose: Graduates will demonstrate (1) basic knowledge in welding that will prepare them to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.

Program Description: In industrial manufacturing, the practice of joining and severing metals is a science and an art which requires combined knowledge and skills in a variety of industrial/technical fields. The welding faculty offers a selection of technology courses and programs that prepare the individual for entry level in a welding career. The curriculum offers

a variety of ways in which students can realize their training and educational goals. Student needs are matched with the appropriate sequence of course work within one of the following: specialized single course, the certificate program, or the A.A.S. program. The content and instruction within welding centers on the “traditional” welding processes and practices of oxyacetylene welding and cutting, shielded metal arc (stick), gas tungsten arc (Tig-Heliarc), gas metal arc (MIG), as well as the “non-traditional” processes of plasma arc, resistance welding, fluxed core arc, submerged arc, and electron beam. Participation in, and completion of, the different sequences of instruction within the welding department prepares the individual for a rewarding career in metal fabrication, maintenance, education, supervision, sales and service, as well as many other opportunities associated with welding technology.

A. Required major courses: 30

- MFG 185** Quality Control and Inspection 3
- MFG 195** Materials Science and Metallurgy 3
- WLD 105** Techniques in Oxyacetylene Welding and Cutting. 3
- WLD 106** Techniques in Shielded Metal Arc Welding 3
- WLD 108** Techniques in Gas Tungsten Arc Welding 3
- WLD 109** Techniques in Gas Metal Arc Welding . . . 3
- WLD 123** Manufacturing/Welding Technology Survey 3
- WLD 124** Arc Welding Processes and Power Sources. 3
- WLD 125** Welding Design, Layout, and Fabrication 3
- WLD 224** Technical Specialized Welding Process . . 3

B. Other departmental requirements: 16

- DFT 181** Industrial Graphics—Drafting 3
- ECT 105** Basic Electricity. 3
- ENG 110** Technical Writing 3
- MFG 191** Machine Tool Operations 4
- TEC 165** Employee and Occupational Safety. 3

C. General education requirements: 21

- English Composition (ENG 100, 101, or 102)** 6
- Mathematics (MAT 105** Mathematics for the Applied Sciences or approved higher level math). . . 3
- Arts and Humanities** 3
- Social and Behavioral Sciences.** 3

- Physical and Biological Sciences.** 4
- Additional Courses** 2

D. General electives: 0

Total credits required for degree: 67

Students pursuing a welding career may also benefit from the following recommended electives:

- ENT 240** Business Plan Development
- MFG 192** Precision Machining
- WLD 127** Welder Certification and Code Application

Welding

Certificate

Major Code: CERT.WELDG

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate basic knowledge in welding that will prepare them to obtain an entry-level position within the field.

Program Description: see entry above under Welding (A.A.S.)

A. Required major courses: 33

- DFT 181** Industrial Graphics—Drafting 3
- WLD 101** Math Applications for Welders 3
- WLD 105** Techniques in Oxyacetylene Welding/Cutting 3
- WLD 106** Techniques in Shielded Metal Arc Welding 3
- WLD 108** Techniques in Gas Tungsten Arc Welding 3
- WLD 109** Techniques in Gas Metal Arc Welding . . . 3
- WLD 123** Manufacturing/Welding Technology Survey 3
- WLD 124** Arc Welding Processes and Power Sources. 3
- WLD 125** Welding Design, Layout, and Fabrication 3
- WLD 127** Welder Certification and Code Application 6

B. Other departmental requirements: 13

- MFG 185** Quality Control and Inspection 3
- MFG 191** Machine Tool Operations 4

MFG 195 Materials Science and Metallurgy 3

TEC 165 Employee and Occupational Safety. 3

Total credits required for certificate:. 46

Students pursuing a welding career may also benefit from the following recommended electives:

ECT 105 Basic Electricity

ENT 240 Business Plan Development

TEC 298 Independent Study

WLD 100 Core Curriculum Introductory Craft Skills

ENT 240 Business Plan Development

WLD 100 Core Curriculum Introductory Craft Skills

WLD 128 Welder Certification and Code Application- Open Root

Welding Certificate of Proficiency GMAW (Gas Metal Arc Welding)/ FCAW (Flux Core Arc Welding) Plate

Certificate

Major Code: CERT.GMAW

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate skills in Gas Metal Arc Welding and Flux Core Arc Welding which will prepare them to obtain an entry level position in the field.

Program Description: Graduates will demonstrate (1) basic knowledge in the welding field required of an entry level employee in the industry and (2) critical thinking skills in AWC's General Education focus areas.

View disclosure information online at www.azwestern.edu/degrees

Welding AWS (American Welding Society) Entry Level 1

Certificate

Major Code: CERT.WAWS

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate skills necessary to obtain certification from the American Welding Society.

Program Description: Provides students with skills required to qualify for certification by the American Welding Society.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 21

WLD 101 Math Applications for Welders 3

WLD 104 Techniques in Flux Core Arc Welding . . . 3

WLD 105 Techniques in Oxyacetylene
Welding/Cutting 3

WLD 106 Techniques in Shielded Metal Arc Welding . 3

WLD 108 Techniques in Gas Tungsten Arc Welding 3

WLD 109 Techniques in Gas Metal Arc Welding . . . 3

WLD 125 Welding Design Layout and Fabrication. . 3

B. Other departmental requirements:. 10

MFG 191 Machine Tool Operations 4

WLD 127 Welder Certification and Code Application 6

Total credits required for certificate:. 31

Students pursuing a welding career may also benefit from the following recommended electives:

A. Required major courses: 12

WLD 101 Math Applications for Welders 3

WLD 104 Techniques in Flux Core Arc Welding . . . 3

WLD 109 Techniques in Gas Metal Arc Welding . . . 3

WLD 125 Welding Design Layout and Fabrication. . 3

B. Other departmental requirements:. 7

DFT 181 Industrial Graphics—Drafting 3

MFG 191 Machine Tool Operations 4

Total credits required for certificate:. 19

Welding Certificate of Proficiency SMAW (Shielded Metal Arc Welding) Plate

Certificate

Major Code: CERT.SMAW

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: Graduates will demonstrate skills in Shielded Metal Arc Welding which will prepare them to obtain an entry level position in the field.

Program Description: Graduates will demonstrate skills in (1) basic knowledge in the welding field required of an entry level employee in the industry and (2) critical thinking skills in AWC's General Education focus areas.

View disclosure information online at www.azwestern.edu/degrees

A. Required major courses: 18

- WLD 101** Math Applications for Welders 3
- WLD 105** Techniques in Oxyacetylene
Welding/Cutting 3
- WLD 106** Techniques in Shielded Metal
Arc Welding 3
- WLD 125** Welding Design, Layout, and Fabrication 3
- WLD 127** Welder Certification and
Code Application 6

B. Other departmental requirements: 7

- DFT 181** Industrial Graphics- Drafting 3
- MFG 191** Machine Tool Operations 4

Total credits required for certificate: 25

Students pursuing a welding career may also benefit from the following recommended electives:

- ENT 240** Business Plan Development
- WLD 100** Core Curriculum Introductory Craft Skills

Welding Technology (General Education Emphasis)

Associate in Applied Science (A.A.S.) degree

Major Code: AAS.WLDGE

Contact: Career and Technical Education Division
(928) 344-7567

Program Purpose: In industrial manufacturing, the practice of joining and severing metals is a science and an art which requires combined knowledge and skills in a variety of industrial/technical fields. This program will prepare the individual for entry level in a welding career. Student are instructed on the traditional welding processes and practices of oxyacetylene welding and cutting, shielded metal arc (stick), gas tungsten arc (Tig-Heliarc), gas metal arc (MIG), as well as the non-traditional processes of plasma arc, resistance welding, fluxed core arc, submerged arc, and electron beam. Participation in, and completion of, the different sequences of instruction within the welding department prepares the individual for a rewarding career in metal fabrication, maintenance, education, supervision, sales and service, as well as many other opportunities associated with welding technology.

Program Description: This program provides courses in the welding and technical subject areas as well as the required general education courses to prepare students to transfer to a university.

A. Required major courses: 30

- MFG 185** Quality Control and Inspection 3
- MFG 195** Materials Science and Metallurgy 3
- WLD 105** Techniques in Oxyacetylene Welding
and Cutting. 3
- WLD 106** Techniques in Shielded Metal
Arc Welding 3
- WLD 108** Techniques in Gas Tungsten Arc Welding 3
- WLD 109** Techniques in Gas Metal Arc Welding . . . 3
- WLD 123** Manufacturing/Welding
Technology Survey 3
- WLD 124** Arc Welding Processes and
Power Sources. 3
- WLD 125** Welding Design, Layout, and Fabrication 3
- WLD 224** Technical Specialized Welding Process . . 3

B. Other departmental requirements: 10

- DFT 181** Industrial Graphics—Drafting 3
- MFG 191** Machine Tool Operations 4
- TEC 165** Employee and Occupational Safety. 3

C. Arizona General Education Curriculum-Arts (AGEC-A): 35

Freshman Composition (ENG 101 and 102) 6

Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). . . 3

Arts and Humanities 6

(Select at least one course from the Arts list and one course from the Humanities list.)

Social and Behavioral Sciences. 6

Physical and Biological Sciences. 8

Additional Courses (see the AGECA Additional Courses list for possible selections) 6

D. General electives: 0

Total credits required for degree: 75



Course Information

[Prefix Definitions](#)

[Guide to Course Terminology](#)

[Alphanumeric Course Listing](#)

This section of the catalog provides descriptions of the courses offered at AWC. Each description also includes credits and prerequisites/corequisites for the course. All courses are listed alphabetically by course prefix, and numerically by course number. For more information on any specific course, contact the academic division offering the course.

PREFIX DEFINITIONS

ACC	Accounting
ACR	Air Conditioning and Refrigeration
AGB	Agricultural Business Management
AGS	Agricultural Science
AHE	Allied Health
 AIS	American Indian Studies
AJS	Administration of Justice Studies
ANS	Animal Sciences
ANT	Anthropology
ARB	Arabic
ARC	Architectural Technology
ARH	Art History
ART	Art
ASL	American Sign Language
AST	Astronomy
AUT	Automotive Technology
AWC	College and Career Information
BDC	Broadcasting
BIO	Biology
BUA	Business Administration
CET	Civil Engineering Technology
CHM	Chemistry
CHW	Community Health Worker
CIM	Computer Information Management
CIS	Computer Information Systems
CSC	Computer Science
CTM	Construction Trades Management
CUL	Culinary Arts
DFT	Drafting
DNC	Dance
ECE	Early Childhood Education
ECN	Economics
ECT	Electrical Construction Trades

EDU	Education
EGR	Engineering
EMS	Emergency Medical Services
ENG	English
ENT	Entrepreneurial Education
ENV	Environmental Science
ESL	English as a Second Language
EXW	Exercise and Wellness
FAS	Family Studies
FIN	Finance
FRE	French
FSC	Fire Science
GEO	Geography
GER	German
GLG	Geology
GPH	Physical Geography
GRA	Computer Graphics
HIS	History
HLS	Homeland Security
HON	Honors
HRM	Hotel/Restaurant Management
IWT	Industrial Water Treatment
JRN	Journalism
LAS	Paralegal Studies
LET	Law Enforcement Training
LGS	Logistics
LMT	Licensed Massage Therapy
MAS	Masonry
MAT	Mathematics
MFG	Manufacturing
MGT	Management
MKT	Marketing
MUS	Music

NTR	Nutrition
NUR	Nursing
OCN	Oceanography
ORI	Orientation
PCT	Plumbing Construction Trades
PED	Physical Education
PEM	Physical Education Management
PER	Physical Education Recreation
PHI	Philosophy
PHY	Physics
PLS	Plant Science
POS	Political Science
PSY	Psychology
PTR	Personal Trainer
QBA	Quantitative Business Analysis
RAD	Radiologic Technology
RCT	Computed Tomography (CT)
RDG	Reading
REC	Recreation Management
REL	Religious Studies
SEI	Structured English Immersion
SIE	Systems and Industrial Engineering
SLR	Solar
SLT	Second Language Teaching
SOC	Sociology
SPA	Spanish
SPC	Speech Communications
STU	Student Success
TEC	Technology
THE	Theatre
TVP	Television Production
WED	Wellness Education
WLD	Welding

GUIDE TO COURSE TERMINOLOGY

Course Credit, Frequency of Offering, and Mode of Instruction

Some of the listed courses may not be offered this year, or in sequence, based on budget considerations or student interest. The fact that a course is listed does not guarantee that it will be offered; consult the appropriate AWC Class Schedule.

All course descriptions within the catalog identify the number of credits, the number of contact hours per week for lecture/demonstration and, if applicable, laboratory, recitation, or clinical time. This information follows the course title. See the "Key to Reading Course Informations".

Course Numbering

The number by which all courses are designated indicates the relative advancement of the course. The following explanation should be helpful to students in planning their respective programs.

Course numbers from:


- **10–99:** In general, these courses are unique to the community college. They carry credit towards certification in designated programs but are not designed for transfer to a four-year college or university.
- **100–199:** Freshman courses which meet the requirements for an associate degree at Arizona Western College and/or transfer to other colleges or universities.
- **200–299:** Sophomore courses which meet the requirements for an associate degree at Arizona Western College and/or transfer to other colleges or universities.

Some 100 and 200 level courses may not transfer to Arizona universities; for specific transferability go to www.aztransfer.com to consult the Course Equivalency Guide.

Courses designated as 100G or 100E do not have a direct course equivalency at Arizona Western College. These courses may not count within any particular department or major but may count as a general education or elective credit. These courses will appear with the appropriate department prefix and 100G or 100E on AWC transcripts.

Shared Unique Number (SUN) System

The Shared Unique Number (SUN) System is a college course numbering system designed to help students locate and enroll in courses that have direct equivalents for transfer among Arizona's public community colleges and three state universities.

A SUN is a combined three-letter and four-digit course number that represents a single course with equivalency among all institutions. SUN courses are identified by the SUN icon: 

Go to www.azsunsystem.com for more information on SUN courses.

Prerequisites:

Prerequisite courses are indicated as "PRE" and **must** have a minimum grade of "C" or "CR," unless otherwise indicated.

ENG 101 eligibility is a common prerequisite for many general education courses. ENG 101 eligibility is met by having completed ENG 100, ENG 101, or ENG 102; by having completed RDG 121; or by achieving an appropriate reading score or an appropriate placement test score. Go to www.azwestern.edu/testing to view the course placement test scores.

ENG 101 is a prerequisite for all Writing intensive (WI) courses.

Distance Education Courses

Arizona Western College offers many of its courses through a variety of distance education delivery systems. At AWC, distance education means instruction that is (1) delivered to the learner regardless of time and/or geographical location, and (2) delivered via various non-traditional means:

- **Hybrid** Minimum 50% face-to-face; remaining class time web-based
- **ITN** Interactive Television; requires internet access
- **Telecourse** Cable TV; requires internet access
- **Web-based** 100% online

Students should be aware that internet access may be required for any course for which they enroll. Arizona Western College makes every effort to accommodate this requirement by providing open-access computer stations at its various campus locations."

Online Course Content

The content of online courses is just like face-to-face courses—weekly assignments, papers due at set dates, quizzes and exams, and participation. Perhaps the primary difference between online and classroom courses is that the overriding responsibility of learning lies with the online student. Being a successful online student takes self-discipline and self-enforced time management.

Key to Reading Course Information

Example: **ACC 111 Career Accounting 1**

3 cr, 3 lec, 1 lab

cr..... credits (semester hours/units)

lec.....lecture/week

lab.....laboratory experience/week

clin clinical experience/week

rec..... recitation/week

CR/NCcourse is offered for credit/no credit **only**

R may be repeated for credit

Open Entry/Open Exit*

*A limited number of courses are offered on an open entry/open exit basis. This means the student may enroll anytime throughout the academic semester and exit (**complete**) the course when course requirements have been met.

<i>lec, lab, rec, clin</i>	credit	required minutes
1 lec	1	800
1 lab	.5	800
1 rec	.5	800
1 clin (EMS)	.5	800
1 clin (AHE, LMT, NUR)	.333	800
1 clin (RAD)	.166	800

Key to Arizona General Education Curriculum (AGEC) Awareness Areas

Throughout the Course Information section, courses, which have been approved as Arizona General Education Curriculum (AGEC) courses, are identified with the following symbols below the course title:

WI.....Writing Intensive/Critical Inquiry

C..... Cultural (*Ethnic, Race, Gender*) Awareness

G Global Awareness

H..... Historical Awareness

In Arizona transfer degrees (A.A., A. Bus., A.S.), one Cultural (C) course and one Global (G) or Historical (H) course are required.

Arizona Western College transfer degrees (A.A., A.Bus., A.S.) require two (2) Writing Intensive (WI) courses.

2014–2015 COURSE INFORMATION

Cooperative Education, Field Trips, Independent Study, and Special Topics Courses

The following is a description of courses which are available to all academic divisions of the college and may carry any departmental prefix. Such courses are mentioned, but not always described, in the Course Information section which follows since their descriptions are basically the same.

98 Special Topics

.5–4 cr

Course content specifically designed to prepare persons for employment and/or to increase knowledge and skills of those already employed. **R**

99 Special Topics

.5–4 cr

Course content specifically designed around specific disciplines. **R**

189 Cooperative Education

1–5 cr, 2–10 lab

Designed to allow students to apply discipline-specific skills within a real work situation. Permission must be obtained from the discipline-specific instructor who will supervise the study in conjunction with the worksite supervisor. **R**

197 Special Topics

.5–4 cr

Course content that allows for pilot testing and special topics at the 100 level as well as workshops or seminars designed to enhance, upgrade, retrain, or meet educational or professional skills. **R**

198 Field Trip Experience

1–6 cr, 1–6 lec, 1–6 lab

Special learning activity outside the regular course work wherein the student is able to observe and evaluate an activity or phenomenon related to a specific discipline. Content is specifically designed to prepare persons for employment and/or to increase knowledge and skills of those already employed. **R**

199 Field Trip Experience

1–6 cr, 1–6 lec, 1–6 lab

A special learning activity outside the regular course work wherein the student is able to observe and evaluate an activity or phenomenon related to a specific discipline. **R**

289 Cooperative Education

1–5 cr, 2–10 lab

Designed to allow students to apply discipline-specific skills within a real work situation. Permission must be obtained from the discipline-specific instructor who will supervise the study in conjunction with the worksite supervisor. **R**

297 Special Topics

.5–4 cr

Advanced course content that allows for pilot testing and special topics at the 200 level as well as workshops or seminars designed to enhance, upgrade, retrain, or meet educational or professional skills. **R**

298 Independent Study

1–4 cr

Designed for sophomore students with sufficient academic background who wish to investigate in-depth a topic of interest outside of the present course offering. The independent

study learning experience is specifically designed to prepare students for employment or increase knowledge and skills of persons already employed. Permission must be obtained from the Division Chair/Director or Coordinator and the instructor who will supervise the study and/or project. **R**

299 Independent Study

1–4 cr

Designed for sophomore students with sufficient academic background who wish to investigate in-depth a topic of interest outside of the present course offering. Permission must be obtained from the Division Chair/Director or Coordinator and the instructor who will supervise the study and/or project. **R**

ACC 111 Career Accounting 1

3 cr, 3 lec, 1 lab

Career Accounting 1 provides the student with a sound basic knowledge of accounting concepts and procedures. Geared towards students seeking vocational preparation; a background for clerical, secretarial, technical, sales, and managerial positions; also for students planning to seek more advanced studies in accounting.

COREQ: BUA 110

ACC 112 Career Accounting 2

3 cr, 3 lec, 1 lab

Career Accounting 2 is designed as a continuation of the principles and procedures covered in Career Accounting 1. The emphasis will shift to developing an understanding of and the ability to interpret the financial statement data prepared in prior accounting courses.

PRE: ACC 111

ACC 115 Computerized Accounting

3 cr, 3 lec

This course applies accounting principles using a personal computer. Professional accounting software will be used to simulate the setup of accounting books, enter daily transactions, and prepare financial statements for small businesses.

PRE: ACC 111

ACC 120 Income Tax Procedures

3 cr, 3 lec

Information and procedures needed to accurately prepare personal returns under both federal and Arizona tax statutes.

PRE: ACC 111 or ACC 211

ACC 125 Introduction to Payroll Accounting

3 cr, 3 lec, 1 lab

Introduction to the various aspects of payroll, including the applicable elements of the Fair Labor Standards Act that affect payroll operations and employment practices.

PRE: ACC 111

ACC 211 ACC 2201 Financial Accounting

3 cr, 3 lec, 1 lab

An introductory college-level course that covers the basic concepts, principles, and procedures for recording business transactions and the development of external accounting reports.

PRE: MAT 142 eligibility or approved higher level math

ACC 212 ACC 2202 Managerial Accounting

3 cr, 3 lec, 1 lab

For students who have previously completed one or two semesters of basic financial accounting. Emphasis on uses of accounting data internally

by managers to carry out three essential functions in an organization: (1) to plan operations; (2) to control activities; and (3) to make decisions.

PRE: ACC 211

ACR 100 Core Curriculum Introductory Craft Skills

(same as CTM 100, ECT 100, MFG 100, PCT 100, TEC 100, and WLD 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/ industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

ACR 101 Air Conditioning and Refrigeration 1

3 cr, 2 lec, 2 lab

Introduction to the field of air conditioning and refrigeration, use of hand tools, materials, and related nomenclature of the component parts of a system and their relationship to and function within the system are stressed.

NOTE: Concurrent enrollment in ACR 103 highly recommended

ACR 102 Air Conditioning and Refrigeration 2

3 cr, 2 lec, 2 lab

Introduces the student to the theory of refrigerants, stressing pressure and temperature relations; the safety aspect in handling refrigerants is also covered. The refrigeration cycle and basic servicing procedures are covered to include the use of gauges, removing and adding refrigerants, as well as leak detection.

PRE: ACR 101

ACR 103 Electrical Motors, Circuits, and Controls

3 cr, 1.5 lec, 3 lab

An advanced course of study involving the various types of HVAC electri-

cal controls and motors, wiring diagrams, and Ohm's Law.

NOTE: Concurrent enrollment in ACR 101 highly recommended.

ACR 112 Control Systems

3 cr, 2 lec, 2 lab

The theory, installation practices, and servicing of control systems.

PRE: ACR 103

ACR 113 Heating Technology

3 cr, 2 lec, 2 lab

The theory, installation practices, and servicing of heating systems including the study of equipment sizing, equipment selection, energy conservation, natural gas, propane, electric heating systems and the study of alternative fuels.

PRE: ACR 103

ACR 201 Air Conditioning and Refrigeration 3

3 cr, 1.5 lec, 3 lab

An advanced course of study into the various types of air conditioning and refrigeration systems in use today. The reasons for the development of various types of systems, including the identification, selection, and applications related to these types of systems will be covered. Hands-on experience in maintaining these varied units will be included.

PRE: ACR 101

ACR 202 Air Conditioning and Refrigeration 4

3 cr, 1.5 lec, 3 lab

An advanced course of study involving the theory, installation practices, and servicing of heat pumps and light commercial refrigeration systems.

PRE: ACR 102 and ENG 100 eligibility or reading score of 61 or higher

ACR 212 Heat Load Calculations and Duct Design*3 cr, 2 lec, 2 lab*

The procedures for estimating heating/cooling loads and duct designing. Also involved is adequate time for hands-on experience.

PRE: ACR 101 and ACR 102**ACR 213 Light Commercial Systems***3 cr, 2 lec, 2 lab*

The theory, installation practices, and servicing of light commercial refrigeration systems with a study of equipment sizing, wiring diagrams, and control systems, reach-in coolers and freezers, open case systems, and heat reclaim systems.

PRE: ACR 102 and ENG 100 eligibility or reading score of 61 or higher**AGB 230 Agricultural Business Management***3 cr, 3 lec*

Applications of economic and technological principles in developing skills in decision making for the agricultural firm. Included is skill development in analysis, management by objectives, budgeting, and supervision of an agricultural business.

AGB 240 Agriculture Marketing*3 cr, 3 lec*

Principles, methods, and problems found in the distribution activities of all businesses involved in the marketing of agriculture products and services.

AGS 110 Introduction to Food Safety*1 cr, .75 lec, .5 lab*

Introduction to food safety. This course covers conditions and practices that cause food-borne illnesses, organisms responsible, elements of a food safety control system, worker

sanitation, and the best practices for processing, retail and the home kitchen.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**AGS 200 Food Safety Practices and Management***4 cr, 3.5 lec, 1 lab*

Focuses on establishing agricultural practices as they relate to the production of farm products from a food safety standpoint. Covers the specific guidelines for some key agricultural commodities, regulating and monitoring food safety guidelines, writing standard operating procedures, employee training, and technologies to assist in production of safe food.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**NOTE:** Completion of AGS 110 and BIO 205 suggested.**AGS 220 Food Safety in Facilities***4 cr, 3.5 lec, 1 lab*

Covers food safety issues and concerns in the manufacturing facility including such as: facility sanitation, recognizing potential hazards, analysis of problems in the cold chain, developing improved practices, Hazard Analysis and Critical Control Point (HACCP) principles, employee training, and the inspection process.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**NOTE:** Completion of AGS 110 and BIO 205 suggested.**AGS 240 Environmental Effects on Food Safety***3 cr, 2.5 lec, 1 lab*

Potential environmental sources and transport mechanisms of food-borne pathogens. Students will learn how to make informed decisions about

the potential effects of local site conditions on food safety. Covers the role of site conditions in pathogen transport such as: livestock proximity, wildlife behavior and habitat, rainfall and irrigation runoff, soil types, slope, aspect, climate, soil erosion and deposition by water and wind, flooding, vegetation and the behavior of pathogens in the environment.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**NOTE:** Completion of AGS 110 and BIO 205 suggested.**AGS 296 Agricultural Internship***1-4 cr, 1-4 lab*

Supervised field experience with business, corporations, government agencies, schools, and community organizations to expand career interests and apply subject knowledge relevant to the workplace.

PRE: instructor permission required and a declared major in agriculture and completion of 9 credit hours in Agriculture courses**AHE 101 Medical Terminology***3 cr, 3 lec*

This course is designed for individuals who are employed in human services and allied health agencies. Students will develop a working knowledge of words that relate to body systems, anatomical structures, medical processes and procedures, and a variety of disease conditions.

AHE 110 Pharmacology for Allied Health*2 cr, 2 lec*

Focus is on drug standards, sources, prescription symbols and abbreviations related to body systems. Emphasis is on spelling of drug names and utilization of drug reference books.

PRE: ENG 101

AIS 180 Overview of American Indian Studies

3 cr, 3 lec

Introduction to the cultures and ethno-history of the North American Indians.

AIS 220 Introduction to Contemporary American Indian Issues

3 cr, 3 lec

Introduction to contemporary issues affecting American Indians in the United States.

PRE: AIS 180

AJS 101 AJS 1101 Introduction to Administration of Justice

3 cr, 3 lec

An examination of the organization and jurisdiction of local, state, and federal law enforcement, judicial, and correctional systems; their history and philosophy; career opportunities and qualifying requirements, terminology, and constitutional limitations of the system.

AJS 105 Portfolio Development (same as EMS, FSC 105)

4 cr, 1 lec, 6 lab

Designed to help personnel of Law Enforcement, Fire Science and Emergency Medical Services develop a portfolio that details those prior learning experiences that may be considered for college credit at Arizona Western College. **CR/NC**

AJS 107 Patrol Procedures

3 cr, 3 lec

This course will cover specialized areas of the patrol function. Problems associated with and techniques for responding to crowds, riots, bomb threats, intoxication, hazardous materials, fires, and domestic disputes are discussed. Interviewing and questioning, use of force, and vehicle operations are also covered. This course will partially fulfill AZPOST requirements for academic certification as a Peace Officer.

PRE: AJS 101 and AJS 230

AJS 109 Substantive Criminal Law

3 cr, 3 lec

Covers the philosophy of legal sanctions and the historical development of law from the common law to modern American Criminal Law, classifications of crimes, elements of and parties to crimes, general definitions of crimes, common defenses utilized, and includes specific offenses and the essential elements of each offense.

AJS 123 Ethics and Criminal Justice

3 cr, 3 lec H, WI

This course explores ethical issues and the criminal justice system while focusing on ethics and the law, the police, and the courts. It also reviews ethical theory as it relates to administration of justice. This course includes practical decision-making tools that encourage critical thinking and value decision-making when acting or reacting ethically to challenges and temptations confronting the fundamental moral climate of the justice system.

PRE: AJS 101 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

AJS 191 Terrorism and Counter Terrorism

3 cr, 3 lec

An in-depth examination of the history and psychology of terrorism and the tactics and technology used by terrorist groups. Examines the nature of the terrorist threat and countermeasures to combat terrorism.

AJS 192 Serial Killers and the Justice System

3 cr, 3 lec

Examines the mind, motives, and methods of serial killers. This course is a criminology course as it studies the reasons and causations of such

horrific crimes and develops theories on profiling, investigation, and understanding the criminals who commit such overwhelming crimes of lust murders over and over again.

AJS 193 Victimology

3 cr, 3 lec

The study of victims, also called Victimology, explores various types of crimes, reasons why individuals are victimized, and the level of involvement from the criminal justice system in victims' issues.

AJS 200 Current Issues in Criminal Justice

3 cr, 3 lec

Methods of addressing current issues in criminal justice system.

PRE: AJS 101 and AJS 225 and AJS 230 and AJS 240 and ENG 101

AJS 201 Criminal Justice Crime Control Policies and Procedures

3 cr, 3 lec

Explore the assumptions behind crime pattern theory, crime opportunity structures, and routine activities approach.

PRE: AJS 101 and ENG 101

AJS 210 Court Function

3 cr, 3 lec

Examines the structure, function, and organization of American criminal courts as well as specialized courts within the criminal justice system. Judicial procedures and the roles of legal actors including judges, prosecutors, defense attorneys, and court employees are studied. The rights of defendants and victims, the role of plea bargaining, the operation of juries, trials, and sentencing, and contemporary controversial legal issues are examined.

AJS 212 Juvenile Justice Procedures

3 cr, 3 lec

Examines the history and development of juvenile justice theories, procedures, and institutions.

AJS 220 Spanish for Law Enforcement

3 cr, 3 lec

Introduction to Spanish grammar for basic communication with emphasis on law enforcement terminology, legal instructions, cultural characteristics and heritage of Spanish speaking groups within the United States (U.S.).

AJS 225 Criminology

3 cr, 3 lec

Studies deviance, society's role in defining behavior, theories of criminality, the economic, social, and psychological impact of crime, and the relationships between statistics and crime victimization.

AJS 230 Police Function

3 cr, 3 lec

Examines the theories of procedures and methods of operations of public police with emphasis on discretionary powers. Career opportunities and current trends in law enforcement.

AJS 240 Correction Function

3 cr, 3 lec

Examines the history and development of correctional theories and institutions.

AJS 242 Community Corrections

3 cr, 3 lec

Examines community treatment in the correctional process and the selection and release of both adults and juveniles under the supervision of probation and parole.

AJS 260 Procedural Criminal Law

3 cr, 3 lec

Provides the student with an understanding of the rationale underlying major court holdings, the procedural requirements that stem from these holdings, and their effect on the daily operations of the criminal justice system.

AJS 270 Community Policing

3 cr, 3 lec

The philosophy of community policing is being advanced as the new policing system for the twenty-first century. This course is designed to provide the theories and practicalities of the new policing, as well as to identify the basic concepts, strategies, experiments and research on community interaction.

PRE: AJS 101

AJS 275 Criminal Investigation

3 cr, 3 lec

Theory of criminal investigation, crime scene procedures, case preparation, interviewing, and basic investigative techniques are studied.

AJS 295 Administration of Justice Studies Capstone

1 cr, 1 lec

Capstone is designed to assess the student's knowledge of the program's learning outcomes. This is a mandatory course for all Administration of Justice Studies majors prior to graduation.

PRE: ENG 101 and 21 hours of AJS courses

ANS 100 Animal Industries

4 cr, 3 lec, 3 lab

The livestock and poultry industries including applications of scientific principles, marketing, and selection are emphasized.

ANS 130 Livestock Production Management

3 cr, 2 lec, 3 lab

Develops entry-level skills in the production and management of livestock on the range and in the feedlot. Includes skill development in facility design and management of breeding systems.

ANS 240 Feeds and Feeding

3 cr, 3 lec

Selection, evaluation, classification, and use of feeds for specific purposes in animal nutrition. Includes the elements of nutrition, commonly used feeds, nutritive requirements, feed processing, and practical methods of feeding different classes of livestock.

ANT 70 Topics in Anthropology

.5-4 cr, 0-1 lec, 1-8 lab

Workshops for individual exploration in anthropology. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC**

ANT 100 Introduction to Anthropology

3 cr, 3 lec G

An introductory, general service course for both anthropology and non-anthropology majors. Covers physical anthropology, linguistics, archaeology, and cultural anthropology. Controversial topics are presented and discussions are open and often lively. World cultures are compared.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ANT 120 Introduction to Archaeology and Prehistory

3 cr, 3 lec G

Surveys the evolution of humans and cultures from the earliest beginnings to the development of the first civilizations. Many controversial topics are presented and the discussions are

often lively. The manner of instruction is informal.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ANT 130 Introduction to Cultural Anthropology

3 cr, 3 lec **G**

The basic concepts of social and cultural anthropology are discussed using the social, economic, political, family, and religious systems of a variety of societies for illustration. Emphasis is placed on culture as an adapting and evolving structure.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ANT 140 Introduction to Native American Studies

3 cr, 3 lec **C**

Covers the origins and development of the Indian populations from pre-historic to modern times in North America and Mexico. Origins of the major tribes of the greater Southwest are emphasized.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ARB 70 Arabic

2 cr, 2 lec

Introduction to the Arabic language. Students will learn vocabulary, basic grammatical structures, useful phrases and sentences related to daily life.

ARC 105 Principles of Interior Design

3 cr, 2 lec, 2 lab

Principles of design as they relate specifically to interior design, furniture arrangement, wall composition, color, furnishings, collages, and illustration.

PRE: DFT 185

ARC 131 Building Codes

3 cr, 2 lec, 2 lab

Methods of researching building codes for specific projects. Topics include residential and commercial building codes.

ARC 221 Architectural 3-D CAD

3 cr, 1 lec, 4 lab

Introduction to architectural three-dimensional (3D) CAD applications.

PRE: DFT 186

ARC 230 Environmental Systems

4 cr, 3 lec, 2 lab

Introduction to utility systems for architectural environment.

PRE: DFT 182 and MAT 105

ARC 235 Survey of Architecture

3 cr, 3 lec

Architectural history and current trends in architecture.

ARC 240 Design Project

4 cr, 3 lec, 2 lab

Design and preparation of a set of drawings and contract documents within an architectural setting.

PRE: ARC 131 and ARC 230

ARC 266 Materials and Methods

3 cr, 2 lec, 2 lab

Introductory overview of the various construction materials used in common (and uncommon) structures.

PRE: DFT 185

ARH 141 ART 1101 Survey of World Art 1

3 cr, 3 lec **H**

A survey history of Western European art from Paleolithic to the late Gothic period along with primitive art from non-Western sources.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ARH 142 ART 1102 Survey of World Art 2

3 cr, 3 lec **H**

A survey history of Western European art from the Renaissance to contemporary times including important non-Western influences.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ART 95 Ceramics

3 cr, 1 lec, 5 lab

A course in hand-formed ceramics designed for the student who is not seeking transferable credit. Class projects include slab and coil formed vessels and sculptures, use of the potter's wheel and the use of glazes for high temperature firing. **R**

ART 101 ART 1112 Basic Design, 2 Dimensional

3 cr, 2 lec, 4 lab

Color, line, shape, value, composition and texture, the basic elements of design, are explored as the substructures of visual imaging. Black and white as well as color are used from collage to construction. The course is a required foundation course for art majors and minors and is a prerequisite for upper division classes at most four-year colleges and universities.

ART 102 ART 1115 Basic Design, 3 Dimensional

3 cr, 2 lec, 4 lab

The sculpture of Western and Non-Western traditions, primitive to modern, provide the basis for this study of 3 dimensional design principles. The basics of modeling, carving, assembling, and mold making will be touched on. Both realistic and abstract works will be made using clay, foam core, plaster, and other materials. This course is a required foundation course for art majors and minors and is a prerequisite for upper division courses at most four-year colleges and universities.

ART 106 Gallery Operations*1 cr, 2 lab*

This course introduces the student to the various aspects of operating an art gallery including solicitation of artists, show presentation, show installation and public relations. Several local venues will be utilized including Gallery Milepost Nine and the Yuma Art Center.

ART 111 SUNG**ART 1111 Drawing 1***3 cr, 2 lec, 4 lab*

A first or review course to teach the basic drawing skills needed for painting and 3 dimensional arts as well as advanced drawing. Line, value, and composition are covered, as well as exercises in imagination and idea development. This course is a required foundation course for art majors and minors and is a prerequisite for upper division courses at most four-year colleges and universities.

ART 177 Digital Photography 1*3 cr, 2 lec, 4 lab*

Introduction to the fundamentals of digital photography. Students will learn how to capture, retrieve, manipulate, enhance, store, and output their photographs using appropriate hardware and software. Students will enrich the aesthetic dimension of life through the exploration of photography as fine art.

ART 178 Digital Photography 2*3 cr, 2 lec, 4 lab*

Skills acquired in Digital Photography I will be enhanced. Through the medium of digital photography, students will develop a personal philosophy articulated through their photographs. Advanced aesthetic theories will be explored and students will assemble a portfolio.

PRE: ART 177**ART 191 Photography 1***3 cr, 2 lec, 4 lab*

This course is designed to teach the fundamentals of black and white photography including camera operation, film development, printing, and evaluation of work. This course is also designed to serve as a prerequisite for Photography 2 and to allow students an opportunity to understand the concepts of photography as fine art.

ART 192 Photography 2*3 cr, 2 lec, 4 lab*

This course is designed to allow students to build on the skills and understanding developed in Photography 1. Students will be guided in the development of a personal vision through the medium of photography.

PRE: ART 191**ART 201 Painting 1***3 cr, 2 lec, 4 lab*

Composition, color, and technical handling of paint are explored, along with preparation of canvas and other painting surfaces. Emphasis is on creative investigation.

ART 202 Painting 2*3 cr, 2 lec, 4 lab*

Advanced use of color and paint manipulation. Drawing and composition are emphasized.

PRE: ART 201**ART 203 Ceramics 1***3 cr, 2 lec, 4 lab*

A hands-on look at the history of the use of clay and how it leads to the development of contemporary ceramic art. Techniques covered will include primitive coiling, wheel throwing, modeling, and contemporary slab forming.

ART 204 Ceramics 2*3 cr, 2 lec, 4 lab*

Continued study of ceramic techniques with emphasis on design and individual student directions.

PRE: ART 203**ART 205 Ceramics 3***3 cr, 2 lec, 4 lab*

Continued study of ceramic techniques with emphasis on surface, firing skills, ceramic history, and design.

PRE: ART 204**ART 206 Ceramics 4***3 cr, 2 lec, 4 lab*

Continued study of ceramic techniques with emphasis on individual directions.

PRE: ART 205**ART 207 Painting 3***3 cr, 2 lec, 4 lab*

Further investigation into color and paint manipulation. Format and serial nature of work emphasized.

PRE: ART 202**ART 208 Painting 4***3 cr, 2 lec, 4 lab*

Further investigation into all aspects of painting (form, color, format, content) to develop a viable body of work.

PRE: ART 207**ART 210 Printmaking***3 cr, 2 lec, 4 lab*

Introduction to relief and intaglio printmaking. Relief technique is demonstrated in multicolor woodcut/linocut printing. Intaglio techniques include drypoint, engraving and etching. Monoprinting is also explored.

ART 211 Printmaking 2

3 cr, 2 lec, 4 lab

Intermediate skill and conceptual relief and intaglio printmaking. Color intaglio, monoprinting and silk screen methods explored.

PRE: ART 210

ART 212 Drawing 2

3 cr, 2 lec, 4 lab

Advanced skill in drawing forms and promoting a creative effort in handling all subjects.

PRE: ART 111

ART 213 Drawing 3

3 cr, 2 lec, 4 lab

Conceptualization of advanced drawing ideas through various medias and formats.

PRE: ART 212

ART 214 Drawing 4

3 cr, 2 lec, 4 lab

Exploration of advanced conceptual and technical issues in drawing. Emphasis upon drawing in a series and completion of transfer portfolio.

PRE: ART 213

ART 215 Figure Drawing

3 cr, 2 lec, 4 lab

A realistic approach to drawing the human figure through direct observation; emphasis is placed on gesture, value, and composition.

PRE: ART 111

ART 216 Printmaking 3

3 cr, 2 lec, 4 lab

Advanced skill level printmaking. Emphasis on developing experimental and conceptual aspects of media.

PRE: ART 211

ART 231 Art in the Elementary School

(same as EDU 231)

3 cr, 2 lec, 2 lab

The use of art to provide children with an alternative form of instruction.

PRE: EDU 110

ART 251 Sculpture

3 cr, 2 lec, 4 lab

Exposure to the concepts of sculpture by expanding the use of various media and by enriching visual thought to create expressive images.

ART 252 Sculpture 2

3 cr, 2 lec, 4 lab

Continued study of sculpture techniques with emphasis on design and individual student directions.

PRE: ART 251

ART 253 Sculpture 3

3 cr, 2 lec, 4 lab

Continued study of sculpture techniques with emphasis on advanced designs, material history, and individual concepts and skills in three dimensional media.

PRE: ART 252

ART 254 Sculpture 4

3 cr, 2 lec, 4 lab

Continued study of sculpture techniques with emphasis on advanced designs, material history, and individual concepts and skills in three dimensional media.

PRE: ART 253

ART 291 Photography 3

3 cr, 2 lec, 4 lab

Continuation of skills and understanding developed in Photography 1 and 2. Students will develop a personal philosophy articulated through the photographic image with emphases placed on presentation of work.

PRE: ART 192

ART 292 Photography 4

3 cr, 2 lec, 4 lab

Continuation of the skills and understanding developed in Photography 1, 2, and 3. Emphasis on advanced darkroom techniques, composition, and the zone system. Continued concentration on aesthetic theory and presentation of work.

PRE: ART 291

ASL 101 American Sign Language 1

4 cr, 6 lec C

This course focuses on the development of basic expressive and receptive ASL communication skills, including an awareness of ASL syntax, grammar and conceptually correct idiomatic usage. Students develop visual-spatial acuity and non-manual skills necessary for ASL communication. Students are also exposed to a breadth of information regarding deafness and the deaf culture and society. Exploration of deafness includes reading and writing about deafness. Fulfills the first semester foreign language requirement at most four-year institutions.

ASL 102 American Sign Language 2

4 cr, 6 lec C

This course is a further development of the American Sign Language expressive and receptive communication skills developed in ASL 101, including an increased awareness of American Sign Language usage and syntax conventions. Finger spelling skills are strengthened. Students participate in detailed discussions and exploration of deaf culture, including library research. Fulfills the second semester foreign language requirement at most four-year institutions.

PRE: ASL 101

ASL 201 Intermediate American Sign Language 1

4 cr, 6 lec C

Continues, at the intermediate level, the development of the American Sign Language proficiency students acquired in ASL 102. Students expand their awareness of ASL conventions, grammar, and vocabulary. Students become more adept at maintaining conversations using ASL over a variety of topics. Students develop a receptive and expressive fluency that allows them to understand and appreciate ASL folklore and literature, as well as developing their own "storytelling" skills. Students enter into much more technical understanding of the culture of the deaf and American Sign Language linguistics. Fulfills the third semester foreign language requirement at most four-year institutions.

PRE: ASL 102 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ASL 202 Intermediate American Sign Language 2

4 cr, 6 lec C

ASL 202 continues, at the intermediate level, the development of the American Sign Language proficiency students acquired in ASL 201. Students continue to expand their awareness of ASL conventions, grammar and vocabulary, including an extensive review of topical signs and idioms. Students develop a greater competency in their receptive understanding of connected ASL discourse and in their expression of extended ideas, concepts, and stories in ASL. Their expressive competency in discussion of ideas includes an expression of their understanding of deaf culture. Students continue the growth of their technical awareness of deaf culture and ASL linguistics. Fulfills the fourth semester foreign language requirement at most four-year institutions.

PRE: ASL 201 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

AST 100 Astronomy

4 cr, 3 lec, 1 rec, 2 lab G

A survey of stars, planets, galaxies, and life in the cosmos. Evolution of the stars; planet formation and global change; origin and destiny of the universe; space exploration and the search for extraterrestrial intelligence.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

AST 130 The Planets

4 cr, 3 lec, 1 rec, 2 lab G

Introduction to astronomy with emphasis on our solar system, origin of life on Earth, and the search for life elsewhere.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

AUT 100 Basic Service and Systems

3 cr, 2 lec, 2 lab

Designed to provide a foundation for beginning automotive students; providing an overview of automotive systems, introduction to hybrid and green technology, shop safety, tools, service information, and complete maintenance of the automobile.

AUT 101 Theory of Engine Operation

4 cr, 3 lec, 2 lab

Introduction to automotive terminology, design of automotive engines, theory of operation, and procedures of engine overhaul along with related operation systems including lubrication, cooling, fuel, and electrical systems, introduction to hybrid and green technology.

AUT 102 Engine Reconditioning and Machine Shop

3 cr, 1 lec, 4 lab

Training in engine reconditioning and overhaul procedures, includes cylinder reconditioning, block reconditioning, and reconditioning all internal parts of the engine.

PRE/COREQ: AUT 101

AUT 120 Automotive Suspension

6 cr, 4 lec, 4 lab

Introduction to chassis service, environmental implications, overhaul of front end components, computer networking with an emphasis on wheel alignment, wheel balancing, and tire service.

COREQ: AUT 200

AUT 125 Automotive Brakes

4 cr, 2 lec, 4 lab

Introduction to the overhaul and reconditioning procedures for drum and disc brake systems, hybrid regenerative braking systems, and the operation and service of anti-lock brake systems.

COREQ: AUT 200

AUT 133 Automotive Power Trains

3 cr, 2 lec, 2 lab

Fundamentals and principles of transmissions, clutches, planetary gearsets, drive lines, and differentials. Service and repair of differentials, clutches, standard transmissions, and minor diagnosis and service procedures for automatic transmissions.

AUT 135 Automatic Transmissions

5 cr, 3 lec, 4 lab

Introduction to fundamental hydraulic and mechanical principles that is typical of automotive automatic transmissions, hybrid technology, including diagnosis, overhaul, and repair techniques.

AUT 200 Automotive Electrical Systems

6 cr, 5 lec, 2 lab

Introduction to electricity, storage batteries, hybrid high voltage systems, cranking motor fundamentals, regulator operations, ignition systems, automotive accessories and computer systems.

AUT 209 Auto Engine Performance and Diagnosis

5 cr, 3 lec, 4 lab

Emphasis is placed upon electronic engine management systems, exhaust gas analysis, including electronic ignition, emission control systems, customer relations, introduction to hybrid and green technology, and diagnostic repair procedures.

PRE/COREQ: AUT 200

NOTE: AUT 200 may be taken concurrently if pre-requisite has not been met.

AUT 211 Automotive Emission Control Systems

3 cr, 2 lec, 2 lab

Theory and principles of operation, diagnostic procedures, environmental implications, and repair of the automotive emission control systems.

AUT 215 Automotive Computer Testing

3 cr, 2 lec, 2 lab

Introduction to the theory and principles of the operation and diagnostic procedures associated with automotive computer systems; the study of engine management controllers, environmental implications, body and chassis computer control systems, and computer networking.

PRE/COREQ: AUT 200

AUT 220 Automotive Hybrid Fundamentals

2 cr, 1.5 lec, .5 lab

An introduction to automotive hybrid, electric, and fuel cell systems; the benefits of these alternative technologies are explored and the proper safety practices suggested by vehicle manufacturers are identified.

PRE: AUT 200

AUT 252 Automotive Air Conditioning Systems

4 cr, 2 lec, 4 lab

Theory and principles of operation of automotive air conditioning systems, diagnostic procedures, environmental implications, and proper handling of refrigerants.

AUT 260 Automotive Internship

3 cr, 6 lab

Practical experience in the operation and repair of the various components of the automotive industry by working with technicians at a work site; completion of 320 hours of designated work per semester required.

PRE: AUT 101 and AUT 120 and AUT 125 and AUT 133 and AUT 200

AWC 104 Career Exploration

2 cr, 2 lec

Comprehensive examination of the career exploration process designed to assist students in making informed career decisions. Topics include career development theories; the role of self-knowledge in career planning; use of the Internet in career research, college majors and related occupations; and the study of the employment trends and their implications.

AWC 202 Job Search Strategies

2 cr, 2 lec

Course will review the job search process including: job hunting skills, the role of networking, preparing cover letters, resumes, job applications, development of interviewing skills, and building employment references.

BDC 100 Introduction to Broadcasting

3 cr, 3 lec

Students become familiar with the origin and history of broadcasting; understand the operation, structure, and organization of broadcasting in the United States—geographical, economical, statistical, and influential; become acquainted with the legal, social, educational, and artistic aspects of broadcasting; examine broadcasting codes and audiences.

BDC 110 Radio Studio Operations 1

3 cr, 1 lec, 4 lab

In a radio-studio training situation the methods and techniques of the operation of such radio broadcasting equipment as microphones, audio control consoles, audio-type cartridge machines, and audio tape standard recorders are studied and practiced.

BDC 120 Announcing and Performance 1

3 cr, 3 lec

A study of the problems the radio announcer-performer faces. Includes analysis, interpretation, and communication of a variety of types of announcing and performance areas. Develops student's speech, personality, and character as an announcer-performer.

BDC 130 Radio Studio Operations 2

3 cr, 1 lec, 4 lab

A continuation of BDC 110. In a radio-studio training situation, the student is introduced to the use of supplied ingredients, as well as new ideas, for a proposed message or program and the preparation of the final message or program in the most effective and acceptable manner possible.

BDC 140 Announcing and Performance 2

3 cr, 2 lec, 3 lab

Continuation of BDC 120. Enables students to improve talent and ability in advanced announcing and performance activities such as pre-recorded announcements, features, in-depth news announcing, and other specialized broadcast experiences. Two class meetings each week and six hours of laboratory work each week on an individual basis.

BDC 150 Broadcast Practices

3 cr, 3 lec

Presented in three parts. One part covers current affairs in the state, nation, and world, information useful to the broadcaster in presenting news reports. Another part covers broadcast speech practices such as projection, articulation, and phonetics. Another part deals with technical operational practices such as audio feeds, audio tape, meter readings, microphone usage, and FCC inspections. To pass this course, the student must maintain a passing grade in each part.

BDC 200 Broadcast Advertising

3 cr, 3 lec

Explores in detail the different components within the field of radio and television broadcast advertising: the objectives, strategies, market research, media planning; creative planning, evaluation of commercial production, audience research, network, and local spot sales, as well as truth in advertising.

BDC 210 Broadcast Writing

3 cr, 3 lec

Writing news and commercials for broadcast. Developing a professional attitude toward broadcast journalism, emphasizing legal and ethical limits. Experience in planning and writing to sell an idea, service, or product.

BDC 215 Audio Production

3 cr, 2 lec, 2 lab

This course provides students with practical "hands-on" experience in the use of the audio production equipment that is used in radio and television studios. This course will prepare students in the theory and practice of the interconnection of production in audio, video, and multimedia technologies.

PRE: BDC 110 or TVP 125

BDC 220 Radio Studio Operations 3

3 cr, 1 lec, 4 lab

A continuation of BDC 130. In a radio-studio training situation, the concern is for the preparation and execution of the program operational log, emphasizing the need for advanced planning as well as the necessity for instant decisions regarding the broadcasting of various designated programs and messages. Acquaints the student with the importance of mentally preparing a future broadcast plan while executing a prior broadcast plan.

BDC 230 Management and Sales

3 cr, 3 lec

Acquaints the student with the problems of managing a radio station, indicating the social and economic responsibilities of radio broadcasting operation. Emphasis is on the management of a radio station and origination and implementation of a successful sales program. Students learn the laws and regulations governing broadcasting, and are provided with a working knowledge of the relationship of governing agencies, such as Congress, committees, courts, and the FCC.

BDC 240 Radio Studio Operations 4

3 cr, 1 lec, 4 lab

A continuation of BDC 220. On-location training in the use of portable broadcasting and recording

equipment and in originating and recording interviews, special events, and special programs at locations other than the studios of the radio station. On-the-job training in remote location broadcasting is basic to the course.

BIO 100 Biology Concepts

4 cr, 3 lec, 2 lab, 1 rec G

A one-semester introductory course covering basic principles and concepts of biology. Methods of scientific inquiry and behavior of matter and energy in biological systems are explored.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

NOTE: This course will not count toward a major in the life sciences (biology, botany, or zoology). Credit cannot be received in both BIO 100 and the BIO 181-182 sequence.

BIO 108 Plants and People

4 cr, 3 lec, 2 lab, 1 rec G

Principles of plant biology and taxonomy with an emphasis on human relevance including plants as a source of food, fiber, medicine, and other commercially important uses.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BIO 109 Natural History of the Southwest

4 cr, 3 lec, 2 lab, 1 rec G

Study of the common plants and animals of the Southwest including their distribution, adaptation, behavior, and ecology.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BIO 111 Identification of Arizona Native Plants

3 cr, 2 lec, 3 lab

A field orientation emphasizing the recognition of much of the native and naturalized flora of southern Arizona.

BIO 145 Marine Biology

4 cr, 3 lec, 1 lab, 2 rec **G**

A survey of marine environments and their biotic communities with emphasis on the natural history of marine organisms.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BIO 160 Introduction to Human Anatomy and Physiology

4 cr, 3 lec, 2 lab, 1 rec **G**

Biology 160 is a study of the structure and dynamics of the human body. It is designed for students who desire a one semester course in anatomy and physiology. This course prepares students who wish to pursue allied health fields such as medical transcription and paramedic. This course also serves as a preparation for those students who need a basic background before taking BIO 201.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BIO 181 BIO 1181 General Biology (Majors) I

4 cr, 3 lec, 2 lab, 1 rec **G**

Principles of structure and function of living things at the molecular, cellular, and organismic levels of organization. Includes molecular and cellular biology, genetics, viruses, bacteria, protista, and fungi.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score. One year of high school chemistry or one semester of college-level chemistry recommended

NOTE: Credit cannot be received in both BIO 100 and the BIO 181–182 sequence. BIO 181-182 sequence is appropriate for students majoring in biology, environmental science, agriculture, and those pursuing pre-medical, pre-dental, or pre-pharmacy programs, 4-year degree in nursing, and certain other science or health related programs.

BIO 182 BIO 1182

General Biology (Majors) II

4 cr, 3 lec, 2 lab, 1 rec **G, WI**

Additional principles of structure and function of living things at the molecular, cellular, organismic, and higher levels of organization. Includes evolution, organismal biology of plants and animals, population biology, and ecology.

PRE: BIO 181 and ENG 101

NOTE: Credit cannot be received in both BIO 100 and the BIO 181–182 sequence. BIO 181-182 sequence is appropriate for students majoring in biology, environmental science, agriculture, and those pursuing pre-medical, pre-dental, or pre-pharmacy programs, 4-year degree in nursing, and certain other science or health related programs.

BIO 194 Biology Lecture Series

1–3 cr, 1–3 lec

Biology Lecture Series offers a variety of special interest biology courses, which expand upon selected topics in introductory biology courses. **R**

BIO 199 Biology Field Trip

1–3 cr

Three to five-day field trip. **R**

PRE: Instructor permission required

BIO 201 BIO 2201

Human Anatomy and Physiology I

4 cr, 3 lec, 1 rec, 2 lab

Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system.

PRE: Two semesters of high school biology or chemistry with a grade of “B” or above within the last five years, or one semester of college-level biology or chemistry and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

NOTE: Appropriate for students pursuing careers in physical education, nursing, allied health sciences, or health service fields which require two semesters (8 credits) of human anatomy and physiology.

BIO 202 BIO 2202

Human Anatomy and Physiology II

4 cr, 3 lec, 2 lab, 1 rec

Continuation of structure and function of human body. Topics include endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems.

PRE: BIO 201

NOTE: Appropriate for students pursuing careers in physical education, nursing, allied health sciences, or health service fields which require two semesters (8 credits) of human anatomy and physiology.

BIO 205 BIO 2205

Microbiology

4 cr, 3 lec, 3 lab, 1 rec **G**

Study of microorganisms and their relationship to health, ecology, and related fields.

PRE: One semester of college-level biology and ENG 101 eligibility or completion of RDG 121 or appropriate reading score. One semester of college-level chemistry recommended

NOTE: Appropriate for biology majors and students pursuing careers in nursing, allied health sciences, or health service fields which require one semester (4 credits) of microbiology

BIO 234 Desert Biology

4 cr, 3 lec, 2 lab, 1 rec

A field oriented course designed to acquaint the student with the deserts of North America, particularly those of the Southwest. Includes introduction to local habitats, identification of local animals and plants, ecology and adaptations of desert organisms, principles of classifying and naming species, desert climates and

geographical features, and human cultures and impacts. Designed for majors in Biology and Environmental Science. Field trips required.

PRE: BIO 182

BIO 240 Genetics and Evolution

3 cr, 3 lec

Introduction to fundamental concepts of inheritance with emphasis on Mendelian (classical) transmission genetics; molecular genetics, and (3) basic concepts in evolution, including a description of the mechanisms of evolutionary change. In addition, students will also be introduced to concepts and methods of probability and statistical evaluation of scientific hypotheses.

PRE: BIO 181 and BIO 182

BIO 244 General Genetics Laboratory

1 cr, 1 lab

Basic laboratory skills and equipment used in genetic research, quantitative methods for hypothesis testing, and handling live organisms in a laboratory setting.

PRE: BIO 181

COREQ: BIO 240

BIO 245 Cellular and Molecular Biology

3 cr, 3 lec

Organization and function of biological molecules, cell diversity, cell structure and function, and cell interaction and differentiation.

PRE: BIO 181 and one semester of college chemistry

BIO 246 Cell and Molecular Laboratory

1 cr, 3 lab

Introductory laboratory course in support of BIO 245. Designed to familiarize students with basic laboratory skills and equipment used in cell and molecular research.

PRE: BIO 181

COREQ: BIO 245

BIO 254 Entomology

4 cr, 3 lec, 3 lab

An introduction to the science of entomology focusing on basic principles of systematics, morphology, physiology, behavior, ecology, economics, and the many health impacts of insects on humans. The laboratory includes field trips to collect and study insects in their natural habitats. Some field trips may require an overnight stay. A collection is required.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BIO 256 Ornithology

4 cr, 3 lec, 3 lab

The study of birds: biology, behavior, diversity, and distribution. Survey of current scientific knowledge of birds and techniques in identifying them in the field.

PRE: BIO 182

BUA 100 Survey of Business

3 cr, 3 lec

An introduction to the field of business administration in such functional areas as marketing production, business organization and ownership, financial management, law, communication, taxation and regulation, and computer information systems.

BUA 109 Principles of Human Relations

3 cr, 3 lec

Assists individuals in understanding human behavior in social institutions, business, and industry, including leadership, communications, status, decision making, motivation, and personnel problems. Case problem method of instruction used.

BUA 110 Business Math Applications

3 cr, 3 lec

Applications of business computations using calculators and computers to solve problems involving budgets, discounts, markup, interest, credit plans, checking and savings accounts, payroll, and taxes.

PRE: MAT 71 or appropriate score on the Computerized Placement Test (CPT) allowing enrollment in MAT 81 or approved higher level math

BUA 130 Mexico, Central, South America: International Business Environment

3 cr, 3 lec

Introductory course which gives tips on trading with Latin America, including Mexico, and the countries in the Caribbean Basic Initiative (CBI). Includes cultural, social and geographic overviews of the region in addition to business issues. Key focus on small to medium sized firms as importer/exporter to and from the region.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BUA 131 Business, Cultural Awareness for International Trade

3 cr, 3 lec

The importance of cultural sensitivity on business relations investigated by studying the impact of geography, history, religion, politics, customs and cross-cultural communications on society. Focuses on all regions of the world: North America, Latin America, Europe, Pacific Rim, Middle East, and Eastern/Western Europe.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BUA 220 Legal Environment of Business

3 cr, 3 lec

Examines the legal framework governing rules of conduct among business and its impact on establishing business policy, both legally and ethically.

BUA 230 Business Law

3 cr, 3 lec

General concept of legal framework of business, elements of contracts used in business, fundamental factors governing negotiable instruments, sales, warranties, and employment law.

BUA 290 Business Communications

3 cr, 3 lec

Development of the skills and abilities to handle written business communications effectively and to develop a distinctive style of business writing. The simple but tactful expression of ideas; the preparation of business letters, memorandums, reports, minutes of meetings, and news releases.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

BUA 295 Business Capstone Project

3 cr, 3 lec

This course functions as a capstone for all the emphasis areas in the AAS in Business programs. It is designed to bring the multi-disciplinary studies together in a real-life project to study a business problem or a business.

PRE: Successfully completed 45 credits from the Associate of Applied Sciences Business program in the following areas:

- 15 credits from the required major courses,
- 12 credit hours from the department required courses,

- 6 credits from the English Composition courses,
- 3 credits from the required Math courses,
- at least 9 credits from the remaining General Education categories (Arts/Humanities, Social/Behavioral, and Physical and Biological Sciences).

CET 102 Construction Surveying

5 cr, 3 lec, 4 lab

Surveying principles in civil engineering.

CET 123 Plane Surveying

5 cr, 3 lec, 4 lab

Fundamentals of plane surveying.

CET 201 Boundary Control and Legal Principles

3 cr, 2 lec, 2 lab

Principles of land surveying and boundary controls.

PRE: MAT 105

CET 250 Public Land Surveying Systems

3 cr, 2 lec, 2 lab

Introduction to the United States Public Land Surveying System (USPLSS).

CHM 130 CHM 1130 Fundamental Chemistry

4 cr, 3 lec, 1 rec, 2 lab **G**

Fundamental laws and principles of inorganic chemistry for students with little or no background in chemistry. Properties of matter are developed from the structure of atoms and molecules. Experiments demonstrate techniques and connect observation with theories.

PRE: MAT 121 or appropriate score on the Computerized Placement Test (CPT) and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

CHM 151 CHM 1151 General Chemistry I

4 cr, 3 lec, 3 lab **G**

A detailed study of inorganic chemistry is presented with emphasis on atomic and molecular structure, chemical reactions and bonding, equilibrium, and the laws and principles of chemistry in terms of modern theory.

PRE: CHM 130 or appropriate score on the chemistry placement test and MAT 121 or higher, or appropriate score on the Computerized Placement Test (CPT) and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

CHM 152 CHM 1152 General Chemistry II

4 cr, 3 lec, 3 lab **G**

Continuation of CHM 151. The descriptive and quantitative chemistry of the elements and compounds with regards to kinetics, atomic and molecular structure and bonding, trends of the periodic table, thermochemistry, thermodynamics, and electrochemistry.

PRE: MAT 151 or 187 and CHM 151 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

CHM 235 CHM 2235 Organic Chemistry I

5 cr, 3 lec, 4 lab

Properties and reactions of saturated and unsaturated organic compounds, including aromatic derivatives. Emphasis is placed on organic chemical nomenclature, reaction chemistry (including predicting products formed) and mechanisms, stereochemistry, structure determination from spectroscopic data, and physical and chemical properties related to molecular structure and bonding.

PRE: CHM 152

NOTE: Recommended for chemistry and preprofessional majors.

CHM 236 SUNO **CHM 2236**
Organic Chemistry II

4 cr, 3 lec, 3 lab

Continuation of CHM 235. Advanced study of carboxylic acid derivatives, carbonyl compounds, substituted benzene, amines, carbohydrates, nucleophilic addition reactions, electrophilic and nucleophilic aromatic substitution reactions, oxidation and reduction chemistry, condensation reactions, stereochemistry, and continuation of infrared and ¹H and ¹³C NMR spectroscopy, in addition to mass spectroscopy (MS). Laboratory includes qualitative analysis.

PRE: CHM 235

NOTE: Recommended for chemistry and preprofessional majors.

CHW 101 Introduction to Community Health Advocacy

1 cr, 1 lec

Orientation to the role and responsibility in community health, historical perspectives, and required skills.

CHW 106 Healthy Living

(same as LMT 106)

3 cr, 2 lec, 2 lab

Elements that influence physical, mental, emotional, and spiritual wellness; explores the impact of the wellness model on health care for self and others; effects of energy dynamics on bodywork.

CHW 110 Community Health Worker Fundamentals 1

3 cr, 3 lec

Basic skills for community health worker that include community health concepts and a comprehensive understanding of advocacy program goals.

PRE: CHW 101

CHW 120 Preparation for Field Experience

3 cr, 2 lec, 2 lab

Skills necessary for participating in the field service work of the community health worker.

CHW 210 Community Health Worker Fundamentals 2

3 cr, 3 lec

A continuation of necessary skills for community health workers that include community health concepts and a comprehensive understanding of advocacy program goals.

PRE: CHW 110

CHW 220 Field Experience

3 cr, 2 lec, 2 lab

Field experience with assigned mentor to practice advocacy skills.

PRE: CHW 120

CHW 230 Health Services

4 cr, 4 lec

Students choose specific topics of interest and develop materials for presentation of healthcare and wellness information sessions.

PRE: CHW 120

CIM 141 Keyboarding: Introduction

2 cr, 2 lec, 1 lab

This course introduces techniques of computer keyboarding with emphasis on touch control, rhythm, and accuracy. Using a word processing program, the course also introduces the formats of memorandums, letters, tables, one- and two-page reports, and simple resumes. Exemption by comprehensive examination.

CIM 142 Keyboarding: Intermediate

2 cr, 2 lec, 1 lab

This course continues the development of speed and accuracy for pro-

duction of letters, tables, reports, clipart, and communication skills using a word processing program. Exemption by comprehensive examination.

PRE: CIM 141

CIM 145 Word Processing

3 cr, 2 lec, 2 lab

Course will provide the student with a working knowledge of business formats and the use of word processing software. It covers elementary through advanced features of word processors, using the Microsoft software.

PRE: CIM 142 or certified typing speed of 35 WPM

CIM 160 Automated Filing Systems

2 cr, 2 lec, 1 lab

Alphabetic, subject, geographic, and numeric filing methods and micro-computer records management operations are presented. The indexing rules presented are compatible with the rules developed by American Records Management Association (ARMA). Recommended disk and records maintenance operations are introduced.

PRE: CIM 141

CIS 70 Basic Computers

1 cr, 1 lec, 1 lab

This course is an introduction to the very basics of how to use a computer. It is designed for that individual who has never touched a computer before and could possibly be defined as "Computer Phobic." The ultimate aim of this class is to erase those computer fears and to provide the confidence required to continue on to the other higher-level computer courses. **R**

CIS 72 Basic Word Processing

1 cr, 1 lec, 1 lab

This course is a basic introduction to the use of a word processing software package. It is specifically designed for those individuals who have successfully completed the CIS 70 "Basic Computers" course or have those basic skills and now wish to expand his/her knowledge about computers without enrolling in a traditional academic college class. **R**

PRE: CIS 70

CIS 74 Basic Spreadsheets

1 cr, 1 lec, 1 lab

This course is a basic introduction to the use of a spreadsheet software package. It is specifically designed for that individual who has completed the CIS 70 "Basic Computers" course and now wants to expand his/her personal knowledge about computers without taking a class designed with the academic rigor of a traditional college class. **R**

PRE: CIS 70

CIS 78 Basic Internet

1 cr, 1 lec, 1 lab

This course is a basic introduction to the use of the Internet. It is specifically designed for those individuals who have completed the CIS 70 "Basic Computers" course or has that knowledge level and wishes to expand his/her personal knowledge about computers without taking a traditional college class. **R**

PRE: CIS 70

CIS 92 MS-Windows (IBM Compatible)

1 cr, 1 lec, 1 lab

Students will learn basic skills in the Windows environment. Activities include: starting Windows, using a mouse and keyboard, opening and exiting menus, switching applications, sizing a window, arranging open win-

dows, accessing files and directories in File Manager, using Control Panel, working with the print queue, creating and manipulating documents with Write, practicing elements of Paintbrush, accessing accessory programs, and customizing Windows.

CIS 93 Microsoft Office Suite: Introduction

2 cr, 5 lab

This course introduces the student to Microsoft Office Suite. This integrated package encompasses the software programs Word (Word Processing), Excel (Spreadsheet), Access (Database), and PowerPoint (Presentation Manager). Topics will include creating, editing, formatting, and arranging text and graphics in Word; creating and modifying a worksheet and working with charts in Excel; creating and manipulating a database in Access; and creating, modifying, and enhancing a presentation with PowerPoint. The integration of these software programs is also introduced.

PRE: *Appropriate reading score*

CIS 95 Internet Research Techniques

1 cr, 1 lec

This class addresses the research needs of college students in a broad range of disciplines, as well as researchers, teachers, librarians, and people who want to learn more effective methods for finding information on the Internet.

NOTE: *Before taking this course, the student will need browser proficiency, which includes using keywords to do internet searches, differentiating between http/ftp/telnet addressing, and recognizing hyperlinks.*

CIS 96 Web Page Development

1 cr, 1 lec

Students will learn the basic skills for web page development. Discussions center on web page content, putting a web page online, and maintaining a web page.

NOTE: *Before taking this course, the student will need browser proficiency, which includes using keywords to do internet searches, differentiating between http/ftp/telnet addressing, and recognizing hyperlinks.*

CIS 102 Using a Microcomputer

3 cr, 3 lec, 1 lab

Introduction to computers utilizing multiple web based learning modalities, guided hands-on experience in processing data through document production software, spreadsheet software, communication software and Internet usage. Also includes introductory concepts of information security, computer security and descriptions of common terminology.

CIS 105 ~~SUNB~~ CIS 1120 Introduction to Business Information Systems

3 cr, 3 lec, 1 lab H

Provides perspective on information technology with an emphasis of applied technology in the business environment. Introduces business information systems and the use of applications software to process business data with a special focus on database and spreadsheets packages.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score and MAT 142 eligibility or approved higher level math*

CIS 120 Introduction to Computer Information Systems

3 cr, 3 lec, 1 lab H

Includes description of computer hardware and software, computer terminology, the data processing cycle, and characteristics of programming languages, with emphasis on the use of applications software in processing business data.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

CIS 121 Spreadsheet*3 cr, 2 lec, 2 lab*

This course is designed to assist the student in developing a working knowledge of spreadsheet application software packages. It will cover the elementary tasks of entering and exiting the spreadsheet software; creating, modifying, saving, printing, and erasing spreadsheets; creating and using formulae and functions; copying, moving, specifying and erasing ranges; and, formatting techniques. Intermediate functions will include manipulating larger spreadsheets and creating analytical graphs and databases. The advanced functions will require students to successfully utilize the software to solve business related problems using macros and macro menus.

CIS 131 Database*3 cr, 2 lec, 2 lab*

Students will develop the skills necessary to store and manipulate data using relational database software for business applications. The course focuses upon design, manipulation, and maintenance of databases including design, forms, reports, and queries.

PRE: CIS 102 or CIS 105 or CIS 120**CIS 151 Web Design 1***3 cr, 2 lec, 2 lab*

Website design and development utilizing industry standard web design tools.

PRE: CIS 120**CIS 154 Introduction to E-Commerce/E-Business***3 cr, 3 lec, 1 lab G*

Provides an introduction to e-commerce/e-business software/hardware requirements, design techniques, infrastructure development, marketing, economic, and sociological impacts.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**CIS 155 Introduction to Flash***3 cr, 2 lec, 2 lab*

Introduction to Macromedia Flash web page design. Basic drawing techniques as well as animation, symbols, interactivity and basic actionscripts will be covered.

CIS 170 Microcomputer Installation and Support*3 cr, 3 lec, 1 lab*

This course is designed to involve the student in the actual repair and upgrading of micro-computing systems. This course will instruct the students in the basics of computer troubleshooting and how to define and repair the problem in the most efficient way available. Software diagnostics and troubleshooting will also be used to determine hardware/software error components.

PRE: CIS 120 and knowledge of a microcomputer operating system**CIS 171 Computer Forensics and Investigations***4 cr, 3 lec, 2 lab*

Introduction to digital forensic principles including the collection, preservation, analysis of digital evidence, legal considerations, digital evidence controls, and the documentation of forensic analysis.

PRE: CIS 120**CIS 175 Computer Security***4 cr, 3 lec, 2 lab*

Introduction to computer and information security topics: threats, protective techniques, risk analysis, contingency planning, password techniques, encryption, biometrics, network protocols, intercept devices, and internet resources.

CIS 180 Computer Programming Logic*3 cr, 3 lec, 1 lab*

This course is an introduction to the fundamental techniques used in designing computer programs.

PRE: CIS 120**CIS 200 Computer Programming—Visual BASIC***4 cr, 3 lec, 2 lab*

Computer programming as a problem-solving technique, regardless of the student's area of study. The BASIC language is used to write, debug, and document business application programs to demonstrate proficiency in using BASIC.

PRE: CIS 180**CIS 220 Computer Programming—C#***4 cr, 3 lec, 2 lab*

Fundamental techniques using the C# (C Sharp) language.

PRE: CIS 180**CIS 230 Computer Programming—Java***4 cr, 3 lec, 2 lab*

Provides an introduction to object-oriented computer programming and software design using the Java software development kit. Students will learn to design, write, comment, compile, run, and debug programs using Java.

PRE: CIS 200**CIS 260 Introduction to Operating Systems***3 cr, 2 lec, 2 lab*

The internal logic of various parts of common operating systems and access to Windows, DOS, and UNIX/Linux Systems.

PRE: CIS 120

CIS 270 Networking 1

3 cr, 2 lec, 2 lab

Introduction to computer networks and data communications including: computer networks and services, transmission media and connection, network models, popular protocol suites, other network issues, and network operating systems.

PRE: CIS 260

CIS 271 Networking 2

3 cr, 2 lec, 2 lab

This course is designed to give the student the ability to have an in-depth study of networks. Students will be exposed to network operating systems in the capacity of a Network Administrator. The modality of LAN and WAN configurations will be used to facilitate security, menu systems, message handling, login scripts, and printing environments. Application software installation, file server, and workstation maintenance concepts and techniques will also be covered.

PRE: CIS 270

CIS 275 Fundamentals of Network Security

4 cr, 3 lec, 2 lab

Overview of security measures for computer networks.

NOTE: Skills and knowledge related to basic security and networks recommended.

CIS 276 Information Systems Security

3 cr, 3 lec, 1 lab

Management of information security, data-processing facilities, appropriate uses of information technology, risk management, information technology laws, issues of privacy, and security planning.

PRE: CIS 175

CIS 295 Structured Systems Analysis and Design

3 cr, 3 lec

An introduction to the fundamental tools and techniques used in analyzing organizational information systems. Topics include systems research, design, revision, and implementation of information systems. Students complete one or more projects as members of systems teams.

PRE: CIS 180

NOTE: Database course or experience strongly recommended.

CSC 127A Introduction to Computer Science 1

4 cr, 3 lec, 2 lab

Broad overview of computer science that integrates programming with hardware fundamentals, algorithms, and computability. Topics include problem-solving strategies, studies of algorithms programming paradigms, and the social and historical context of computing. Introductory programming utilizing Java is explored. Emphasis is placed on program design issues. Programming topics include: basic control structures, primitive data types, arrays, classes, simple recursion.

PRE: CIS 105 or CIS 120 and MAT 151

NOTE: No prior programming experience is assumed.

CSC 127B Introduction to Computer Science 2

4 cr, 3 lec, 2 lab

Continuation of CSC 127A. Programming in an object-oriented language using Java. Topics include classes, sorting, algorithm analysis, recursion, program development, and implementation of abstract data types using linear structures and binary trees.

PRE: CSC 127A

CSC 210 Human Computer Interaction

4 cr, 3 lec, 2 lab

Overview of human-computer interaction (HCI). Exploration of theories and methodologies of computer science, cognitive psychology, design, theory and practice in interface specification, design and evaluation, as well as current and classic research papers in HCI.

PRE: CSC 127A or programming experience

CSC 215 Introduction to Artificial Intelligence

4 cr, 3 lec, 2 lab

Artificial Intelligence (AI) methodologies, techniques, tools and results. Includes representation schemes, problem-solving paradigms, constraint propagation, and search strategies. Areas of application such as knowledge representation, natural language processing, expert systems, vision, robotics, and AI-language [Lisp, Prolog] are explored.

PRE: CSC 127A or programming experience

CTM 100 Core Curriculum Introductory Craft Skills

(same as ACR 100, ECT 100, MFG 100, PCT 100, TEC 100, and WLD 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

CTM 105 Blueprint Reading for Construction

3 cr, 3 lec

Introduction to reading, interpretation, and visualization of blueprints in construction.

PRE: MAT 71 or approved higher level math or appropriate score on the Computerized Placement Test (CPT)

CTM 110 Construction Estimating

3 cr, 3 lec

Fundamentals of determining labor, material, equipment, and subcontracting quantities for job estimates.

PRE: CTM 105

CTM 123 Building Construction Methods 1

3 cr, 3 lec

Floor foundations and interior/exterior framing, including various types and methods of building foundations and framing systems.

CTM 124 Building Construction Methods 2 (Framing)

3 cr, 2 lec, 2 lab

Provide necessary skills to understand the various types and methods of wood framing systems and to prepare the student with knowledge and experience in building various wood framing systems.

PRE: CTM 123

CTM 224 Concrete and Concrete Form Systems

3 cr, 2 lec, 2 lab

Structural and architectural applications of concrete, including examination of concrete chemistry, mix designs, placement and finishing methods, and forming systems.

CTM 230 Construction Management Field Operations

3 cr, 3 lec

Skills and techniques necessary for management of construction field operations.

PRE: CTM 105

CUL 70 Topics in Culinary Arts

.5–3 cr, 0–1 lec, 1–6 lab

Workshops for individual exploration in culinary arts. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC, R**

CUL 95 Specialty Foods

.5–3 cr, 1–6 lab

Designed to meet the needs of the community in specific areas of foods. A wide variety of foods are offered including oriental, gourmet, Italian, Mexican, microwave, lo-cal, holiday foods, and cake decorating. Provides personal enrichment and hands-on experience. Job entry skills are also developed. **CR/NC, R**

CUL 140 Food Selection and Preparation

3 cr, 1 lec, 4 lab

A study by experimentation of basic principles of food selection and preparation, as well as cost, service, and nutritive content of various food groups.

CUL 143 Sanitation

1.5 cr, 1.5 lec (8 weeks)

A course designed to provide knowledge and techniques to prevent food-borne illnesses resulting from contamination and inappropriate handling procedures. The basic principles of food sanitation and kitchen safety will be reviewed.

CUL 144 Menu Planning

1.5 cr, 1.5 lec (8 weeks)

A course designed to provide knowledge about menu planning to meet the Recommended Dietary Allowances (RDA) established by the Food and Nutrition Board of National Academy of Sciences while also considering cost, staffing, and facility constraints.

CUL 146 Production Kitchen 1 (Hot Foods)

4 cr, 8 lab

Laboratory experience in applying principles of food preparation to produce a variety of hot food products for consumers as well as development of skills in knife, tool, and equipment use, cleaning and maintenance.

PRE: CUL 140 and CUL 143

CUL 147 Production Kitchen 2 (Bakery/Pastry)

4 cr, 8 lab

Laboratory experience in applying principles of food preparation to produce a variety of bakery and pastry products for consumers as well as development of skills in tool and equipment handling.

PRE: CUL 140 and CUL 143

CUL 148 Garde Manger/Dining Room

4 cr, 8 lab

Laboratory experience in producing a variety of cold food products, in buffet presentation, and in dining room procedures with actual practice in a fine dining room setting.

PRE: CUL 140 and CUL 143

CUL 149 Culinary Arts Field Experience

1 cr, 2 lab

Provides work experience in a commercial or institutional food service operation. Placement may be voluntary or paid. 55 clock hours mandatory during the course of the semester.

CR/NC

COREQ: CUL 146 and CUL 147 and CUL 148

CUL 246 Production Kitchen 3 (American Regional Cuisine)

4 cr, 8 lab

History and customs, serving styles and preparation techniques of foods unique to selected American Regions

with emphasis on practical cooking experiences.

PRE: CUL 140 and CUL 143

CUL 248 Production Kitchen 4 (International Cuisine)

4 cr, 8 lab

History and customs, serving styles and preparation techniques of foods unique to selected international cultures with emphasis on practical cooking experiences.

PRE: CUL 140 and CUL 143

CUL 252 Catering- Planning and Production

2 cr, 2 lec

Basic steps of the catering process in a commercial food setting with emphasis on promotion, record keeping, planning, ordering production and service.

PRE: CUL 140 and CUL 143

CUL 253 Food Costing, Purchasing and Inventory Control

3 cr, 3 lec

Basic skill necessary to understand and utilize cost controls. Focus on measurements, recipe costing and yield analysis. Knowledge of efficient food purchasing, storage, production, budgeting and inventory.

DFT 100 AutoCAD 1 - Drafting

3 cr, 2 lec, 2 lab

The course provides an understanding of basic drafting fundamentals, drafting standards/conventions and the methods of graphic preparation, principles of drafting and design using Computer Aided Drafting (CAD), and the role that graphic language plays in the conception/analysis for the communication of ideas for industry. This course introduces a beginning level of AutoCAD features.

NOTE: CIS 120 and MAT 105 or approved higher level math recommended.

DFT 102 AutoCAD 2 - Drafting 2

4 cr, 3 lec, 2 lab

Introduction to more advanced features of AutoCAD, building on the skills gained in DFT 100.

PRE: DFT 100

DFT 106 Revit 1 Introduction to Revit Modeling - Drafting

4 cr, 3 lec, 2 lab

An introduction to Revit Modeling for building information management systems and drafting design.

PRE: DFT 100

DFT 107 Revit 2 Revit Modeling - Drafting

4 cr, 3 lec, 2 lab

A second course for development of higher order skills in the use of Revit Modeling for building information management systems and drafting design .

PRE: DFT 106

DFT 181 Industrial Graphics—Drafting

3 cr, 3 lec

The first course for both the certificate and the degree programs which provides the student with an understanding of the role the graphic language plays in the conception/analysis for the communication of ideas for industry. Drafting standards/conventions and the methods of graphic preparation are stressed through lecture and demonstration. Recommend Math 105 or approved higher level math.

DFT 182 Construction Graphics—Drafting

5 cr, 3 lec, 4 lab

Architectural drafting and design using Computer Aided Drafting. Topics include drafting fundamentals, construction systems, design and space planning, presentation methods and other selected topics.

PRE: DFT 185

DFT 185 Introduction to Computer-Aided Drafting

3 cr, 2 lec, 2 lab

Introduction to computer-aided drafting (CAD) and basic features of AutoCAD.

DFT 186 Computer-Aided Drafting 2

3 cr, 2 lec, 2 lab

Introduction to more advanced features of AutoCAD, building on the skills gained in the introductory class.

PRE: DFT 185

DFT 187 Introduction to ArcGIS (same as GPH 187)

1 cr, 1 lec

Introduction to ArcGIS, ESRI's full-featured GIS software for visualizing, creating, managing, and analyzing geographic data. This course provides the foundation for becoming a successful user.

DFT 191 Civil Drafting

3 cr, 2 lec, 2 lab

Introduction to civil drafting using AutoCAD software.

PRE: DFT 185

DFT 201 Construction Graphics 1

4 cr, 3 lec, 2 lab

Integrates the skills gained in DFT 100 with more advanced knowledge of commercial and residential drafting standards and practices.

PRE: DFT 100 and DFT 106

DFT 202 Construction Graphics 2

4 cr, 3 lec, 2 lab

Integrates the skills gained in DFT 201 with more advanced knowledge of commercial and residential drafting standards and practices.

PRE: DFT 201

DFT 203 AutoCAD 3 - Drafting 3*4 cr, 3 lec, 2 lab*

Introduction to civil drafting using AutoCAD software.

PRE: DFT 102**DFT 204 AutoCAD 4 - Drafting 4***4 cr, 3 lec, 2 lab*

Integrates the skills gained in DFT 203 with more advanced knowledge of commercial and residential drafting standards and practices. In preparation of the AutoCAD certified exam.

PRE: DFT 203**DFT 208 Revit 3 Revit MEP (Mechanical, Electrical, Plumbing) - Drafting***4 cr, 3 lec, 2 lab*

A course for development of higher order skills in the use of Revit for development of Mechanical, Electrical and Plumbing drawings for building information management systems and drafting design

PRE: DFT 107**DFT 209 Revit 4 Revit Structural - Drafting***4 cr, 3 lec, 2 lab*

A course for development of higher order skills in the use of Revit for development of structural drawings for building information management systems and drafting design.

PRE: DFT 208**DFT 281 Computer-Aided Drafting/Design Manufacturing***5 cr, 3 lec, 4 lab*

Integrates the knowledge gained in manual drafting skills to the computer as a drafting/design tool as it applies to the manufacturing process, drawing development, changes, and retrieval system in today's industry.

PRE: DFT 185 and MAT 105**DFT 283 Manufacturing Graphics 2***6 cr, 3 lec, 6 lab*

A complementary continuation of the learning activities developed in DFT 281, including the refinement of drafting skills and knowledge associated with state-of-the-art manufacturing techniques and processes.

PRE: DFT 281**DNC 70 Ballroom Dance***1 cr, 1 lec, 1 lab*

Ballroom dance for personal, social and fitness benefits. **CR/NC**

DNC 150 Beginning Ballet*2 cr, 1 lec, 2 lab*

Study of ballet at a beginner level.

Note: *Appropriate attire required***DNC 151 Intermediate Ballet***2 cr, 1 lec, 2 lab*

Study of ballet at an intermediate level.

Note: *Appropriate attire required***ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program***1 cr, .5 lec, 1 lab*

Procedures and practices designed to protect the health of young children in early childhood programs.

PRE: *ESL 93R or appropriate ESL placement exam***COREQ:** *Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)***Note:** *All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL. This course combined with ECE 103 and ECE 111 is accepted as equivalent to ECE 165.***ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program***1 cr, .5 lec, 1 lab*

Prepare methods and skills necessary to provide a safe environment for children in an early childhood program.

PRE: *ESL93R or appropriate ESL placement exam***COREQ:** *Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)***Note:** *All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.**This course when taken with both ECE 101 and ECE 111 is equivalent to ECE 165.***ECE 104 Planned Arrangements and Schedules***1 cr, .5 lec, 1 lab*

Methods of scheduling and lesson planning designed to meet the needs of young children in a variety of early childhood settings.

PRE: *ESL 93R or appropriate ESL placement exam***COREQ:** *Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).***Note:** *All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.***ECE 105 Techniques for Observing Children***1 cr, .5 lec, 1 lab*

A study of techniques for effectively observing and recording children's characteristics and behavior. Appropriate ways to use child observations are included.

PRE: *ESL 93R or appropriate ESL placement exam***COREQ:** *Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)*

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 106 Building Relationships with Parents

1 cr, .5 lec, 1 lab

To develop methods of effective communications and cooperation between parents and early childhood program setting.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 107 The Child's Total Learning Environment

1 cr, .5 lec, 1 lab

A study of the preschool child's prepared learning environment: indoor, outdoor and community aspects. Focus on learning centers, use of developmentally appropriate materials, routines and schedules.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 108 Guidance Principles

1 cr, .5 lec, 1 lab

Techniques and practices that encourage children to take responsibility for their own actions within a formal group setting.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 109 Enhancing Family Involvement

1 cr, .5 lec, 1 lab

Methods for incorporating active parent and community involvement within Early Childhood Programs.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 110 Fostering Communication and Language

1 cr, .5 lec, 1 lab

Understanding, assessing, and enhancing the development of communication skills of young children

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 111 Nutrition

1 cr, .5 lec, 1 lab

Planning and implementing nutrition education in the early childhood program.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL. This course when taken with both ECE 101 and ECE 103 is equivalent to ECE 165.

ECE 114 Understanding How Children Learn

1 cr, .5 lec, 1 lab

An overview of how young children learn.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 117 Multicultural and Anti-Bias Curriculum

1 cr, .5 lec, 1 lab

Methods to implement an anti-bias multicultural curriculum.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 119 Enhancing a Positive Self-Concept

1 cr, .5 lec, 1 lab

A study of the role a child's self image plays in development and learning processes and an overview of teaching/care giving behaviors which will enhance the growth of a positive self image.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 120 Beginning Mathematical Concepts

1 cr, .5 lec, 1 lab

How to construct appropriate concrete mathematical experiences for young children.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 121 Sciencing and Discovery

1 cr, .5 lec, 1 lab

Techniques for helping children increase awareness and appreciation of their natural environment.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 122 Transitions

1 cr, .5 lec, 1 lab

Study and application of transitions in varied early childhood settings.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 123 Literature for Preschool Children

1 cr, .5 lec, 1 lab

An introduction to children's literature.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 124 Creative Media

1 cr, .5 lec, 1 lab

Construct creative media activities for children.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 125 Dramatic Play

1 cr, .5 lec, 1 lab

Methods for offering role-playing activities for young children.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 126 Blocks

1 cr, .5 lec, 1 lab

Methods for providing block play in the early childhood curriculum.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 128 Music and Creative Movement

1 cr, .5 lec, 1 lab

Methods to use music and creative movement in the early childhood curriculum.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 129 Emerging Literacy

1 cr, .5 lec, 1 lab

Analyze the development of reading and writing skills for young children.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 130 Cognitive Development

1 cr, .5 lec, 1 lab

Practice in theories, trends, and principles of cognitive growth and development of infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Learning Laboratory (CDLL)

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 133 Developing Observation Skills: Infant/Toddler Program

1 cr, .5 lec, 1 lab

Methods to effectively observe and record characteristics and developmental stages of infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 134 Language Development of Infants and Toddlers

1 cr, .5 lec, 1 lab

Language development for infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 135 Guidance and Discipline of Infants and Toddlers

1 cr, .5 lec, 1 lab

Social and emotional development of infants and toddlers as it relates to discipline.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 136 Physical Development in Infancy

1 cr, .5 lec, 1 lab

Physical development in infancy.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 137 Enhancing Social Competence of Infants and Toddlers

1 cr, .5 lec, 1 lab

Social and emotional development of infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 138 Encouraging Trust and Autonomy Leading to the Development of Positive Self-Concept of Infants and Toddlers

1 cr, .5 lec, 1 lab

Methods to explore the normal sequence of social and emotional development of infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 139 Organization of Space, Materials, and Equipment for Infants and Toddlers

1 cr, .5 lec, 1 lab

Construct effective environments for infants and toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 141 Physical Development in Toddlerhood

1 cr, .5 lec, 1 lab

Physical development for toddlers.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 142 Recordkeeping Skills for Daily Infant/Toddler Care Programs

1 cr, .5 lec, 1 lab

Recordkeeping procedures for an infant/toddler care program.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 143 Resource File

2 cr, 1 lec, 2 lab

Prepares the student on how to compile a portfolio/resource file in preparation for Child Development Associate (CDA) Assessment.

PRE: ECE Director permission needed and ESL 93R or appropriate ESL placement exam

COREQ: Eligibility for ENG 80, minimum of 300 practice hours with the appropriate aged children and work in an appropriate childcare setting

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 145 CDA Student Teaching—Vocational

3 cr, .5 lec, 5 lab

Prepares the student with direct participation in an early childhood setting. Students engage in supervised teaching of young children at a chosen site. The course is the final step in the application process for the National CDA Credential.

PRE: ECE 143 with a grade of "B" or higher and ESL 93R or appropriate ESL placement exam

COREQ: Have a work-site with the age group and setting appropriate to assessment

NOTE: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC Child Development Learning Laboratory (CDLL). Students must have completed 480 clock hours of experience working with children in a group setting.

ECE 146 Family Child Care as a Small Business

1 cr, .5 lec, 1 lab

A study of the multifaceted aspects of the business of providing family child care such as zoning, certification, insurance, hours of care, fees, advertising, program and parent/provider agreements.

PRE: ESL level 4 or English language proficiency

COREQ: Working in a child care setting or acceptance as an intern at AWC CDLL

ECE 148 Recordkeeping for the Family Child Care Provider

1 cr, .5 lec, 1 lab

Fundamentals of a recordkeeping system in a family child care setting including recording income and expenses; tax consideration; organizing, storing, and saving records; and

health safety, developmental, and program records.

PRE: ESL level 4 or English language proficiency

COREQ: Working in a child care setting or acceptance as an intern at AWC CDLL

ECE 151 Ages and Stages: Preschool–Infancy

1 cr, .5 lec, 1 lab

Theories, trends and research in the development of stages prenatal through infancy.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 152 Ages and Stages: Toddlerhood

1 cr, .5 lec, 1 lab

Theories, trends, and research in the development of toddlerhood. Emphasis on the principles of physical, social, emotional, and intellectual growth of young children. General characteristics and behaviors as well as comparisons of generally accepted norms are included. Observation of toddlers may be a requirement.

PRE: ESL level 4 or English language proficiency

COREQ: Working in a child care setting or acceptance as an intern at AWC CDLL

ECE 153 Ages and Stages: The Preschool Years

1 cr, .5 lec, 1 lab

Theories, trends, and research in the development of the preschool years. Emphasis on the principles of physical, social, emotional, and intellectual growth of young children. General characteristics and behaviors as well

as comparisons of generally accepted norms are included. Observation of preschoolers may be a requirement.

PRE: ESL 93R or appropriate ESL placement exam

COREQ: Work in a child care setting or acceptance as an intern at AWC Child Development Learning Laboratory (CDLL).

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL.

ECE 154 Ages and Stages: The Middle Years

1 cr, .5 lec, 1 lab

This course is an overview of theories, trends and research in the development of children from five years to twelve years of age.

PRE: ECE 101, ECE 103, and ECE 111 and ESL 93R or appropriate ESL placement exam

COREQ: Work in a school-aged work-site

Note: All students are mandated to spend at least two (2) hours per one (1) credit at the AWC CDLL

ECE 165 Health, Safety, and Nutrition for the Young Child

3 cr, 3 lec

Overview of environmental factors that impact the health, safety and nutrition of infants and young children.

COREQ: ECE 166

Note: Equivalent to ECE 101 and ECE 103 and ECE 111 combined.

ECE 166 Early Childhood Field Experience 1

1 cr, 2 lab

Initial opportunity to work in an early childhood setting.

COREQ: ECE 165

Note: TB skin test immunization record required and work-site or placement at AWC CDLL.

ECE 169 Play Lab

1 cr, 2 lab

Learning about child development through interaction with the student's own child and other children. CR/NC

COREQ: *Student's child must be enrolled in the AWC Child Development Learning Laboratory*

ECE 200 Early Childhood Education

3 cr, 3 lec

Overview of effective teaching skills, behavior of children, and curriculum in early childhood education settings. Twenty hours of observation is mandatory in this course.

PRE: *ECE 165 and ECE 166*

ECE 202 Childcare Management

3 cr, 3 lec

Administration and management processes required to manage a childcare facility, including, budgets, staffing, marketing, and licensing of childcare facilities.

PRE: *ECE 165*

ECE 205 Home, School, and Community Relations

3 cr, 3 lec

Development of skills that promote a positive relationship between families and teachers, or professional childcare workers.

PRE: *ECE 165*

COREQ: *ECE 206*

ECE 206 Early Childhood Field Experience 2

1 cr, 2 lab

Continuing opportunity to work in an early childhood setting.

PRE: *Fingerprint and background clearance*

COREQ: *ECE 205 and work-site or placement at AWC CDLL*

ECE 208 Guiding Children's Behavior

3 cr, 3 lec

Overview of the methods needed for effective guidance of children.

ECE 210 Activities in Early Childhood Education

3 cr, 3 lec

Study of the curriculum, methods and materials used to assist children in the learning process. Observation of children is an integral part of the course.

PRE: *ECE 165 and ECE 166 and ECE 200 and ECE 205 and ECE 206*

COREQ: *ECE 211*

ECE 211 Early Childhood Field Experience 3

1 cr, 2 lab

Continuing opportunity to work in an early childhood setting.

PRE: *ECE 165 and ECE 166 and ECE 200 and FA and CPR required (fingerprinting and CPR training)*

ECE 212 Early Childhood Education Certificate Capstone

1 cr, 2 lab

Supervised student teaching in a preschool setting.

PRE: *Completion of all courses in the Early Childhood Education certificate*

COREQ: *Work in a school-aged work-site*

ECE 240 Child Growth and Development

3 cr, 3 lec C, WI

Overview of human growth and development from conception to early adolescence, incorporating independent observation of children and personal investigation into child-related issues.

PRE: *ENG 101*

ECE 243 Early Childhood Development

3 cr, 3 lec

Exploration of the development of young children between the ages of birth and 8 years old. The course will include 32 hours of directed observation of children birth through 8 years.

PRE: *ECE 208 and ECE 240*

ECE 245 Early Childhood Special Education

3 cr, 3 lec

Introduction to the area of early childhood special education focusing on gathering information about at-risk, delayed or disabled children.

PRE: *ECE 240 or FAS 238 or PSY 238*

NOTE: *ECE 243 suggested co-requisite for degree seekers.*

ECE 246 Early Childhood Field Experience 4

1 cr, 2 lab

Opportunity to work in an early childhood special education setting.

PRE: *Fingerprint and background clearance mandatory.*

COREQ: *Need work-site or placement at AWC CDLL. ECE 243 and 245 recommended*

ECE 250 Early Childhood Language and Literacy

3 cr, 2 lec, 2 lab

Focus on the process of language and literacy development in the child: birth through eight years.

PRE: *ECE 240 and ECE 243*

ECE 260 Techniques for Observing and Assessing Children

3 cr, 2 lec, 2 lab

Exploration of concepts and techniques used to observe and record children's characteristics and behaviors in an early childhood setting and how to apply observation to assess-

ment. Includes two hours of weekly observation.

PRE: ECE 165 and ECE 166 and ECE 200 and ECE 205 and ECE 206 and ECE 208 and ECE 210 and ECE 211 and ECE 240 and ECE 243 and ECE 245 and ECE 250

ECE 265 Children's Literature

3 cr, 2.5 lec, 1 lab

Overview of the organization and scope of children's literature for early and elementary school classrooms.

PRE: ECE 165 and ECE 166 and ECE 200 and ECE 205 and ECE 206 and ECE 208 and ECE 210 and ECE 211 and ECE 240 and ECE 243 and ECE 245 and ECE 250

ECE 270 Early Childhood Education Internship

4 cr, 8 lab

Capstone course which provides the student with directed participation in an appropriate early childhood setting.

PRE: ECE 165 and ECE 166 and ECE 200 and ECE 205 and ECE 206 and ECE 208 and ECE 210 and ECE 211 and ECE 240 and ECE 243 and ECE 245 and ECE 250 and ECE 260 and ECE 265

ECN 100 Introduction to Economics

3 cr, 3 lec G

Investigates the basic concepts and principles of economics and how they operate within the American economic system. Highlights both macro and microeconomics in very simplified terms, intended for those who will only take one course in economics.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ECN 240 SUNB ECN 2201 Principles of Macroeconomics

3 cr, 3 lec G, WI

Analysis of general levels of output, employment, income, and prices.

Includes money and banking, national income accounting, economic growth, fiscal and monetary policy.

PRE: ENG 101 eligibility and MAT 142 eligibility

ECN 250 SUNB ECN 2202 Principles of Microeconomics

3 cr, 3 lec G

Analysis of price determination and income distribution in a free enterprise economy. Detailed study of supply and demand, allocation of resources by individual firms, and application to the American economics system.

PRE: ENG 101 eligibility and MAT 142 eligibility

ECT 100 Core Curriculum Introductory Craft Skills

(same as ACR 100, CTM 100, MFG 100, PCT 100, TEC 100, and WLD 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

ECT 105 Basic Electricity

3 cr, 2 lec, 2 lab

Introduction to basic electrical principles, circuits, and measurements.

PRE: MAT 71 or approved higher level math or appropriate score on the Computerized Placement Test (CPT) and RDG 95 or appropriate reading score

ECT 110 AC/DC Circuits

4 cr, 3 lec, 2 lab

Introduction to direct current (DC) and alternating current (AC) theory, Ohm's Law, and series, parallel, and combination circuits.

PRE: ECT 105

ECT 115 National Electric Code

3 cr, 3 lec

Study of the National Electrical Code (NEC), including local ordinances.

ECT 205 Fixtures and Installation

4 cr, 3 lec, 2 lab

Overview of the planning and installing of electrical fixtures.

PRE: ECT 105 and ECT 110 and ECT 115

ECT 210 Control Circuits

4 cr, 3 lec, 2 lab

Overview of the principles and applications of components, control circuits, and diagrams.

PRE: ECT 205

ECT 220 Electrical Installation

5 cr, 4 lec, 2 lab

Electrical installations for commercial and residential applications.

PRE: ECT 110 and ECT 115

ECT 225 Load Calculations

3 cr, 2 lec, 2 lab

Advanced electrical load calculation.

PRE: ECT 110 and ECT 115

EDU 100 Pre-Teaching Pathway to Education

3 cr, 3 lec

A career track introduction to the teaching profession.

PRE: appropriate reading score

EDU 102 Tutor Training Seminar

1 cr, .5 lec, 1 lab

Training and experience to become an effective tutor for individualized and small group sessions.

EDU 107 The Care and Maintenance of Audio-Visual Equipment

3 cr, 3 lec

Introduction to the management, maintenance, minor repair, and operation of media equipment.

EDU 110 Introduction to Education

3 cr, 3 lec

The understanding of teaching as a profession through learning experiences: observational and participatory.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

NOTE: In addition to regular class attendance, twenty (20) hours of classroom observation is required

EDU 134 Substitute Teaching

1 cr, 1 lec

This course will prepare students for the job responsibilities of being a substitute teacher in elementary, middle school, and high school classrooms.

NOTE: In order to qualify as a substitute teacher, you must be certified by the state.

EDU 207 Education Practicum

1 cr, 1 lec

Field experience in an elementary or secondary school.

EDU 210 Cultural Diversity in Education

3 cr, 3 lec

This introductory course examines the relationship of cultural values to the formation of the child's self-concept and learning styles. Also incorporated will be an examination of the roles of prejudice, stereotyping, and cultural incompatibilities in education. In addition to regular class attendance, ten (10) hours of classroom observation is required.

PRE: EDU 110

EDU 222 Introduction to Special Education

3 cr, 3 lec

Introduces the future teacher to the study of special needs children with emphasis on factors relating to current practices, identification and characteristics of the exceptional child. In addition to regular class attendance, ten (10) hours of classroom observation is required.

PRE: EDU 110

EDU 231 Art in the Elementary School

(same as ART 231)

3 cr, 2 lec, 2 lab

The use of art to provide children with an alternative form of instruction.

PRE: EDU 110

EDU 249 The Community College for Associate Faculty

1 cr, 1 lec

A survey of the philosophy, history, organization, functions, and funding of Arizona Western College. Emphasis will be placed on analysis of the institution, instructional systems, and resources for associate faculty. CR/NC

EDU 250 The Community College

3 cr, 3 lec

A survey of the philosophy, history, organization, and funding of the American community college. Emphasis will be placed on analysis of student development, instructional systems, current issues, and future trends.

EDU 275 Classroom Management and Instructional Planning

3 cr, 3 lec

Provides students with the knowledge and skills enabling them to have a

well-disciplined and managed classroom which maximizes learning and instructional time. Also provides information and practice to assist students in planning, writing, teaching, and evaluating effective standard-based, age-appropriate lessons.

PRE: EDU 222

NOTE: In addition to regular class attendance, 10 hours (K-12) of classroom observation and participation are required.

EDU 280 Teaching Practicum

1 cr, 2 lab

Supervised field experience in an elementary school.

PRE: EDU 210 and EDU 222

COREQ: EDU 275

EGR 123 Introduction to Structured Programming

3 cr, 3 lec

Fundamentals of effective and efficient programming from a scientific point of view. Emphasis on problem-solving through structured programming techniques, use of application specific programs, and logical thought process in programming.

PRE: Either MAT 187 or both MAT 151 and MAT 183

EGR 150 Introduction to Environmental Engineering

3 cr, 3 lec

Introduction to the discipline of environmental engineering and the role of technology in environmental protection. Explanation of the principles of conservation and environmental protection with attention to water resources, air contamination, waste management; pollution prevention, multi-media impacts of most contaminants, current perspectives on environmental risks, policies, and ethics.

PRE: MAT 121

COREQ: CHM 151 and MAT 151

EGR 180 Computer Aided Engineering Design

3 cr, 2 lec, 2 lab

Fundamentals of graphical communications including sketching, computer-aided drafting, standards, scaling, and basic civil and environmental engineering applications.

PRE/COREQ: Either MAT 187 or both MAT 151 and MAT 183

EGR 185 Data Acquisition and Analysis

4 cr, 3 lec, 2 lab

Introduction to the methods and characteristics of engineering design, operational and maintenance data, techniques and instruments to capture data, and analysis and graphical representation of data for effective decision making.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score and MAT 187 or approved higher level math

EGR 188 EGR 1102 Fundamentals of Engineering Design

4 cr, 3 lec, 2 lab

Engineering design, effective team participation and career preparation. Students are expected to participate in hands-on design projects, develop education/career plans and initiate development of the personal and management skills necessary for life long learning.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score and MAT 151 plus MAT 183 or MAT 187 or approved higher level math course

EGR 202 Digital and Analog Fundamentals

4 cr, 3 lec, 2 lab

Introduction to the fundamentals of digital and analog signals and the instruments used to measure the signals. A broad range of instruments

and measurement hardware including high-speed data acquisition, RF switching, high precision instruments, motion control, digital I/O, counter operations, and virtual instrumentation will be covered.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score and PHY 112

NOTE: PHY 112 preferred prerequisite; PHY 112 may be taken along with EGR 202.

EGR 225 Engineering Analysis

3 cr, 3 lec

Graphical and numerical descriptive statistics, probability, inferential statistics, discrete and continuous random variables, sampling error, hypothesis testing, and experiment design.

PRE: MAT 220

COREQ: MAT 230

EGR 251 Applied Mechanics - Statics

3 cr, 3 lec

Fundamentals of applied mechanics, vector algebra, equivalent force systems, equations of equilibrium, structures, moments of plane areas, centroids, friction.

PRE: MAT 230 and PHY 121

EGR 252 Applied Mechanics-Dynamics

3 cr, 3 lec

Kinematics and kinetics of particles and rigid bodies using vector analysis; solution methods: force-mass-acceleration, work and energy, impulse and momentum, translating and rotating coordinate systems.

PRE: EGR 251 and MAT 241

EGR 253 Mechanics of Materials

3 cr, 3 lec

Basic concepts of solid mechanics; relationships between stresses, strains, deformations and internal

forces in machine components and load-bearing structures.

PRE: EGR 251

EGR 270 Plane Surveying

3 cr, 2 lec, 2 lab

Surveying instruments and basic procedures including error analysis; note keeping; measurement of distance, elevation, and angles with appropriate precision; traversing; stadia; and topographic mapping.

PRE: Either MAT 187 or both MAT 151 and MAT 183

EGR 286 Engineering Design—The Process

3 cr, 3 lec

The process of engineering design, mechanisms and controls, computer and programming skills, teamwork and project management, written and oral communications.

PRE: EGR 180

COREQ: EGR 180

EMS 105 Portfolio Development (same as AJS, FSC 105)

4 cr, 1 lec, 6 lab

Designed to help personnel of Law Enforcement, Fire Science and Emergency Medical Services develop a portfolio that details those prior learning experiences that may be considered for college credit at Arizona Western College. **CR/NC**

EMS 106 Introduction to Health Careers

5 cr, 4 lec, 2 lab

This course prepares the student for acceptance into various healthcare related career programs by emphasizing basic health related topics and introductory emergency management procedures. Students gain insight into specific health careers by having direct contact with visiting health experts.

PRE: ENG 100 or higher

EMS 150 Emergency Care

2 cr, 1.5 lec, 1 lab

Teaches the student to administer first aid and cardiopulmonary resuscitation to improve personal judgement in cases of accident or illness, and to develop the ability to render aid in time of emergency. Serves as CPR prerequisite for EMS 152.

EMS 152 Basic Emergency Medical Technician

12 cr, 7 lec, 10 clin

Intensive study of all techniques of emergency care currently considered as responsibilities of the Emergency Medical Technician. Development of skills in recognizing signs and symptoms of illness and injury, and proper procedures of emergency care. Study of anatomy, physiology, triage, patient assessment, and stabilization of patients.

PRE: **1)** Minimum CPT reading score of 70. **2)** Student must submit application and must fulfill requirements of Arizona Department of Health Services before being accepted into the Arizona Western College EMT Program. **3)** Applicant needs to be at least 18 years of age.

EMS 293 Paramedic Academy 1

15 cr, 11 lec, 8 clin

The first of three modules designed to prepare the working EMT-B for certification as a paramedic in the state of Arizona.

PRE: CPT reading score of 85 or higher and BIO 160 or BIO 201 and BIO 202; and meet the requirements of the Arizona State Department of Human Services and have applied and be accepted into the Paramedic Academy by the Director of EMS or the Medical Director of EMS

EMS 294 Paramedic Academy 2

15 cr, 11 lec, 8 clin

This is the second of three modules designed to prepare the working EMT-B for certification as a paramedic in the State of Arizona.

PRE: EMS 293 with a minimum grade of B

EMS 295 Paramedic Academy 3

15 cr, 11 lec, 8 clin

This is the third of three modules designed to prepare the working EMT-B for certification as a paramedic in the State of Arizona.

PRE: EMS 294 with a minimum grade of B

ENG 80 Fundamentals of Writing

6 cr, 6 lec

Introduction of essential skills for college-level academic writing, with focus on the writing process, as well as standard usage and mechanics, in structuring clear sentences, paragraphs, and multi-paragraph essays.

PRE: Appropriate placement test scores

ENG 90 Fundamentals of Writing (Accelerated)

3 cr, 3 lec

Introduction of essential skills for college-level academic writing, with focus on the writing process, as well as standard usage and mechanics, in structuring clear sentences, paragraphs, and multi-paragraph essays.

PRE: Appropriate placement test scores

ENG 100 Introduction to Composition

3 cr, 3 lec

A course in expository writing for students who need review and practice in adapting college-level writing conventions, organizational strategies, and revision and editing techniques to a variety of writing tasks in preparation for university-parallel composition classes. Emphasis on the writing process, responding to written texts in ways that demonstrate expressive, analytical, and evaluative thinking that culminates in writing well-organized

compositions, academic vocabulary development, and the location and use of reference materials.

PRE: ENG 80 or ENG 90 or appropriate placement test scores

ENG 101 SUNG ENG 1101

Freshman Composition

3 cr, 3 lec

A course in expository writing with emphasis on writing processes and effective rhetorical choices concerning audience, purpose, genre, and style. Student will examine the relationships among language, knowledge, and power, and gain facility with critical reading and writing. Students will also learn to approach writing as a vehicle for learning and communication, addressing the types of writing they will encounter in college as well as in professional and civic environments.

PRE: ENG 100 or appropriate placement test scores

ENG 102 SUNG ENG 1102

Freshman Composition

3 cr, 3 lec

A course in academic writing and critical thinking skills. This course is an intensive study of and practice in the strategies and techniques used for developing research-based expository and persuasive texts, emphasizing research methods and the process of inquiry. This course prepares students to enter upper-level academic discourse communities.

PRE: ENG 101

ENG 110 Technical Writing

3 cr, 3 lec

A course in basic technical writing, including memos, status and progress reports, application letters, and résumé writing in the context of technical fields of study.

PRE: ENG 100

COREQ: ENG 101

ENG 170 Introduction to the Literature of the Bible

3 cr, 3 lec H

A literary study of the Bible with emphasis on the Old Testament. Not a course in theology or denominational interpretation. Emphasis on the Bible's social and historical backgrounds, literary genres, characterization, poetic imagery, and writers.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENG 180 Literature of the American West

3 cr, 3 lec H

A literary study of this region and its influence on American culture. Students will explore what significant authors have written about the West in works of both fact and fiction. In addition, students will discuss the importance of distinguishing literary western writing from popular works.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENG 185 Myths and Other Traditional Narratives

3 cr, 3 lec C

An introduction to the myths of ancient and medieval cultures of Europe, the Mideast, and Far East, as well as the Americas and regions of Africa. Explores similarities and differences in various cultures' quests for meaning: of human nature and mortality, of gods and immortality, of the origin and structure of the universe, of the exemplary lives of heroes and heroines, and of the ordering of communities.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENG 186 Folklore

3 cr, 3 lec C

A study of stories, customs, beliefs, music, ceremonies, arts and crafts, home cures, ways of cooking, and farming which people (the folk) have found useful or satisfying enough to pass on for generations. Students will have the opportunity to learn to recognize folklore and to understand that it is not merely "'cute' or 'picturesque' but is central to humanity."

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENG 190 Introduction to Literature

3 cr, 3 lec C

A course designed to introduce the students to interpretive concepts of literature and to develop their enjoyment and understanding of it.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENG 210 Introduction to English Linguistics

3 cr, 3 lec H

The study of the components of the English Language; this will include phonetics, phonology, morphology, semantics, and syntax.

PRE: ENG 101

NOTE: ENG 102 recommended

ENG 220 Science Fiction

3 cr, 3 lec H, WI

The study of science fiction as literature, including historical development and related genres, through short stories, novels, and film.

PRE: ENG 101

NOTE: ENG 102 recommended

ENG 231 World Literature to 1600

3 cr, 3 lec C, WI

The literature of major authors in the light of their cultural backgrounds. Presents writing from early Greek times through the Renaissance periods.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 232 World Literature 1600 to Present

3 cr, 3 lec C, WI

This course is a critical examination of selected classics of world authors from the 17th century to modern times.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 241 English Literature to 1800

3 cr, 3 lec H, WI

A chronological survey of English Literature from the Medieval period through the 18th century. Works studied will include Beowulf, Sir Gawain and the Green Knight, and selections from Chaucer, Shakespeare, Milton, and Alexander Pope.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 242 English Literature 1800 to Present

3 cr, 3 lec H, WI

A chronological survey of English Literature from the Romantic period to the present. Major authors will include Wordsworth, Browning, Joyce, Woolf, and Samuel Beckett.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 245 Contemporary Multicultural Literature

3 cr, 3 lec H, WI

A critical examination of the literature of cultures whose origins lie outside the Western tradition, including various minority cultures in the United States.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 251 American Literature to 1860

3 cr, 3 lec H, WI

A survey of American literature from colonial times to the Civil War. Emphasis on Poe, Hawthorne, Melville, Thoreau, and Whitman.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 252 American Literature 1860 to Present

3 cr, 3 lec H, WI

A survey of American literature from Civil War to present. Emphasis on Dickinson, Twain, Frost, Eliot, Hemingway, Fitzgerald, Faulkner, and Steinbeck.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 261 Introduction to Shakespeare 1

3 cr, 3 lec

Representative comedies, histories, and tragedies are analyzed. Shakespeare's life and times will be studied in some detail.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 262 Introduction to Shakespeare 2

3 cr, 3 lec

Focuses on the great tragedies (Hamlet, Othello, King Lear, and Macbeth) and three other plays from

the latter half of Shakespeare's productive years.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 281 Introduction to Film Studies

3 cr, 3 lec H, WI

The study of movies as a medium for telling stories and communicating ideas. Includes such topics as narrative and visual elements, historical development and genres, and thematic and cultural issues.

PRE: ENG 101

NOTE: ENG 102 is recommended

ENG 291 Introduction to Creative Writing

3 cr, 3 lec

Beginning techniques in fiction and poetry writing for the continuing beginning writers or experienced writers from the community seeking instruction in the composition and revision of the student's creative work in a workshop setting.

PRE: ENG 101 or an interview with the instructor before enrollment

ENG 292 Intermediate Creative Writing

3 cr, 3 lec

Instruction and guidance for the writer of fiction, poetry, and creative non-fiction at the intermediate level. The format of this class will be primarily the analysis of student work in a workshop situation. The instruction includes such concerns as the writer's craft, the marketplace, publication, and copyrights.

PRE: ENG 291 or an interview with the instructor before enrollment

ENT 100 Introduction to Entrepreneurship

3 cr, 3 lec

Introduction to entrepreneurship explains the process of starting a

business by presenting economic, financial and business concepts in a manner easily understood by beginning business students. In a step-by-step process students will learn how to start a small business, operate a small business and turn their ideas into viable business opportunities.

ENT 220 Marketing the Entrepreneurial Venture

3 cr, 3 lec

Overview of small business marketing including: conducting research, determining the target market, and developing a marketing strategy.

ENT 240 Business Plan Development

3 cr, 3 lec

Introduction to creating an effective business plan.

PRE: ENT 100

ENT 250 Small Business Analysis

2 cr, 2 lec

Entrepreneurial capstone course applying problem solving skills and analyzing course studies.

PRE: ENT 100 and ENT 220 and ENT 240 and BUA 230

ENV 101 Environmental Science

4 cr, 3 lec, 2 lab, 1 rec G

Introduction to the interrelationships of biological, chemical, and geological cycles and their hazards to urbanized societies, and the impact of modern society on earth's habitats and resources.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENV 230 Foundations of Environmental Science: Humans and the Environment

4 cr, 3 lec, 2 lab, 1 rec

Introduction to the scientific method of investigating and solving environ-

mental problems. Interdisciplinary analysis of interaction among living and nonliving environmental components, focusing on human interactions. Lab emphasizes critical thinking, experimental design, and problem solving through use of the scientific methods. ENV 230 is intended as a first course for students majoring in the Environmental Sciences.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

ENV 280 Physical and Chemical Processes in the Environment

4 cr, 3 lec, 2 lab, 1 rec

Introduction to the study of the Earth's atmosphere and hydrosphere, emphasizing composition, chemical processing, and physical transport, while addressing aspects of human impact and policy.

PRE: ENV 230 and CHM 151

PRE/COREQ: CHM 152 and MAT 270

ESL 90C Conversation—All Levels

1 cr, 1 lec

Conversation incorporates integrated language instruction with an emphasis on oral skills at all levels. Students will learn and apply a variety of techniques designed to improve conversational fluency and accuracy in a variety of situations.

PRE: A proficient entrance score on the ESL placement exam

ESL 91A Structure 1A

3 cr, 3 lec

Structure 1A incorporates integrated English language instruction with an emphasis on beginning grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: Literate and a proficient entrance score on the ESL placement exam

ESL 91B Structure 1B

3 cr, 3 lec

Structure 1B incorporates integrated English language instruction with an emphasis on beginning grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: ESL 91A or literate and a proficient entrance score on the ESL placement exam

ESL 91D Beginning Conversation

3 cr, 3 lec

Basic communication skills with emphasis on oral communication and pronunciation in social situations.

NOTE: Reading and writing skills in the student's native language required

ESL 91F Reading and Writing 1A

3 cr, 3 lec

A beginning course in written English. Intensive input and experience in reading and writing forms, sentences and short paragraphs.

PRE: Reading and writing skills in the native language

ESL 91G Reading and Writing 1B

3 cr, 3 lec

Reading and writing more complex material.

PRE: ESL 91F or a proficient entrance score on the ESL placement exam

ESL 91L Listening and Speaking 1

3 cr, 3 lec

This course is designed to increase integrated language acquisition with emphasis on aural/oral communication skills for beginners. It is recommended that this course be taken concurrently with a structure course (ESL 91S or 91A or 91B) and a reading and writing course (ESL 91R or 91F or 91G).

PRE: Literate in native language or a proficient entrance score on the ESL Placement Exam

ESL 91R Reading and Writing 1

6 cr, 6 lec

Reading and Writing 1 incorporates integrated language instruction with an emphasis on reading and writing skills as well as vocabulary development. Students will be exposed to a variety of themes in reading and use pertinent grammatical structures in writing assignments.

PRE: Literate and permission of instructor or a proficient entrance score on the ESL placement exam

ESL 91S Structure 1

6 cr, 6 lec

Structure 1 incorporates integrated English language instruction with an emphasis on beginning grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: Literate and a proficient entrance score on the ESL placement exam

ESL 92A Structure 2A

3 cr, 3 lec

Structure 2A incorporates integrated English language instruction with an emphasis on low-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 91B or 91S or a proficient entrance score on the ESL placement exam

ESL 92B Structure 2B

3 cr, 3 lec

Structure 2B incorporates integrated English language instruction with an emphasis on low-intermediate grammatical concepts. Students will be exposed to a variety of grammatical

concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 92A or a proficient entrance score on the ESL placement exam

ESL 92F Reading and Writing 2A

3 cr, 3 lec

Continued development of skills for reading and writing paragraphs and experience in writing personal correspondence.

PRE: ESL 91G or a proficient entrance score on the ESL placement exam

ESL 92G Reading and Writing 2B

3 cr, 3 lec

Expansion of skills for reading and writing compositions and longer written material.

PRE: ESL 92F or a proficient entrance score on the ESL placement exam

ESL 92L Listening and Speaking 2

3 cr, 3 lec

This course is designed to increase integrated language acquisition with emphasis on aural/oral communication skills for high beginners. It is recommended that this course be taken concurrently with a structure course (ESL 92S or 92A or 92B) and a reading and writing course (ESL 92R or 92F or 92G).

PRE: ESL 91L or eligibility for ESL Level 2

ESL 92R Reading and Writing 2

6 cr, 6 lec

Reading and Writing 2 incorporates integrated language instruction with an emphasis on reading and writing skills as well as vocabulary development. Students will be exposed to a variety of thematic readings that lead to extended written discourse.

PRE: ESL 91R or a proficient entrance score on the ESL placement exam

ESL 92S Structure 2

6 cr, 6 lec

Structure 2 incorporates integrated English language instruction with an emphasis on low-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 91B or ESL 91S or a proficient entrance score on the ESL placement exam

ESL 93A Structure 3A

3 cr, 3 lec

Structure 3A incorporates integrated language instruction with an emphasis on intermediate level grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 92B or 92S or a proficient entrance score on the ESL placement exam

ESL 93B Structure 3B

3 cr, 3 lec

Structure 3B incorporates integrated language instruction with an emphasis on intermediate level grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 93A or a proficient entrance score on the ESL placement exam

ESL 93D Intermediate Conversation

3 cr, 3 lec

Intermediate communication skills with emphasis on oral communication and pronunciation in social situations.

NOTE: Reading and writing skills in the student's native language required

ESL 93F Reading and Writing 3A

3 cr, 3 lec

This course is designed to develop fluency in reading and writing for intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in paragraphs using appropriate grammatical structures.

PRE: ESL 92R or 92G or a proficient entrance score on the ESL placement exam

ESL 93G Reading and Writing 3B

3 cr, 3 lec

This course is designed to develop fluency in reading and writing for intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in paragraphs using appropriate grammatical structures.

PRE: ESL 93F or 92R or a proficient entrance score on the ESL placement exam

ESL 93R Reading and Writing 3

6 cr, 6 lec

This course is designed to develop fluency in reading and writing for intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in paragraphs using appropriate grammatical structures.

PRE: ESL 92R or 92G or a proficient entrance score on the ESL placement exam

ESL 93S Structure 3

6 cr, 6 lec

Structure 3 incorporates integrated language instruction with an emphasis on intermediate level grammatical

concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: ESL 92B or ESL 92S or a proficient entrance score on the ESL placement exam

ESL 94A Structure 4A

3 cr, 3 lec

Structure 4 incorporates integrated language instruction with an emphasis on high-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 93B or 93S or a proficient entrance score on the ESL placement exam

ESL 94B Structure 4B

3 cr, 3 lec

Structure 4 incorporates integrated language instruction with an emphasis on high-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: ESL 94A or a proficient entrance score on the ESL placement exam

ESL 94F Reading and Writing 4A

3 cr, 3 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: ESL 93R or 93G or a proficient entrance score on the ESL placement exam

ESL 94G Reading and Writing 4B

3 cr, 3 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: ESL 93R or 94F or a proficient entrance score on the ESL placement exam

ESL 94L Workshop 4: Cultural Communication

3 cr, 3 lec

This course incorporates integrated language instruction with an emphasis on aural/oral and reading skills. Students will be exposed to a variety of themes. They will then be given the opportunity to use these themes manipulatively, meaningfully, and communicatively to improve listening, speaking and reading abilities.

PRE: Eligibility for ESL Level 3 or higher

ESL 94R Reading and Writing 4

6 cr, 6 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: ESL 93R or 93G or a proficient entrance score on the ESL placement exam

ESL 94S Structure 4

6 cr, 6 lec

Structure 4 incorporates integrated language instruction with an emphasis on high-intermediate grammatical

concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: ESL 93B or ESL 93S or a proficient entrance score on the ESL placement exam

ESL 95C Conversation 3, 4, and 5

3 cr, 3 lec

Conversation 3, 4, and 5 incorporates integrated language instruction with an emphasis on aural/oral skills at the intermediate to high intermediate levels. Students will learn and apply a variety of techniques designed to improve aural comprehension as well as develop conversational fluency based on discussions.

PRE: Eligibility for ESL Levels 3, 4, or 5

ESL 95D Advanced Conversation

3 cr, 3 lec

Advanced communication skills with emphasis on oral communication and pronunciation in social situations.

NOTE: Reading and writing skills in the student's native language required.

ESL 95E Everyday American Idioms and Phrasal Verbs

3 cr, 3 lec

Integrated language instruction with an emphasis on idioms, expressions specific to American English, and cultural information and statistics on life in the United States.

PRE: Eligibility for ESL level 3 or higher

ESL 95P Pronunciation

3 cr, 3 lec

This course provides students with an opportunity to improve their comprehension and production of the sound system in North American English. Students will be exposed to a variety of concepts and techniques designed to increase competence in these areas. Special emphasis will be placed

on the areas of difficulty for speakers of languages represented in the class.

PRE: ESL Level 2

EXW 100 Health and Wellness

3 cr, 3 lec

An overview of current health topics relevant to students that stimulate awareness of personal health decisions and their relationship to optimal self-care patterns and lifestyles.

EXW 101 Introduction to Exercise Science, Kinesiology, and Physical Education

3 cr, 3 lec

A general overview of the disciplines and professions associated with the field of kinesiology, including history, philosophy and theory of each discipline.

PRE: ENG 101 eligibility

EXW 112 Professional Applications of Fitness Principles

3 cr, 3 lec

Basic principles of fitness for the prospective fitness professional and characteristics of quality communication and fitness leadership. Topics include behavior modification, enhancing motivation components of fitness, fitness assessment, risk stratification, exercise programming and modifications.

PRE: EXW 101

EXW 214 Instructional Competency: Flexibility and Mind-Body Exercises

3 cr, 2 lec, 1 lab

Fundamental methods of instructing and leading fitness activities including flexibility activities. Core competencies identified by professional certification agencies.

PRE: EXW 225

EXW 216 Instructional Competency: Muscular Strength and Conditioning

3 cr, 2 lec, 1 lab

Fundamental methods of instructing and leading fitness activities including strength and conditioning activities. Core competencies identified by professional certification agencies.

PRE: EXW 101

EXW 218 Instructional Competency: Cardiorespiratory Exercises and Activities

3 cr, 2 lec, 1 lab

Fundamental methods of instructing and leading fitness activities including cardiorespiratory exercises and activities. Core competencies identified by professional certification agencies.

PRE: EXW 101

EXW 225 Exercise Physiology

3 cr, 3 lec

Principles of exercise science applied to physical fitness. Major factors related to the function of the human body with emphasis placed on anatomy/physiology, exercise physiology, and biomechanics.

PRE: BIO 201 and EXW 101

EXW 245 Guidelines for Exercise Testing and Prescription

3 cr, 3 lec, 1 lab

Follows the current American College of Sports Medicine (ACSM) guidelines for health appraisal, risk assessment, safety of exercise, exercise testing, and exercise prescription.

PRE: EXW 214 and EXW 216 and EXW 218 and EXW 225

EXW 265 Exercise for Special Populations

3 cr, 3 lec

Total fitness involves a safe, well-designed program, for populations with specific needs. This course dis-

cusses and identifies the positive effects that regular exercise and physical activity have not only on longevity but also on specific diseases, decreasing morbidity, and increasing quality of life.

EXW 275 Fitness Professional Practicum

3 cr, 1 lec, 4 lab

60 hours of work in an approved fitness/health-related setting and attend on campus seminars to discuss issues relating to the profession. This is the capstone course for the certification program.

PRE: NTR 201 and PEM 202 and EXW225, and EXW 214 and EXW 216 and EXW 218 and EXW100

EXW 280 Certification Preparation

3 cr, 3 lec

Preparing students to take national exam from ACE, NASM,ACSM, NSCA and other fitness certifications.

PRE: NTR 201 and PEM 202 and EXW225 and EXW 214 and EXW 216 and EXW 218 and EXW100

FAS 70 Topics in Family Studies

.5–4 cr, 0-1 lec, 1-8 lab

Workshops for individual exploration concerning family studies. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC**

FAS 93 Clothing Workshops

.5–3 cr, 1–6 lab

For the enrichment needs of the community. The workshops are modular in length. They provide personal enrichment and hands-on experience in the area of clothing selection and construction. Job entry skills in the areas of pattern alteration, clothing construction, and tailoring are developed. Students are responsible for their own supplies. **CR/NC, R**

FAS 135 Clothing Selection*3 cr, 3 lec*

Design elements and principles as applied to selection of clothing and accessories; planning, buying, cost, and care of wardrobe; personal figure and wardrobe analysis for self-improvement; and psychological factors in clothing selection.

FAS 150 Personal and Family Finance*(same as FIN 150)**3 cr, 3 lec*

Principles and practices of personal and family financial planning. Includes savings, budgeting, credit, buying versus renting, and general principles of consumerism.

FAS 155 Dynamics of Family Violence*3 cr, 3 lec*

Focuses on the broad area of family violence, to include child, spouse, elderly, and sibling abuse. Family violence is discussed from perspectives of socially learned behavior and historical influence. Potential abusers and their victims are profiled in a way that facilitates identification of at-risk individuals. Preventative techniques of family violence are identified and discussed.

FAS 160 Close Relationships*(same as SOC 160)**3 cr, 3 lec C*

This course is designed to assist you in understanding close relationships in the context of the family and other groups. The knowledge gained should bring you insight into how close relationships operate and be helpful in understanding your own relationships.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

FAS 185 Family Communication Skills*3 cr, 3 lec*

This is a preventive program to help any person learn and improve the skills needed for the important job of guiding and influencing children as well as effectively relating and communicating with all other family members. The course teaches methods and skills needed for clear communication. This course may be job supplemental in the area of day care, elementary, and secondary education.

PRE: *ENG 100 eligibility*

FAS 204 Gender Relations*3 cr, 3 lec C, WI*

This course analyzes and illustrates how the social construct of gender not only is a significant force in determining social and familial expectations of men and women, but also how gender is a key factor in determining one's own self-concept and identity. Different theoretical perspectives on gender development will be explored, along with an examination of how race, social-class, economics, education, politics, and sexual orientation influences gender.

PRE: *ENG 101*

FAS 206 Family and Worker Development*3 cr, 3 lec*

Basic self-empowerment and communication skills to support a healthy self-reliance within the family system.

PRE: *ENG 100 eligibility*

FAS 207 Cultural Competency and Family Assessment*3 cr, 3 lec*

Understanding various cultures and diversity, basic principles of strength-based assessment and building mutually respectful relationships with families.

PRE: *FAS 206*

FAS 208 Community Services*5 cr, 4 lec, 2 lab*

Basic skills of the home visiting process and effective collaboration with families and other agencies while developing informal helping networks.

PRE: *FAS 207*

FAS 220 The Family*3 cr, 3 lec C*

Family relationship process and functions are examined from the beginning of a couple's union and throughout their lives as a unit. Emphasis on developmental stages, relationships, conflicts, crises, and family structure.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

FAS 238 Human Development*(same as PSY 238)**4 cr, 4 lec C, WI*

General insight into the human growth and development process from conception to death. Leading life span developmental theories and concepts are explored. Provides information for family and consumer sciences, nursing, psychology, sociology, and physical education majors. Students planning to transfer this course should also take PSY 101, which many universities require as a prerequisite.

PRE: *ENG 101*

FIN 100 Introduction to Finance*3 cr, 3 lec*

Introduction to finance examines the financial tools and techniques needed to make financial decisions, assess corporate investments, analyze projects, evaluate working capital, establish capital budgets, and examine the cost of capital risk.

COREQ: *BUA 110 or MAT 105*

FIN 120 Principles of Real Estate

3 cr, 3 lec

This course covers the basic fundamentals and principles of real estate including the background and terminology necessary for the student to make better informed decisions about investing in income-producing real estate and also assist students in preparing for the real estate license exam.

FIN 130 Principles of Insurance

3 cr, 3 lec

This course covers the basic principles of insurance, risk management, governmental regulation, and various types of insurance contracts.

FIN 140 Financial Markets and Institutions

3 cr, 3 lec

Financial markets and institutions provide a practical introduction to prepare students for today's changing landscape of financial markets and institutions. Students will develop critical-thinking and problem-solving skills necessary to respond to challenging situations in their future careers within the financial industry.

PRE: FIN 100

FIN 150 Personal and Family Finance

(same as FAS 150)

3 cr, 3 lec

Principles and practices of personal and family financial planning. Includes savings, budgeting, credit, buying versus renting, and general principles of consumerism.

FIN 220 Fundamentals of Investing

3 cr, 3 lec

Fundamentals of investing will revolve around developing, implementing, and monitoring a diverse

investment program, which includes the introduction to topics and techniques used by both personal investors and money managers.

PRE: FIN 100

FIN 230 Commercial and Consumer Credit

3 cr, 3 lec

Information and tools necessary to understand the requirements lenders and investors use to determine eligibility for granting commercial and consumer loans.

PRE: BUA 110

FRE 101 FRE 1101 Elementary French 1

4 cr, 6 lec C

Basic communication skills with emphasis on oral skills and elementary grammar. Students are exposed to the culture and traditions of French speaking countries. Fulfills the first semester foreign language requirement at most four-year institutions.

FRE 102 FRE 1102 Elementary French 2

4 cr, 6 lec C

A continuation of FRE 101. Basic communication skills with emphasis on oral skills and elementary grammar. Fulfills the second semester foreign language requirement at most four-year institutions.

PRE: FRE 101 or FRE 116 or 1 year of high school French or interview with instructor

FRE 115 Beginning Conversational French 1

3 cr, 3 lec

Basic communication skills with emphasis on oral communication and pronunciation. Grammar is taught only as it will facilitate conversation.

FRE 116 Beginning Conversational French 2

3 cr, 3 lec

A continuation of FRE 115. Basic communication skills with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: FRE 115

FRE 201 FRE 2201 Intermediate French 1

4 cr, 6 lec C

A continuation of French 102 with emphasis on oral communication. Listening and reading comprehension, with writing exercises, are integrated to develop and reinforce intermediate speaking skills. Modern-day topics for discussion provide a conversational approach to learning French. Fulfills the third semester foreign language requirement at most four-year institutions.

PRE: FRE 102 or interview with instructor and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

FRE 202 FRE 2202 Intermediate French 2

4 cr, 6 lec C

A continuation of French 201 with emphasis on oral communication. It provides a practice of French in a communicative context through reading selections. Writing exercises provide a review of grammar. Fulfills the fourth semester foreign language requirement at most four-year institutions.

PRE: FRE 201 or interview with instructor and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

FSC 105 Portfolio Development*(Same as AJS, EMS 105)**4 cr, 1 lec, 6 lab*

Designed to help personnel of Law Enforcement, Fire Science and Emergency Medical Services develop a portfolio that details those prior-learning experiences that may be considered for college credit at Arizona Western College. **CR/NC**

FSC 106 Fire Safety and Survival*3 cr, 3 lec*

Course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

FSC 108 Occupational Safety and Health for Emergency Services*3 cr, 3 lec*

Course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

FSC 109 Hazardous Materials Chemistry*3 cr, 3 lec*

Course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services.

FSC 110 Hazardous Materials I Awareness*1 cr, 1 lec*

Course will provide the emergency responder with the ability to identify emergency scenes that may potentially involve hazardous materials, actions that are required to identify the presence of hazardous materials, and the steps necessary to take appropriate initial action. This course meets

the objectives for First Responder Awareness Level as specified by the National Fire Protection Association 472 Chapter 4.

FSC 111 Hazardous Materials II Operations*2 cr, 2 lec*

First responders at the operational level are those persons who respond to releases or potential releases of hazardous materials as part of the initial response to the incident for the purpose of protecting nearby persons, the environment, or property from the effects of the release. First responders at the operational level are expected to respond in a defensive fashion to control the release from a safe distance and keep it from spreading.

PRE: FSC 110 or certified at the Hazardous Materials Level I Awareness Level

FSC 120 Fire Service Equipment, Apparatus and Hydraulics*3 cr, 3 lec*

Course covers the principles of care, maintenance, and operation of fire apparatus, equipment and pumps including maneuvering engines and ladder trucks, pump construction, pumping and pump accessories, power development and transmission, and apparatus testing. An overview of the properties of water, apparatus and appliances, fire streams, and hydraulic calculations (theoretical and practical) will be addressed to establish a functional understanding of fire ground hydraulics.

FSC 130 Basic Wildland Firefighter*3 cr, 2 lec, 2 lab*

Basic understanding of wildland fire and the strategies and tactics involved during suppression operations. Students receive training to qualify as Basic Wildland Firefighters (FFT2) as defined by the National Wildfire Coordinating Group.

FSC 148 Fire Academy 1*12 cr, 10 lec, 5 lab*

Knowledge and practical skills necessary for certification as an entry-level Firefighter I. Successful completion qualifies the student to sit for the Firefighter I and II certification examination conducted by the Office of the Arizona State Fire Marshall.

PRE: **1)** High School Diploma or GED **2)** Meet the minimum written test requirements **3)** Minimum age requirement of 18 years **3)** Meet the medical requirements of NFPA 1582 **4)** Complete a liability waiver **5)** Meet the minimum physical fitness requirements **6)** Permission of the Academy Coordinator or Public Safety Institute Director

FSC 149 Fire Academy 2*12 cr, 10 lec, 5 lab*

Knowledge and practical skills necessary for certification as an entry-level firefighter II. Successful completion qualifies the student to sit for the Firefighter I and II certification examination conducted by the Office of the Arizona State Fire Marshall.

PRE: FSC 148

FSC 151 Principles of Emergency Services*3 cr, 3 lec*

Course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

FSC 152 Fundamentals of Fire Prevention

3 cr, 3 lec

Course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

FSC 153 Fire Behavior and Combustion

3 cr, 3 lec

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FSC 154 Fire Instructor 1

3 cr, 3 lec

Concepts and techniques of fire service instruction; designed to meet the requirements of NFPA 1041 2002 edition Level I for certification as a fire service instructor in the state of Arizona.

NOTE: Pre-enrollment through STARS (www.azgu.gov) is required prior to taking the class.

FSC 155 Fire Investigation 1

3 cr, 3 lec

Course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.

PRE: FSC 153

FSC 173 Fire and Emergency Services Administration

3 cr, 3 lec

Course introduces the student to the organization and management of a fire and emergency services

department and the relationship of government agencies to the fire service. Emphasis is placed on fire and emergency service, ethics, and leadership from the perspective of the company officer.

PRE: FSC 151

FSC 201 Fire Protection Systems

3 cr, 3 lec

Course provides information relating to the features of design and operation of fire alarm systems; water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers.

PRE: FSC 152 and MAT 105 or approved higher level math

FSC 202 Fire Protection Hydraulics and Water Supply

3 cr, 3 lec

Course provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems.

PRE: MAT 105 or approved higher level math

FSC 203 Building Construction for Fire Protection

3 cr, 3 lec

Course provides the components of building construction related to fire-fighter and life safety. The element of construction and design of structures are shown to be key factors when inspecting buildings, preplanning fire operations, and operating at emergencies.

FSC 204 Fire Fighting Tactics and Strategies

3 cr, 3 lec

Course provides the principles of fire ground control through utilization of personnel, equipment and extinguishing agents.

FSC 207 Legal Aspects of Emergency Services

3 cr, 3 lec

Course will address the federal, state, and local laws that regulate emergency services and include a review of national standards, regulations, and consensus standards.

FSC 216 Fire Officer 1

3 cr, 2 lec, 2 lab

This course provides personnel with the knowledge and skills in the organizational structure of the department; departmental operating procedures for administration, emergency operations, and safety; departmental budget process; information management and record keeping; the fire prevention and building safety codes and ordinances applicable to the jurisdiction; incident management system; socioeconomic and political factors that impact the fire service; cultural diversity; methods used by supervisors to obtain cooperation within a group of subordinates; the rights of management and members; agreements in force between the organization and members; policies and procedures regarding the operation of the department as they involve supervisors and members. This course meets selected objectives of NFPA 1021 Standard for Fire Officer Professional Qualifications as published by the National Fire Protection Association.

PRE: certification as Fire Fighter 2 and certification as Fire Instructor 1 or permission of the instructor

FSC 220 Fire Inspector 1

3 cr, 3 lec

Course will provide personnel with the knowledge and skills required of an entry level fire instructor. This course meets selected objectives of NFPA 1031 Standard for Fire Inspector Professional Qualifications as published by the National Fire Protection Association.

PRE: FSC 152

FSC 226 Fire Investigation 2*3 cr, 3 lec*

Course is intended to provide the student with advanced technical knowledge on the rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and court-room testimony.

PRE: FSC 155**FSC 250 Fire Ground Management***3 cr, 3 lec*

Course will introduce fire service personnel to tactical principals that will enhance their ability to successfully terminate typical incidents related to the fire ground. This class will expose students to complex personnel deployment and physical resource development.

PRE: FSC 204**GEO 105 World Regional Geography***3 cr, 3 lec G*

A study and analysis of the geographical regions known as The Americas, Eurasia, Africa, and the Middle East with emphasis on location, resources, and development; economic, political, and social institutions; similarities and differences; and problems and potentialities.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**GER 101 SUN@ GER 1101 Elementary German 1***4 cr, 6 lec C*

Grammar and other technical aspects of the language will be emphasized and basic conversational skills will be developed. Reading and writing skills will also be emphasized. The course is taught in a cultural and natural context with intensive use of visual aids and faculty designed instruction-

al material. Fulfills the first semester foreign language requirement at most four-year institutions.

GER 102 SUN@ GER 1102 Elementary German 2*4 cr, 6 lec C*

A continuation of GER 101. Basic communication skills are taught with emphasis on oral communication and elementary grammar. Fulfills the second semester foreign language requirements at most four-year institutions.

PRE: GER 101 or 1 year of high school German**GER 115 Beginning Conversational German 1***3 cr, 3 lec*

Basic communication skills are taught with emphasis on oral communication and pronunciation. Grammar is taught only as it will facilitate conversation. Total Physical Response and Natural Approach methods are stressed with an intensive use of visual aids. Language tape practice may be available.

GER 116 Beginning Conversational German 2*3 cr, 3 lec*

A continuation of GER 115. Basic communication skills are taught with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: GER 115 or interview with instructor**GER 201 SUN@ GER 2201 Intermediate German 1***4 cr, 6 lec C*

A continuation of GER 102, with an emphasis on oral communication and reading for comprehension. Writing and oral grammar exercises are integrated to develop and reinforce intermediate speaking skills. The traditions and cultures of German-speaking countries and modern day topics

provide a conversational approach to learning German. Fulfills the third semester foreign language requirements at most four-year institutions.

PRE: GER 102 or 2 years of high school German and ENG 101 eligibility or completion of RDG 121 or appropriate reading score**GER 202 SUN@ GER 2202 Intermediate German 2***4 cr, 6 lec C*

A continuation of GER 201 with an intensive review of grammar fundamentals and continued practice in speaking, reading, and writing. Fulfills the fourth semester foreign language requirements at most four-year institutions.

PRE: GER 201 or 3 years of high school German and ENG 101 eligibility or completion of RDG 121 or appropriate reading score**GLG 101 SUN@ GLG 1101 Introduction to Geology 1 (Physical)***4 cr, 3 lec, 2 lab, 1 rec G*

Fundamental physical principles of the earth: the structure of its interior and crust, its rocks and minerals, and the processes affecting these features such as volcanoes, earthquakes, mountain formation, and erosion.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**GLG 102 Introduction to Geology 2 (Historical)***4 cr, 3 lec, 2 lab, 1 rec G*

The chronological account of the physical changes of the earth and the evolution of life upon it. Includes an introduction to basic stratigraphic and paleontological principles, the origin of the earth and its geological development through time.

PRE: GLG 101 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

GLG 110 Environmental Geology

4 cr, 3 lec, 2 lab, 1 rec G

Introduction to geologic studies and their application to current environmental problems like waste disposal, land use, and shrinking resources, their causes and possible solutions. Focuses on surface geologic processes and geohazards, natural resources, and global systems. Several local field trips will be included.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

GLG 199 Geology Field Trips

1–6 cr

One to fifteen-day trips scheduled at different times during the year. **R**

PRE/COREQ: *Current or previous enrollment in a geology course and instructor permission required*

GLG 225 Introduction to Paleontology

4 cr, 3 lec, 2 lab

Basic paleontological principles; classification of fossils, their occurrence, geologic distribution, and evolution.

PRE: *GLG 101 or 102 or BIO 181*

GLG 229 Field Studies for Educators

1–3 cr, 1 lec, 1–4 lab

The intent of this course is to familiarize educators with some of the local geology and allow participants to collect sufficient minerals and rocks for classroom use. The samples collected would be properly identified and labeled. The course credit will vary based upon the number of weekend trips. **R**

GLG 240 Introduction to Field Methods and Report Writing

2 cr, 1 lec, 2 lab

Introduction to geological field methods; including the use of topographic

maps, cross-sections, and aerial photos. Equipment such as the Brunton Geological Transit, Plane Table, and Alidade and Global Positioning Systems (GPS) will be used in the field on mapping projects. Collection and presentation of field data in a report format will be emphasized.

PRE: *GLG 101 and GLG 102*

GPH 110 Physical Geography

4 cr, 3 lec, 2 lab, 1 rec G

An introduction to geography emphasizing the interrelationships between humans and their physical surroundings: land, climate, soil, vegetation, and natural resources.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

GPH 171 Introduction to Meteorology

4 cr, 3 lec, 3 lab G

Online Weather Studies covers the composition and structure of the atmosphere, the flows of energy to, from, and through the atmosphere, and the resulting weather phenomena ranging in scale from local to regional to global. The physical principles of atmospheric phenomena are stressed in the understanding of weather's impact on humans, particularly with regard to severe weather. Methods of analysis are developed through the study of current weather as meteorological data are delivered via the Internet.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

GPH 187 Introduction to ArcGIS

(same as DFT 187)

1 cr, 1 lec

Introduction to ArcGIS, ESRI's full-featured GIS software for visualizing, creating, managing, and analyzing geographic data. This course provides the foundation for becoming a successful user.

GPH 213 Introduction to Climate Science

4 cr, 3 lec, 1 lab G

Introduction to climate science covers all aspects of the climate system. It introduces the different components of the climate system, feedback loops, short-term and long term forecasting, planetary energy budget, detail analysis of greenhouse gases, global atmospheric and oceanic circulation patterns, and natural and anthropogenic influences on the climate balance.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

GPH 239 Introduction to Geographic Information Systems

4 cr, 3 lec, 3 lab

Introduction to the basic concepts, theory, and multidisciplinary applications in GIS.

GRA 101 Graphic Communications 1

4 cr, 3 lec, 2 lab

This course will provide an overview of traditional commercial graphics technologies and theory which the students will need for commercial graphics employment. Subjects include basic design theory (gestalt, compositional techniques such as contrast, repetition alignment, proximity, etc.), simple drawing skills, illustration techniques, pigment and light color theory and physics, production processes and technologies, printing issues, typography, researching a graphic design project, preparing thumbnail sketches, preparing roughs and comps., encouraging productive client communications, and more.

GRA 102 Graphic Communications 2

4 cr, 3 lec, 2 lab

This course (the second semester continuation of GRA 101) will provide an overview of traditional com-

mercial graphics technologies and theory which the students will need for commercial graphics employment. Subjects include basic design theory (gestalt, compositional techniques such as contrast, repetition alignment, proximity, etc.), simple drawing skills, illustration techniques, pigment and light color theory and physics, production processes and technologies, printing issues, typography, researching a graphic design project, preparing thumbnail sketches, preparing roughs and comps., encouraging productive client communications, and more.

PRE: GRA 101

GRA 103 Computer Illustration

4 cr, 3 lec, 2 lab

This course focuses on basic comprehension of the computer graphics application interface and principles of vector graphic manipulation and creation. Design standards will be discussed in relation to professional work examples.

GRA 104 Digital Imaging 1

4 cr, 3 lec, 2 lab

This course guides students to a beginning level of image editing using digital imaging software. The course will focus on understanding issues of image manipulation and compositing, raster file format qualities and limitations, and the application interface components.

GRA 105 Digital Imaging 2

4 cr, 3 lec, 2 lab

This course guides students to an intermediate level of image editing using digital imaging software. The course will focus on understanding issues of more complex image manipulation and compositing using filters, calculations, actions, channels, layers, and advanced topics.

PRE: GRA 104

GRA 106 Page Composition

3 cr, 2 lec, 2 lab

This course focuses on the elements of page composition and visual design incorporating both graphics and text in a computer desktop publishing environment. Design standards will be discussed in relation to professional work examples.

PRE: GRA 103 or GRA 104

GRA 120 Web Page Graphics Design

4 cr, 3 lec, 2 lab

Introduction to software and hardware tools used in web page construction. Emphasis is placed on visual design techniques, ease of use, the planning process, and interactivity.

GRA 201 Interactivity and Graphics

3 cr, 2 lec, 2 lab

This course focuses on utilizing multimedia authoring software to create onscreen interactive graphic content presentations for diverse delivery systems such as interactive kiosks, games, internet sites, or educational CD-ROMs.

PRE: GRA 104

GRA 202 Advanced Interactivity and Graphics

3 cr, 2 lec, 2 lab

Utilizing multimedia authoring and web page design software to create onscreen interactive graphic content presentations especially for the web.

PRE: GRA 201

GRA 203 3D Modeling and Surfacing

4 cr, 3 lec, 2 lab

This course focuses on basic concepts of three dimensional graphics grounded in Cartesian geometry. Special emphasis will be on modeling, texturing, lighting, and still rendering.

PRE: GRA 104

GRA 204 Advanced 3D Graphics

4 cr, 3 lec, 2 lab

This course focuses on intermediate concepts of three dimensional graphics. Special emphasis will be on animation of the 3D objects and environment.

PRE: GRA 203

GRA 205 Principles of Animation

3 cr, 3 lec

This course focuses on the historically developed principles of animation used in both traditional, hand drawn techniques and film, as well as in modern computer generated presentations.

GRA 206 Portfolio and Career Management

3 cr, 2 lec, 2 lab

This course focuses on preparing the student for one of two outcomes: continuation in a four year graphics program or securing entry level employment. Special emphasis will be placed on preparing a professional level portfolio and researching the job market.

PRE: GRA 203

HIS 70 Topics in History

.5-4 cr, 0-1 lec, 1-8 lab

Workshops for individual exploration in history. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC**

HIS 110 World History to 1500

3 cr, 3 lec H, WI

Topics related to political, economic, social and cultural history of the world from its earliest beginnings to 1500.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 111 World History Since 1500

3 cr, 3 lec **H, WI**

Topics related to political, economic, social and cultural history of the world from 1500 to the present.

PRE: ENG 101

HIS 121 History of the United States to 1865

3 cr, 3 lec **H**

A survey of the political, economic, and cultural history of the United States from the discovery of the New World to the period of reconstruction following the Civil War.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 122 History of the United States from 1865

3 cr, 3 lec **H**

A continuation of the survey of United States history from the period of reconstruction to the present day.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 220 History of Arizona

3 cr, 3 lec **C**

Arizona's history from Indian cultures through the Spanish, Mexican, and American periods. Special attention is focused on the lower Colorado region and its historic importance to Arizona.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 230 Women in American History

3 cr, 3 lec **H, WI**

History of women in American society from colonial times to the present. Emphasis is on the roles, status, and achievements of American women and their relationships to American traditions.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 232 African American History to 1865

3 cr, 3 lec

The integral role and contributions of African Americans to the history and development of the United States; covers the period up to 1865, including the history of African kingdoms through the end of the Civil War.

HIS 233 African American History since 1865

3 cr, 3 lec

The integral role and contributions of African Americans to the history and developments of the United States; covers the period from 1865 to present time.

HIS 240 Western Civilization 1

3 cr, 3 lec **H**

Topics related to the ancient Middle East, Greeks and Romans, the medieval world, the Renaissance, and the Reformation.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 241 Western Civilization 2

3 cr, 3 lec **H**

Topics related to Europe in the ages of absolutism, reason, revolution, Napoleon, nationalism, and the world wars, and the social and cultural background of our own age.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HIS 280 History of Mexico

3 cr, 3 lec **C**

The history of Mexico, covering the pre-Columbian, colonial, independence, and revolutionary periods, with some emphasis placed on the

1910 revolution and post-revolutionary era.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

HLS 101 Introduction to Homeland Security

3 cr, 3 lec

Introduction to current public management policies and issues relevant to the security of the United States. The course relies upon theories, concepts and case studies to explore the challenges facing organizations which are part of protecting the security of our homeland.

PRE: ENG 80 or approved higher level English

HLS 103 Introduction to Fire and Emergency Services

3 cr, 3 lec

Introduction to services provided by fire and ambulance services as well as their responses to man-made or natural disasters. The course will examine the responses and responsibilities of private, municipal, county, state, and federal organizations and relies upon theories, concepts and case studies to explore the challenges facing these organizations which play a major part in protecting the security of our homeland.

PRE: ENG 80 or approved higher level English

HLS 105 Homeland Security Portfolio

4 cr, 1 lec, 6 lab

Designed to help personnel of the Department of Homeland Security to develop a portfolio that details those prior-learning experiences at any of the Federal Law Enforcement Training Academies that may be considered for college credit at Arizona Western College. **CR/NC**

HLS 107 Introduction to Cyberterrorism

3 cr, 3 lec

This course provides an in-depth analysis of the differences between cyberterrorism and cybercrime and the motivations that drive all types of cyber adversaries.

PRE: ENG 90 or approved higher level English and a basic understanding of computer systems and operations.

HLS 109 Federal law

3 cr, 3 lec

Federal Law covers immigration, customs, and criminal law as established by the Federal Government of the United States. The classification of crimes, elements of and parties to a crime, and criminal responsibility issues are covered.

PRE: Successful completion of a Federal Law Enforcement Training Academy. Current or past employment as a Federal Law Enforcement Officer.

HLS 203 Bioterrorism and Weapons of Mass Destruction

3 cr, 3 lec

Biological weapons that are employed against man, animals and plants. Major biological agents targeted for use as weapons against humans will be studied including: the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries/groups have access to sufficient bio-agents or the capacity for producing large quantities of bio-agents for use as a weapon.

PRE: ENG 90 or approved higher level English and HLS 101 and AJS 191

HLS 205 Report Writing

3 cr, 3 lec

Introduction to the practical aspects of gathering, organizing, and preparing written reports. This covers the techniques of communicating facts, information, and ideas effectively in a simple, clear and logical manner for various types of criminal justice system reports, letters, memoranda, directives, and administrative reports. Students will gain practical experience in note taking, report writing and presenting testimony in court or other types of hearings.

PRE: Successful completion of a Federal Law Enforcement Training Academy. Current or past employment as a Federal Law Enforcement Officer.

HLS 215 Critical Incident Management for Public Safety

3 cr, 3 lec

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/workplace violence. Upon completion, the student should be able to identify and discuss managerial techniques, legal issues, and response procedures to critical incidents.

PRE: ENG 90 or approved higher level English

HLS 230 Federal Law Enforcement

3 cr, 3 lec

An overview of the historical and philosophical development of the enforcement function at the federal level, including community controls, political pressures and legal limitation pertaining to law enforcement at the federal level.

PRE: Successful completion of a Federal Law Enforcement Training Academy. Current or past employ-

ment as a Federal Law Enforcement Officer.

HLS 260 Federal Procedure

3 cr, 3 lec

The course establishes criminal procedure and civil procedure for the federal courts. In addition, there is discussion of the Supreme Court and the Rules Enabling Act. The Supreme Court, pursuant to the Rules Enabling Act and upon recommendation from the Judicial Conference of the United States, promulgates the more detailed Federal Rules of Civil Procedure and the Federal Rules of Criminal Procedure general provisions and process.

PRE: Successful completion of a Federal Law Enforcement Training Academy. Current or past employment as a Federal Law Enforcement Officer.

HON 180 Honors Seminar

1–4 cr, 1–4 lec/seminar

Instructors invited from the community at large or College personnel present current topics of a preparatory nature based upon their professional backgrounds. The seminar meets regularly during the semester. **R**

HON 280 Honors Colloquium

3 cr, 3 lec/seminar

Special programs of an interdisciplinary, creative, and/or in-depth nature presented as part of the core offerings for the Honors Liberal Arts or General Studies Program. Non-Honors students may also enroll for the course with permission of the instructor. **R**

HON 285 Capstone Project

3 cr

The Capstone Project encourages Honors Liberal Arts students to use all of their knowledge and skills in completing a scholarly or creative project in their areas of special interest. It is usually taken in the final semester before graduation. The project may

be a paper presenting the results of intensive library or field research, or a portfolio of creative work, although the Honors Committee encourages students to propose unique or alternative formats. Proposals shall be submitted by the student for committee approval by mid-term week of the semester prior to commencing.

HRM 100 Introduction to the Hospitality Industry

3 cr, 3 lec

This is a survey course of the hospitality industry including hotels, resorts, restaurants, clubs and agencies involved in tourism.

HRM 210 Customer Service Management

3 cr, 3 lec

Examines the role and responsibilities of employees in building quality guest relationships that create customer satisfaction as well as exploring the functions of customer service employees in hospitality businesses.

HRM 220 Property Management

3 cr, 3 lec

Acquaints the student with the housekeeping and technical areas of building maintenance in the hospitality industry with emphasis on support systems and energy conservation. Principles of management including planning, staffing, organizing, delegating, and evaluating as they apply to the housekeeping and engineering departments of a property will be discussed.

IWT 145 Water Treatment Math, Chemistry, and Biology

3 cr, 3 lec

Basic mathematics, chemistry, and biology essential for water treatment operations.

PRE: *Students must be employed in the field of water treatment.*

IWT 146 Reverse Osmosis

3 cr, 3 lec

Introduction to general theory, process, and equipment for reverse osmosis water treatment system.

PRE: *Students must be employed in the field of water treatment.*

IWT 147 Reverse Osmosis Troubleshooting

3 cr, 3 lec

Introduction to initial troubleshooting skills required to effectively operate and maintain a reverse osmosis water treatment system.

PRE: *Students must be employed in the field of water treatment.*

IWT 160 High Purity Water from Ion Exchange

3 cr, 3 lec

The study of various parameters of high purity water related to ion exchange.

PRE: *Students must be employed in the field of water treatment.*

IWT 161 Ion Exchange Operation

3 cr, 3 lec

Operations and regeneration of single-bed and dual-bed. Includes the study of sodium, chloride, hydrogen, and hydroxide cycles.

PRE: *Students must be employed in the field of water treatment.*

IWT 162 Maintaining High Purity

3 cr, 3 lec

The principles of operating post ion exchange equipment, ultraviolet irradiation units, final filters, minimization of dead legs, and periodic disinfecting of high purity water.

PRE: *Students must be employed in the field of water treatment.*

IWT 255 Pretreatment Troubleshooting

3 cr, 3 lec

Operating, monitoring, and troubleshooting of reverse osmosis pretreatment equipment. Includes multimedia filters, activated carbon beds, and the prevention of scaling, fouling, and chemical attack.

PRE: *Students must be employed in the field of water treatment.*

IWT 256 Scaling and Fouling Troubleshooting

3 cr, 3 lec

Interpretation of a water analysis report; calculation of the scaling potential for reverse osmosis units, and use of scaling compounds, scale inhibitors, and acid dosages.

PRE: *Students must be employed in the field of water treatment.*

IWT 257 Advanced Reverse Osmosis Monitoring and Cleaning

3 cr, 3 lec

The advanced troubleshooting procedures and techniques required for identifying and correcting reverse osmosis problems, including probing, profiling, element replacements, element autopsies, and chemical cleaning.

PRE: *Students must be employed in the field of water treatment.*

IWT 270 Feedwater and Pretreatment

3 cr, 3 lec

Quantification of contaminants through the use of laboratory analysis, analytical equipment, and raw water equipment for a high purity water treatment system.

PRE: *Students must be employed in the field of water treatment.*

IWT 271 Ion Exchange Troubleshooting

3 cr, 3 lec

Math, chemistry, laboratory analysis, and procedures for troubleshooting high purity ion exchange equipment.

PRE: Students must be employed in the field of water treatment.

IWT 272 Post Ion Exchange

3 cr, 3 lec

The principles, operation, routine maintenance, and troubleshooting of post ion exchange processes. Includes study of ultraviolet irradiation units, final filters, waste neutralization, water solvents, heavy metal removal, and the safe handling of industrial gases and bulk chemicals.

PRE: Students must be employed in the field of water treatment.

JRN 100 Introduction to Mass Communications

3 cr, 3 lec H

A survey of the mass communications media, including newspapers, magazines, radio, television, and the Internet. Study of theory and function of news, features, editorials, and advertising; historical development of the media; legal freedoms and limitations of the media; and the ethics of communication. Stress is placed on the relationships and responsibilities of the mass media to society.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

JRN 125 JRN 2201 News Writing

3 cr, 3 lec

The gathering and writing of news stories. Emphasis is on clear and concise written expression. Study of news sources, acceptable forms of stories, and style and methods of various media are included. Practical laboratory experience is provided on the student newspaper.

JRN 135 Introduction to Photojournalism

3 cr, 2 lec, 2 lab

Introduction to procedures, objectives, and skills of the modern photojournalist. Photojournalism is the skill of visually communicating using the still image to convey the human condition—primarily concentrating on news, sports, features, portraits, documentaries, and photo illustration.

JRN 150 Applied Journalism

1–3 cr, 2–6 lab

Practical experience in the publication of campus news, in print and online. Opportunity to gather facts, write and edit news stories, sell and design ads, take and edit photographs, write headlines, and design and produce layouts. **R**

JRN 175 News Editing

3 cr, 3 lec

Introduction to the principles of editing articles for the contemporary media. Includes application of skills in journalistic style, story organization, headline writing, and cultural literacy.

PRE: JRN 125

JRN 235 Advanced Photojournalism

3 cr, 2 lec, 2 lab

Builds on the skills acquired in Introduction to Photojournalism. Learners will assemble a portfolio.

PRE: JRN 135

LAS 100 Introduction to Paralegalism

3 cr, 3 lec

Role, responsibilities, and ethical standards of a paralegal.

PRE: ENG 100 or appropriate placement test scores

LAS 101 Introduction to Law

3 cr, 3 lec

Fundamentals of legal terminology, legal principles, development of a case for trial, adjudication, and post-verdict procedures in the civil and criminal systems.

PRE: ENG 100 or appropriate placement test scores

LAS 109 Legal Procedures

4 cr, 4 lec

Application of the procedural aspects of pre-trial, discovery, trial preparation, and post-trial work as part of a litigation team.

PRE: LAS 101

LAS 115 Criminal Trial Procedure

3 cr, 3 lec

Procedural aspects of the criminal trial process in Arizona state courts from preliminary proceedings through trial.

PRE: LAS 101

LAS 131 Legal Writing

3 cr, 3 lec

Application and analysis of the writing process to produce documents commonly used in the practice of law.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

LAS 204 Business Law for Paralegals

3 cr, 3 lec

Examination and preparation of legal contracts and documents used in the formation and operation of business organizations.

PRE: Appropriate reading score

LAS 208 Probate

3 cr, 3 lec

Analysis of requirements and documents used in estate planning and administration.

PRE: Appropriate reading score

LAS 211 Legal Research

3 cr, 3 lec

Use of print and electronic media to locate, read, and interpret public documents, statutes, administrative regulations, and cases from county, state, and federal jurisdictions.

PRE: *Appropriate reading score*

LAS 212 Insurance and Tort Law

3 cr, 3 lec

Basic elements of negligence, strict liability, intentional torts, defenses, damages, and insurance coverage. Evaluation of records and personal injury claims, review of insurance policies, settlement brochure, and preparation of case intake memorandum.

PRE: *Appropriate reading score*

LAS 216 Real Estate

Transactions

3 cr, 3 lec

Various aspects of real estate sales, purchases, and encumbrances.

PRE: *Appropriate reading score*

LAS 217 Family Law

3 cr, 3 lec

Legal analysis of marriage, dissolution of marriage, parental rights and duties, pleading and practice.

PRE: *Appropriate reading score*

LAS 218 Administrative Law

3 cr, 3 lec

Introduction to the fundamental concepts of administrative law.

PRE: *Appropriate reading score*

LAS 219 Bankruptcy

3 cr, 3 lec

Bankruptcy laws, procedures, and the role of paralegals in bankruptcy practice.

PRE: *Appropriate reading score*

LAS 220 Legal Interviewing, Investigating, and Report Writing

3 cr, 3 lec

Interviewing, investigating, questioning, documenting, and evidence analysis.

PRE: *LAS 100 and LAS 131*

LAS 221 Computerized Law Office and Litigation Support

3 cr, 2 lec, 2 lab

Word processing skills, litigation support systems, presentation programs, billing systems, and trial electronic software for the law office.

PRE: *Appropriate reading score*

LAS 222 Paralegal Internship 1

1 cr, 2 lab

Internship requiring 27 hours of work in a paralegal capacity.

PRE: *LAS 100 and LAS 101 and LAS 109 and LAS 131 and LAS 204 and LAS 211 and LAS 212*

LAS 223 Paralegal Internship 2

2 cr, 4 lab

Internship requiring 53 hours of work in a paralegal capacity.

PRE: *LAS 100 and LAS 101 and LAS 109 and LAS 131 and LAS 204 and LAS 211 and LAS 212*

LAS 224 Paralegal Internship 3

3 cr, 6 lab

Internship requiring 80 hours of work in a paralegal capacity.

PRE: *LAS 100 and LAS 101 and LAS 109 and LAS 131 and LAS 204 and LAS 211 and LAS 212*

LET 101 Criminal Justice Systems

3 cr, 3 lec

An overview of the components of the criminal justice system, their functions, responsibilities and interrelationships. There are three (3) "sovereigns" in the

United States which will be examined: the federal government, state government and tribal governments, each with its own criminal justice system.

PRE: *student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency*

LET 107 Patrol Procedures

3 cr, 3 lec

Examination of the tactics used by uniformed officers in responding to calls for service.

PRE: *student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency*

LET 109 Arizona Substantive Criminal Law

3 cr, 3 lec

Analysis of the most frequently used sections of A.R.S. Title 13 with emphasis on the statutory language and necessary elements of criminal acts.

PRE: *student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency*

LET 111 Law and Legal Matters 1

3 cr, 3 lec

Analysis of constitutional requirements, statutes and case law on individual rights as well as search and seizure. Emphasis on probable cause and conditions under which an officer may make a legal search and seizure, including searches of persons, premises and vehicles.

PRE: *student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency*

LET 112 Law and Legal Matters 2

3 cr, 3 lec

Examination the legal aspects of arrest and the civil and criminal liability of a law enforcement officer in relation to the performance of duty.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 115 Juvenile Law and Procedures

3 cr, 3 lec

A review of the agencies and laws relating to incidents involving juvenile offenders.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 120 Introduction to Law Enforcement

3 cr, 3 lec

History of the development of law enforcement agencies from their inception to present day including the impact of reforms implemented by Sir Robert Peel and the development of policing in the United States.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 123 Ethics and Professionalism

1 cr, 1 lec

Emphasis on the high moral, ethical and performance standards required of law enforcement personnel. The functions and responsibilities of the Arizona Peace Officer Standards and Training (AZ POST) Board are outlined.

PRE: Student must be appointed to the Law Enforcement Training

Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 130 Defensive Tactics

2 cr, 2 lec

Discussion and demonstration of various techniques for maintaining physical control of disruptive, combative or potentially dangerous subjects including restraint holds, "come-alongs," take downs, cuff and search and proper police baton techniques. Officer safety and potential for injury or death are emphasized throughout.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 131 Firearms

2 cr, 2 lec

Introduction to the mechanical and safety features of a service caliber handgun with emphasis on firearms safety.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 132 First Aid/First Responder

1 cr, 1 lec

An examination of the methods for providing emergency medical care to the victims of accidents or illness and related safeguards.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 134 Vehicle Operations

3 cr, 3 lec

Vehicle pursuits and high-speed response procedures involving students required to drive a vehicle under simulated conditions.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 157 Wellness for Law Enforcement

1 cr, 1 lec

Development and demonstration of the student's mental and physical conditions by a structured exercise and classroom education.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 205 Report Writing

3 cr, 3 lec

Law enforcement report writing with emphasis on form, style and procedures.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 208 Traffic Control

3 cr, 3 lec

Examination of traffic law and its enforcement, including the procedures for apprehending and prosecuting intoxicated driver.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 270 Police and the Community

3 cr, 3 lec

Survey of community policing through the use of cultural education, crime prevention, problem-solving, and philosophy of officer and agency.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LET 275 Criminal Investigation

3 cr, 3 lec

Examination of the various methods and techniques for investigating crimes.

PRE: Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

LGS 101 Introduction to Logistics

3 cr, 3 lec

Introduction to the field of logistics to include development of logistics systems, careers in logistics, distribution planning, supply chain security, and customer service. Also includes roles and functions of: purchasing, inventory control, physical distribution, warehousing, transportation methods, packaging, and customs.

LGS 102 Inventory Control

3 cr, 3 lec

Introduction to inventory control concepts and techniques. Includes cost concepts, forecasting, inventory planning and control, ordering methods, pilferage, and customer satisfaction.

LGS 103 Freight Claims and Contracts

3 cr, 3 lec

Loss avoidance procedures, claim preparation, filing procedures, dispute resolution and other considerations involved in the drafting and negotiations of freight and logistics contracts. Legal and regulatory requirements applicable to contracts for product transportation are included.

LGS 104 Computerized Logistics

3 cr, 2 lec, 2 lab

Analysis of computers in the logistics industry. Includes historical and advanced uses of computers in the logistics industry, customer service, logistics software availability, selection, usage, implementation, and security.

LGS 105 Warehouse Management

3 cr, 3 lec

Warehouse functions, processes, organization and operations. Includes analysis of warehouse location, operation, management, controls, procedures, finance, security, cargo/materials handling, and productivity.

LGS 106 Transportation and Traffic Management

3 cr, 3 lec

Study of domestic freight transportation systems. Includes demand for freight movement, laws, regulations, pricing, policies, traffic management, security, and international transportation issues.

LGS 107 Introduction to Purchasing

3 cr, 3 lec

Basic purchasing functions related to logistics. Includes establishing requirements, policies, procedures, purchasing decisions, goods received, packaging, shipping, and managing inventory levels.

LGS 108 International Logistics

3 cr, 3 lec

Introduction to the role of logistics in global business. Includes economic characteristics of international transportation, government oversight, documentation, terms of sale, and import and export management.

LGS 109 Skills for Logistics Careers

1 cr, 1 lec

Investigation of careers in logistics, development of career objectives, with focus on the common requirements of all skills required for employment success.

LGS 190 Logistics Internship

3 cr, 1 lec, 4 lab

Culmination of learning acquired in logistics program. Includes guidelines and procedures for acquiring workplace knowledge and application of learned concepts on the job.

LMT 104 Introduction to Essential Sciences for Therapeutic Bodywork

4 cr, 3 lec, 2 lab

Overview of the structure and dynamics of the human body.

LMT 105 Portfolio Development

4 cr, 1 lec, 6 lab

Portfolio development of non-traditional experiences in massage therapy and/or healthcare.

PRE: Program Coordinator approval and signed Student Learning Agreement required

LMT 106 Healthy Living

(same as CHW 106)

3 cr, 2 lec, 2 lab

Elements that influence physical, mental, emotional, and spiritual wellness; explores the impact of the bodymind model on health care for self and others; effects of energy dynamics on bodywork.

LMT 114 Massage Techniques 1

5 cr, 3 lec, 4 lab

History, benefits, and principles of professionalism, ethics, record keeping; applications, indications and contraindications of basic therapeutic massage; a basic massage routine for seated and full body applications.

PRE: admission to the Licensed Massage Therapy Program

COREQ: LMT 115

LMT 115 Clinical Experience 1

1 cr, .5 lec, 1.5 clin

Practice of fundamental massage techniques in a professional clinical setting.

PRE: Admission to the Licensed Massage Therapy Program and instructor permission required.

COREQ: LMT 114

LMT 124 Essential Sciences for Therapeutic Bodywork

5 cr, 3 lec, 4 lab

A study of human anatomy and physiology emphasizing skeletal & muscular systems, and basic joint function and movement.

PRE: LMT 104 or BIO 160 or BIO 201 or BIO 202 and instructor permission required

LMT 131 Complementary Bodywork Systems 1

2 cr, 1 lec, 2 lab

Introduction to various complementary bodywork systems (ancient and emerging), physiological mechanisms and the relationship to therapeutic massage.

PRE: Admission to the Licensed Massage Therapy Program and instructor permission required.

COREQ: LMT 115

LMT 140 Business Practices for Massage and Bodyworkers

2 cr, 2 lec

Business practices and business plan development for massage and bodyworkers.

PRE: Instructor permission required

LMT 141 Professionalism and Ethics of Bodywork

1 cr, 1 lec

Ethics and professional standards to protect the integrity of the therapist and safeguard the interest of the individual clients.

LMT 200 Exploring Therapeutic Massage and Bodywork Topics

1-4 cr, 1-4 lec

Structured to provide an atmosphere of individualized research and study

paralleled by professional expertise and guidance in the area of therapeutic massage and body work.

LMT 214 Massage Techniques 2

5 cr, 3 lec, 4 lab

Advanced techniques that influence therapeutic massage including trigger point therapy, muscle energy techniques, stretching, hot and cold applications, Eastern techniques, and assessment procedures.

PRE: admission to the Licensed Massage Therapy Program and LMT 114 and instructor permission required

COREQ: LMT 215

LMT 215 Clinical Experience 2

3 cr, 1 lec, 2 lab, 3 clin

Practice of massage techniques in a professional clinical setting.

PRE: Admission to the Licensed Massage Therapy Program and instructor permission required.

COREQ: LMT 214

LMT 217 Review for National Certification

2 cr, 2 lec

Review of all topics described in the National Certification Board for Therapeutic Massage and Bodywork Practitioners test.

PRE: LMT 214

LMT 219 Sports Massage

3 cr, 2 lec, 2 lab

Explores the purpose, benefits, and contraindications of sports massage; principles of sports physiology; massage techniques, applications, and procedures; treatment of injuries.

PRE: LMT 214

LMT 220 Healing Stone Massage

2 cr, 1.5 lec, 1 lab

History, benefits, and principles as well as applications, indications and

contraindications for healing stone massage.

PRE: LMT 214

LMT 222 Pregnancy and Labor Massage

2 cr, 1 lec, 2 lab

Advanced massage techniques to provide relief and support during pregnancy. Discussion of contraindications, complications, and high-risk pregnancies.

PRE: LMT 214

LMT 231 Tips and Techniques for Bodywork Practitioners

1 cr, 1 lec, 1 lab

Presentation and demonstration of various methods that are used to achieve a variety of effects within the scope of practice of massage therapy.

PRE: certification as a massage therapist

LMT 232 Introduction to Curanderismo: The Healing Tradition of Mexico and the Southwest United States

3 cr, 2 lec, 2 lab

History, traditions, rituals, herbs, benefits, principles, ethics, and approaches of Curanderismo, the healing tradition of Mexico and the Southwest United States. The unique issues and health practices of persons who live along the U.S.-Mexico border that integrate Curanderismo and western medicine will also be explored.

LMT 233 Complementary Bodywork Systems 2

2 cr, 1 lec, 2 lab

Continuing study of various complementary bodywork systems (ancient and emerging), physiological mechanisms and the relationship to therapeutic massage.

PRE: LMT 131 and instructor permission required

LMT 234 Kinesiology

2 cr, 1 lec, 2 lab

A study of the structure and function of the human body, both comprehensive and experiential. Emphasis is on normal movement patterns and conditions which inhibit movement. This course includes techniques to assess and facilitate range of motion and function.

PRE: Instructor permission required

LMT 240 Massage Therapy Internship

2 cr, 1 lec, 2 lab

Implementation of a business and marketing plan for all phases of clinic operation, management and employment are explored as well as demonstrating massage techniques in a clinical setting.

PRE: LMT 140 or AWC Massage Therapy Certification or Arizona State Massage Therapy License and instructor permission required

LMT 242 Specializations in Massage Therapy

2 cr, 2 lec

Introduction to career tracks in the field of massage therapy. Focus on serving special populations with appropriate environments and protocols.

PRE: Certified healthcare professional or instructor permission required

LMT 244 Pathology for Massage Therapy

1 cr, 1 lec

Exploration of common pathologies encountered as massage therapists. Evaluation of medical histories to determine indications, contraindications, and safe protocols for massage treatments.

PRE: Instructor permission required

LMT 254 Pharmacology for Massage Therapy

1 cr, 1 lec

A study of drug regimes, chemical therapies for chronic disease, and the interaction within massage protocols.

PRE: Instructor permission required

MAS 120 Introduction to Masonry

2 cr, 1 lec, 2 lab

Introduction to the masonry industry, basic chemicals related to the masonry industry, safety practices, job planning, and current masonry opportunities.

MAS 121 Masonry Tools and Materials

3 cr, 1 lec, 4 lab

Basic work methods, care, and safety of masonry hand tools and power equipment.

MAS 123 Masonry Building Codes

2 cr, 1 lec, 2 lab

Applying all federal, state and local Masonry Building Codes.

MAS 129 HOD Carrier

3 cr, 1 lec, 4 lab

Introduction to masonry hod carrier procedures, stocking walls, erecting scaffolding, and preparing job sites for efficiency and productivity.

MAT 71 Prealgebra

4 cr, 4 lec

Introduction to algebra with an accelerated review of arithmetic skills.

MAT 81 Beginning Algebra

4 cr, 4 lec

Overview of the techniques and skills of beginning algebra.

PRE: MAT 71 or an acceptable score on the Computerized Placement Test (CPT)

MAT 105 Mathematics for the Applied Sciences

3 cr, 3 lec

Presentations of the principles and applications of mathematics to real world situations and various trades. Topics will include basic concepts, operations with signed numbers, exponents, Metric and English systems of measurement, introduction to algebra and use of formulas as they would apply in practical situations. Applications of ratio, proportion, graphing of data, as well as fundamental concepts of geometry and trigonometry will also be discussed.

PRE: MAT 71 or an acceptable score on the Computerized Placement Test (CPT)

MAT 119 Mathematics Across Cultures

3 cr, 3 lec C

Mathematical thought, concepts, and applications in non-European cultures throughout history with an emphasis on Latin American, Native American and African cultures.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

MAT 121 Intermediate Algebra

4 cr, 4 lec

Logical development of the laws of algebra, factoring linear equations, simultaneous equations, functions and graphs, exponents and radicals, quadratic equations

PRE: MAT 81 or an acceptable score on the Computerized Placement Test (CPT)

MAT 130 Mathematics for Elementary Teachers 1

3 cr, 3 lec

Principles and processes underlying current and evolving programs of mathematics instruction in elementary schools grades K-8; the system of whole numbers, integers, rational numbers, and irrationals.

PRE: MAT 142 or approved higher level math or an acceptable score on the Computerized Placement Test (CPT)

MAT 135 Mathematics for Elementary Teachers 2

3 cr, 3 lec

Principles and processes underlying current and evolving programs of mathematics instruction in elementary schools grades K-8; geometry and measurement; statistics and probability.

PRE: MAT 130

MAT 142 College Mathematics with Applications

3 cr, 3 lec

Applications in statistics, probability, finance, discrete mathematics and other selected topics of interest in management science, voting systems, and geometry.

PRE: MAT 121 or an acceptable score on the Computerized Placement Test (CPT)

MAT 151 MAT 1151 College Algebra: Standard

4 cr, 4 lec

Extension and further development of algebra, with an emphasis on functions—including linear, quadratic, rational, radical, exponential and logarithmic. Other topics include function transformations, regression analysis, inequalities, absolute values, systems of equations, matrices, sequences, and series.

PRE: MAT 121 or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both MAT 151 and MAT 187

MAT 172 Finite Mathematics

3 cr, 3 lec

Set theory, linear programming, matrix algebra, finance math, combinatorics, probability and other selected topics

of interest to students in the social and management sciences.

PRE: MAT 151 or 187 or an acceptable score on the Computerized Placement Test (CPT)

MAT 183 Plane Trigonometry

2 cr, 2 lec

A study of trigonometric functions, equations, identities, and inverse functions, and solutions of right and oblique triangles.

PRE/COREQ: MAT 151 or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both MAT 183 and MAT 187

MAT 187 MAT 1187

Precalculus

5 cr, 5 lec

The further development of algebra with a concentration on functions and a study of exponentials, logarithms, sequences, and series. This course also includes a study of trigonometric functions and identities. MAT 187 is intended for those students continuing on to calculus.

PRE: MAT 121 or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both the MAT 151, MAT 183 sequence and MAT 187

MAT 212 Brief Calculus

3 cr, 3 lec

Introduction to elementary topics in differential and integral calculus.

PRE: MAT 151 or 187 or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both MAT 212 and MAT 220

MAT 220 MAT 2220 Calculus I with Analytic Geometry

5 cr, 4 lec, 2 lab

Introduction to analytic geometry and the differential and integral calculus of the elementary functions. Included is a study of limits, continuity, differentiation, applications of derivatives, anti-derivatives, integration, exponential, logarithmic, and trigonometric functions.

PRE: MAT 187 or MAT 151 and MAT 183 or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both MAT 212 and MAT 220

MAT 230 MAT 2230 Calculus II with Analytic Geometry

5 cr, 4 lec, 2 lab

Applications of the integral, techniques of integration, parametric and polar form, convergence of series, Taylor and MaLauren series.

PRE: MAT 220

MAT 241 MAT 2241 Calculus III with Analytic Geometry

4 cr, 4 lec

Study of multivariable calculus, parametric curves, partial differentiation, multiple integration, and an introduction to vector calculus.

PRE: MAT 230

MAT 252 Introduction to Linear Algebra

3 cr, 3 lec

Introduction to vector spaces, linear transformations, matrices, determinants, eigenvalues and eigenvectors, and solutions of linear systems of equations.

PRE: MAT 220

MAT 262 MAT 2262 Introduction to Ordinary Differential Equations

3 cr, 3 lec

Ordinary differential equations and their solutions that utilize conventional approaches, numerical techniques, matrix methods applied to systems of linear differential equations, and Laplace's transformation.

PRE: MAT 230

MAT 270 MAT 1160 Applied Statistics

4 cr, 3 lec, 2 lab

Introduces descriptive and inferential statistics such as graphical and quantitative description of data, discrete probability distributions, continuous probability distributions, one- and multi-sample hypothesis tests, confidence intervals, correlation, simple linear regression, and analysis of variance.

PRE: MAT 142 or approved higher level math or an acceptable score on the Computerized Placement Test (CPT)

MFG 100 Core Curriculum Introductory Craft Skills

**(same as ACR 100, CTM 100,
ECT 100, PCT 100, TEC 100,
and WLD 100)**

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/ industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

MFG 140 Industrial Maintenance Electrical and Instrumentation Level I

3 cr, 2.5 lec, 1 lab

Development of skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MAT 71 or approved higher level math or an acceptable score on the Computerized Placement Test (CPT), or instructor permission and a score of 61 or higher on the reading placement test.

MFG 141 Industrial Maintenance Electrical and Instrumentation Level II

3 cr, 2.5 lec, 1 lab

Continue to develop skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MFG 140 or instructor permission required

MFG 142 Industrial Maintenance Electrical and Instrumentation Level III

3 cr, 2.5 lec, 1 lab

Develop skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MFG 141 or instructor permission required

MFG 143 Industrial Maintenance Electrical and Instrumentation Level IV

3 cr, 2.5 lec, 1 lab

Continue to develop skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MFG 142 or instructor permission required

MFG 144 Programmable Logic Controllers

4 cr, 2 lec, 4 lab

Continue to develop skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MFG 143 or instructor permission required

MFG 145 Pipe Layout and Installation

3 cr, 2 lec, 2 lab

Development of skills needed to succeed in industrial maintenance applications for manufacturing.

PRE: MAT 71 or approved higher level math or an acceptable score on the Computerized Placement Test (CPT), or instructor permission and a score

of 61 or higher on the reading placement test.

MFG 170 Introduction to Lean Manufacturing

3 cr, 3 lec

Introduction of concepts and principles of lean manufacturing and its relationship to productivity and profitability. Student will have opportunity to learn current lean manufacturing terms, concepts and principles and to relate them to local, state and national manufacturing enterprises.

PRE: MAT 105 eligibility and a reading score of 65 or higher

MFG 171 Introduction to Principles of "Green" Manufacturing

3 cr, 3 lec

Introduction to concepts and principles of "green" manufacturing i.e. waste stream management, use of energy efficient-equipment systems and learn the relationship between lean and "green" manufacturing.

PRE: MAT 105 eligibility and a reading score of 65 or higher

MFG 172 "Green" Manufacturing Student Project

4 cr, 4 lec

Portfolio project of "green" manufacturing processes and organizational tools.

PRE: MFG 171

MFG 185 Quality Control and Inspection

3 cr, 2 lec, 2 lab

Survey of quality control and inspection including: precision measurement, inspection techniques for non destructive and destructive testing, sampling plans, investigation methods, and assessment of process variables and controls used in the materials joining/ welding manufacturing industry.

PRE: MAT 105 eligibility and a reading score of 65 or higher or instructor permission required

MFG 191 Machine Tool Operations

4 cr, 2 lec, 4 lab

A study of machine tools and the development of the needed skills to operate and perform fundamental setups. Machine tools used in the course are the drill press, vertical milling machine, horizontal milling machine, and the engine lathe. Related subject matter such as measuring, layout, blueprint reading, calculations, and tool geometry are included in the course.

PRE: MAT 105 eligibility and a reading score of 65 or higher or instructor permission required

MFG 195 Materials Science and Metallurgy

3 cr, 2 lec, 2 lab

Survey and application of materials science and metallurgy.

PRE: MAT 105 eligibility and a reading score of 65 or higher instructor permission required

MFG 200 Manufacturing Project Supervision I

3 cr, 3 lec

Standardized course of study developed as modularized training for industrial maintenance project supervision using the NCCER Contren© Learning Series standardized curriculum.

PRE: 61 or higher on the reading placement test and MAT 71 or higher approved level math or instructor permission required

MFG 201 Manufacturing Project Supervision II

3 cr, 3 lec

Continued modularized training for development of skills necessary for success in industrial maintenance project supervision using the NCCER

Contren© Learning Series standardized curriculum.

PRE: 61 or higher on the reading placement test and MAT 71 or higher approved level math and MFG 200 or instructor permission required

MFG 202 Manufacturing Project Management I

3 cr, 3 lec

Modularized training for development of skills necessary for success in industrial maintenance project management using the NCCER Contren© Learning Series standardized curriculum.

PRE: 61 or higher on the reading placement test and MAT 71 or higher approved level math and MFG 201 or instructor permission required

MFG 203 Manufacturing Project Management II

4 cr, 4 lec

Continued modularized training for development of skills necessary for success in industrial maintenance project management using the NCCER Contren© Learning Series standardized curriculum.

PRE: 61 or higher on the reading placement test and MAT 71 or higher approved level math and MFG 202 or instructor permission required

MGT 135 Management Fundamentals

3 cr, 3 lec

Business philosophy and management theory including planning, organizing, staffing, directing, and controlling.

MGT 140 Small Business Management

3 cr, 3 lec

Factors to consider in planning, owning, and managing a small business.

PRE: BUA 100

MGT 220 Principles of Retailing

3 cr, 3 lec

Surveys all phases of retailing including types of retail outlets and the basic problems of organizing and operating a retail store.

PRE: MKT 110

MGT 250 Personnel Supervision

3 cr, 3 lec

Student will cultivate the functional relationship between management and the labor force; principles of handling the human factor to maximize the productive efficiency of the firm through sound procurement, development, utilization and maintenance of the human resources in the enterprise.

MGT 280 Leadership

3 cr, 3 lec

Review significant historical and current leadership models, also analyze individual behaviors and characteristics often associated with effective leaders, review concepts associated with team leadership, and become familiar with current organizational leadership practices.

PRE: MGT 135

MKT 100 Salesmanship

3 cr, 3 lec

Basic principles of selling: the techniques employed in the development of competencies in the area of selling, product knowledge, and sales supervisory skills. Emphasis is on outside selling.

MKT 110 Principles of Marketing

3 cr, 3 lec

Principles, methods, and challenges involved in developing an integrated and customer-driven marketing strategy that helps achieve organizational goals.

MKT 230 Principles of Advertising

3 cr, 3 lec

Strategic functions and uses of advertising, study of media, general understanding of forms of copy, art work, layout, production and testing advertising effectiveness.

MUS 90 Men's Barbershop Chorus

1 cr, 1 lec, 2 lab

A men's chorus that rehearses and performs traditional barbershop pieces in four-part harmony. **R**

MUS 92A Orchestra Workshop

.5 cr, 1 lab

This class offers group instruction for beginning level string students 4th grade or above. **R**

PRE: Instructor permission required

MUS 92B Orchestra Workshop

1 cr, 2 lab

This class offers group instruction for intermediate level string students 4th grade or above. **R**

PRE: Instructor permission required

MUS 92C Orchestra Workshop

1.5 cr, 3 lab

This class offers group instruction for advanced level string students 4th grade or above. **R**

PRE: Instructor permission required

MUS 93A Young String Ambassadors

.5 cr, 1 lab

Basic skills for the string instrument, ear and musical rhythm training, memorization, ensemble teamwork, and performing in public.

PRE: Audition and instructor permission required

MUS 93B Young String Ambassadors

1 cr, 2 lab

Intermediate skills for the string instrument, ear and musical rhythm training, memorization, ensemble teamwork, and performing in public.

PRE: Audition and instructor permission required

MUS 93C Young String Ambassadors

1.5 cr, 3 lab

Advanced skills for the string instrument, ear and musical rhythm training, memorization, ensemble teamwork, and performing in public.

PRE: Audition and instructor permission required

MUS 94 Civic Light Orchestra

1 cr, 1 lec, 2 lab

This ensemble is open by audition to string players age 16 and over. The group performs classical string music for the public. **R**

MUS 95 Beginning Youth Choir

1 cr, 1 lec

Beginning instruction in singing and choral performance. The course is designed for treble voices only.

PRE: Audition required. Students must be in at least fourth grade.

MUS 96 Advanced Youth Choir

1 cr, 1 lec

Advanced instruction in singing and choral performance. The course is designed for treble and changed voices.

PRE: Audition required. Students must be in at least fourth grade.

MUS 97 String Ensemble

1 cr, 1 lec, 2 lab

The string ensemble class will consist of two parts: a large group string orchestra and small group chamber

ensemble. In the large group, students will study string orchestra literature and the musical styles of many composers. They will also learn how to conduct an ensemble, study and read scores. The small groups consist of multiple string ensembles which learn chamber music such as trios, quartets, etc.

PRE: Audition required

MUS 102 Yuma Chorale

1 cr, 1 lec, 2 lab

This is a large community chorus that performs major choral works and is open to all interested singers by audition. **R**

MUS 103 Pep Band

1 cr, 1 lec, 2 lab

This band performs at home football and basketball games, and other campus and community events. The band is open to all musicians upon approval of the instructor. **R**

MUS 104 Community Band

1 cr, 1 lec, 2 lab

This is a large concert band open to all student and community musicians that rehearses and performs traditional and contemporary band literature. **R**

MUS 105 Jazz Ensemble

1 cr, 1 lec, 2 lab

This performing organization involves the study and public performance of big band jazz arrangements. Approval of the instructor is necessary. **R**

MUS 106 Chamber Singers

1 cr, 1 lec, 2 lab

This vocal ensemble is dedicated to the performance of madrigals and other literature written for smaller choruses. Open by audition. **R**

MUS 109 Civic Orchestra*1 cr, 1 lec, 2 lab*

Performance of standard orchestral literature written for full orchestra. Possibility of smaller ensembles providing smaller chamber works at the instructor's discretion. Open by permission of the instructor and audition. **R**

MUS 110 Fundamentals of Music*3 cr, 3 lec*

This course provides an introduction to music theory that teaches the beginner to read, write, and understand musical notation. The approach is equally suited to those with no prior training in music, as well as those who have learned to sing or play without training in fundamentals.

MUS 111 Dictation and Sight Reading 1A*1 cr, 3 lab*

Taken along with Theory 1A and B this course develops students' skills in aural perception and analysis, and in music reading and sight singing.

COREQ: MUS 191**MUS 112 Dictation and Sight Reading 1B***1 cr, 3 lab*

A continuation of MUS 111.

PRE: MUS 111**COREQ:** MUS 192**MUS 120 Music Appreciation***3 cr, 3 lec H*

This course is designed to help students learn new ways of listening to music in order to better understand our rich musical heritage. While music of all kinds will be studied, art music will be the primary focus. No prior musical training is required.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

MUS 121 Class Piano 1A*1 cr, 1 lec, 2 lab*

Fundamentals of piano.

MUS 122 Class Piano 1B*1 cr, 1 lec, 2 lab*

A continuation of MUS 121.

PRE: MUS 121**MUS 124 Keyboard***1 cr*

Keyboard lessons are designed to serve the music major with an emphasis in piano performance. This is the second course in the four-semester sequence in private piano lessons. There will be an added focus on developing a proper technique with the study of all major and minor scales and arpeggios, and with the study of exercises by composers such as Hanon and Czerny. Student and instructor meet for half hour each week to work on various aspects of piano playing, and to build a basic repertory of music.

PRE: MUS 123 or MUS 125 and instructor permission required

MUS 141/142 Educational Methods for Brass*1/1 cr, 1 lec, 2 lab*

This two semester class is primarily intended for instrumental music majors. The course provides instructional techniques and detailed instrumental knowledge of brass instruments for the future K-12 music teacher. (offered on alternate years).

MUS 161 Classical Guitar 1*1 cr, 1 lec, 2 lab*

Fundamentals of guitar.

MUS 162 Classical Guitar 2*1 cr, 1 lec, 2 lab*

A continuation of MUS 161.

PRE: MUS 161**MUS 171/172 Educational Methods for Woodwinds***1/1 cr, 1 lec, 2 lab*

This two semester class is primarily intended for instrumental music majors. The course provides instructional techniques and detailed instrumental knowledge of woodwind instruments for the future K-12 music teacher. (offered on alternate years).

MUS 191 Theory 1A*3 cr, 3 lec*

The materials and structural elements of music—pitch, rhythm, melody, tonality, harmony, and scale systems—are the focus of this course. It is required for music majors and minors.

COREQ: MUS 111**MUS 192 Theory 1B***3 cr, 3 lec*

A continuation of MUS 191.

PRE: MUS 191**COREQ:** MUS 112**MUS 211 ~~SUNG~~ MUS 2222 Dictation and Sight Reading 2A***1 cr, 3 lab*

A continuation of MUS 111.

COREQ: MUS 291**MUS 212 ~~SUNG~~ MUS 2223 Dictation and Sight Reading 2B***1 cr, 3 lab*

A continuation of MUS 112.

PRE: MUS 211**COREQ:** MUS 292**MUS 221 Class Piano 2A***1 cr, 1 lec, 2 lab*

A continuation of MUS 121.

PRE: MUS 121

MUS 222 Class Piano 2B

1 cr, 1 lec, 2 lab

A continuation of MUS 122.

PRE: MUS 221

MUS 291 SUN#

MUS 2222 Theory 2A

3 cr, 3 lec

A continuation of MUS 191. This is a continuation of Theory 1 that includes a study of chromatic harmony and an investigation of twentieth century techniques in relation to traditional practices.

COREQ: MUS 211

MUS 292 SUN#

MUS 2223 Theory 2B

3 cr, 3 lec

A continuation of MUS 192.

PRE: MUS 291

COREQ: MUS 212

APPLIED MUSIC

(Individual and Group Instruction)

Consult music advisor for assignment to correct course number. See AWC Class Schedule for individual music lesson fees. **R**

MUS 50/60 Preparatory Applied

1 cr/2 cr

a. Brass, b. Woodwind, c. String, d. Keyboard, e. Voice

MUS 123/125 Keyboard

1 cr/2 cr

MUS 133/135 Voice

1 cr/2 cr

MUS 143/145 Brass Instrument

1 cr/2 cr

a. Trumpet, b. Trombone, c. Horn, d. Tuba, e. Euphonium.

MUS 163/165 String Instrument

1 cr/2 cr

a. Violin, b. Viola, c. Cello, d. Bass, e. Guitar

MUS 173/175 Woodwind Instrument

1 cr/2 cr

a. Flute, b. Clarinet, c. Oboe, d. Bassoon, e. Saxophone

MUS 183/185 Percussion

1 cr/2 cr

NTR 139 Personal Nutrition

3 cr, 3 lec

A course designed to provide consumers with knowledge to make wise food choices for themselves and their families. Emphasis is placed on using the U.S. Dietary Guidelines and Food Pyramid to plan nutritious meals for health promotion. Current food controversies will be discussed with students drawing their own conclusions based on practical application of nutrition science.

NTR 201 Nutrition

3 cr, 3 lec

Identifies the principles of the science of human nutrition and their relationship to diet, health, and cultural patterns. Recommended for students entering careers in food or health services and required for all students majoring in Family and Consumer Sciences. Open to all others interested in the life-long process of nutritional choices and the relationship to well-being.

PRE: High school chemistry or BIO 100 or CHM 130

NUR 101 Nursing Assistant

5 cr, 2 lec, 2 lab, 6 clin

This course focuses on applying client self-care concepts and basic procedures relative to fundamentals of nursing, communication, nutrition, anatomy and physiology, medical

terminology, legal/ethical issues, and aging. The concepts and procedures are introduced in the classroom and practiced in the college laboratory before implementation under faculty supervision in a clinical setting. This course prepares the learner for taking the certification examination to become a certified nursing assistant.

PRE: Admission to Nursing Assistant Program

NUR 109 Nursing Portfolio Review

1 cr, 1 lec

The portfolio is a mechanism used to validate the acquisition of knowledge and skills congruent with course expectations and student learning outcomes. CR/NC

PRE: Admission to Nursing Assistant Program

COREQ: NUR 115

NUR 115 Transition to Associate Degree Nursing

1 cr, 1 lec

Orientation and preparation to enter the Associate Degree in Nursing as a readmission or transfer student, or as a Licensed Practical Nurse (LPN). Includes verification of skills competency, completion of program health and safety requirements, orientation to appropriate clinical facilities, and a review of the application of the Nursing Process. LPN's will explore major concepts for role transitioning. **CR/NC**

PRE: Admission to Nursing Program

COREQ: NUR 109

NUR 117 Pharmacology with Clinical Calculations

2 cr, 2 lec

Introduction to the concepts of calculations for medication administration and pharmacotherapeutics. Establishes a knowledge base that allows the learner to apply these concepts to patient care and education.

Integrated within this course are the core competencies of patient-centered care, teamwork and collaboration, evidence-based practice (EBP), quality improvement (QI), safety, informatics and technology, professionalism, communication, leadership, and system-based practice.

PRE: Admission to Nursing Program

NUR 118 Nursing Continuing Education: Phlebotomy

1 cr, .75 lec, .5 lab

Instruction on basic knowledge and skills to safely perform adult peripheral venipuncture for the purpose of drawing blood for diagnostic testing. Does not lead to a phlebotomy certification.

PRE: Must be 18 years of age

NUR 121 Nursing 1

8.25 cr, 5 lec, 3 lab, 5.25 clin

Introduction to the nursing profession, nursing concepts, and skills development. Students will apply the nursing process in the care of adults in well-defined settings.

PRE: Admission to Nursing Program

COREQ: BIO 202 and NUR 117

NUR 122 Nursing 2

8 cr, 4 lec, 12 clin

Nursing care of individuals with commonly occurring health care needs, and introduction to basic concepts of mental health. Students will apply the nursing process in the care of individuals of all ages in acute care settings.

PRE: BIO 202 and NUR 117 and NUR 121

COREQ: PSY 101 and FAS/PSY 238

NUR 123 Transition to Practical Nursing

6 cr, 4 lec, 6 clin

Focus on the scope of practice and issues related to the practical nurse. Content will include care of individuals and families experiencing

selected developmental and acute health-illness transitions. Also included will be practical nurse level concepts related to management and supervision. Supply the student with educational resources in providing fundamental nursing care to individuals that incorporates patient-centered care, teamwork and collaboration, evidence-based practice (EBP), quality improvement (QI), safety, informatics and technology, professionalism, communication, leadership, and system-based practice.

PRE: BIO 201 and BIO 202 and ENG 101 and NUR 117 and NUR 121 and NUR 122 and PSY 101 and FAS/PSY 238

NUR 221 Nursing 3

8 cr, 4 lec, 12 clin

Focus on the scope of practice and issues related to the practical nurse. Content will include care of individuals and families experiencing selected developmental and acute health-illness transitions. Also included will be practical nurse level concepts related to management and supervision. Supply the student with educational resources in providing fundamental nursing care to individuals that incorporates patient-centered care, teamwork and collaboration, evidence-based practice (EBP), quality improvement (QI), safety, informatics and technology, professionalism, communication, leadership, and system-based practice.

PRE: NUR 122 and PSY 101 and FAS/PSY 238

COREQ: BIO 205 and ENG 102

NUR 222 Nursing 4

8 cr, 4 lec, 12 clin

Nursing care of individuals, families, and groups of all ages. Students will apply (1) the nursing process in acute care and mental health settings, and (2) concepts of leadership management and community health nursing in a variety of settings.

PRE: BIO 205 and NUR 221 and ENG 102

COREQ: MAT 142 or approved higher level math and humanities elective

OCN 110 Oceanography

4 cr, 3 lec, 2 lab, 1 rec G

An introduction to the geological and physical aspects of the oceans. Involves a survey of beaches and other coastal features, the origin and history of the ocean basins, waves, currents, tides, and the physical and chemical properties of seawater.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

OCN 199 Oceanography Field Experiences

1-3 cr

One to fifteen-day field trips to nearby coastal regions, oceanographic institutes or marine sanctuaries scheduled at different times during the year.

PRE: OCN 110 or BIO 183 and instructor permission required

ORI 101 Strategies for Success

3 cr, 3 lec

Comprehensive success course designed for students to develop and enhance their academic and personal skills. Emphasis is placed upon promoting a successful college experience through improved study skills, critical thinking skills, and general life skills. Topics include: self awareness, career exploration, college resources/policies, memory techniques, test-taking strategies, note-taking, time management, goal setting, learning styles, technology, values clarification, community involvement, and effective communication. The course will encourage students to examine their own behaviors, expectations, and attitudes to help them exercise more effective strategies for success.

ORI 102 First Course

1 cr, 1 lec

An online orientation designed to prepare individuals for taking online

courses: basic computer tools, online library resources, World Wide Web navigation, search engines, Blackboard, email, discussion boards, chat rooms, file organization, time management, and effective communication techniques.

ORI 104 Vocational Exploration

1 cr, 1 lec

For students seeking assistance in the process of vocational choice and career planning. Topics for study and discussion include theories of vocational choice, the role of self concept in career choice and development, and the sources of occupational information. Vocational interest and personality inventories are administered and interpreted. Classes will meet twice weekly for five consecutive weeks.

ORI 105 Decision-Making

1 cr, 1 lec

Helps students identify their values, gather pertinent information that would affect their decisions, analyze the gathered information, and implement a strategy to make and carry through decisions. Various teaching methods are employed including discussions, exercises, role-playing, out-of-class activities, and simulations. Classes will meet twice weekly for five consecutive weeks.

PCT 100 Core Curriculum Introductory Craft Skills

(same as ACR 100, CTM 100, ECT 100, MFG 100, TEC 100, and WLD 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/industrial maintenance craft skills.

PRE: *ENG 100 eligibility or reading score of 61 or higher on the reading placement test*

PCT 105 Introduction to Plumbing Technology

3 cr, 2 lec, 2 lab

Introduction to basic plumbing techniques, procedures and related safety for tools commonly used in plumbing settings.

PRE: *MAT 071 or approved higher level math or appropriate score on the Computerized Placement test (CPT)*

PCT 110 Plumbing Blueprints and Codes

3 cr, 3 lec

To interpret the basic elements of blueprint reading and code requirements common to residential plumbing settings.

PRE: *PCT 105*

PCT 115 Plumbing Drain, Waste, and Venting Systems

3 cr, 2 lec, 2 lab

Design and installation of drain, waste and vent (DWV) systems.

PRE: *PCT 110*

PCT 205 Plumbing Water Supply and Distribution Systems

4 cr, 3 lec, 2 lab

Design and installation of residential water supply and water distribution systems.

PRE: *PCT 110*

PCT 210 Plumbing Fixture and Appliance Installation

4 cr, 3 lec, 2 lab

Techniques for installing residential fixtures, faucets, and appliances.

PRE: *PCT 110*

PED 102 Issues in Sport

3 cr, 3 lec

Introduction to specific issues, including the personal, sociological, and ethical, confronting professional, collegiate, high school, and youth sports.

PED 120 Leisure and the Quality of Life

3 cr, 3 lec

Conceptual foundation for understanding the role of leisure in quality of life. Social, historical, psychological, cultural, economic, and political foundations of play, leisure and recreation are explored. Nature of play and leisure behavior in human development within different cultures and the contribution play, recreation, and leisure make to the quality of life for individuals in today's society.

PED 160 Theory and Technique of Football

2 cr, 1 lec, 2 lab

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching football.

PED 161 Theory and Technique of Soccer

2 cr, 1 lec, 2 lab

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching soccer.

PED 163 Theory and Technique of Basketball

2 cr, 1 lec, 2 lab

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching basketball.

PED 165 Theory and Technique of Baseball

2 cr, 1 lec, 2 lab

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching baseball.

PED 166 Theory and Technique of Softball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching softball.

PED 167 Theory and Technique of Volleyball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the fundamentals and techniques for playing and coaching volleyball.

PED 260 Theory and Technique of Football*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching football.

PED 261 Theory and Technique of Soccer*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching soccer.

PED 263 Theory and Technique of Basketball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching basketball.

PED 265 Theory and Technique of Baseball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching baseball.

PED 266 Theory and Technique of Softball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching softball.

PED 267 Theory and Technique of Volleyball*2 cr, 1 lec, 2 lab*

Designed for individuals interested in learning the organization and strategy of playing and coaching volleyball.

PEM 100 Introduction to PERS*3 cr, 3 lec*

A survey of qualifications and training required of students planning to major or minor in Exercise Science, Health, Physical Education, Recreation, and Sport. The philosophical basis for physical education is emphasized. Also, objectives and outcomes of physical education, professional organization, historical highlights, employment opportunities, and the future of physical education are perused. The role of athletics is clearly examined.

PEM 101 Directed Laboratory Experience*2 cr, 1 lec, 2 lab*

Introduction to selected professional fields of study in areas related to physical education, recreation, and athletics. Students will participate in activities that enhance skills in their related area of study through practical application.

PEM 102 Emergency Procedures for Coaches*2 cr, 1.5 lec, 1 lab*

Students will be able to administer first aid and cardiopulmonary resuscitation, to improve personal judgment in cases of accident or illness, develop the ability to render aid in time of emergency, and create an emergency action plan.

PEM 105 Mental Training for Sports*1 cr, .5 lec, 1 lab*

Designed to present and teach mental skills that can help individuals maximize more of their potential in the pursuit of athletic excellence.

PEM 201 Principles of Athletic Coaching*3 cr, 3 lec*

Surveys the fundamentals of coaching theory, concepts, and practices for effective sports programs. Includes planning, organizing, leading, controlling and financing sports programs and developing a sound philosophical basis for efficient and successful administration.

PEM 202 Sports Injury Management*3 cr, 2 lec, 1 lab*

Introduction to principles and techniques of preventing, treating, and rehabilitating sports related injuries. Includes recognition of sports injuries, therapeutic methods, mechanisms of sports injuries, and taping and wrapping techniques.

PEM 203 Sports Psychology*3 cr, 3 lec*

Development of the basics of applied sports and adolescent psychology. Includes principles of motivation, varied psychological skills for athletes' performance improvement, and leadership emphasis through communication skills. Also includes imagery, stress management, and attentional skills development for performance enhancement.

PEM 204 Methods of Coaching Team Sports*3 cr, 3 lec*

Designed for individuals interested in learning the fundamental techniques, organization, and strategy for coaching selected team sports. The course will cover football, volleyball, soccer, basketball, softball, and baseball.

PEM 205 Team Sports Officiating: Spring Sports*2 cr, 2 lec, 1 lab*

Familiarization with and application of the rules of various spring sports (soccer, baseball, and softball) from

the standpoint of an official. Includes current methods and materials to develop competency in executing official rules.

PEM 206 Team Sports Officiating: Fall Sports

2 cr, 2 lec, 1 lab

Familiarization with and application of the rules of fall team sports (football, volleyball and basketball) from the standpoint of an official. Includes current methods and materials to develop competency in executing official rules. Students will complete sports specific certification exams.

PEM 208 Sports Injury Treatment

3 cr, 2 lec, 2 lab

Application of the theory and principles associated with therapeutic exercise and modalities. Various rehabilitation and modalities techniques pertaining to the treatment of athletic or physical activity related injuries.

PRE: PEM 202

PEM 210 Athletic Training Practicum

4 cr, 1 lec, 6 lab

Introduction of entry-level athletic training skills within the daily operations of the athletic training room and in the care of athletes.

PRE: PEM 202 and instructor permission required

Persons under the age of 18 who wish to participate in PER classes must have prior permission from the instructor and approval by the Athletic Director

NOTE: 100 level PER courses may satisfy General Education requirements, under Additional Courses, in A.A.S. degrees

Only one of the following courses may be taken per semester: PER 100, 101, 102, 104 and 170

PER 70 Topics in Fitness

.5-3 cr, 0-1 lec, 1-6 lab

Workshops for individual exploration in fitness. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC**

PER 100 Fitness for Life

2 cr, .5 lec, 3 lab

Introduction to a total fitness program that involves cardiovascular conditioning, strength, endurance, and flexibility necessary for a well-rounded life. The student must complete an orientation before being allowed to participate. **R**

PER 101 Fitness for Life

1 cr, .5 lec, 1 lab

Introduction to a total fitness program that involves cardiovascular conditioning, strength, endurance, and flexibility necessary for a well-rounded life. The student must complete an orientation before being allowed to participate. **R**

PER 102 Fitness Training

2 cr, .5 lec, 3 lab

A total fitness program including cardiovascular conditioning, strength, endurance, and flexibility designed to improve or sustain an individual physical fitness level. **R**

PER 103 T'ai Chi Chih

1 cr, .5 lec, 1 lab

T'ai Chi Chih is a series of twenty repetitive movements. It is a moving meditation and a very gentle form of exercise. When practiced daily, T'ai Chi Chih offers many health benefits: physical, emotional, mental, and spiritual. **CR/NC**

PER 104 Personal Fitness Training

2 cr, .5 lec, 3 lab

Instruction is individualized. Focus will be geared towards the components

of fitness in achieving a healthy life style. Class fee will be charged. **CR/NC, R**

PER 106 Walking/Jogging

1 cr, .5 lec, 1 lab

Individually paced walking/jogging using effective techniques. Includes cardiovascular workout within a target heart rate zone to promote positive health fitness and confidence. **CR/NC**

PER 107 Special Activities

1 cr, .5 lec, 1 lab

This course is designed to provide adaptive learning in physical education and recreational activities for students with documented disabilities as mandated by Public Law 92.144. **CR/NC, R**

PER 108 Yoga

1 cr, .5 lec, 1 lab

Introduction to practicing yoga poses and breathing exercises designed to tone and strengthen the entire body, improve flexibility, increase the oxygen flow and find deeper relaxation by balancing body, mind and spirit. **CR/NC**

PER 110 Aerobics: Step

1 cr, .5 lec, 1 lab

High intensity, low impact program that involves stepping on and off a platform repeatedly, while simultaneously performing upper body movements. **CR/NC**

PER 111 Aerobics: Low Impact

1 cr, .5 lec, 1 lab

Introduction to cardiovascular and muscular exercises, including a warm-up and stretches for loosening muscles, followed by a variety of exercises and dance routines to strengthen the cardiovascular system and tone muscles. The final segment includes a cool down routine. **CR/NC**

PER 112 Aerobics: Body Tone*1 cr, .5 lec, 1 lab*

Muscular strength and endurance workouts designed to tone and strengthen the entire body. Includes hand weights, resistance activities, stretching, and flexibility exercises. **CR/NC**

PER 113 Aerobics: Kick Boxing*1 cr, .5 lec, 1 lab*

Fitness workout that includes high density, low impact program that incorporates aerobic movement and boxing techniques. **CR/NC**

PER 114 Aerobics: Water*1 cr, .5 lec, 1 lab*

Cardiovascular strengthening and flexibility exercise in the pool for swimmers at all levels. Includes review of safety water techniques, and upper and lower body movement in water. Also includes coordination of movement to music, and cardiovascular fitness level determination using heart rate measurements. **CR/NC**

PER 115 Aerobics: Pilates*1 cr, .5 lec, 1 lab*

Introduction to muscular strength and endurance. Workouts designed to tone and strengthen the entire body. Includes hand weights, resistance activities and stretching and flexibility exercises. **CR/NC**

PER 126 Dance: Line*1 cr, .5 lec, 1 lab*

Introduction to line dancing for the beginner. Includes basic steps, turns, techniques, and skill development. **CR/NC**

PER 129 Dance: Latin*1 cr, .5 lec, 1 lab*

Basic techniques of Latin dancing are explored. Includes rumba, cha-cha, and tango. Also includes dance movement variations. **CR/NC**

PER 130 Outdoor Adventure Skills*3 cr, 2 lec, 2 lab*

Learn and practice basic camping, backpacking, hiking, wilderness first aid, and survival skills with an emphasis on "leave no trace" environmental principles. In addition to classroom work, students will enjoy two overnight weekend trips. Basic level of fitness required.

PER 131 Dance: Jazz*1 cr, .5 lec, 1 lab*

To instill knowledge and enhance fitness and creativity in dance. This course teaches the students basic terminology and movements of creative dance. The issue of style is certainly not definite, steps are varied and numerous, and ever changing. Creativity to music through dance is the goal as well as developing individual skill level and production of teamwork. **CR/NC**

PER 134 Dance: Basic Belly Dance*1 cr, .5 lec, 1 lab*

Introduction to the basic moves of belly dance, with a focus on American Tribal Style, Tribal Fusion, and Folkloric belly dance. Posture, shoulder and arm movements, hip articulations, shimmies, turns, use of the zils (finger cymbals), and basic choreography. **CR/NC**

PER 135 Basketball*1 cr, .5 lec, 1 lab*

Designed for individuals interested in acquiring the knowledge and techniques required for participation in basketball. **CR/NC**

PER 136 Over the Line*1 cr, .5 lec, 1 lab*

Designed for individuals interested in acquiring the knowledge and techniques required for participation in Over the Line. **CR/NC**

PER 137 Volleyball*1 cr, .5 lec, 1 lab*

Designed for individuals interested in acquiring the knowledge and techniques required for participation in volleyball. **CR/NC**

PER 138 Soccer*1 cr, .5 lec, 1 lab*

Emphasizes the major components of soccer, through theory and practical game-related activities while promoting interest in participating in soccer as a recreational activity. **CR/NC**

PER 140 Billiards*1 cr, .5 lec, 1 lab*

Introduction to several different billiard games and the basic rules of each. **CR/NC**

PER 141 Technical Rock Climbing 1*1 cr, .5 lec, 1 lab*

Designed for individuals interested in learning techniques of safely ascending and descending high-angle rock cliffs. **CR/NC**

NOTE: An initial planning meeting will be held during the first week of classes.

PER 143 Golf 1*1 cr, .5 lec, 1 lab*

Introduction to golf for the beginner. Includes grip, stance, swing, putting, and rules. **CR/NC**

PER 144 Golf 2*1 cr, .5 lec, 1 lab*

Refining the developed skills introduced in the beginning class. Includes grip, stance, swing, driving, chipping, rules, and etiquette. **CR/NC**

PER 145 Judo 1*2 cr, 1 lec, 2 lab*

Introduction to the basic skills of Judo for use in sport, self-defense and physical conditioning. A selection of Judo

techniques, plus Japanese vocabulary will be introduced and practiced weekly along with a review of the previous week's techniques. Those students who are advanced will perfect additional techniques in greater detail. **CR/NC**

PER 146 Judo 2

2 cr, 1 lec, 2 lab

Introduction to the advanced skills of Judo for use in sport, self-defense and physical conditioning. A selection of advanced Judo techniques, plus Japanese vocabulary will be introduced. **CR/NC**

PRE: PER 145

PER 147 Karate 1

1 cr, .5 lec, 1 lab

Focus is on basic skills associated with the discipline of Karate. Emphasis is on physical conditioning, mental discipline, and self-awareness. **CR/NC**

PER 148 Karate 2

1 cr, .5 lec, 1 lab

Continuation of PER 147 Karate 1. Includes intermediate level katas (combination of movements). **CR/NC**

PRE: PER 147

PER 149 Technical Rock Climbing 2

1 cr, .5 lec, 1 lab

Intermediate level techniques of safely ascending and descending high-angle rock cliffs, including anchor building and placement of protection for lead climbing. **CR/NC**

PRE: PER 141 and minimum age 18 years old

PER 153 Canoeing and Kayaking

1 cr, .5 lec, 1 lab

Designed to introduce beginning canoeing and kayaking in a safe manner. **CR/NC**

PER 155 Self-Defense

1 cr, .5 lec, 1 lab

Introduction to various strategies and self-defense skills used for physical conditioning and personal defense. **CR/NC**

PER 157 Tai Kwon Do

1 cr, .5 lec, 1 lab

Knowledge and techniques of Tai Kwon Do. **CR/NC**

PER 158 Desert Hiking

1 cr, .5 lec, 1 lab

This course teaches students sufficient skills and knowledge to plan for and complete a variety of hikes in the desert. **CR/NC**

PER 159 Geocaching

1 cr, .5 lec, 1 lab

Geocaching is an adventure game for GPS users all over the world. Participants use location coordinates from the internet to find geocaches which provide a wide variety of rewards contained in the cache. Participants log their progress on the internet. This course will involve a wide variety of hiking situations. **CR/NC**

PER 160 Swimming

1 cr, .5 lec, 1 lab

Designed for individuals of all skill levels interested in acquiring the knowledge and techniques required for participation in recreational swimming. **CR/NC**

PER 161 Swimming: Beginning

1 cr, .5 lec, 1 lab

Instruction in the skills of swimming for the novice. Includes orientation to the aquatic environment, rhythmic breathing, and water entry. Also includes stroke development and deep water entry. **CR/NC**

PER 164 Scuba

2 cr, 1 lec, 2 lab

The PADI (Professional Association of Diving Instructors) Open Water Diver course builds on measurable competencies leading to the PADI Open Water Diver Scuba Certification.

CR/NC

NOTE: Students will demonstrate an intermediate swimming skill level and must be able to swim a distance of 100 meters. All students are responsible for providing their own equipment, including the cost of renting equipment and safety gear.

PER 165 Lifeguard Certification

2 cr, 1 lec, 2 lab

Prepares American Red Cross lifeguard candidates with the skills and knowledge needed to prevent and respond to aquatic emergencies. **CR/NC**

PER 166 Technical and Multi-Terrain Rescue

.5 cr, 1 lab

Introduction to basic aspects and techniques of technical and multi-terrain rescue. **CR/NC**

PRE: Instructor permission required

PER 170 Weight Training 1

2 cr, 1 lec, 2 lab

Instruction and practice in the skills and understanding of weight training. **R**

PER 171 Weight Training 2

2 cr, 1 lec, 2 lab

The student will apply the skills and understanding developed in Weight Training 1 in a more advanced weight program. **R**

PRE: PER 170

PER 180 Varsity Sports: Football

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their first year at the collegiate level in football.

COREQ: Team member

PER 181 Varsity Sports: Soccer*1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in soccer.

COREQ: *Team member***PER 182 Varsity Sports: Women's Volleyball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in volleyball.

COREQ: *Team member***PER 183 Varsity Sports: Men's Basketball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in basketball.

COREQ: *Team member***PER 184 Varsity Sports: Women's Basketball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in basketball.

COREQ: *Team member***PER 185 Varsity Sports: Baseball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in baseball.

COREQ: *Team member***PER 186 Varsity Sports: Softball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in softball.

COREQ: *Team member***PER 187 Varsity Sports: Spirit Team***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their first year at the collegiate level in cheerleading.

COREQ: *Squad member***PER 210 Leisure Delivery Systems***3 cr, 3 lec*

Systemic study of delivery of leisure services in public, commercial and independent sectors; particular emphasis placed on the urban setting.

PRE/COREQ: *WED 110***PER 230 Recreation Programming and Management***3 cr, 3 lec*

Develop skills to design, plan, implement and manage various recreation programs and services utilizing a variety of community resources.

PRE: *WED 110***PER 264 Advanced Scuba***2 cr, 1 lec, 2 lab*

Advanced scuba techniques; successful completion will lead to PADI Advanced Open Water certification.

PRE: *PER 164*

NOTE: *Students will demonstrate an intermediate swimming skill level and must be able to swim a distance of 100 meters. All students are responsible for providing their own equipment including the cost of renting equipment and safety gear.*

PER 270 Weight Training 3*2 cr, 1 lec, 2 lab*

Application of the skills and understanding developed in Weight Training 1 and 2 in a weight program designed for maximum strength gains.

R**PRE/COREQ:** *PER 170 and PER 171***PER 271 Weight Training 4***2 cr, 1 lec, 2 lab*

Application of the skills and understanding developed in Weight Training 1, 2 and 3 to devise and follow a weight program suited to the student's body type and condition. **R**

PRE/COREQ: *PER 170 and PER 171 and PER 270***PER 280 Varsity Sports: Football***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their second year at the collegiate level in football.

PRE: *PER 180***COREQ:** *Team member***PER 281 Varsity Sports: Soccer***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their second year at the collegiate level in soccer.

PRE: *PER 181***COREQ:** *Team member***PER 282 Varsity Sports: Women's Volleyball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their second year at the collegiate level in volleyball.

PRE: *PER 182***COREQ:** *Team member***PER 283 Varsity Sports: Men's Basketball***1 cr, .5 lec, 1 lab*

Prepares individuals for competing in their second year at the collegiate level in basketball.

PRE: *PER 183***COREQ:** *Team member*

**PER 284 Varsity Sports:
Women's Basketball**

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their second year at the collegiate level in basketball.

PRE: PER 184

COREQ: Team member

PER 285 Varsity Sports: Baseball

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their second year at the collegiate level in baseball.

PRE: PER 185

COREQ: Team member

PER 286 Varsity Sports: Softball

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their second year at the collegiate level in softball.

PRE: PER 186

COREQ: Team member

**PER 287 Varsity Sports:
Spirit Team**

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their second year at the collegiate level in cheerleading.

PRE: PER 187

COREQ: Team member

**PHI 101 SUNO PHI 1101
Introduction to Philosophy**

3 cr, 3 lec H

This course introduces students to the great issues and literature in philosophy: the universe and God, the nature of persons, action and free will, knowledge and truth, the good, the ideal community, and conflicts between individuals and the state. The emphasis is primarily on Western philosophy.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PHI 103 SUNO PHI 1103

Introduction to Logic

3 cr, 3 lec G

Logic is the systematic study of arguments. This course has a dual emphasis: (1) informal logic and (2) formal logic. Informal logic is concerned with fallacies as they occur in everyday discourse. Formal logic attempts to grasp the underlying mathematical structure of reason. The study of logic is intended to empower one to think clearly and concisely.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PHI 105 SUNO PHI 1105

Introduction to Ethics

3 cr, 3 lec H, WI

This course is an exploration of representative issues and systems of ethics from the ancient Greeks to the present day. The course is designed to enhance students' sophistication in making personal decisions about difficult moral and social questions.

PRE: ENG 101

PHI 210 Philosophy of Science

3 cr, 3 lec

A philosophical investigation into the nature of scientific inquiry and methodology: Topics include the definition of science, the realist/antirealist debate, the limits of science, the relationship between science and religion, and the nature, formation, use, and confirmation of scientific laws and theories.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PHI 220 Medical Ethics

3 cr, 3 lec C

Philosophical examination of moral problems that arise in relation to medicine and health care. Topics include end of life, reproduction, patient's rights, and justice in the distribution of health care.

PRE: ENG 101

PHI 233 Philosophy of Religion

(same as REL 233)

3 cr, 3 lec H

Philosophical examination of religious concepts and phenomena. Topics include the nature and existence of God; the justification of religious belief; and the interrelation of religion, meaning, values, and knowledge.

PRE: ENG 101

PHI 240 Ancient Philosophy

3 cr, 3 lec H

Reading and critical analysis of texts concerning the issues of the universe and God, meaning of life, suffering and death, truth and good versus evil of the philosophers of ancient Greece and Rome with emphasis on Socrates, Plato, and Aristotle.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

**PHI 257 Social and
Political Philosophy**

(same as POS 257)

3 cr, 3 lec G

Political philosophy examines and evaluates the theoretical foundations of state authority. Social philosophy deals with questions of power and justice among members of social groups. This course explores these questions in their inter-relatedness.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

**PHY 111 SUNO PHY 1111
College Physics I**

4 cr, 4 lec, 2 lab G

Introduction to motion and interactions that change motion; introduction to mechanical energy, momentum, fluids, thermodynamics, and waves.

PRE: ENG 101 eligibility or appropriate reading score and one of the following requirements: MAT 187; MAT 183 and MAT 151; an approved higher-

level math course; or an acceptable score on the Computerized Placement Test (CPT)

NOTE: Credit cannot be received in both PHY 111 and PHY 121

PHY 112 
PHY 1112 College Physics II

4 cr, 4 lec, 2 lab **G**

Introduction to electricity and magnetism, optics, and modern physics.

PRE: PHY 111 and ENG 101 eligibility or appropriate reading score

PHY 121 
PHY 1121 Mechanics

4 cr, 4 lec, 2 lab **G**

Introduction to mechanics. Analysis of the interactions between a system and its environment to determine changes in the system's position, velocity, momentum, and mechanical energy. Application of Newton's laws and conservation laws to the behavior of physical systems.

PRE: MAT 220 and ENG 101 eligible or appropriate reading score

COREQ: MAT 230

NOTE: MAT 230 may be completed prior to taking PHY 121

PHY 131 
PHY 1131 Electricity and Magnetism

4 cr, 4 lec, 2 lab **G**

Introduction to electricity and magnetism. Application of the laws of electricity and magnetism to the behavior of physical systems.

PRE: PHY 121 and MAT 230 and ENG 101 eligibility or appropriate reading score

COREQ: MAT 241

NOTE: MAT 241 may be completed prior to taking PHY 131

PLS 100 Plant Science

4 cr, 3 lec, 3 lab **G**

Provides information on the importance of plant science in agriculture. Also provides basic information on

the study of germination, emergence, growth, and reproduction of important economic species; and how these plant processes are influenced by the environment, such as soil-water-plant relations.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PLS 120 Agricultural Entomology

3 cr, 3 lec, .5 lab

An introduction to the science of entomology focusing on basic principles of systematics, morphology, physiology, behavior, ecology, and economics in relation to agriculture; as well as, an introduction to agriculturally beneficial and harmful insects, control methods and the action mode of insecticides.

PLS 122 Principles of Ornamental Horticulture

4 cr, 3 lec, 3 lab

The principles underlying the science and skills involved in planting, caring for, and managing ornamental plants as well as turf.

PLS 160 Introduction to Southwestern Alternative Crops

3 cr, 3 lec

This course will introduce students to non-vegetable crops grown in the Desert Southwest (i.e. tree crops, alfalfa, cotton, sugar beets, small grains, dates, etc.). The history, introduction, production, and economic impact of the crops will be discussed.

PLS 200 Introduction to Integrated Pest Management

4 cr, 3 lec, 3 lab

To introduce students to the world of IPM through the understanding of concepts, practices and language of the control of agronomic pests and an introduction to major pests and control measures in the Colorado River Valley.

PLS 211 Soils

4 cr, 3 lec, 3 lab

Fundamental principles of soil science, the origin, nature and classification of soils, the chemical, physical and biological properties in relation to growth and nutrition, and problems of saline soils.

PLS 230 Basic Crop Fertility

4 cr, 3 lec, 3 lab

An introduction to plant fertility, including fertilizer interactions with soil, water, and general conditions found in crop production, as well as forms of fertilizer, availability, and functions in plant growth.

PLS 240 Plant Propagation

4 cr, 3 lec, 3 lab

Prepares the student with knowledge and skills in sexual and asexual propagation of plants, including growth, rooting media, budding, grafting, and greenhouse systems.

PLS 270 Turfgrass Management

3 cr, 3 lec

Course will address specialized cultural management practices and relevant construction principles for golf courses and sport turf fields. Students will develop organizational strategies used for maintenance of the above areas.

PLS 290 Vegetable Crop Production

4 cr, 3 lec, 3 lab

A practical approach to commercial vegetable production. Deals with the principles, economics, and production practices of principle vegetable crops grown in the Southwest.

PRE: MAT 121 or approved higher level math and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

NOTE: PLS 100 recommended

POS 100 Introduction to Politics

3 cr, 3 lec G

This course is a survey of what government and politics are all about and how they are studied. It discusses political thinkers from the ancient Greeks to Karl Marx, and how they affected today's political ideologies such as liberalism, capitalism, socialism, communism, and fascism. The course covers international relations, organization and law, and compares the way modern governments in the U.S., Europe, Asia, and Africa operate.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

POS 110 SUNB POS 1110

American Politics

3 cr, 3 lec H, WI

This course is intended to be a study of the American democratic system, from the founding fathers to the present, looking at how our government works and how it got that way. The presidency from Washington to present day, Congress from the writing of the Constitution to the present, and the judicial branch will be studied. Special emphasis will be placed on the elections process, how people vote and why they don't. This course fulfills the federal constitution requirement for teacher certification in Arizona.

PRE: ENG 101

POS 120 SUNB POS 1120

World Politics

3 cr, 3 lec G, WI

This course explores the existence of a world-wide political system and what that system means to people. It looks at agencies and personalities of foreign policy and attempts at international organizations, such as the United Nations.

PRE: ENG 101

POS 130 SUNB POS 1130

State and Local Politics

3 cr, 3 lec H, WI

General survey of city, county, and state governments; structures, services, and problems. This class meets state constitution requirements for teacher certification in Arizona.

PRE: ENG 101

POS 140 SUNB

POS 2204 Introduction to Comparative Politics

3 cr, 3 lec C, WI

A comparative examination of various political systems, such as liberal democracy, communism, and third world countries. There will be an emphasis on their organization, function, and how they differ from one another.

PRE: ENG 101

POS 221 Arizona Constitution and Government

2 cr, 2 lec

Deals with the constitution and government of Arizona; specifically designed to meet the state constitution requirement for teacher certification in Arizona, with an intensive study of the written constitution, as well as a survey of the Arizona governmental institutions which are based on it.

POS 222 National Constitution and Government

1 cr, 1 lec

Deals with the constitution and government of the United States; specifically designed to meet the federal constitution requirement for teacher certification in Arizona, with an intensive study of the written constitution, as well as a survey of the American governmental institutions which are based on it.

POS 257 Social and Political Philosophy

(same as PHI 257)

3 cr, 3 lec G

Political philosophy examines and evaluates the theoretical foundations of state authority. Social philosophy deals with questions of power and justice among members of social groups. This course explores these questions in their inter-relatedness.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PSY 101 SUNB PSY 1101

Introduction to Psychology

3 cr, 3 lec C

Although basic theories are included, the course emphasizes the relationship between the material discussed and everyday life. Areas covered are history and systems, scientific methods, developmental processes, perception, learning, memory, basic statistics, intelligence and personality testing, motivation, conflict and frustration, mental disorders and therapy, and social psychology.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

PSY 170 Human Sexuality

(same as SOC 170)

3 cr, 3 lec C

Coverage and candid discussion of various aspects of human sexuality including history of sexual values, sexual physiology, life span changes, sexual roles and gender identity, sexual diseases and dysfunctions, contraception and abortion, sexual assault, and pregnancy and birth.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score. PSY 101 or SOC 101 or SOC 160 recommended

COREQ: Student must be 18 years old at the time the class starts

PSY 227 Personality*3 cr, 3 lec*

This course covers the definition of personality, its development, and theories about its functioning. It includes the history of personality theory, diagnosis, treatment and current conceptualizations of personality.

PRE: PSY 101**PSY 230 Statistics for the Social Sciences***4 cr, 3 lec, 2 lab*

Introduces descriptive and inferential statistics, such as graphical and quantitative description of data, discrete probability distributions, continuous probability distributions, one- and multi-sample hypothesis tests, confidence intervals, correlation, simple linear regression, and analysis of variance.

PRE: MAT 142 or approved higher level math or an appropriate score on the Computerized Placement Test (CPT)**PSY 238 Human Development***(same as FAS 238)**4 cr, 4 lec C, WI*

General insight into the human growth and development process from conception to death. Leading life span developmental theories and concepts are explored. Provides information for family and consumer sciences, nursing, psychology, sociology, and physical education majors. Students planning to transfer this course should also take PSY 101, which many universities require as a prerequisite.

PRE: ENG 101**PSY 270 Social Psychology***3 cr, 3 lec (Every other year)*

Explores the combined areas of psychology and sociology, with emphasis on the reciprocal interaction of individuals and their groups. Areas covered include methods of social

research, basic psychological factors, social attitudes, communication, society and culture, and small groups.

PRE: PSY 101 or SOC 101**PSY 280 Behavior Modification***3 cr, 3 lec*

Pavlovian classical conditioning, instrumental and operant conditioning, motivation, ABCs of behavior, relapse prevention models, behavioral change models, self-behavior change analysis, token economies, and cognitive-behavioral techniques for enhancing change and preventing relapse.

PSY 281 Abnormal Psychology*3 cr, 3 lec*

This course is an undergraduate level introduction to the concepts of abnormality, mental health and mental illness. It serves as an introduction to the concepts of normality and abnormality in a cultural context. It also covers current diagnostic categorizations of abnormality and treatment of mental illness along with historical perspectives on these diagnoses and treatments. It does not train students in diagnosis or intervention. Abnormal psychology examines the causes, diagnosis, assessment, treatment, and possible prevention of mental disorders; including historical and current theoretical perspectives, classification systems, cultural perspectives and ethical issues.

PRE: PSY 101 and ENG 101 eligibility**PSY 290 Introduction to Research Methods in the Social Sciences***4 cr, 4 lec, 1 lab G, WI*

This course serves as an introduction to the scientific methods most often used in the social sciences. It includes both lecture and hands-on laboratory experience. This course requires significant writing and uses the SPSS statistical package.

PRE: ENG 101 and PSY 101 and SOC 101 and PSY 230 or MAT 270**PTR 234 Exercise Science for the Personal Trainer***4 cr, 3 lec, 2 lab*

Overview of the various systems of the body and how they interact to help adapt to exercise and movement.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score**PTR 276 Principles and Methods of Weight Training***3 cr, 1 lec, 4 lab*

Evaluation and interpretation of results for individualized programs designed for muscular strength, endurance and flexibility.

PRE: PTR 234**COREQ:** PER 170**PTR 277 Principles and Methods of Fitness Training***3 cr, 1 lec, 4 lab*

Evaluation and interpretation of results for individualized programs designed for cardiovascular training.

PRE: PTR 234**COREQ:** PER 102**QBA 211 SUNB BUS 2201 Quantitative Analysis***3 cr, 3 lec, 1 lab*

Methods of collection, tabulation, and analysis of business and economic data, including measures of central tendency and dispersion, probability theory, frequency distributions, statistical inference, and statistical decision making.

PRE: MAT 151 or approved higher level math**RAD 100 Introduction to Radiography and Patient Care***2 cr, 12 clin*

Introduction to radiation protection, radiologic technology terminology, ethical and legal issues, infection control procedures, safety procedures,

communication, equipment operation, the radiologic technology program and health care system.

PRE: Full acceptance to the Radiography Program.

RAD 101 Radiologic Technology Portfolio Development 1

4 cr, 1 lec, 18 clin

Designed for technologists with a valid PTR limited license to practice upper and lower extremities, chest, abdomen, and pelvis (excludes chiropractic and podiatry licenses) and for students transferring from other Radiologic Technology programs to document prior academic and clinical achievement. **CR/NC**

PRE: Completion of standard prerequisites is needed for entrance into the Radiologic Technology program and Program Director's permission required

RAD 102 Radiologic Technology Portfolio Development 2

4 cr, 1 lec, 18 clin

This course allows students seeking reentry into the Radiologic Technology Program to demonstrate competency in previously completed diagnostic exams or to repeat one academic course. **CR/NC**

PRE: Completion of standard prerequisites needed for entrance into the Radiologic Technology program and Program Director's permission required

RAD 105 Basic Radiographic Procedures

3 cr, 2 lec, 2 lab

Introduction to radiographic positioning terminology, patient positioning, equipment, manipulation and evaluation of images for proper visualization of anatomy and pathology.

PRE: RAD 100 and current enrollment in the Radiologic Technology program

COREQ: RAD 110 and RAD 115 and RAD 120

RAD 106 Intermediate Radiographic Procedures

3 cr, 2 lec, 2 lab

Introduction to positioning of the vertebral column, bony thorax, GI and urinary system, mobile and intraoperative radiography and trauma.

PRE/COREQ: RAD 105 and current enrollment in the Radiologic Technology program

RAD 110 Patient Care in Imaging Technology

3 cr, 2.5 lec, 1 lab

A study of patient care procedures, ethics, patient communication skills, infection control, and body mechanics.

PRE: RAD 100 and current enrollment in the Radiologic Technology program

COREQ: RAD 105 and RAD 115 and RAD 120

RAD 111 Radiographic Anatomy and Physiology

3 cr, 3 lec

Comprehensive study of human anatomy and physiology as related to the image, including advanced localization and identification of human anatomy on the radiographic image.

PRE: BIO 160 or BIO 201 and BIO 202 and current enrollment in the Radiologic Technology program

RAD 115 Principles of Radiographic Imaging 1

3 cr, 3 lec

Introduces the student to radiographic image production and the effects that exposure variables and radiographic accessories have on the quality of the image.

PRE: RAD 100

COREQ: RAD 105 and RAD 110 and RAD 120

RAD 120 Clinical 1 Medical Radiologic Technology

3 cr, 18 clin

Prepares for competency-based clinical education in radiographic examination of the chest, abdomen, upper and lower extremities, and introduces students to trauma of the extremities.

PRE: RAD 100

COREQ: RAD 105 and RAD 110 and RAD 115

RAD 121 Clinical 2 Medical Radiologic Technology

4 cr, 24 clin

Clinical education in radiographic examination of the upper and lower extremities, shoulder, pelvic girdle, and special views. Introduction to fluoroscopy and trauma.

PRE: RAD 120

COREQ: RAD 106 and RAD 111 and RAD 215

RAD 122 Clinical 3 Medical Radiologic Technology

4 cr, 24 clin

Competency-based clinical education in radiographic examination of the pediatric patients, trauma patients, and urinary and gastrointestinal contrast exams.

PRE: RAD 121

RAD 200 Radiographic Imaging Equipment

3 cr, 3 lec

Provides continuing instruction in the concepts of digital and computed radiography.

PRE: MAT 142 or approved higher level math

RAD 205 Advanced Radiologic Procedures

3 cr, 2 lec, 2 lab

Positioning of the skull and facial bones, introduction to special procedures.

PRE: RAD 106

RAD 207 Radiation Biology and Protection*3 cr, 3 lec*

A study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

PRE: RAD 111**RAD 215 Principles of Radiographic Imaging 2***3 cr, 3 lec*

A continuation of the study of radiographic imaging technique formulation, image quality assurance, and the synthesis of all variables in image production.

PRE: RAD 115**RAD 216 Radiologic Pathology***3 cr, 3 lec*

Introduces the disease process and common diseases and their appearance on medical images, specifically pathologic conditions most commonly encountered.

PRE: BIO 160 and RAD 111**RAD 217 Advanced Medical Imaging***2 cr, 2 lec*

Provide continuing instruction in the use of computers in advanced and specialized radiographic imaging.

PRE: RAD 200**RAD 220 Clinical 4 Medical Radiologic Technology***5 cr, 30 clin*

Competency-based clinical education in fluoroscopy, urinary studies, and portable, trauma, and non routine examinations.

PRE: RAD 122**COREQ:** RAD 200 and RAD 205 and RAD 216**RAD 221 Clinical 5 Medical Radiologic Technology***5 cr, 30 clin*

Provides for competency-based clinical practice of radiographic studies of the cranium and face.

PRE: RAD 220**COREQ:** RAD 207 and RAD 217 and RAD 225**RAD 225 Radiologic Technology Seminar***2 cr, 2 lec*

Capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

PRE: Must have completed all previous Radiologic Technology course work with a grade of "C" or higher to be enrolled**COREQ:** RAD 207 and RAD 217 and RAD 221**RCT 230 Introduction to Computed Tomography (CT)***2 cr, 2 lec*

Introduction to the basic concepts of the operation of Computed Tomography (CT) device with patient care topics relative to CT.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology**RCT 231 Computed Tomography Clinical 1***3 cr, 3 lab, 18 clin*

Demonstration and documentation of Computed Tomography (CT) exams.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology**RCT 232 Physics of Computed Tomography (CT)***3 cr, 3 lec*

Concepts of the physical principles and instrumentation involved in

computed Tomography (CT).

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology**RCT 233 Computed Tomography (CT) - Positioning, Protocols, and Contrast Media***4 cr, 4 lec*

Procedures for Computed Tomography (CT) imaging of adults and pediatric patients to include indications for the procedure, preparation, patient education, orientation, positioning, history, assessment and contrast media.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology**RCT 234 Computed Tomography Clinical 2***3 cr, 3 lab, 18 clin*

Demonstration and documentation of Computed Tomography (CT) Exams.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology**RCT 235 Cross Sectional Anatomy***3 cr, 3 lec*

This course provides the necessary tools for understanding anatomy in three dimensions by demonstrating the location, function, and appearance of major structures in the head, neck, chest, abdomen, pelvis, and extremities.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology; student should have a professional knowledge of human anatomy and physiology.**RCT 236 Cardiac Computed Tomography (CT), Planar and Volumetric Post Processing***4 cr, 4 lec*

Cardiac imaging to include patient preparation, electrocardiogram (ECG)

setup and evaluation, arrhythmia recognition, and intravenous (IV) contrast.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology

RCT 237 Computed Tomography (CT) Clinical 3

3 cr, 3 lab, 18 clin

Demonstration and documentation of Computed Tomography (CT) exams.

PRE: Must be American Registry of Radiologic Technologists (ARRT) certified in Radiologic Technology

RDG 91 Individualized Reading

1-3 cr, 1-3 lec

A program individualized for each student based on reading scores. **R**

RDG 93 Reading Essentials

3 cr, 3 lec

Extensive reading experiences in fiction and nonfiction; designed to broaden reading experiences and develop vocabulary. **R**

PRE: Appropriate CPT-R score or ESL 94S or one of the following sets: ESL 94B and ESL 94R or ESL 94B and ESL 94G

RDG 95 Reading Improvement

3 cr, 3 lec

Extensive and intensive reading of fiction and nonfiction; emphasis upon main ideas, implied main ideas, and conclusions; vocabulary development, critical reading, writing of summaries, and study-reading. **R**

PRE: Appropriate reading score

RDG 121 College Reading Skills

3 cr, 3 lec

Intensive and critical examination of fiction and nonfiction more appropriate to the college level. Emphasis upon reading standard textbook format and technical selections; identification of main ideas, implied main ideas, and

conclusions; vocabulary development via word parts and specialized vocabulary; critical reading focusing on bias, argument and tone; writing includes note-taking and summarizing.

PRE: Appropriate reading score

REC 250 Recreation Leadership

3 cr, 3 lec

An examination of roles and methods of leadership in leisure service settings to include theories and models of leadership, group dynamics, participant motivation, communication. Exploration of leadership contexts including coaching and officiating sports, leading community groups and volunteers, and working with persons in various life stages at various abilities.

PRE: PER 230

REL 201 Comparative World Religions

3 cr, 3 lec G, WI

Introductory study of the great living religions: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam. Emphasis is on the historical settings and cultural significance.

PRE: ENG 101

REL 210 The Hebrew Scriptures (Old Testament)

3 cr, 3 lec G

This course examines the central themes, doctrines, theology, narrative, literature, history, and formation of the Hebrew Scriptures – also known as the Old Testament – from a Jewish and Christian perspective. Emphasis is placed on the Torah, Wisdom Literature, and the Prophets.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

REL 220 The Christian Scriptures (New Testament)

3 cr, 3 lec

This course examines the central themes, doctrines, theology, narratives, literature, history, and formation of the New Testament. Emphasis is placed on the Gospels, the Acts of the Apostles, the Letters of Paul, and the Book of Revelation.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

REL 233 Philosophy of Religion

(same as PHI 233)

3 cr, 3 lec H

Philosophical examination of religious concepts and phenomena. Topics include the nature and existence of God; the justification of religious belief; and the interrelation of religion, meaning, values, and knowledge.

PRE: ENG 101

SEI 293 Structured English Immersion (SEI) Endorsement Training

3 cr, 3 lec

Instructional techniques, methodologies, and theories regarding the English Language Learner (ELL) in the educational system. It is designed to meet the augmented 45-hour class mandated by the Arizona Department of Education towards the Structured English Immersion (SEI) endorsement.

SEI 294 Structured English Immersion (SEI) Endorsement Training

3 cr, 3 lec

Instructional techniques, methodologies, and theories regarding the English Language Learner (ELL) in the educational system and is designed to meet the 45-hour class mandated by the Arizona Department of Education towards the Structured English Immersion (SEI) endorsement.

PRE: SEI 293

SIE 270 Mathematical Foundation of Systems and Industrial Engineering

3 cr, 3 lec

Basics of data structures, computer methods, their implementation in MATLAB, and their applications in solving engineering problems.

PRE: EGR 123 and EGR 188 and MAT 230 and PHY 121

SIE 277 Object-Oriented Modeling and Design

3 cr, 3 lec

Modeling and design of complex systems using the Unified Modeling Language (UML) and object oriented techniques. Applications come from systems, hardware and algorithm design, not software. The Unified Systems Engineering Process is developed with emphasis on architecture, requirements, testing and risk taking analysis.

PRE: EGR 123 and EGR 188 and MAT 230 and PHY 121

SLR 105 Introduction to Solar Photovoltaics 1

3 cr, 2 lec, 2 lab

Introduction to photovoltaic (PV) systems.

NOTE: Completion of ECT 220 and 225 or prior experience as an electrical contractor recommended

SLR 110 Introduction to Solar Photovoltaics 2

3 cr, 2 lec, 2 lab

Advanced photovoltaic (PV) training.

PRE: SLR 105

SLT 101 English Grammar for Teachers

3 cr, 3 lec

Review of the form and use of English verb tenses and other key grammatical structures in order to equip teachers of all subject areas and levels with the knowledge and skills necessary to

explain grammatical concepts to students, especially to non-native speakers of English.

SLT 201 English Grammar for Teachers

3 cr, 3 lec

Review of the form and use of English verb tenses and other key grammatical structures in order to equip teachers of all subject areas and levels with the knowledge and skills necessary to explain grammatical concepts to students, especially to non-native speakers of English.

SOC 101 SOC 1101 Introduction to Sociology

3 cr, 3 lec C

This course explores the basic concepts and interpretations of human behavior in group settings. The course will further examine the sociological perspective and its effect on current social topics.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SOC 160 Close Relationships (same as FAS 160)

3 cr, 3 lec C

This course is designed to assist you in understanding close relationships in the context of the family and other groups. The knowledge gained should bring you insight into how close relationships operate and be helpful in understanding your own relationships.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SOC 170 Human Sexuality (same as PSY 170)

3 cr, 3 lec C

Coverage and candid discussion of various aspects of human sexuality including history of sexual values, sexual physiology, life span changes, sexual roles and gender identity, sexual diseases and dysfunctions, contracep-

tion and abortion, sexual assault, and pregnancy and birth.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score and 18 years old at the time the class starts. PSY 101 or SOC 101 or SOC 160 recommended

SOC 230 Social Problems

3 cr, 3 lec C

Groups' behaviors considered deviant and detrimental to the society as a whole are studied with emphasis on exploring the definitions, explanations, and possible solutions to such societal ills.

PRE: SOC 101 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SOC 240 SOC 2215 Racial and Ethnic Relations

3 cr, 3 lec C

A critical overview of problems of minority groups in the United States. Emphasis on characteristics of minority/dominant relationships in terms of prejudice, discrimination, segregation, and assimilation.

PRE: SOC 101 and ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SOC 250 Introduction to Social Work

3 cr, 3 lec

This course introduces social work as a profession. It examines the forces that have influenced the evolution of social welfare and the demand for social workers and their services. This course will analyze the impact of poverty on society, the people who live in poverty, and the effectiveness of social response to address and eliminate poverty.

SPA 10 Spanish for Travelers 1

2 cr, 2 lec

A practical course for fluency and communication. Conversation practice in situations that simulate those of

the traveler to Mexico. Minimal attention to grammar. Focus on communication. Field trip to Mexico. **R**

SPA 20 Spanish for Travelers 2

2 cr, 2 lec

A review of SPA 10 with more practice in simulated travel situations—asking directions, ordering a meal, shopping. Minimal attention to grammar. Focus on communication. Field trip to Mexico. **R**

PRE: Placement of students into SPA 10 or SPA 20 is based upon self-evaluation during registration and faculty observation during the first class session

SPA 30 Spanish for Travelers 3

2 cr, 2 lec

A continuation of SPA 20 with more practice in simulated travel situations—asking directions, ordering a meal, shopping. Minimal attention to grammar. Focus on communication. Field trip to Mexico. **R**

PRE: SPA 20

SPA 101 SPA 1101 Elementary Spanish 1

4 cr, 6 lec, C

Basic communication skills with emphasis on oral communication and elementary grammar. Students are exposed to the culture and traditions of the Spanish-speaking countries. Fulfills the first semester foreign language requirement at most four-year institutions.

NOTE: This course is not designed for native Spanish speakers or students with intermediate proficiency or better

SPA 102 SPA 1102 Elementary Spanish 2

4 cr, 6 lec, C

A continuation of SPA 101. Basic communication skills with emphasis on oral communication and elementary grammar. Fulfills the second semester foreign language requirement at most four-year institutions.

PRE: SPA 101

SPA 115 Beginning Conversational Spanish 1

3 cr, 3 lec

Basic communications skills with emphasis on oral communication and pronunciation. Grammar is taught only as it will facilitate conversation.

SPA 116 Beginning Conversational Spanish 2

3 cr, 3 lec

A continuation of SPA 115. Basic communication skills with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: SPA 115

SPA 117 Beginning Spanish for Health Care Professionals

3 cr, 3 lec

This course covers basic Spanish language structure and vocabulary, appropriate phrasing, as well as specific acquisition of medical terminology, in a conversational setting.

SPA 201 SPA 2201 Intermediate Spanish 1

4 cr, 6 lec C

A continuation of SPA 102 with emphasis on oral communication. Listening and reading comprehension, with writing exercises, are integrated to develop and reinforce intermediate speaking skills. Modern-day topics for discussion provide a conversational approach to learning Spanish. Fulfills the third semester foreign language requirement at most four-year institutions.

PRE: SPA 102

SPA 202 SPA 2202 Intermediate Spanish 2

4 cr, 6 lec C

A continuation of Spanish 201 with emphasis on oral communication. The course provides a way to practice Spanish in a communicative context through reading selections on Hispanics' customs and traditions.

Writing exercises provide a review of grammar. Fulfills the fourth semester foreign language requirement at most four-year institutions.

PRE: SPA 201

SPA 203 Intermediate Spanish for Native Speakers 1

4 cr, 6 lec C

Meets the needs of native speakers of Spanish. Students are exposed to the culture and traditions of Spanish-speaking countries. Speaking and writing problems particular to the Spanish-speaking student are continuously treated as an integral part of the course. Fulfills the third semester foreign language requirement at some four-year institutions.

PRE: Native or near-native fluency in Spanish and SPA 102 or a first-year Spanish course where emphasis was placed on conversational skills, vocabulary development, formal reading, and writing

SPA 204 Intermediate Spanish for Native Speakers 2

4 cr, 6 lec C

A continuation of SPA 203. Meets the needs of the native speakers. The emphasis is on writing with attention to problems particular to Spanish-speaking students. Students are also exposed to the culture and traditions of Spanish-speaking countries. Fulfills the fourth semester foreign language requirement at some four-year institutions.

PRE: Native or near-native fluency in Spanish and SPA 203 or 201 or an equivalent course where emphasis was placed on conversational skills, vocabulary development, formal reading, and writing

SPA 251 Intermediate Spanish Grammar and Composition

3 cr, 3 lec C

Intermediate-high grammar, reading comprehension, composition and translation, including class conversations, and debates which are integrated

to develop and reinforce academic speaking and written skills.

PRE: SPA 202 or 204

SPA 260 Mexican-American Literature

3 cr, 3 lec C

An introduction to the literature of the Chicano writers from the 17th century through the present. The course concentrates on the cultural roots of the Mexican-American and gives the student a better understanding of the ethnic attitudes which have influenced the social, political, and economical history of Mexican-Americans.

PRE: SPA 202 or 204 or near-native fluency in Spanish and ENG 101 eligibility or completion of RDG 121 or appropriate reading score or high school equivalency from a Spanish speaking country

SPA 261 Introduction to Spanish Literature

3 cr, 3 lec C

Survey of masterpieces and movements in Spanish literature: covers the medieval through the present.

PRE: SPA 202 or 204 or near-native fluency in Spanish and ENG 101 eligibility or completion of RDG 121 or appropriate reading score or high school equivalency from a Spanish speaking country

NOTE: All course work is in Spanish

SPA 263 Introduction to Hispanic Film and Culture

3 cr, 3 lec C

An introduction to cultural issues, literary and film theory through the study of Hispanic films. This course concentrates on Peninsular Spanish and Latin American productions in order to give the student a better understanding of geographical, historical, and ethnic differences of Hispanics.

PRE: SPA 202 or 204 or near-native fluency in Spanish and ENG 101 eligibility or completion of RDG 121 or appro-

prate reading score or high school equivalency from a Spanish speaking country

SPA 265 Survey of Spanish and Spanish-American Literature

3 cr, 3 lec C

Survey of selected literature from Spain and Spanish-America. Study of literary movements includes poetry, prose, and drama.

PRE: SPA 260 or 261

NOTE: All course work is in Spanish

SPC 110 COM 1100 Introduction to Speech Communications

3 cr, 3 lec G

A broad study of how and why people communicate. Emphasis is on the development of basic skills and understanding in interpersonal communications and rhetorical analysis. Instruction is given in the fundamentals of informative speech, persuasion, group communication, argumentation, rhetorical analysis, and mass communications media.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SPC 160 Public Speaking Practicum

1 cr, 1 lec

Prepares students to participate in platform speaking and oral interpretation. **R**

SPC 215 Public Speaking

3 cr, 3 lec G

The development of skills, attitudes, and understandings that aid the individual in various communication situations: person-to-person communication, public speeches, discussions, and report presentations with the special emphasis on the study of the various principles of speech composition, audience analysis, and techniques of public address.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

SPC 271 Group Communication

3 cr, 3 lec G

This course provides students with theory and practice of communication as applied to various large and small group contexts.

PRE: ENG 101 eligibility or completion of RDG 121 or appropriate reading score

STU 210 Transfer Strategies

2 cr, 2 lec

Strategies for successful transfer to a four-year university.

NOTE: Designed for students ready to transfer or who are interested in exploring transfer strategies.

TEC 100 Core Curriculum Introductory Craft Skills

(same as ACR 100, CTM 100, ECT 100, MFG 100, PCT 100, and WLD 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

TEC 101 Safety Orientation

1 cr, 1 lec

A course in the development of a specific body of knowledge pertaining to established Occupational Safety and Health Standards. Focus is on the practical application and interpretation of appropriate safety and health standards to develop the ability to recognize potential hazardous conditions. Of high priority are the acquisition of a positive attitude for safety and the practical application of standards, specifications, and guidelines to implement safe procedures and practices in the workplace, home, and immediate surroundings.

TEC 105 Portfolio Development

4 cr, 1 lec, 6 lab

This course is designed to help students involved in the technological field develop a portfolio that details those prior-learning experiences that may be considered for college credit at Arizona Western College.

TEC 111 Private Pilot Ground School

3 cr, 3 lec

Prepares the student for the private pilot written examination. Airplane systems, meteorology, federal aviation regulations, aeronautical charts, radio navigation, the flight computer, and other topics are covered in sufficient depth that the passing student can pursue an aviation career or personal flying goal with a well-rounded background of knowledge.

TEC 120 Theory of Weatherization Tactics for New and Existing Buildings

3 cr, 3 lec

Basic concepts used for building weatherization technology using the NCCER Contren© Learning Series standardized curriculum.

TEC 121 Application of Weatherization Tactics for New and Existing Buildings

2 cr, 1 lec, 2 lab

Basic concepts and skills used for building weatherization technology using the NCCER Contren© Learning Series standardized curriculum.

TEC 140 Roofing Systems and Safety

2 cr, 1 lec, 2 lab

Focus is on the practical application and interpretation of appropriate safety and health standards relating to roofing systems, construction methods and materials for solar panel installation; this includes an introduction to established Occupational Safety and Health Standards.

TEC 165 Employee and Occupational Safety

3 cr, 3 lec

A Course in the development of a specific body of knowledge pertaining to established Occupational Safety and Health Standards. Focus is on the practical application and interpretation of appropriate safety and health standards to develop the ability to recognize potential hazardous conditions.

TEC 175 Employee and Occupational Safety 2

3 cr, 3 lec

Development of a specific body of knowledge pertaining to established Occupational Safety and Health Standards. Focus is on the ability to serve as a resource to site management on safety, health, and in some cases, environmental regulations.

PRE: TEC 165

TEC 250 NCCER Instructor Certification Training

1.5 cr, 1.5 lec

A specific course for construction or industrial maintenance craft instructor certification through the National Center for Construction Education and Research (NCCER) instructor certification training.

NOTE: *Craft/Technician Instructor candidates must have experience at a minimum of journey level or technician level in their area of expertise, or they must have a minimum of three years experience as a certified teacher in a vocational/technical construction, maintenance- or pipeline-related training program and be recommended by an NCCER ATS (accredited training sponsor) to take the course.*

THE 101 Survey of Theatre History

3 cr, 3 lec H

Intended as an introductory course. Samples plays, production styles, and personalities from ancient Greece to the mid-nineteenth century. Units of

study include Greco-Roman drama, Medieval drama, Renaissance theatre, Neoclassic, and Romantic styles.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

THE 102 History of Contemporary Theatre

3 cr, 3 lec, H

Intended as an introductory course. Beginning study of major dramatic styles and production techniques of the twentieth century.

PRE: *ENG 101 eligibility or completion of RDG 121 or appropriate reading score*

THE 130 Stagecrafts

3 cr, 1 lec, 4 lab

Study and practice in the rudiments of scene construction, set decoration, and stage lighting.

THE 171 Acting 1

3 cr, 3 lec

Rudiments of acting for the stage. Course work includes exercises, improvisations, and scene study to develop a basic understanding of the actor's tasks, terminology, and methods in modern theatre.

THE 172 Acting 2

3 cr, 3 lec

Exercises in improvisation, rehearsal technique, vocal, and physical development for stage performance.

PRE: THE 171

THE 213 Creative Drama

3 cr, 3 lec

A one semester course that introduces the student to the theory and practice of improvisation, role playing, mime, puppetry, playwriting, and program development in drama and their application to elementary and secondary school levels.

THE 215 Basic Stage Lighting*3 cr, 2 lec, 2 lab*

Instruction and practice with operation and maintenance of basic stage lighting instruments, equipment, and tools. Intended to accommodate special interests and needs in use and development of local staging facilities.

THE 222 Voice and Diction*3 cr, 3 lec*

This course introduces the student to study and training in basic voice production. Included will be instruction in proper breathing techniques, sound production, kinesics, general speech standards, and common voice problems. This course will promote development of naturalness and flexibility in the speaking voice.

THE 242 Introduction to Oral Interpretation*3 cr, 3 lec*

The course examines theory and practice in the art of reading literature orally. Students will be given the opportunity to discover emotional and intellectual meanings, and convey them through voice and body.

THE 250 Rehearsal and Production*1-3 cr, 1 lec, 3-5 lab*

This course involves participation in theatre productions. Registrants comprise the casts, technical crews, publicity, and management personnel for AWC Theatre public events. Events include guest performing artists and home productions each semester. **R**

TVP 125 Television Production 1*4 cr, 3 lec, 2 lab*

Introduces theory, basic techniques, and equipment for television production and provides an overview of the process from script to postproduction in the field and studio. Course includes lab sessions to design, shoot, and edit film productions.

TVP 150 Television**Studio Operations 1***3 cr, 2 lec, 3 lab*

Familiarizes students with the methods and techniques of the operation of television studio production equipment, as well as the preparation of a message or program and timely preparation of a program production plan.

TVP 160 Television**Studio Operations 2***3 cr, 2 lec, 3 lab*

Enables students to improve the methods and techniques of the operation of television production equipment and to implement the preparation and completion of a message or program for television broadcasting.

TVP 170 TV Control Room Operation*3 cr, 2 lec, 2 lab*

Introduces students to the operations of a television control room. It will provide a foundation for students in all phases of control room use including directing, technical directing, Chyron operation, audio console use, and video tape playback. The course involves students in hands-on training in all facets of control room operations.

PRE: TVP 125**TVP 225 Television Production 2***3 cr, 2 lec, 2 lab*

Involves extensive and advanced theory and techniques of television production in studio and field settings. Course emphasizes individual responsibility for design and implementation of television projects.

PRE: TVP 125**TVP 250 Video Post Production***3 cr, 2 lec, 2 lab*

Familiarizes students with theory and principles of editing and the use of a non-linear editing systems. It gives students the opportunity to perform

the functions of an editor using a computer-based non-linear editing system.

PRE: TVP 125 and TVP 225**WED 70 Topics in Wellness***.5-3 cr, 0-1 lec, 1-6 lab*

Workshops for individual exploration in wellness. Designed for the enrichment needs of the student who is not seeking transferable credit. **CR/NC**

WED 100 Five Element Chinese Medicine*2 cr, 1 lec, 2 lab*

An overview of Five Element Chinese Medicine. This classical oriental philosophy views the world as a combination of earth, sun, air, water and growth. Five Element methodology offers a framework to identify the root of suffering and the source of their wholeness.

WED 102 Overview of Herbal Remedies*2 cr, 2 lec*

History and evolution of herbal remedies. Preparation, usage and effects of certain herbs used for healing purposes. Reviews basic literature in the area of herbal medicine.

WED 104 Massage Techniques for Family Use*1 cr, .75 lec, .5 lab*

Students will learn basic massage techniques to be used at home, appropriate for the entire family. Swedish massage and acupressure techniques will be presented. **CR/NC**

NOTE: Students must sign a general health and liability waiver at the first class before they will be allowed to participate. Students must enroll with a partner to practice techniques.

WED 108 Flower Essences

2 cr, 2 lec

This course explores the healing properties of Bach flower remedy development and his philosophy of healing; use and preparation of a variety of flower essences.

WED 109 Humor and Play

2 cr, 2 lec

Physiological, psychological, emotional, and intellectual effects of humor and play; suggestions for planning periods of play and incorporating it into one's life.

WED 110 Concepts of Wellness

3 cr, 2 lec, 2 lab

The mind, body, spirit connection will be explored based on a multidimensional model of wellness.

WED 112 Exploring Native American Medicine

3 cr, 2 lec, 2 lab

An introduction to a variety of concepts and approaches to healing in various Native American traditions and teaching methods.

WED 117 Introduction to Aromatherapy

1 cr, 1 lec

The physiology of aromatherapy; methods of use; preparation of oils; uses in sports, beauty care, massage, childcare, healthcare, at work, and in the home.

WED 121 Introduction to Energy Therapy

1 cr, 1 lec

Introduction to energy therapies and the role of energy work in promoting health and preventing illness.

WED 122 Meditation and Wellness

2 cr, 2 lec

Introduction to meditation methods and their relationship to wellness.

WED 212 Stress Management

2 cr, 1 lec, 2 lab

Causes and effects of stress and potential solutions to stress-related problems.

WED 218 Advanced Herbal Remedies

3 cr, 2 lec, 2 lab

Historical and current usage of herbal medicines throughout different cultures and how they are made.

PRE: WED 102

WED 223 Applied Aromatherapy

3 cr, 3 lec

Learn the bio-chemical class of oil structure, define essential oil safety in physical and emotional situations, know botanical name of plant families, proper application of oil to body systems and integrated aromatic applications, proper use of essential oils in complementary/alternative healing modalities.

WLD 100 Core Curriculum Introductory Craft Skills

(same as ACR 100, CTM 100, ECT 100, MFG 100, PCT 100, and TEC 100)

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/industrial maintenance craft skills.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

WLD 101 Math Applications for Welders

3 cr, 3 lec

Math concepts for basic welding construction and fabrication including addition, subtraction, division, fractions, decimals, geometry and some trigonometric functions for calculating angles for layout and fabrication of structural steel plate and pipe connections.

PRE: ENG 100 eligibility or reading score of 61 or higher on the reading placement test

WLD 102 Welding Sculpture Work

3 cr, 1 lec, 4 lab

Fundamental theory and practice associated with oxy fuel welding, shielded metal arc welding, and gas metal arc welding processes used to fabricate a welded sculpture.

WLD 103 Blacksmithing and Ornamental Iron Work

3 cr, 1 lec, 4 lab

Basic concepts of ornamental iron fabrication and related blacksmithing techniques used to shape metal. Course will include history of ornamental ironwork through lab activities, internet, and traditional sources of information. Students will be able to choose from a number of projects and forge them to completion.

WLD 104 Techniques in Flux Core Arc Welding

3 cr, 1 lec, 4 lab

Skills and techniques necessary for industrial practice of Flux Core Arc Welding.

WLD 105 Techniques in Oxyacetylene Welding and Cutting

3 cr, 2 lec, 2 lab

Industrial practices of oxyacetylene welding, brazing, soldering, surfacing, and cutting.

WLD 106 Techniques in Shielded Metal Arc Welding

3 cr, 2 lec, 2 lab

Industrial practices of the shielded metal arc welding process.

WLD 108 Techniques in Gas Tungsten Arc Welding*3 cr, 2 lec, 2 lab*

Industrial practices of gas tungsten arc (TIG-Heliarc) welding.

WLD 109 Techniques in Gas Metal Arc Welding*3 cr, 2 lec, 2 lab*

Industrial practices of gas metal arc (MIG-Wirefeeders) welding (GMAW).

WLD 123 Manufacturing/Welding Technology Survey*3 cr, 2 lec, 3 lab*

Career development in manufacturing/welding technology. Emphasis on manufacturing, welding, technical vocabulary, materials, industry standards, specifications, industrial safety, technical drawings, basic physical metallurgy, equipment, and codes.

PRE: MAT 105 eligibility and a reading score of 65 or higher or instructor permission required

COREQ: WLD 105 and MFG 195

WLD 124 Arc Welding Processes and Power Sources*3 cr, 2 lec, 3 lab*

Career development as a welding technician, welder, lab technician, engineering aide, sales and service representative, or mid-manager. Emphasis is on the knowledge of "arc" welding processes, theory of Shielded Metal Arc Welding (SMAW), power sources and equipment, base and filler materials, welder and procedure qualification and certification.

PRE: MAT 105 eligibility and a reading score of 65 or higher or instructor permission required

COREQ: WLD 106

WLD 125 Welding Design, Layout, and Fabrication*3 cr, 2 lec, 3 lab*

The study and implementation of welding design and layout. Emphasis

will be on product design, component layout, structural shapes and weldments, technical drawings, procurement, and problem solving in welding fabrication.

WLD 127 Welder Certification and Code Application*6 cr, 2 lec, 8 lab*

Preparation for welder certification under the specific code: AWS D-1.1.

PRE: WLD 106

WLD 128 Welder Certification and Code Application Open Root*6 cr, 2 lec, 8 lab*

Skills and techniques necessary for certification under American Welding Society: Open Root.

PRE: WLD 106

WLD 224 Technical Specialized Welding Process*3 cr, 1.5 lec, 3 lab*

Acquisition of knowledge associated with welding applications and processes to include plasma arc welding, resistance seam and spot welding, submerged arc welding, electroslag welding, laser beam welding, and electron beam welding; with special emphasis on the set up and use of submerged arc welding and gas metal arc welding automation equipment. Student will develop welding procedures for weld automation applications using robotic welding equipment and the use of welding simulation technology.

PRE: MAT 105 eligibility and a reading score of 61 or higher or ENG 100 eligibility

COREQ: WLD 109



Directory of Departments

Academic Complex Computer Lab
(ACCL). (928) 344-7796

Academic Library (Reference Desk) . . (928) 344-7777

 Acquisitions (928) 317-6435

 Circulations (928) 344-5884

 Interlibrary Loan (928) 344-7733

 Off-campus Services (928) 344-7776

 Reserve and Overdue (928) 317-5884

Admissions and Registration Office . . (928) 344-7550

Advisement Services Office (928) 344-7624

Assessment and Program Review. . . . (928) 344-7651

Athletic Programs (928) 344-7536

Bookstore (Barnes and Noble) (928) 344-7583

Business and Computer Information Systems
Division (928) 344-7789

Business Services. (928) 344-7700

Bus Service (928) 344-7576

Campus Life Department. (928) 344-7576

Campus Police. (928) 314-9500

Career and Technical
Education Division. (928) 344-7567

Career Development (928) 344-7604

Cashier (928) 344-7700

Center for Teaching Effectiveness
(CTE). (928) 344-7757

Child Care/Child Learning Lab (CDLL) . (928) 344-7564

College Publications Office (928) 314-9591

Communications Division. (928) 344-7591

Conference and Events (928) 344-7716

Construction Trades Center (928) 344-7510

Continuing Education (928) 317-6180

Dean of Admissions and Enrollment
Services. (928) 317-7618

Dean for Career and Technical
Education (928) 344-7769

Dean for Continuing Education (928) 317-6178

Dean of Admissions and Enrollment
Services. (928) 317-7618

Dean of Instruction Office (928) 344-7519

Fine Arts Division (928) 344-7591

Food Services (Sodexo) (928) 344-7575

Director of Financial Services. (928) 344-7526

Director of Treasury Services (928) 344-7530

Entrepreneurial Center (928) 317-6150

Facilities Management. (928) 314-9472

Financial Aid Accounting (928) 344-7532

Financial Aid and Scholarships
Office (928) 344-7634

Foundation Office (928) 344-1720

Health and Wellness (928) 344-7602

Honors Center. (928) 344-7685

Human Resources (928) 344-7504

Interactive Television Network (ITN) . . .	(928) 317-6414
International Students Program	(928) 317-7678
KAWC Radio Office	(928) 344-7690
Mail Room.	(928) 344-7511
Mathematics Division.	(928) 344-7656
Modern Languages Division.	(928) 344-7591
Parker Learning Center (On-Campus Ext.)	49560 (928) 669-2214
Print Services.	(928) 314-9580
Public Relations and Marketing Office	(928) 314-9594
Purchasing.	(928) 314-9518
Quartzsite Learning Center	(928) 927-8299
Residential Life Office (Housing)	(928) 344-7578
San Luis Learning Center	(928) 314-9449
Science Division	(928) 344-7656
Social Sciences Division.	(928) 344-7789
Somerton Center.	(928) 314-9464
Student Activities	(928) 317-7611
Student Government (SGA)	(928) 317-7611
Student Success Center.	(928) 317-6029
Technical Support/HelpDesk	(928) 317-5892
Television Services.	(928) 317-5895
Testing Center.	(928) 344-7641
Transfer Services Office	(928) 344-7638
Vice President for Finance and Administrative Services	(928) 344-7521
Wellness and Physical Education	(928) 344-7789
Wellton Learning Center	(928) 785-4175



Faculty

Professors & Counselors Emeriti

Adjunct Faculty

Classified Staff

College Officers

District Governing Board

Professional and Administrative Staff

Faculty & Staff

FACULTY

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Celia Roman, Administrative Secretary

Michael Rose, Senior Graphic Designer

Juan Ruiz-Soto, Custodian

Luis Salas, Automotive Laboratory Technician

Cesar Sanchez, Technology Support Technician

Robert Schroeder, Technology Support Technician

John Shinn, Custodian

Maria Sierra, Custodian

Jorge Silva, Police Officer

John Skeens, Utility Mechanic Apprentice

Brandon Smith, Technology Support Technician

Pat Stapleton, Custodian

Steven Stevenson, Facilities Supervisor - La Paz

Marie Stubbs, Administrative Secretary

Caryl Thompson, Police Officer

Matthew Tillery, Groundskeeper
Roger Torres, Mailroom/Receiving Clerk
Eleazar Torres Calderon, Custodian
Teresa Tozer, Center Assistant, La Paz
Michele Urena, Senior Secretary
Salvador Urena, Carpenter Supervisor
Josefa Uriarte, Center Assistant, Wellton
Azucena Valenzuela, Registration Clerk
Nobemi Valtierra, Senior Secretary
Karyn Van Why, Administrative Assistant/Travel Supervisor
Rosa Vargas, Dispatch Supervisor
Sergio Velez, Building Services Technician
Maria Venegas, Custodian
Albany Villarreal, Police Dispatcher
Rosa Villegas, Senior Secretary
Vanessa Weaver, Accounts Receivable Specialist
Julia Williamson, Library Specialist, Circulation
Arcadia Willis, CDLL Infant/Toddler Teacher
Alyssa Wilson, Clerk II, La Paz
Rose Wingfield, Accounting Specialist
Connie Wofford, Accounts Payable Supervisor
James Worley, Police Sergeant
Ramon B. Zazueta, Building Services Technician
Ramon C. Zazueta, Custodian

PRESIDENT'S CABINET

Dr. Glenn Mayle, President; B.S., 1967, Arizona State College; M.A., 1969, Ed.D., 1984, Northern Arizona University

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DISTRICT GOVERNING BOARD

Dennis Booth, President, Yuma County

Olivia Zepeda, Secretary, Yuma County

Maria Chavoya, Member, Yuma County

JoAnne Ehasz, Member, La Paz County

Melissa Wright, Member, La Paz County

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Richard Colwell, Director of Law Enforcement Training Academy

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Ernest Yates, Instructional Designer

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Susanna Zambrano, Advising and Student Services Coordinator; A.A., 2004, Arizona Western College; B.S., 2007, M.Ed., 2011, Northern Arizona University

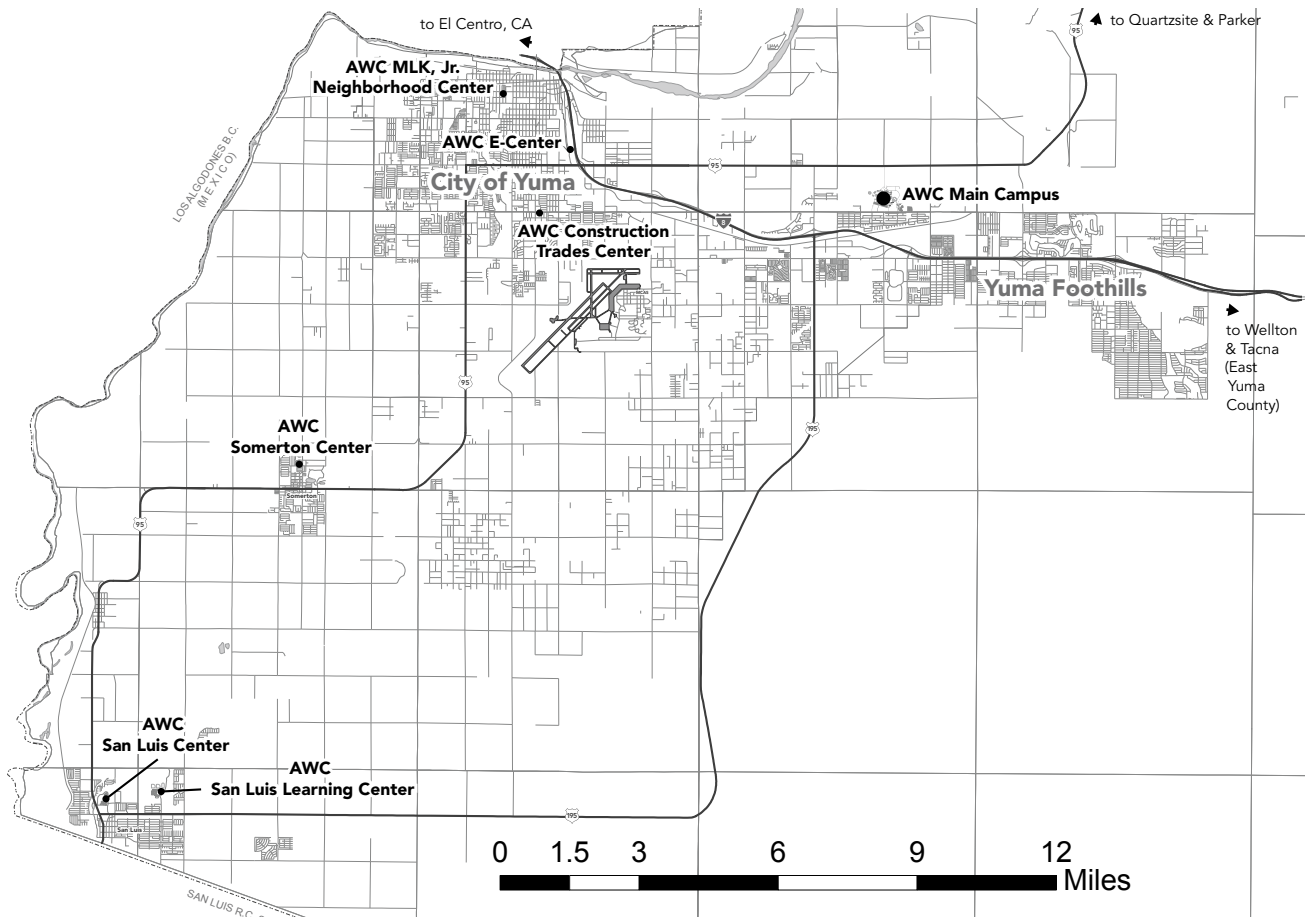
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Elizabeth Zavala, Vocational Coordinator

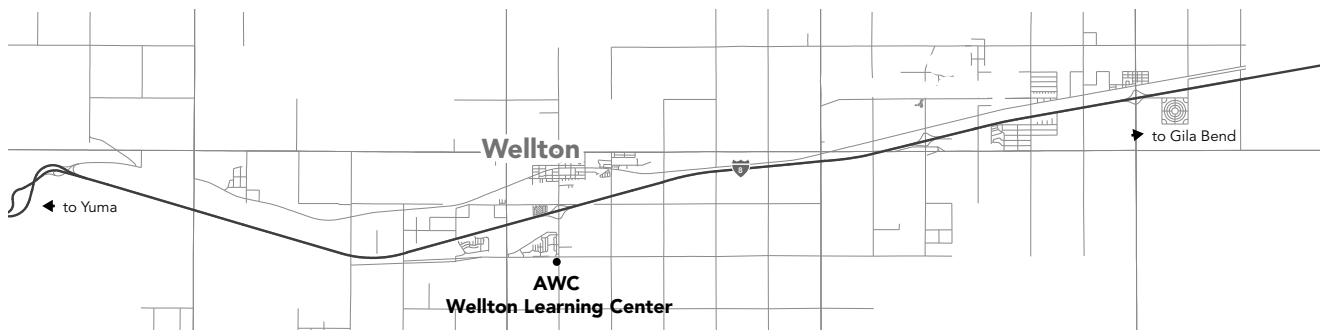


Campus Maps/Centers

YUMA METRO & SOUTH YUMA COUNTY AREA



EAST YUMA COUNTY AREA



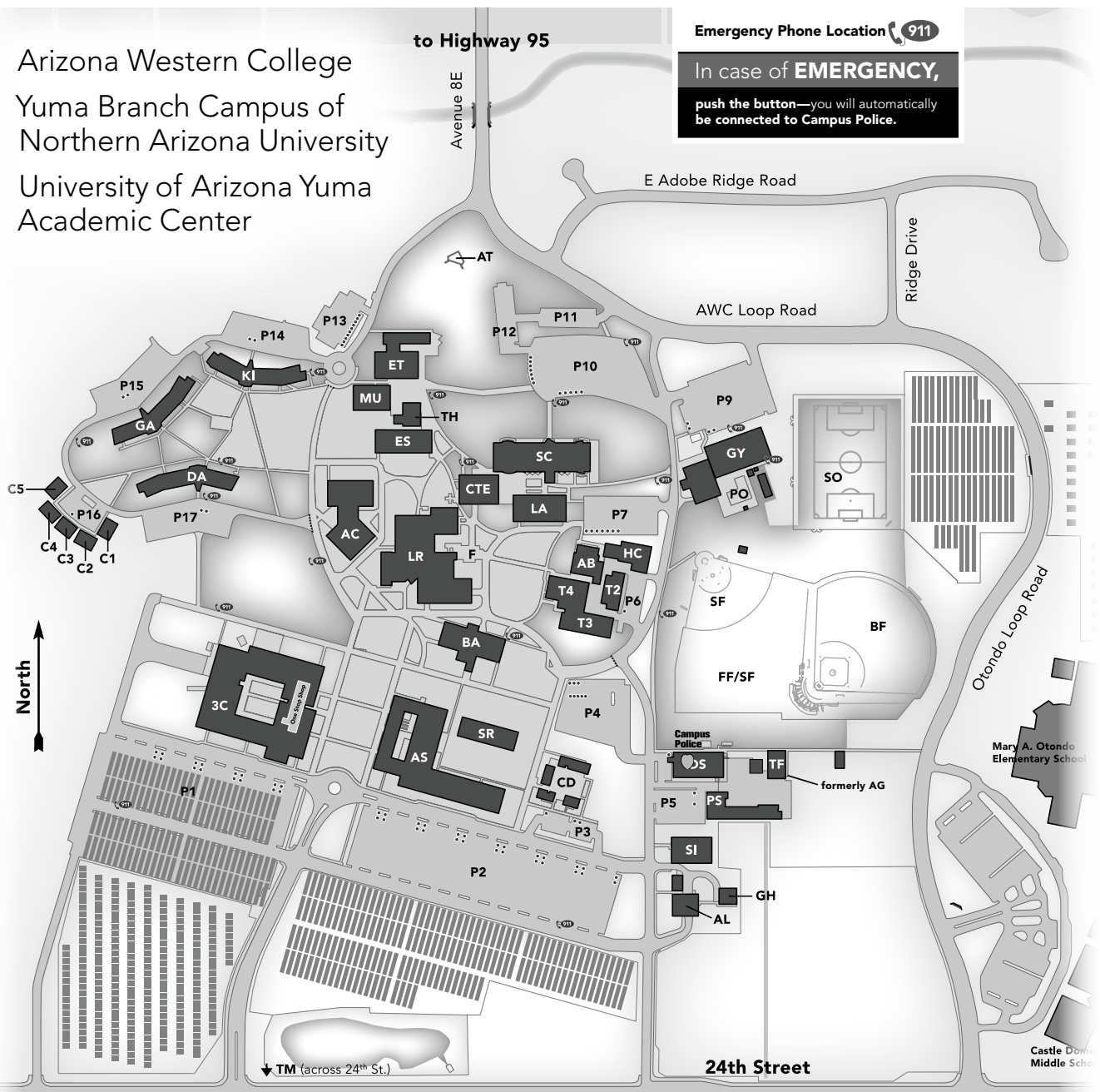
LA PAZ AREA



AWC MAIN CAMPUS

2020 S. Avenue 8E | Yuma Arizona 85365-8834 | (928) 317-6000



Arizona Western College
Yuma Branch Campus of
Northern Arizona University
University of Arizona Yuma
Academic Center



Emergency Phone Location 911
In case of **EMERGENCY**,
push the button—you will automatically
be connected to Campus Police.

- 3C** College Community Center (Schoening Conference Center)
- AB** Art Building
- AC** Academic Complex
- AL** Agriculture Research Lab
- AS** Agriculture and Science
- AT** Amphitheater
- BA** Business Administration
- BF** Kammann Baseball Field
- C 1-5** Cottages 1-5 (C1 Health Services)
- CD** Child Development Learning Lab
- DA** DeAnza Hall
- DS** District Services (Campus Police)
- ES** Educational Services

- ET** Engineering Technology
- F** Fountain
- FF** Football Field
- GA** Garces Hall
- GH** Greenhouse Complex
- GY** Gymnasium
- HC** Heating and Cooling
- KI** Kino Hall
- LA** Liberal Arts
- LR** Learning Resources
- MU** Music
- P1-17** Parking Lots
- PO** Pool
- PS** Postal Services

- SC** Student Success Center (Math & Writing Centers)
- SF** Softball Field
- SI** Safety Institute
- SO** Soccer Field
- SR** NAU Research & Education
- T2** Technology 2 (Welding)
- T3** Technology 3 (Auto Mechanics & Print Services Lab)
- T4** Technology 4 (Computer Graphics)
- TF** Trades/Football
- TH** Theater
- TM** Tamarack Center
-  Handicap Parking
-  Wheelchair Access

Campus Centers

OTHER AWC CAMPUS CENTERS

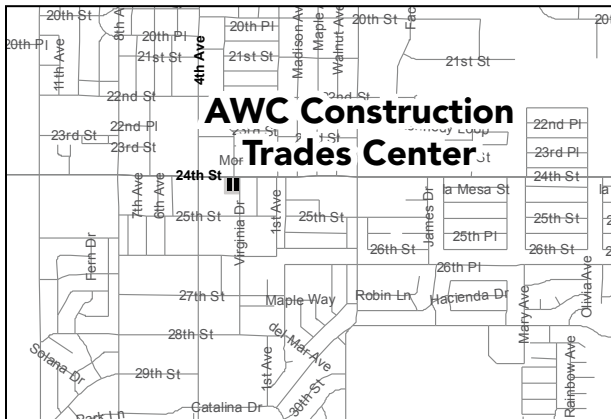
In addition to the many services provided to on-campus students, AWC supports the Yuma and La Paz communities by offering scholarship foundations, economic development and workforce training programs, small business development programs, and community learning centers. AWC centers are located throughout the two-county area to provide local access to college courses and degree programs offered at Arizona Western College. Academic Services oversees various offices and programs off-campus.

Construction Trades Center

281 W. 24th Street
Yuma, AZ 85364
(928) 344-7510

The Construction Trades Center is located in Century Plaza, located at the corner of 24th Street and Virginia Drive. Day and evening courses are available.

These facilities provide “hands-on” experience working with materials, tools, and equipment. For general information and current schedule please call (928) 344-7510.



Entrepreneurial Center (E-Center)

1351 S. Redondo Center Drive
Yuma, AZ 85365
(928) 317-6150

www.azwestern.edu/continuing

Located near Historic Downtown Yuma, the E-Center is the hub of the college's non-traditional and continuing education services. Providing a customer-friendly environment, the center includes nine classrooms, four computer labs, and web-conferencing capacity. Class registration and payment services are available for credited and non-credited courses. Current schedules for classes, seminars, and special events for the E-Center are located on the Arizona Western College website at www.azwestern.edu.

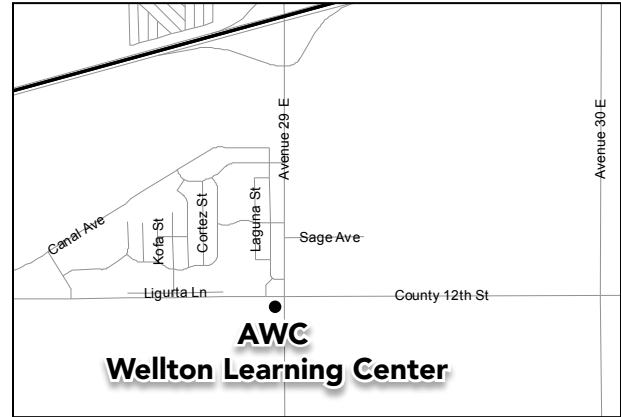
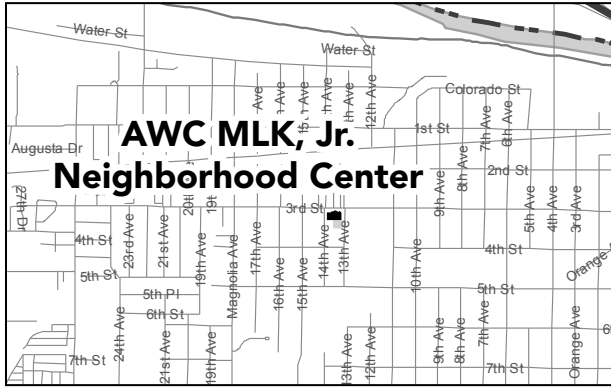
- Adult Education/GED instruction
- Continuing Education CEUs and professional development certificates
- Small Business Development Center (SBDC)
- Workforce Investment Act (WIA Job Training Program)
- Customized and contracted training services



Martin Luther King Jr. Neighborhood Center

300 S 13th Avenue
Yuma, AZ 85364
(928) 317-7607

Arizona Western College staffs an office and computer lab within the Martin Luther King Jr. Neighborhood Center. The office is open from Monday – Thursday 8 a.m. to 12 noon to provide AWC placement testing by appointment. The computer lab is open for AWC students during these hours.



MCAS/YPG

Marine Corps Air Station-Yuma

Bldg 852 Education Center Room 112
(928) 317-7605

Yuma Proving Ground

Bldg 501 Education Center
(928) 328-3926

In partnership with Marine Corps Air Station Yuma and Yuma Proving Ground, AWC provides comprehensive student services for the members of the Department Defense at the military installations. Various classes are offered at these locations to meet the unique needs of military students. Please refer to the AWC website "Schedule of Classes" for current course listings.

Easy Yuma County

Wellton Learning Center

28851 County 12th Street
Wellton, AZ 85356
(928) 785-4175

AWC has a Learning Center in Wellton. This center offers classes supporting General Education, Adult Basic Education, and English as a Second Language. The center features the latest technology including video conferencing and computer labs. Classes are taught in person and via Interactive Television Network (ITN). For more information, call the East Yuma County Coordinator at (928) 785-4175.

South Yuma County (San Luis and Somerton)

San Luis Learning Center

1340 8th Ave.
San Luis, AZ 85349
(928) 314-9449

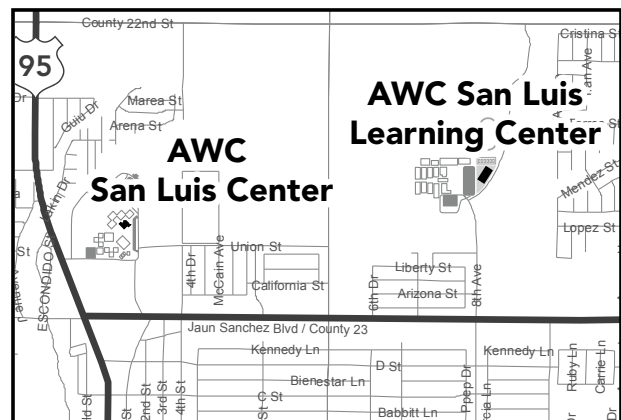
San Luis Center (in the S.L. Middle School)

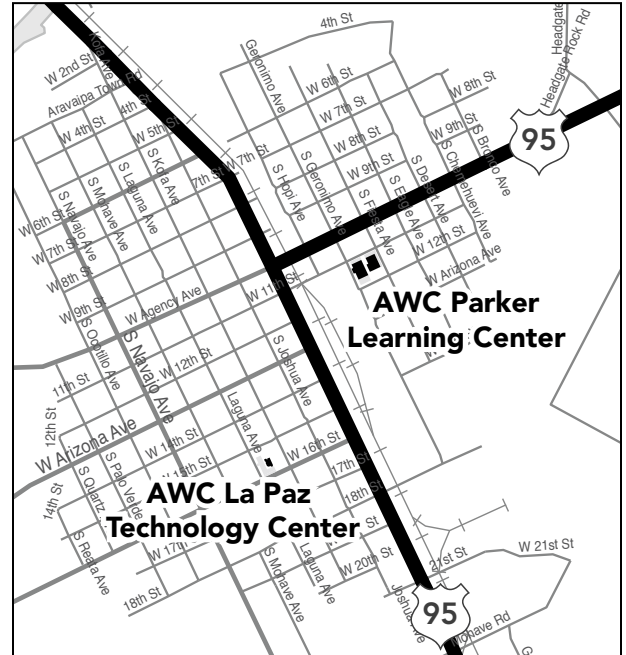
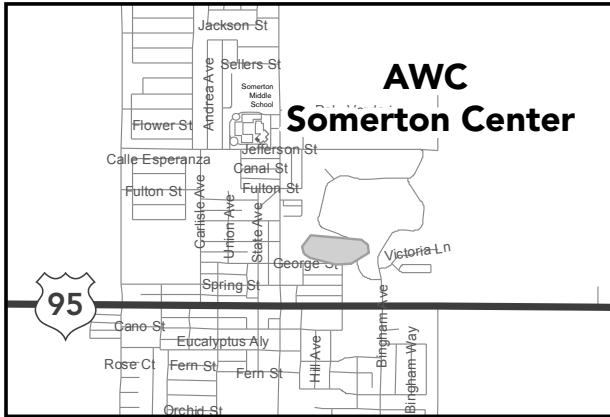
San Luis, AZ 85349
(928) 314-9449

Somerton Center (in the Somerton Middle School)

1011 N. Somerton Avenue
Somerton, AZ 85350
(928) 314-9464

AWC has the San Luis Learning Center (located next to the high school) and has centers at both middle schools in San Luis and Somerton. These centers offer Adult Basic Education, developmental, occupational, and General Education courses as well as an extensive English as a Second Language course of study.





La Paz County

Parker Learning Center

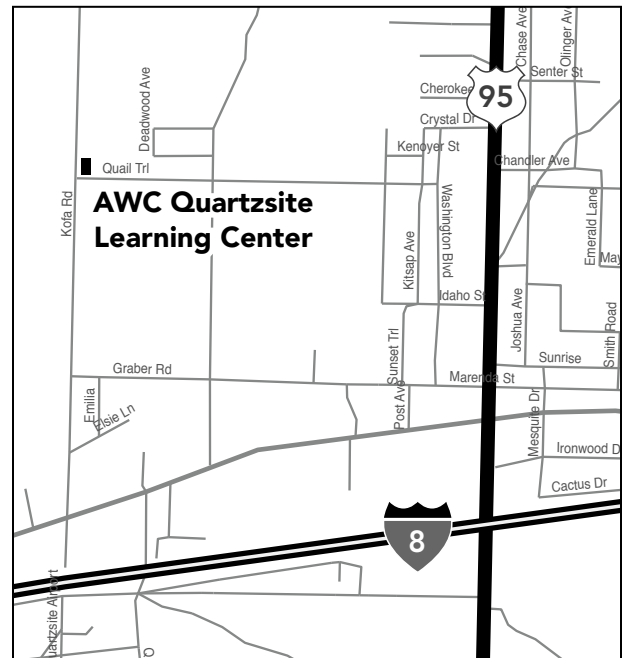
1109 S. Geronimo
 Parker, AZ 85344
 (928) 669-2214

Quartzsite Learning Center

695 N. Kofa Avenue
 Quartzsite, Arizona 85346
 (928) 927-8299

AWC has facilities in Parker and Quartzsite. AWC also offers classes in the towns of Salome, Wenden, Bouse and Ehrenberg. AWC offers a full array of services in La Paz County that can be utilized independently or in conjunction with Main Campus services.

Availability of courses may vary based on community needs. Please refer to the AWC website "Schedule of Classes" for current semester course listings.



Comprehensive Index

COMPREHENSIVE INDEX

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