## Arizona Western College

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www.azwestern.edu



About the 2021–2022 AWC Catalog

The contents of this catalog supercedes the content specified in the 2020–2021 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, religion, sex (including pregnancy, gender identity, and sexual orientation), national origin, age (40 or older), disability or genetic information or handicapping condition in compliance with the laws of the United States and the state of Arizona. 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:

Ms. Karen Johnson Chief Human Resources Officer P.O. Box 929 Yuma, AZ 85366-0929 (928) 344-7505

#### ACCREDITATION

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

The Higher Learning Commission 230 South LaSalle Street, Suite 7-500 Chicago, IL 60604-1411

(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 any persons is prohibited.

## TOBACCO FREE SCHOOLS AND CAMPUSES

**July 1, 2014,** Arizona Western College joined 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 New Students With Disabilities Resources and Service Information statement:

Arizona Western College seeks to provide reasonable accommodations for students with documented disabilities in order to facilitate access to College classes and activities. Students seeking such an accommodation should make an official request at AccessABILITY Resource Services located in the College Community Center (3C) on campus or at <a href="http://azwestern.edu/accessability.">http://azwestern.edu/accessability.</a>

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:

Ms. Karen Johnson Chief Human Resources Officer P.O. Box 929 Yuma, AZ 85366-0929 (928) 344-7505

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## TITLE-IX STATEMENT:

## Title IX of the Education Amendments Act of 1972 provides that:

"No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance..." Title IX - 20 U.S.C. § 1681

In compliance with Title IX, Arizona Western College prohibits discrimination on the basis of sex in admissions, recruitment, education, employment, enrollment, as well as in the provision of all services, programs and activities.

Consistent with these values and applicable laws, Arizona Western College maintains a comprehensive program designed to protect members of the College community from discrimination on the basis of sex or gender.

Arizona Western College's Title IX Coordinators monitor compliance with applicable laws and coordinate the institution's response to complaints of discrimination based on sex. The Title IX Coordinators will ensure that complaints of this nature are addressed by the appropriate College representatives and will assist complainants and respondents with supportive measures and resources if and when they may be warranted.

Questions about Title IX, and information about how someone may report or file a formal complaint about an alleged violation of Title IX is encouraged. to contact one of Arizona Western College's Title IX Coordinators identified below

#### Arizona Western College Title IX Coordinators

#### Ms. Karen Johnson

PO Box 929, Yuma, AZ, 85366-0929, (928) 344-7505 Email: AWC-Title-IX@azwestern.edu

Web: https://azwestern.edu/titleix

#### Dr. Nikki Hage

PO Box 929, Yuma, AZ, 85366-0929, (928) 344-7576

Email: AWC-Title-IX@azwestern.edu Web: https://azwestern.edu/titleix

Alternatively, or in addition to the Title IX Coordinators, inquiries may be directed to the U.S. Department of Education's Office for Civil Rights, the federal agency charged with enforcing compliance with Title IX:

#### U.S. DEPARTMENT OF EDUCATION

#### Headquarters

400 Maryland Avenue, SW, Washington, DC 20202-1100

Customer Service Hotline #: (800) 421-3481 | Facsimile: (202) 453-6012

TTY#: (800) 877-8339 | Email: OCR@ed.gov | Web: http://www.ed.gov/ocr

### Arizona State Local Office for Civil Rights

#### **Denver Office**

U.S. Department of Education

Cesar E. Chavez Memorial Building

1244 Speer Boulevard, Suite 310, Denver, CO 80204-3582

Telephone: (303) 844-5695 | Facsimile: (303) 844-4303 | Email: OCR.Denver@ed.gov

Arizona Western College's Policies and Procedures relating to Title IX may be accessed online: https://www.azwestern.edu/titleix

## A Message from the President

Welcome to Arizona Western College! AWC is YOUR community college with faculty and staff prepared to support you advance your educational goals. I hope this catalog will provide you with the information you need to take this most important step in your life.

AWC has provided an excellent collegial environment for almost sixty years. The college serves a diverse student population with multiple learning centers across Yuma and La Paz counties. Arizona Western College is proud of our talented faculty, dedicated support staff and state-of-the-art instructional facilities. Our students are literally surrounded by opportunities to learn and enrich their lives both inside and outside the classroom. Your experience at AWC will also include numerous opportunities for involvement and growth. There are student activities and organizations, service-learning opportunities, cultural and artistic events, a full range of athletic competitions in addition to forums, workshops and speakers. There is always something going on at AWC!

As an expression of Arizona Western College's commitment to our students, the following Student Experience statement was adopted in December 2017.

Arizona Western College commits to delivering an amazing student experience characterized by:

- A connected community within which students are encouraged, challenged and feel they belong;
- Programs developed and aligned with employment opportunities;
- A clear path to success and completion;
- Flexible, accessible services and learning approaches;

in A Com

• Contemporary technology that supports and enhances the AWC experience

There has never been a better time to be an Arizona Western College Matador. I look forward to welcoming you to our Yuma campus or one of our learning centers in San Luis, Somerton, Parker, Quartzsite or Wellton. Regardless of where you study, we are committed to your success.

It is a great day to be a Matador!

Sincerely,



**Dr. Daniel P. Corr, President** Arizona Western College

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## 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 at http://www.azwestern.edu/Course\_Catalog.html.

## 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 mem-

bers 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 Arizona State University, The University of Arizona, , and several other accredited institutions of higher education.

In 2015, Arizona Western College became the first community college in Arizona to offer students inperson courses from all three state universities.

AWC enrollment has grown from 930 students in the Fall Semester of 1963, to more than 12,000 students (unduplicated headcount) a year.

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## ACADEMIC CALENDAR 2021-2022

More information on important dates pertaining to the academic calendar may be found on the Arizona Western College website at <a href="https://www.azwestern.edu/academic\_calendar">https://www.azwestern.edu/academic\_calendar</a>

## Fall Semester 2021

Classes Begin	Monday, August 16
Drop/AddMonday-	Friday, August 16–20
Labor Day	<b>No Classes</b> Monday, September 6
Last Day to WithdrawTI (16 week classes)	nursday, November 4
Veterans DayTh	<b>No Classes</b> Jursday November 11
Thanksgiving Day	No Classes
	Thursday–Sunday
Novem	ber 25–November 28
Last Day of Classes T	hursday, December 2
Final Examination Week	Monday–Friday, December 6–10

## Spring Semester 2022

Classes BeginMonday, January 10
Drop/Add Monday–Friday, January 10–14
Birthday of Martin Luther King Jr <b>No Classes</b> Monday, January 17
Faculty Professional Development
Washington's Birthday
Spring Break
· -
Monday–Sunday, March 28–April 3  Last Day to Withdraw
Monday–Sunday, March 28–April 3  Last Day to Withdraw

## AWC Mission

Transforming lives through education and partnerships to create thriving communities.



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## 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 online 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 Associate Dean of Enrollment Services.

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

A student under age 18 shall not be denied admission because of age, lack of a high school diploma or high school certificate of equivalency, grade in school, lack of permission of school officials or lack of concurrent enrollment in a public or private school, if the student has

achieved at least a specified score on a college entrance examination.

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.

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.

Students under the age of 18 are required to complete an Underage Student Enrollment Agreement Form and have parent or guardian signed 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

#### F-1

International students are people who are not citizens or residents of the United States of America. These students come to the U.S.A. for the purpose of studying at an educational institution. An official I-20 document that is prepared by the designated school officer is required for the international students to obtain their F-1 student visa in order to study at a US institution.

To attend Arizona Western College, F-1 international students must:

- Have completed a secondary education previously.
- Complete and submit an international admissions application, signed by the applicant
- Submit secondary academic transcripts that are translated to English.
- Submit a 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.
- Submit a colored copy of passport page that has applicant's ID information for citizenship verification purposes.

Student planning to live in the resident halls must submit the following documents in addition to the college admission application:

- A resident hall application
- \$100 deposit
- Proof of MMR1 and MMR2 (measles, mumps, and rubella)

#### **Border Commuter**

AWC welcomes citizens from the bordering country Mexico in the "Border Commuter" status. These students are to commute from their country of Mexico to Arizona Western College to attend their class and commute back to Mexico when they are done with their classes for the day.

To attend Arizona Western College, Border Commuter international students must:

- Have completed a secondary education.
- Complete and submit an international admissions application, signed by the applicant
- Submit secondary academic transcripts that are translated to English.
- Submit a financial evidence to meet one-year college expenses at Arizona Western College
- Submit a colored copy of passport page that has applicant's ID information for citizenship verification purposes.

#### M-1

Arizona Western College is permitted to host M-1 students as well. The "M-1" visa is awarded to students for nonacademic or vocational studies for only one year; however, extension of the stay is possible if extra time is required to complete the selected program. The M-1 student visa applicants must have sufficient funds that are immediate-

ly available to pay all tuition and living costs for the entire period of intended stay which is one year

To attend Arizona Western College, M-1 visa candidates must:

- Have complete and submit an international application, signed by the applicant.
- 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.

Student planning to live in the resident halls must submit the following documents in addition to the college admission application:

- A resident hall application.
- \$100 deposit.
- Proof of MMR1 and MMR2 (measles, mumps, and rubella).

### 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. WUE status is determined based on information provided by the students on the admissions application.

#### 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 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. Applicants must 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; however preference for selection is given to students living in the three California counties (Imperial, Riverside, and San Bernardino) adjacent to the Colorado River.

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#### G. Former Student Admissions

Former students returning to the college after an absence of more than one year, 12 months (summer semester included), must complete a new application for admission with updated 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 residency determination.
- Enforcement of domicile requirements shall be the responsibility of the President of Arizona Western College. The President has designated the Associate Dean of Enrollment Services 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 Associate Dean of Enrollment Services 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 admission. 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 instate 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 and is able to provide necessary documentation to verify:
- 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 noncertified 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 instate student classification under this subsection if the spouse or dependent child qualifies for instate 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.
- 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

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- (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. 104-208l; 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, Permanent Residency or lawful immigration status will be subject to a higher tuition cost beginning with the first credit 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 helps 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 100level 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 make an appointment to speak with the Athletic Academic Services Coordinator at (928) 344-7624. The athletic Academic Advisor will work with you to establish a class schedule that will take into consideration, as much as possible, the established practice and game commitments.

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## Military Services Office (Active Duty Military Students)

AWC Military services offers comprehensive services for active duty military, DOD employees, and their families at MCAS-Yuma and the Yuma Proving Grounds. You may receive academic advisement and course registration assistance at both installations. Some in-person courses are also available at MCAS-Yuma. For more information contact the Military Services Office at (928) 317-7605 or visit our website at: www.azwestern.edu/enrollment/military-services

### Military Experience/Service School Credits

All external credits evaluated and posted onto Arizona Western College transcripts are considered a permanent record.

Arizona Western College accepts a maximum of 30 credits from non-traditional credit. When applicable, credit earned from Military training 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.

"A Guide to the Evaluation of Education Experience in the Armed Services" published by the American Council on Education (ACE) is the basis for evaluating the training and experiences in military service.

A course evaluation may be requested by submitting an official copy of appropriate documentation directly to Arizona Western College. To request military transcripts, select the appropriate branch below:

## Army/Coast Guard/Navy/Marine:

Joint Services Transcript (JST, Formerly SMART) can be requested at: https://jst.doded.mil/

#### Air Force:

Community College of the Air Force (CCAF) can be requested at: http://www.airuniversity.af.mil/

Students requesting an evaluation of their JST or CCAF Transcripts must submit a Request Form to the Military Services Office Bldg #850 Room #112 on MCAS Yuma. Students must also submit an online request for Evaluation of Credits. The request can be completed at: https://www.azwestern.edu/student-support/transfer-services. The process of evaluation may take up to three weeks once the request for evaluation and official transcripts have been submitted.

## My Career Advancement Account (MyCAA)-Active Duty Military Spouses

The My Career Advancement Account (MyCAA) Scholarship Program is a workforce development program that provides up to \$4,000 of financial assistance to eligible military spouses who are pursuing a license, certification or Associate's degree in a portable career field and occupation.

Spouses of service members on active duty in pay grades E-1 to E-5, W-1 to W-2 and O-1 to O-2 who have successfully completed high school and have the ability to request tuition assistance while their military sponsor is on Title 10 military orders are eligible. Spouses married to members of the National Guard and reserves in these same pay grades are eligible.

Students applying for My CAA benefits can only be certified for required courses within their objective-program of study (or major). Eligible students should select a program of study (approved by My CAA) prior to registration for classes.

All students using My CAA benefits must obtain an Education and Training Plan (E&TP) from the Military Service Office. An E&TP Request Form must be submitted to the Military Services Office Bldg #850 Room #112 on MCAS Yuma. All courses must be certified and approved by My CAA each semester.

## **Veteran Services Office**

The AWC Veteran Services Office is a liaison between the Department of Veterans Affairs and Veteran students, survivors or dependents of a veteran and all others, 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, such as tutorial assistance and/or Veteran 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 visit our website at **www.azwestern. edu/veterans.** 

## 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 benefits under Title 38 of the US Code (Chapters 30, 31, 32, 33, 35) 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 (VONAPP) may take up to 60 days for the Department of Veterans Affairs to complete the required eligibility procedures. Students must meet AWC's admission requirements and comply with the College's Academic Standards of Progress to maintain their status. (See the Academic Policies section of this catalog for a complete description).

Arizona Western College is in compliance with Section 103 of the Veterans Benefits and Transitions Act of 2018

### **Enrollment Certification and Limitations**

Upon submission of an Enrollment Certification Request 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, must notify the Veteran Services Office. Please allow 30 days for electronic Veterans Affairs processing. To submit an online Enrollment Certification Request, visit www.azwestern.edu/veterans

### 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 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 for tuition, books 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 Self-Service (listed under Quick Links at www.azwestern. edu). Once you've logged in, click on student finance to access your account summary. This deferment is available during any registration in which a student is awaiting Gl Bill® benefits and is intended to bridge the processing time it takes Veterans Affairs to send monies to the student. 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 at www.azwestern.edu/veterans, under new student tab.

Due to tuition and fees monies coming directly to the school from Veterans Affairs for Post 9/11 GI Bill® (chapter 33) recipients, 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 students using Veterans Affairs educational benefits need to verify their enrollment with the Veteran Services Office by completing an Enrollment Certification Request An Enrollment Certification Request must be submitted to the Veteran Services Office, every time a student has any changes in enrollment, to include added, dropped, withdrawn, no-show, or cancelled courses. To submit an online Enrollment Certification Request, visit www.azwestern. edu/veterans

## Degree Plans

Students applying for Veterans Affairs educational benefits can only be certified for required courses 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.

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## Internships/Externships

In order for internships/externships to be certified to Veterans Affairs, the course(s) must meet the following guidelines:

- All externships/internships are directly supervised by the school
- Have an assigned instructor
- Classes are attended on, at least a weekly basis
- Assignments are required to complete the course

If the internship/externship does not contain all of the requirements listed above, it may not be approved by the Veterans Administration (VA).

#### 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 students should maintain a 2.0 grade point average (GPA) for continuous certification. Students 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 may 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 inperson, 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. Students must ensure that they have submitted their most current military and/or college transcript to Arizona Western College. Failure to have this processed during the first semester of attendance could result in overpayment and/or delay of benefits.

The process of evaluation may take up to three weeks once the request for evaluation and official transcripts have been received. All external credits evaluated and posted onto Arizona Western College transcripts are considered a permanent record.

## 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 and test scores) must be sent directly from the issuing institution to:

### **Transfer Services Office**

Arizona Western College P.O. Box 929 Yuma, AZ 85366-0929 transfer.services@azwestern.edu

#### www.azwestern.edu/transfers

All external credits evaluated and posted onto Arizona Western College transcripts are considered a permanent record.

## 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. Separate official transcripts must be sent from each prior institution attended. Students must be registered and/or have completed at least six credit hours at AWC in order to have credits posted on their AWC transcript. The process of evaluation may take up to three weeks once the request for evaluation and official transcripts have been submitted. External credits will be posted in the first semester the student is registered for and/or completes at AWC. 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.

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.

AWC's transferring credits policies: Grades are neither transferrable nor calculated towards AWC GPA. 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 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.

## **Quarter Hour Credits**

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

## 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 <a href="http://www2.ed.gov/admins/finaid/accred/accreditation\_pg6.html">http://www2.ed.gov/admins/finaid/accred/accreditation\_pg6.html</a>

## 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 one of the following agencies:

## Foreign Credential Service of America

Email address: http://foreigncredentials.org/ Phone Number: 1 (877) 553-4285

## International Educational Equivalency Evaluation Services Inc.

Email address: http://edevals.com/about.html

Phone Number: (414) 319-5000

### Transcript Research

Email address: http://transcriptresearch.com

Phone Number: (214) 810-1124

## Span Tran the Evaluation Company

Email address: https://www.spantran.com/ Phone Number: (713) 266-8805

### ACEI Academic Credentials Evaluation Institute, INC

Email address: http://www.acei-global.org/contact-us/

Phone Number: 1-800-234-1597

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

Students must be registered and/or have completed at least six credit hours at AWC in order to have credits posted on their AWC transcript. The process of evaluation may take up to three weeks once the request for evaluation and official transcripts have been received. External credits will be posted in the first semester the student is registered for and/or completes at AWC.

Disclaimer: All coursework completed with a letter grade "C" or higher within an 8 year time frame will be evaluated regardless of major currently pursuing at Arizona Western College.

## Prior Learning Assessment (PLA)

## Credit for Prior Learning Assessment may be awarded for:

- certifications (local, state, national)
- challenging AWC courses
- military experience
- portfolio development
- standardized examinations (AP, CIE, CLEP, DLPT, DSST, IB)

#### Who is eligible?

To be eligible for Prior Learning Assessment a student must have an AWC application on file and be actively seeking a certificate or degree. Before meeting with the faculty, a student must first meet with an Advisor to establish a Program of Study. Credit for Prior Learning is only available for courses which are in the student's current Program of Study. The faculty will advise students of the Prior Learning Assessment options and help them select which assessment option is best. Students must be registered and/or have completed at least six credit hours at AWC in order to have credits posted on their AWC transcript. For a current list of previously approved PLA credit, please refer to AWC website, azwestern.edu/PLA

#### How is credit awarded?

Prior learning credit may be granted for major course requirements, departmental requirements, or general elective credit. Program requirements should be reviewed to determine how Prior Learning Assessment credits will apply toward graduation.

After successful completion of a portfolio or proficiency exam, the appropriate course credit will be posted to the student's transcript. A credit grade (CR) will be awarded for proficiency exams and a numeric grade will be assigned for portfolios evaluated at a 2.0 or better grade level.

For a current list of previously approved PLA credit, please refer to the AWC website, azwestern.edu/PLA

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## When are Prior Learning Assessment credits posted to a transcript?

Prior Learning Assessment credits will be posted in the semester and year the Prior Learning Assessment is awarded.

## How much Prior Learning Assessment credit can be applied toward a certificate or degree?

Students may be allowed up to 30 prior learning credits toward an associate degree and up to 15 prior learning credits for a certificate. Students must complete 6 credit hours of registered classes at AWC to be awarded a certificate and 15 credit hours to be awarded an associate degree.

### Are Prior Learning Assessment credits transferrable?

The credits awarded are granted toward an AWC degree. AWC does not guarantee the credits awarded through the Prior Learning Assessment method will transfer to other institutions. All institutions reserve the right to review credits to determine how awarded credits apply at their own institution.

## Certifications (local, state, national)

Students who have completed a professional certification or training program may be eligible for course credit. Law enforcement academies, allied health certifications, and massage therapy are a few examples of professional certifications or training programs that may be translate to equivalent coursework in that discipline. These credits may not transfer to another educational institution.

## **Challenging AWC Courses**

Students have the opportunity in some Arizona Western College courses to earn credit by completing a comprehensive examination. Students cannot receive credit 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.

## 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.

## Portfolio Development

Portfolio Development courses are designed for students who have acquired and applied knowledge in a specific discipline that is equivalent to college coursework and/ or have documented evidence of non-traditional learning. Students pursuing a Portfolio Development course should possess an ability to analyze their experiences and demonstrate mastery of college-level writing skills. These credits may not transfer to another educational institution.

## Standardized Examinations (AP/CIE/CLEP/DLPT/DSST/IB)

Standardized Examinations allow students the opportunity to complete an examination and at the same time, earn college credit for equivalent courses.

## 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 students 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 Vice President for Learning Services 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
Students who receive an AB sub-score on this exam will have that		

sub-score apply as the Calculus AB score.

sub-score apply as the Calculu	s AB score.
Calculus BC	3 MAT 220
Chemistry	4 CHM 151 w/lab
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 elec. (3)
English (Literature & Comp)	4 or 5 ENG 101 or dept elec. (3)
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 102
Music Theory	4 or 5 MUS 111 & MUS 112 and MUS 191 & MUS 192
Music Theory	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 Vice President for Learning Services (928) 344-7519.

## Cambridge International Examination (CIE)

These exams are administered by Cambridge schools each year during the months of November and June and are designed to test competencies in specific lower division college subject areas. High school students should contact their Cambridge school and/or exam officer to pursue one of the following exams.

## **CIE Equivalents**

General Education Category	Score	AWC Equivalent(s)
Accounting -AS Level	D or Higher	Elective (3)
Accounting -AS Level	E	Elective (3)
Accounting -A Level	D or Higher	Elective (6)
Accounting -A Level	E	Elective (6)
Biology -AS Level	D BIO 10	00 (4) or dept elec. (4)
Biology -AS Level	E BIO 10	00 (4) or dept elec. (4)
Biology -A Level	D BIG	O 181(4) & BIO 182(4)
Biology -A Level	E	BIO 181
Business -AS Level	D or Higher	Elective (3)
Business -AS Level	E or Higher	Elective (3)
Business -A Level	D	Elective (6)
Business -A Level	E	Elective (6)
Chemistry -AS Level	D	CHM 130 w/lab
Chemistry -A Level	Α	CHM 151 w/lab &
		CHM 152 w/lab
Chemistry -A Level	В	CHM 151 w/lab
Chemistry -A Level	С	CHM 151 w/lab
Chemistry -A Level	D	CHM 130 w/lab
Chemistry -A Level	E	CHM 130 w/lab
Economics -A Level	D	ECN 240 & ECN 250
English Language -A Level	D or E	ENG elective (3)
English Literature -A Level	D or E	ENG elective (3)
Geography -AS Level	D or Higher	Elective (3)
Geography -AS Level	E	Elective (3)
Geography -A Level	D or Higher	Elective (6)
Geography -A Level	E	Elective (6)
Information Technology- AS Level	D or Higher	Elective (3)
Information Technology- AS Level	Е	Elective (3)
Information Technology- A Level	D or Higher	Elective (3)
Information Technology- A Level	E	Elective (3)
Marine Science -A Level	D	BIO elective 4cr

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## College Level Examination Program (CLEP)

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

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.

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

media.collegeboard.com/digitalServices/pdf/clep/clep-transcript-request-form.pdf

## **CLEP Exam Equivalents**

General Education Category	Score	AWC Equivalent(s)
American Government	50	POS 110
American Literature	55	Elective (3)
Analyzing & Interpreting	50	Elective (3)
Literature		
Business Law, Intro	50	BUA 230
Calculus	50	MAT 220
Chemistry	50	CHM 151
College Algebra	50	MAT 151
College Composition	50	ENG 101 or Elective (3)
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

Financial Accounting	50	Elective (3)
Financial Accounting	60	Elective (3)
English Literature	50	Elective (3)
History of the US I: Early Col.–1877	56	HIS 121
History of the US II: 1865–Present	56	HIS 122
Human Growth & Dev.	50	FAS 238 or PSY 238
Humanities* (General)	50	3 cr. Arts & 3 cr. Hum.
Information Systems	50	Elective (3)
Intro: Educational Psychology,	50	Elective (3)
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
Natural Sciences	53	Elective (3)
Natural Sciences	56	Elective (6)
Precalculus	50	MAT 187
Psychology, Intro	50	PSY 101
Social Sciences & History*	56	3 cr Soc. Sci. GE
Sociology, Intro	50	SOC 101
Western Civilization I (Ancient Near East-1648)	56	HIS 240
Western Civilization II (1648–present)	56	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.

## Defense Language Institute Transcript (DLPT)

Arizona Western College does not award credit for foreign language courses taken through the Defense Language Institute.

## DSST Exams

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

#### Prometric

ATTN: DSST Transcript Request

1260 Energy Lane

St. Paul, MN 55108

getcollegecredit.com/images/uploads/ documents/DSST\_Transcript\_Order\_Form.pdf

## **DSST Exam Equivalents**

General Education Category	Score	AWC Equivalent(s)
Art of the Western World	400	ARH 141 or 142
Business Mathematics	400	BUA 110
Criminal Justice	400	AJS 101
Environmental Science	400	Elective (3)
Fundamentals of	400	MAT 121
College Algebra		
Fundamentals of Counseling	400	PSY elect (3 credits)
Fundamentals of Cybersecurity	400	Elective (3)
General Anthropology	400	ANT 100
Intro to Law Enforcement	400	AJS 230
Introduction to Business	400	BUA 100
Lifespan Develop. Psychology	400	FAS 238 or PSY 238
Management Information Systems	400	CIS elect (3 credits)
Organizational Behavior	400	Elective (3)
Principles of Public Speaking	400	**SPC 215
Principles of Statistics	400	MAT 270 or PSY 230
Principles of Supervision	400	MGT 250
Technical Writing	400	Elective (3)

\*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 contact the department to arrange for an impromptu speech in person or through the use of technology.

## 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 (301) 202-3000

Fax: (301) 202-3003 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 SL	5, 6, or 7	BIO 100 (4)
Biology SL	4	Dept elective (3)
Business and Management	5, 6, or 7	MGT 135
Business and Management SL	5	elective (3)
Chemistry HL	5, 6, or 7	CHM 151 & CHM 152
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 or Elective (3)
French	5, 6, or 7	FRE 201 & FRE 202
French	4	FRE 101 & FRE 102
Geography HL	5, 6, or 7	GEO 102 (3)
Geography SL	4 or high	er Elective (3)
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
History- SL	5, 6, or 7	Dept. Elective (3)
Information Technology in a Global Society HL	5, 6, or 7	Elective (3)
Information Technology in a Global Society SL	5, 6, or 7	Elective (3)
Mathematics (High Level)	5, 6, or 7	MAT 220
Music	5, 6, or 7	MUS 111 & MUS 112
DI : III		nd MUS 191 & MUS 192
Physics-HL Physics-HL	5 6 or 7	PHY 111 PHY 111 & PHY 112
Physics-SL	6 or 7	PHY 111
Psychology-SL	4	Dept. Elective (3)
Psychology-SL	5, 6, or 7	Dept. Elective (3)
Spanish	5, 6, or 7	SPA 201 & SPA 202
Spanish	4	SPA 101 & SPA 102
World Religions	5, 6, or 7	Elective (3)

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## PLACEMENT TESTING

AWC's Testing Services recommends incoming students use a Guided Course Placement questionnaire which can be found on the Testing Services webpage, **www.azwest-ern.edu/testing**, for self-placement into AWC's Math and English courses. Upon completing the Guided Course Placement questionnaire students will be presented with recommendations on which course or course(s) a student will most likely be successful in.

Incoming high school students may also use their high school GPA, ACT, SAT or GED scores to help guide their self-placement. Refer to the Guided Course Placement chart on the Testing Services webpage.

If a student will be enrolling in a program which requires an ACCUPLACER placement test, please refer to the program's specific requirements for entry and schedule a placement exam by going to <a href="https://www.registerblast.com/azwestern/Exam/List">https://www.registerblast.com/azwestern/Exam/List</a>.

Contact the Testing Services office at (928) 344-7641 or email testing@azwestern.edu for additional information on placement tests. 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.

## FINANCIAL AID, SCHOLARSHIPS AND GRANTS

https://www.azwestern.edu/enrollment/financial-aid

## General Information

The philosophy of the Office of Financial Aid and Scholarships is to attempt to meet the full need of all eligible applicants. Students applying for financial aid at Arizona Western College must be admitted into an eligible degree or certificate program of study and meet any other eligibility requirements.

Official academic transcripts are required of all transfer students who appear in the National Student Loan Database System (NSLDS) as having attended previous institution(s) and/or having substantial student loan debt. Transcripts are evaluated and restricted enrollment enforced when applicable. Students who have not met the college's academic standards (2.0 GPA and completion of 75 percent of classes attempted) at the prior institution(s) will be evaluated with the same probation and suspension standards currently in place for Arizona Western College students. Students who consistently have received W and F grades may be required to complete a Satisfactory Academic Progress appeal.

Arizona Western College provides access to federal, state, and institutional financial aid through the Financial Aid Office. A number of institutional and private scholarship applications are also available. Financial aid may be awarded based on financial need, academic merit, athletic ability, or community service. The application process for most of the programs begins with completion of the Free Application for Federal Student Aid (FAFSA). Students complete the FAFSA online at **www.FAFSA.gov**. Priority consideration for some grants is given to applications received in the Financial Aid Office by the priority deadline.

#### **Federal Pell Grants**

A federal Pell Grant, unlike a loan, does not have to be repaid. It is restricted to undergraduate students. Eligibility is established by the federal government, and the grant is targeted to students with high need. The award adjusts to students' actual enrollment status. Students never attending a course or withdrawing from all of their courses could face repayment of all received Pell Grant monies.

Financial aid policies can be found at

https://www.azwestern.edu/enrollment/financial-aid

## Federal Direct Loans (Stafford Loans)

Low-interest student loans are available to help meet educational expenses. The loans must be repaid. Students must be enrolled in a minimum of six credit hours during a term (including eight-week terms) to be eligible. Loans can also be obtained by students who do not demonstrate a need. A student must complete loan entrance counseling, the master promissory note and a direct loan request form before a student loan can be certified.

Student loan policy can be found at https://www.azwestern.edu/enrollment/financial-aid

## **Work-Study Program**

The work-study program offers students an opportunity to work up to 19 hours per week to assist with college expenses. Many of these jobs are career related and offer flexible work schedules. Students must be enrolled at least half time, have a minimum 2.0 GPA and maintain Satisfactory Progress to qualify for these jobs. Work-study jobs are available both on and off campus. Information on student employment is available at <a href="https://www.azwestern.edu/student-support/career-services/jobs-for-matadors">https://www.azwestern.edu/student-support/career-services/jobs-for-matadors</a>

Federal and College work study policy can be found at <a href="https://www.azwestern.edu/enrollment/financial-aid">https://www.azwestern.edu/enrollment/financial-aid</a>

## **Scholarships**

Scholarships are offered by the Arizona Western College Foundation each year. These scholarships are funded by private donors. Financial need, grade point average, field of study, leadership and community service may be some of the eligibility requirements. Applications are accepted early in the spring semester for scholarships to be awarded for the following academic year. Notices of other scholarships are publicized periodically. Applications for AWC Foundation Scholarships, Institutional Scholarships and Grants can be found at <a href="https://www.azwestern.edu/enrollment/financial-aid/scholarships-and-grants">https://www.azwestern.edu/enrollment/financial-aid/scholarships-and-grants</a>

All financial aid policies can be found at <a href="https://www.azwestern.edu/enrollment/financial-aid">https://www.azwestern.edu/enrollment/financial-aid</a>

## 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.

## 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:

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- 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.

AWC 2021-2022 Catalog Program Choice & Advising

## 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 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.

Within these five types of programs, there are many majors from which to choose; see the 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 with an introduction to Self-Service, 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 Career and Advisement Office 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 placevment 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) 344-7624
Career Services (928) 344-7624
Veteran Services (928) 344-7622

## REGISTRATION & FEES

## Registration

Students shall register as designated in the College Calendar. Registration eligibility requires that each student completes all admissions requirements and satisfies any pre-requisite (PRE) and/or co-requisite (COREQ) listed in the Course Information section of this catalog. Failure to complete admissions procedures may result in a delay in class enrollment.

Students are not permitted to register after designated deadlines without express approval of the instructor and the appropriate administrator or Vice President for Learning Services. Any student needing information about registration may call (928) 344-7550, or email records@ azwestern.edu.

## Online Registration

With guidance from their academic advisors, student can register for courses online through Student Self-Service. Students with 15 or more credits who register online may be eligible to participate in the priority online registration schedule, which is posted on the Register for Classes link of the AWC website. Credits for courses in progress do not count towards priority online registration.

## Special Admit Signatures for Registration

All students in middle school, grade school, or high school who are under 18 years old must complete, along with their parent(s)/legal guardian, the Underage Agreement form and submit it to the Admissions & Registration department. Approval of the student's registration in any course is dependent upon one or more of the following: placement test scores, academic history, current course enrollment, and/or instructor approval. Students who are still in High School may qualify for a reduced tuition rate.

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## Academic Class Load

The standard academic load for a program to be complete in two years is defined as 15-16 credits per (16 week) semester. Most classes routinely require two to three hours of outside preparation/study for each hour spent in class. Enrollment in 25 or more credits for any particular semester (Spring semester total credit hours is made up of winter session hours + spring semester hours) requires approval from a specific program director, advising director/coordinator or designee. Enrollment in more than 12 credits for summer requires similar approval.

## Course Load and Program Completion

Full-time status is defined as enrollment in 12 or more credits in one semester. Enrollment in 12 credits per semester, although considered full-time, is not enough to earn a degree (generally 64 credits) in four semesters (two years). Enrollment in additional credits each semester and/or enrollment in summer and/or winter semester courses is recommended

## Change of Enrollment

## Adds and Drops

During the designated add/drop period or as specified by the Associate Dean of Enrollment Services or designee, students may revise their schedules by dropping classes and/or adding classes. Certain restrictions may apply. Classes dropped during the designated add/drop period will not appear on the student's transcript. Students withdrawing from class(es) after the add/drop period must follow withdrawal procedures. Changes in enrollment may affect financial aid awards. Students should consult the Financial Aid Office. See Refund Policies.

## **No-Shows**

Arizona Western College students are expected to attend every class session in which they are enrolled.

To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College has established an Attendance Verification process for "No Show" reporting. Refer to the AWC Academic Calendar for "No Show" reporting dates.

Students who do not begin attendance in a payment period of enrollment will be issued a "No Show" (NS) grade by the professor or instructor and receive a final grade of NS on their official academic record. The student is responsible for the tuition charge. The NS grade will result in the student not having access to the course(s) on Canvas and will not affect their GPA. The "No Show" grade can affect the student's financial aid eligibility.

For online classes, student attendance in an online class is defined as the following (FSA Handbook, 2020, 5-65):

- Student submitting an academic assignment,
- Student submission of an exam,
- documented student participation in an interactive tutorial or computer-assisted instruction,
- a posting by the student showing the student's participation in an online study group that is assigned by the institution,
- a posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters, and
- an email from the student or other documentation showing that the student initiated contact with a faculty member to ask a question about the academic subject studied in the course.

Students who have enrolled but have never attended class may be issued a "No Show" (NS) grade by the professor or instructor and receive a final grade of "NS" on their official academic record. An NS grade may result in loss of federal financial aid.

For online classes, student attendance in an online class is defined as the following (FSA Handbook, 2012, 5-90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computerassisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course

## Withdrawals

After the designated add/drop period and through the first three quarters of the course, or as specified by the Associate Dean of Enrollment Services 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 45th-day class rosters, students who have not formally withdrawn but who have stopped attending a course may be administratively with-

drawn by the professor or instructor. A grade of "AW" (administrative withdrawal) and last date of attendance may be issued 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.

Withdrawing may affect Veteran Educational Benefits recipients and financial aid recipients. 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. Random administrative de-registrations occur at the discretion of the College through the end of the official drop/add period. Payment for 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 with a credit card (Visa®, MasterCard®, Discover®Card, or American Express®) or electronic check by logging on to Self-Service and clicking on the Student Finance link.
- Payment Plans Payment arrangements may be made online by logging on to Self-Service and clicking on the Student Finance link. 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. 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 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 or any other private or government agency/program needed to collect the debt.

## 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

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, fees and costs must be paid by the payment deadline for early registrants. To register for classes at any other registration period, all tuition, fees and other costs are due and payable at time of registration.

\*Food Service contracts subject to variation.

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## 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 for the dropped courses. 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 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."

## Refunds and Dropping a class – 21/22 (beginning summer 2021)

If you need to drop a class, you must follow the steps below to ensure a refund. You need to review each class in your schedule as they may have different drop deadlines depending on the start date and length of your class.

You will not be automatically dropped for non-payment. If you wish to drop a class, you must take action on Self-Service or with the Admissions & Registration office.

The College accepts no responsibility for dropping students from any course.

#### **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 tuition 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 full refund 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 submitted to the Admissions and Registration Office. The "Last Date of Attendance" and the date the form submitted 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 full refund of all tuition and special fees. Please see "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 a refund after the end of the refund period must be submitted by a Petition for Extenuating Circumstance Refund form to the Business Services Office.

Length of Class Session	Drop Policy
16-week Courses 12-week Courses 8-week Courses	Must be completed prior to or during the first five days of the session*.
All other short-term courses	Must be completed by the end of the day of the first class meeting*.
* Official along and the control of the Calf Con	guing or must be submitted to Admissions & Bogistration

<sup>\*</sup> Official drop must be completed in Self-Service, or must be submitted to Admissions & Registration

<sup>\*</sup> Dropping any other time is counted as a WITHDRAWAL and will not be refunded

### **Extenuating Circumstances Refund Criteria**

Students withdrawing from classes for one of the following reasons may request a full refund of tuition and special fees, provided courses have not been completed. Student must submit a Petition for Extenuating Circumstances Refund form to the Business Services Office within 30 days following the semester end. All decisions made by the college are final.

- Serious illness verifiable by a doctor's written statement that the illness prevents the student from attending all classes for the semester. (Excludes existing chronic conditions—students are responsible for properly balancing school with known chronic conditions)
- Serious illness or death of an immediate family member that prevents the student from attending all classes for the semester.
- Death of a student. Appropriate documentation must be provided before a refund can be given.
- A student in the Armed Forces or the Arizona National Guard who is called to active duty and assigned to a duty station, verifiable by a copy of the orders, will be allowed to withdraw and receive a 100% refund of tuition, provided courses have not been completed.

The following reasons do NOT qualify as extenuating circumstances:

- Difficulty adjusting to college
- Academic Issues
- Teaching method or dislike of an instructor
- Inaccessibility to resources, i.e. compatible software/ hardware, etc.
- Lack of knowledge of pertinent deadlines
- Time or scheduling conflict
- Transportation Issues
- Financial Issues
- Child Care Issues

To be eligible for a Petition for Extenuating Circumstances Refund, you must

- Withdraw from all courses
- Submit a Petition for Extenuating Circumstances Refund form to the campus Business Services Office
- Present any supporting materials to the Business Services Office with your completed refund request and withdrawal form
- Request the refund within 30 days following the semester end.

Limitation: Never attending is not an allowable refund exception or an excuse of the debt incurred through registration.

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

#### 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.

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#### 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

Arizona Western College students are expected to attend every class session in which they are enrolled.

To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester.

Students who have enrolled but have never attended class may be issued a "No Show" (NS) grade by the professor or instructor and receive a final grade of "NS" on their official academic record. An NS grade may result in loss of federal financial aid.

For online classes, student attendance in an online class is defined as the following (FSA Handbook, 2012, 5–90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computerassisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course

#### 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 housing 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 housing 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 fails to attain at least a 2.000 cumulative GPA. Students will continue on academic probation and will not be permitted to enroll in more than 12 semester credits until their cumulative GPA is at least 2.000. In addition they may be required to: 1. Meet with Advisement Services a minimum of three times during the semester of the academic probation; 2. Develop an Academic Improvement Plan; 3. Enroll in and successfully complete a designated Study Skills 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 Vice President for Student 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:

 Meeting with Advisement Services a minimum of four times during the semester

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- 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 the 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**

Students returning to Arizona Western College after an absence of at least one year and who have satisfactorily completed twelve (12) or more credits after returning, may, with the approval of the Vice President for Learning Services, have his/her former record treated in the same manner as transfer credits. This means that credits 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 Vice President for Learning Services' 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

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 maintain contact with their Academic Advisors about 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
<b>A</b> —Exceptional Performance (for <b>most</b> learning outcomes)	4
<b>B</b> —Good Performance (for <b>most</b> learning outcomes)	3
<b>C</b> —Satisfactory Performance (for <b>most</b> learning outcomes)	2
<b>D</b> —Unsatisfactory Performance (for <b>most</b> learning outcomes)	1
<b>F</b> —Unsatisfactory Performance (for <b>all</b> learning outcomes)	0
Grading System II*	
CR (Credit) not compute NC (No Credit) not compute	
To earn credit, "CR," a student mu an equivalent grade of "C" or higher for prerequisite requirement will be satisfied "D" or "F."	or the course. No

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

<b>AU</b>
$\textbf{I}. \dots \dots$
${f W}$ Student-initiated Withdrawal
AW
<b>NS</b> No Show
<b>R</b> Repeat
<b>IP</b> 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 Vice President for Learning Services or designee. Courses taken for the Arizona General Education Curriculum (AGEC) must be completed under Grading System I except upon approval of the Vice President for Learning Services 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 Associate Dean of Enrollment Services 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 withdrawn by the professor, instructor or administrator and receive a grade of "AW" on their official academic record.

#### No Show

Arizona Western College students are expected to attend every class session in which they are enrolled.

To comply with Federal Financial Aid regulations (34 CFR 668.21), Arizona Western College (AWC) has established an Attendance Verification process for "No Show" reporting during the first 10 days of each semester.

Students who have enrolled but have never attended class may be issued a "No Show" (NS) grade by the professor or instructor and receive a final grade of "NS" on their official academic record. An NS grade may result in a student losing their federal financial aid.

For online classes, student attendance in an online class is defined as the following (FSA Handbook, 2012, 5–90):

- Submitting an academic assignment
- Taking an exam, an interactive tutorial or computerassisted instruction
- Attending a study group that is assigned by the school
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course

#### 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 did not 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.

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#### 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 Vice President for Learning Services 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 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 administrator. If the issue is not resolved, the student may obtain a Petition for Instructional Issues from the Office of the Vice President for Learning Services 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 onesemester period, a request for review of grade will not be granted unless there are unusual circumstances as determined by the Vice President for Learning Services 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 corequisites 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 corequisite 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 appropriate administrator for exception. The appropriate administrator's signature is required in order to gain admission into the course. The appropriate administrator 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 appropriate administrator 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 administrator (AWC) of the middle final. The faculty member or appropriate administrator will then arrange to schedule a make-up exam with the appropriate faculty.

#### Vice President 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 Vice President'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 and HON-181, 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.

#### **Discretional 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 and HON-181, 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

- 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.
- Complete an Application for Graduation form in Student Self-Service in accordance with the following time schedule

AWC 2021-2022 Catalog Academic Policies & Regulations

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.

- 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 one semester after the semester for which they applied will be required to re-apply.

## 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
High
Distinction

## 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 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.

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:

- Requests to review and challenge contents of student records will be processed according to the College procedure #545.1 Student Record Confidentiality.
- 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.
- 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.
- Appeals or petition regarding instruction or academic issues will be processed according to College procedure #551.2 Instructional Grievance Petition.
- 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 of 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

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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:

 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.

 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 Associate Dean of Enrollment Services, or designee, written requests that identify the record(s) they wish to inspect. The Associate Dean of Enrollment Services, or designee, 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:

#### **Student Privacy Policy Office**

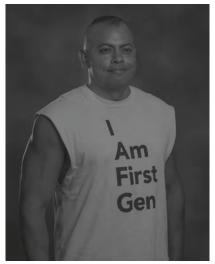
US Department of Education 400 Maryland Avenue, SW Washington, DC 20202-8520

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 Associate Dean of Enrollment Services.

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# Student Services & Activities

## STUDENT SERVICES

### Academic Library

The library is a dynamic academic partner on the Arizona Western College campus, serving the AWC and NAU-Yuma Branch Campus communities, partner universities, and residents of Yuma County. Nearly 100,000 people visit us in person each year to use our print and electronic collections, study rooms, collaborative spaces, the Resource Center (for current and future educators), computers, technology kits, and to ask for research help.

Research help is available in person, by phone, chat, email, and text. Library instructional workshops on a variety of topics are available upon faculty request. We also offer drop-in workshops throughout the year for our community on a range of educational and personal enrichment topics.

We provide access to electronic resources such as article databases, eBooks, and streaming videos. You can also check out books, videos, music cds, technology kits, and documents from our Federal Government Depository collection. We also provide links to NAU's Cline Library resources.

At the library, we are committed to providing our community with an environment that fosters curiosity, exploration, and lifelong learning. Drop by and take advantage of our collections, research help, and study spaces.

#### **Academic Library**

Located in the Shadle Learning Resource Building (928) 344-7777 2020 S. Ave. 8E Yuma, AZ 85366

www.azwesern.edu/library

#### Hours of operation (fall and spring semesters)

Monday-Thursday 8:00AM-9:00PM Friday 10:00AM-5:00PM Saturday noon-5:00pm

Our partners include: NAU-Yuma and NAU Main Campus, WACOG, Yuma County Libraries, Parker Public Library, Quartzsite Public Library, Mexican Consulate, MCAS, US Government Printing Office, University of Arizona and Arizona State University.

#### 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 helpful staff, each center hous-

es a state-of-the art computer lab that students can use for academic purposes. 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 edit papers but will assist students with learning how to proofread and revise for clarity. A Language Lab is located within the Writing Center, and tutoring is available here for students enrolled in ESL or Spanish courses.

The Math Center offers tutoring services for all levels of mathematics on 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 small study group room reservations.

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 use our services on a regular basis find they are more successful in college. Both the Math Center and the Writing Center 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, 7:00AM-5:00PM, 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 Residential Life Office oversees three residence halls on the AWC Yuma campus. Suite style accommodations which include: a private vanity area, walk in closet, fully furnished (dresser, bed, chair, mini fridge, built in desk), in room AC/Heat control, and Ethernet connection. Additional amenities include: laundry, fitness center access, and toilet paper at no additional charge.

AWC's Residence Halls are co-ed with an all-female and all-male wing option. Each hall has on-site student and professional staff dedicated to creating positive living and learning environments which promote academic success, cultivate personal development, and provide a comprehensive collegiate experience for a diverse population.

The Housing Application/Agreement must be submitted to the Residential Life Office accompanied by the required housing deposit and proof of two current MMR immunizations (Housing Application Packet). Although normally refundable, the entire housing deposit is subject to forfeiture under the term outlined in the Residence Halls License Agreement/Contract. In addition residential students are required to purchase a meal plan. All AWC, NAU Yuma, UA Yuma and ASU Yuma students enrolled in at least 12 credits are eligible to live in the AWC residence halls. Please refer to the Payment of Financial Obligation section regarding resident financial obligations.

Room assignments are determined by the date of the completed Housing Application Packet. The College reserves the right to consolidate vacancies in the interest of the economy. In addition, residents are subject to follow all policies outlined in the Student Code of Conduct and Residential Life Handbook.

#### Measles, Mumps, Rubella (MMR) Immunizations

Arizona Western College policy requires that all residential 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 fee at the Yuma County Health Department.

The Residential Life Office is located on main campus in the 3C building on the 2nd floor. For information call (928)344-7578 or visit the website **www.azwestern.edu/housing.** 

## Campus Life- Health and Wellness

Student Health and Wellness is dedicated to promoting a safe and healthy college experience for all students. The Student Health and Wellness Office is a combination of Behavioral Health and Wellness and Violence Intervention and Prevention Services (VIP) located in the College Community Center (3C). Staff are committed to educating and supporting/advocating for students when "life happens." We provide students with a safe, non-judgmental place to explore: life struggles, stress and time management tips, test anxiety, self-compassion, the importance of self-care, campus and community resources, and anything else a student many need to be successful here at AWC. We also coordinate programming which includes campus activities and marketing surrounding our monthly education and awareness themes to empower and support students to make positive choices and/or changes best suited for themselves and create/maintain healthy lifestyles. Health and Wellness ensures student learning outcomes that will have a positive impact on students and lead to happy and successful lives. In addition, we coordinate trainings for campus that include but are not limited to the following: Safe Zone, Vet Net Ally, Mental Health First Aid, Suicide Prevention, and Bystander Intervention. Class presentations are provided upon request of the professor.

Our Student CARE report or "IR" incident report allows us to have a transparent and universal referral process available to the campus community for students of concern and can remain anonymous if desired. This report allows for reach-out, follow-up and documentation.

Please visit the Health and Wellness website to download our brochure to learn about all of the services we provide: https://www.azwestern.edu/student-life/health-and-wellness

To contact Health & Wellness Services, please call (928) 344-7602.

#### 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.

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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 is 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 a pathway 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. https:// www.azwestern.edu/student-support/career-services/jobs-for-matadors
- Online step by step career assistance. https://www. azwestern.edu/student-support/career-services/ career-exploration
- Transfer and Career Expos where students can learn about future careers, network with agencies and organizations, connect with targeted AWC program of study.
- Annual College Majors Fair.
- Resume, job interviewing and cover letter assistance.
- Referral for internships and volunteer opportunities.
- Course in Career Exploration (AWC 104)

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 Readiness: Digital Age (2 Credits)

Thorough review of the job search process including traditional and non-traditional approaches to prepare students to navigate today's ultra-competitive employment market. Course will examine the role of networking, as well as preparation of cover letters, resumes, job applications, development of interviewing skills, building employment references, and the impact of technology in finding employment to include social media. Coursework will also focus on workplace survival skills, including employer expectations, work attitudes and ethics, customer service, working well with others, appropriate attire.

#### **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.

#### Access ABILITY 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 substan-

tially 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 by calling the assess ability resources services front desk at (928)-344-7674 or emailing assessability @AZWestern. edu. Students who are new to ARS must submit a public request for accommodation before their schedule appointment at <a href="https://azwesternaccommodate.symplicity.com/public\_accommodation/">https://azwesternaccommodate.symplicity.com/public\_accommodation/</a>.
- Students must meet with The ARS Coordinator each semester to develop an accommodation letter. The ARS office is located on the top floor of the 3C building
- 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. 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.

## KEYS Student Support Services

The KEYS Program is a federal funded TRIO program that is designed to help first-generation, low-income and/or students with a documented disability to graduate and transfer from AWC to a four-year institution to obtain a bachelors degree. The KEYS Program 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-one tutoring, mentoring, first and second year college experience programs, transfer services, and financial/economic literacy. The KEYS Program is funded to serve 240 students each academic year, who meet the federal eligibility criteria and have an academic need. The KEYS Program is located on the north end of campus in the KEYS Building. Call (928) 344-7761 or visit our website at www.azwestern. edu/keys for more information.

#### Talent Search

Talent Search (TS) 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

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graduate from high school and continue on to and complete their postsecondary education. TS also helps students who have not completed high school or post-secondary 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)

The College Assistance Migrant Program (CAMP) at Arizona Western College is a federally funded program designed to meet the needs of students with migrant or seasonal farmworking backgrounds.

CAMP offers to eligible students valuable information on pre-college transitions and support services to aid the development of skills necessary to succeed in their first year of higher education. Services include academic counseling, tutoring, skills workshops, health referrals, financial aid stipends, and a residential program. Students will have the opportunity to develop lifelong friends while participating in social activities in a collegiate environment. For more information, please call (928) 317-7627.

## Single Parents/Homemakers Services

Perkins funds are given annually for Advisement Services to offer Career and Technical Education students assistance to student 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. For additional information you can visit the Advisement Services Office in the College Community Center (3C), or inquire by calling (928)344-7623.

## 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 gradepoint 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 wide range of intercollegiate athletic programs as a member of the Arizona Community College Athletic Conference (ACCAC) and the National Junior College Athletic Association (NJCAA). AWC has gained national and international recognition for its intercollegiate sports programs, providing opportunities for women to

compete in basketball, softball, soccer and volleyball and men competing in baseball, basketball, and soccer. AWC is also proud to be one of the early adopters of eSports, allowing full-time students to compete in gaming. If you are interested in participating in a particular sport, please contact the appropriate head coach of that program. 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.

The 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. 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 50 clubs and organizations here on campus that students are encouraged to join. Go to <a href="www.azwestern.edu/student\_services/campus\_life/student\_activities/clubs\_and\_organizations">www.azwestern.edu/student\_services/campus\_life/student\_activities/clubs\_and\_organizations</a> 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.

#### **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 10:00 AM-6:00 PM, Monday-Thursday while school is in session, and is staffed by six AWC students including a student manager.

#### **Matador Jacks**

The Student Lounge is a comfortable, quiet student space to relax and escape between classes. A great place to hang out while you wait for the YCAT. Stop in and enjoy a seat in one of our bean bag loungers or pull up a chair at a desk to study or charge your device! Located in AC 158 Monday-Thursday while school is in session 7:00 AM—10:00 PM

#### **Diversity Lounge**

Located on the Top floor of the 3C across from the Game room, The Diversity Lounge offers a place for all students to gather, meet others, or study in a relaxed setting. The space includes comfortable seating, a study counter, and a computer, making it a perfect stop between classes. Open Monday-Thursday while school is in session 7:00 AM—7:00 PM

#### The LGBTQ+ Resource Center

The LGBTQ + Resource Center supports and affirms the diverse identities and lives of lesbian, gay, bisexual, transgender and questioning people by the cultivation of a safe, welcoming, and non-judgmental environment. Open to ALL students to use between 7:00 AM-7:00 PM. Located in the LR Building in room LR-056

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# 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.

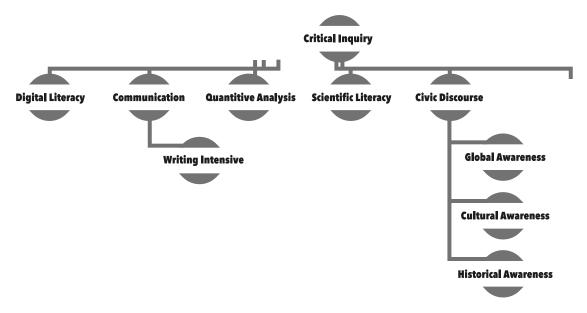
#### Why General Education?

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.

#### 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.

## Writing Intensive

Arizona Western College believes writing provides 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.

## 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.

## 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.

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#### 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.

#### 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).

#### **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).

#### **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).

Go to **www.azwestern.edu/general-education** to view Arizona Western Colleges' general education student learning outcomes.

## Writing Intensive

## (WI) Courses

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

5 5 5 5 5 5	
AJS 123	Ethics and Criminal Justice
ECE 240	Child Growth and Development
ENG 216	Persuasive Writing on Public Issues
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 260	African American Literature
ENG 261	Shakespeare
ENG 265	Women Writers
ENG 281	Film Studies
ENG 290	Creative Non-Fiction Writing
ENG 291	Fiction Writing
ENG 292	Poetry Writing
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
MAT 119	Math Across Cultures
PHI 105	Introduction to Ethics
PHI 233	Philosophy of Religion
PHI 240	Ancient Philosophy
PHI 257	Social and Political Philosophy
POS 110	American Politics
POS 120	World Politics
POS 130	State and Local Politics
POS 140	Introduction to Comparative Politics
POS 257	Social and Political Philosophy
PSY 238	Human Development
PSY 290	Introduction to Research Methods in the Social Sciences
RFI 201	Comparative World Religions

Philosophy of Religion

Mexican American History

REL 233 SPA 281

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## Arizona General Education Certificate (AGEC) Courses

(A.A. & A.Bus)

#### FRESHMAN COMPOSITION

ENG 101 Freshman Composition I  $\mathbf{OR}$ 

ENG 107 First-Year Composition I (for

Multilingual Writers)

ENG 102 Freshman Composition II OR

ENG 108 First-Year Composition II (for

Multilingual Writers)

#### **MATHEMATICS**

MAT 142 College Mathematics with Applications

or approved higher level mathematics

#### ARTS

ARH 141 Survey of World Art 1

ARH 142 Survey of World Art 2

ENG 281 Film Studies

MUS 120 Music Appreciation

THE 101 Survey of Theatre

THE 102 History of Contemporary Theatre

#### HUMANITIES

AGS 101 Solving the Problems of the World

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 216 Persuassive Writing on Public Issues

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 260 African American Literature

ENG 261 Shakespeare

ENG 265 Women Writers

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

REL 210 Introduction to the Old Testament (Hebrew Bible)

REL 220 Introduction to the New Testament

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

AJS 225 Criminology

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/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 130 State and Local Politics

POS 140 Intro to Comparative Politics

PSY 101 Intro to Psychology

PSY 140 Positive 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

SPA 281 Mexican American History

#### 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 156 Human Biology for Allied Health

BIO 160 Intro to Anatomy and Physiology

BIO 181 General Biology (Majors) I

BIO 182 General Biology (Majors) II

BIO 201 Human Anatomy and Physiology I BIO 202 Human Anatomy and Physiology II

BIO 205 Microbiology

BIO 254 Entomology

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 University Physics I

PHY 131 Univeristy Physics II

PLS 100 Plant Science

PLS 211 Soils

#### 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 ENG 290 Creative Non-Fiction Writing

ENG 291 Fiction Writing

ENG 292 Poetry Writing

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

MAT 227 Discrete Mathematics

MAT 230 Calculus II with Analytic Geometry

MAT 241 Calculus III with Analytic Geometry

MAT 262 Intro to Ordinary

Differential Equations

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

# **Arizona** General Education Certificate (AGEC) Courses (A.S.)

#### FRESHMAN COMPOSITION

ENG 101 Freshman Composition I OR

ENG 107 First-Year Composition I (for

Multilingual Writers)

ENG 102 Freshman Composition II OR

ENG 108 First-Year Composition II

(for Multilingual Writers)

#### MATHEMATICS

MAT 220 Calculus I with Analytic Geometry or approved higher level mathematics

#### ARTS

ARH 141 Survey of World Art 1

ARH 142 Survey of World Art 2

ENG 281 Film Studies

MUS 120 Music Appreciation

THE 101 Survey of Theatre

THE 102 History of Contemporary Theatre

#### HUMANITIES

AGS 101 Solving the Problems of the World

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 216 Persuassive Writing on Public Issues

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

ENG 251 American Literature to 1860

ENG 252 American Literature 1860 to Present

ENG 260 African American Literature

ENG 261 Shakespeare

ENG 265 Women Writers

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** 

REL 210 Introduction to the Old Testament (Hebrew Bible)

REL 220 Introduction to the New Testament

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

AJS 225 Criminology

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/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

This 200 Thistory 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 140 Positive 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

SPA 281 Mexican American History

#### PHYSICAL & BIOLOGICAL SCIENCES

BIO 181 General Biology (Majors) I

BIO 182 General Biology (Majors) II

CHM 151 General Chemistry I

CHM 152 General Chemistry II

PHY 121 University Physics I PHY 131 University Physics II

#### ADDITIONAL COURSES

AST 100 Astronomy

AST 130 The Planets

BIO 108 Plants and People

BIO 109 Natural History of the Southwest

BIO 156 Human Biology for Allied Health

BIO 160 Intro to Anatomy and Physiology

BIO 181 General Biology (Majors) I

BIO 182 General Biology (Majors) II

BIO 201 Human Anatomy and Physiology I

BIO 202 Human Anatomy and Physiology II

BIO 205 Microbiology

BIO 254 Entomology

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 Introduction to Ordinary
Differential Equations

OCN 110 Oceanography

PHY 121 University Physics I

PHY 131 University Physics II

PLS 100 Plant Science

PLS 211 Soils

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# **Arizona** General Education Associate in Applied Science (A.A.S.) Courses

#### FRESHMAN COMPOSITION

ENG 100 Intro to Composition

ENG 101 Freshman Composition I OR

ENG 107 First-Year Composition I (for Multilingual Writers)

ENG 102 Freshman Composition II OR

ENG 108 First-Year Composition II (for

Multilingual Writers)

#### MATHEMATICS

MAT 105 Mathematics for the Applied Sciences

or approved higher level mathematics

#### ARTS

ARH 141 Survey of World Art 1

ARH 142 Survey of World Art 2

ENG 281 Film Studies

MUS 120 Music Appreciation

THE 101 Survey of Theatre

THE 102 History of Contemporary Theatre

#### **HUMANITIES**

AGS 101 Solving the Problems of the World

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 216 Persuassive Writing on Public Issues

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 260 African American Literature

ENG 261 Shakespeare

ENG 265 Women Writers

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

REL 210 Introduction to the Old Testament (Hebrew Bible)

REL 220 Introduction to the New Testament

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

AJS 225 Criminology

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 130 State and Local Politics

POS 140 Intro to Comparative Politics

PSY 101 Intro to Psychology

PSY 140 Positive 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

SPA 281 Mexican American History

#### 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 156 Human Biology for Allied Health

BIO 160 Intro to Anatomy and Physiology

BIO 181 General Biology (Majors) I

BIO 182 General Biology (Majors) II

BIO 201 Human Anatomy and Physiology I BIO 202 Human Anatomy and Physiology II

BIO 205 Microbiology

BIO 254 Entomology

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 University Physics I

PHY 121 University Physics I

PHY 131 University Physics II PLS 100 Plant Science

PLS 211 Soils

#### 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

ENG 290 Creative Non-Fiction Writing

ENG 291 Fiction Writing

ENG 292 Poetry Writing

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

MAT 227 Discrete Mathematics

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 Compos	ition	I or 🔲 ENG 107 and	I ☐ ENG 102 or ☐ E	NG 108	
B Mathematics (sele	ct one course from the fo	llowing courses) 🔲 MAT 1	142, 150, 151, 172, 187, 21	2, 215, 220, 230, 241, 252	, 262, 270
C Arts & Humanities	(SELECT AT LEAST ONE	COURSE FROM THE AR	TS LIST)		
☐ ARH 141, 142 (H)	☐ ENG 281 (H, WI)	☐ MUS 120 (H)	☐ THE 101 (H)	☐ THE 102 (H)	
AND (SELECT AT	LEAST ONE COURSE FRO	M THE HUMANITIES LI	st)		
<b>AGS 101</b> (C, G)	☐ AJS 123 (H, WI)	☐ ENG 170 (H)	☐ ENG 180 (H)	☐ ENG 185 (C)	☐ ENG 186 (C)
<b>ENG 190</b> (C)	☐ ENG 216 (G, WI)	☐ ENG 220 (H, WI)	☐ ENG 231, 232 (C, WI)	<b>ENG 241, 242</b> (H, WI)	<b>ENG 245</b> (C, WI)
<b>ENG 251, 252</b> (H,WI)	☐ ENG 260 (C, H, WI)	☐ ENG 261 (H, WI)	☐ ENG 265 (H, WI)	<b>PHI 101</b> (C, G, H)	<b>PHI 103</b> (G)
<b>PHI 105</b> (C, G,H, WI)	☐ PHI 210 (H)	☐ PHI 220 (C)	☐ <b>PHI/REL 233</b> (C, G, H, W	) <b>PHI 240</b> (C, H, WI)	
<b>PHI/POS 257</b> (C, G, H W	) <b>REL 201</b> (C, G, H, WI)	☐ REL 210 (C, G, H)	☐ <b>REL 220</b> (C, G, H)	☐ SPA 260 (C)	☐ SPA 261 (C)
<b>SPA 263</b> (C)	☐ SPA 265 (C)				
D Social & Behaviora	l Sciences				
<b>AJS 225</b> (C)	<b>ANT 100</b> (G)	<b>ANT 120</b> (G)	<b>ANT 130</b> (G)	☐ ANT 140 (C)	☐ ECE 240 (C, WI)
<b>ECN 240</b> (G)	☐ ECN 250 (G)	☐ FAS/SOC 160 (C)	☐ FAS 204 (C, WI)	☐ FAS 220 (C)	☐ FAS/PSY 238 (C, W
<b>GEO 105</b> (G)	☐ HIS 110 (H, WI), 111 (H, W	/l) <b>HIS 121, 122</b> (H)	☐ HIS 220 (C)	☐ HIS 230 (C, H, WI)	☐ HIS 240, 241 (H)
☐ HIS 280 (C, H)	☐ JRN 100 (H)	<b>POS 100</b> (G)	☐ POS 110 (H, WI)	<b>POS 120</b> (G, WI)	<b>POS 130</b> (H, WI)
<b>POS 140</b> (C, WI)	☐ PSY 101 (C)	☐ PSY 140 (C)	☐ <b>PSY 290</b> (G, WI)	☐ SOC 101 (C)	☐ SOC/PSY 170 (C)
<b>SOC 230</b> (C)	☐ SOC 240 (C)	☐ SPA 281 (C, H, WI)			
E Physical & Biologic	al Sciences				
<b>AST 100</b> (G)	☐ <b>AST 130</b> (G)	☐ <b>BIO 100</b> (G)	☐ <b>BIO 108</b> (G)	☐ BIO 109 (G)	☐ BIO 156
<b>BIO 160</b> (G)	☐ BIO 181 (G), 182 (G)	☐ BIO 201 (G), 202 (G)	☐ BIO 205 (G)	☐ <b>BIO 254</b> (G)	☐ CHM 130 (G)
<b>CHM 151, 152</b> (G)	<b>ENV 101</b> (G)	<b>GLG 101</b> (G)	<b>GLG 102</b> (G)	<b>GLG 110</b> (G)	<b>GPH 110</b> (G)
<b>GPH 171</b> (G)	<b>GPH 213</b> (G)	<b>OCN 110</b> (G)	<b>PHY 111, 112</b> (G)	<b>PHY 121, 131</b> (G)	<b>PLS 100</b> (G)
<b>PLS 211</b> (G)					
F Additional	(SELECT COURSES ACC		LANGUAGE PROFICIEN	CY REQUIREMENT)	
_	cial & Behavioral (section D)				
☐ ASL 101 (C)	☐ ASL 102 (C)	☐ ASL 201 (C)	☐ ASL 202 (C)	CIS 105 (H)	CIS 120 (H)
☐ CIS 154 (G)	☐ ENG 290 (C, WI)	☐ ENG 291 (C, WI)	☐ ENG 292 (C, WI)	☐ FRE 101 (C)	☐ FRE 102 (C)
<b>FRE 201</b> (C)	☐ FRE 202 (C)	☐ GER 101 (C)	☐ GER 102 (C)	☐ GER 201 (C)	☐ GER 202 (C)
<b>MAT 119</b> (C, WI)	☐ MAT 227 (G, H)	☐ 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	n (GE) courses are CRITICAL IN	NQUIRY (CI).			
AWARENESS AREAS—one	e cultural (C) course and one g	global (G) or historical (H) cour	rse are required.		

Freshman Composition					
3 Mathematics (sele	ct one course from the fol	lowing courses) 🔲 MAT 2	212, 215, 220, 230, 241, 252	2, 262	
Arts & Humanities	(SELECT AT LEAST ONE	COURSE FROM THE AR	rs list)		
<b>ARH 141, 142</b> (H)	☐ ENG 281 (H, WI)	☐ MUS 120 (H)	☐ THE 101 (H)	☐ THE 102 (H)	
and (select at	LEAST ONE COURSE FRO	OM THE HUMANITIES LI	ST)		
<b>AGS 101</b> (C, G)	☐ AJS 123 (H, WI)	☐ ENG 170 (H)	☐ ENG 180 (H)	☐ ENG 185 (C)	☐ ENG 186 (C)
<b>ENG 190</b> (C)	☐ ENG 216 (G, WI)	☐ ENG 220 (H, WI)	<b>ENG 231, 232</b> (C, WI)	☐ ENG 241, 242 (H, WI)	<b>ENG 245</b> (C, WI)
<b>ENG 251, 252</b> (H,WI)	☐ ENG 260 (C, H, WI)	☐ ENG 261 (H, WI)	☐ ENG 265 (H, WI)	<b>PHI 101</b> (C, G, H)	<b>PHI 103</b> (G)
<b>PHI 105</b> (C, G,H, WI)	<b>PHI 210</b> (H)	☐ PHI 220 (C)	<b>PHI/REL 233</b> (C, G, H, WI)	<b>PHI 240</b> (C, H, WI)	
] <b>PHI/POS 257</b> (C, G, H W	) REL 201 (C, G, H, WI)	☐ REL 210 (C, G, H)	☐ <b>REL 220</b> (C, G, H)	☐ SPA 260 (C)	☐ SPA 261 (C)
SPA 263 (C)	☐ SPA 265 (C)				
Social & Behaviora	l Sciences				
<b>AJS 225</b> (C)	<b>ANT 100</b> (G)	<b>ANT 120</b> (G)	<b>ANT 130</b> (G)	<b>ANT 140</b> (C)	☐ ECE 240 (C, WI)
<b>ECN 240</b> (G)	☐ ECN 250 (G)	☐ FAS/SOC 160 (C)	☐ FAS 204 (C, WI)	☐ FAS 220 (C)	☐ FAS/PSY 238 (C, V
<b>GEO 105</b> (G)	☐ HIS 110 (H, WI), 111 (H, V	VI) HIS 121, 122 (H)	☐ HIS 220 (C)	☐ HIS 230 (C, H, WI)	☐ HIS 240, 241 (H)
] HIS 280 (C, H)	<b>JRN 100</b> (H)	<b>POS 100</b> (G)	<b>POS 110</b> (H, WI)	<b>POS 120</b> (G, WI)	<b>POS 130</b> (H, WI)
POS 140 (C, WI)	☐ PSY 101 (C)	☐ PSY 140 (C)	<b>PSY 290</b> (G, WI)	☐ SOC 101 (C)	☐ SOC/PSY 170 (C)
SOC 230 (C)	☐ SOC 240 (C)	☐ SPA 281 (C, H, WI)			
Physical & Biologic	cal Sciences				
<b>AST 100</b> (G)	<b>AST 130</b> (G)	☐ BIO 100 (G)	☐ BIO 108 (G)	☐ BIO 109 (G)	☐ BIO 156
<b>BIO 160</b> (G)	☐ BIO 181 (G), 182 (G)	☐ BIO 201 (G), 202 (G)	<b>BIO 205</b> (G)	<b>□</b> BIO 254(G)	<b>CHM 130</b> (G)
CHM 151, 152 (G)	☐ ENV 101 (G)	<b>GLG 101</b> (G)	☐ GLG 102 (G)	<b>GLG 110</b> (G)	<b>GPH 110</b> (G)
<b>GPH171</b> (G)	<b>GPH 213</b> (G)	<b>OCN 110</b> (G)	<b>PHY 111, 112</b> (G)	<b>PHY 121, 131</b> (G)	<b>PLS 100</b> (G)
PLS 211 (G)					
Computer Informa	tion Systems				
CIS 105 (H)	☐ CIS 120 (H)				_
Additional	(SELECT COURSES ACC	ORDING TO MAIOR AND	LANGUAGE PROFICIENC	y requirement)	
_	rts & Humanities (section C) a		2	1	_
From So	ocial & Behavioral (section D)	above			
<b>ASL 101</b> (C)	☐ ASL 102 (C)	☐ ASL 201 (C)	<b>ASL 202</b> (C)	CIS 105 (H)	CIS 120 (H)
CIS 154 (G)	☐ ENG 290 (C, WI)	☐ ENG 291 (C, WI)	☐ ENG 292 (C, WI)	☐ FRE 101 (C)	☐ FRE 102 (C)
FRE 201 (C)	☐ FRE 202 (C)	GER 101 (C)	GER 102 (C)	GER 201 (C)	<b>GER 202</b> (C)
MAT 119 (C, WI)	☐ MAT 227 (G, H)	☐ 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)		
	n (GE) courses are CRITICAL II	NQUIRY (CI).			
WARENESS AREAS—on	e cultural (C) course and one g	global (G) or historical (H) cou	rse are required.		

A Freshman Composit	tion 🔲 ENG 101	or Leng 107 and	d 🔲 ENG 102 or 🔲 E	NG 108	
B Mathematics (select	t one course from the foll	owing courses) 🔲 MAT	220, 230, 241, 252, 262		
C Arts & Humanities (	SELECT AT LEAST ONE	COURSE FROM THE AF	ets list)		
<b>ARH 141, 142</b> (H)	☐ ENG 281 (H, WI)	☐ MUS 120 (H)	☐ THE 101 (H)	☐ THE 102 (H)	
and (select at l	EAST ONE COURSE FRO	M THE HUMANITIES I	ist)		
<b>AGS 101</b> (C, G)	☐ AJS 123 (H, WI)	☐ ENG 170 (H)	☐ ENG 180 (H)	☐ ENG 185 (C)	☐ ENG 186 (C)
<b>ENG 190</b> (C)	☐ ENG 216 (G, WI)	☐ ENG 220 (H, WI)	<b>ENG 231, 232</b> (C, WI)	<b>ENG 241, 242</b> (H, WI)	<b>ENG 245</b> (C, WI)
<b>ENG 251, 252</b> (H,WI)	☐ ENG 260 (C, H, WI)	☐ ENG 261 (H, WI)	☐ ENG 265 (H, WI)	☐ <b>PHI 101</b> (C, G, H)	<b>PHI 103</b> (G)
<b>PHI 105</b> (C, G,H, WI)	☐ PHI 210 (H)	☐ PHI 220 (C)	☐ <b>PHI/REL 233</b> (C, G, H, W	) <b>PHI 240</b> (C, H, WI)	
<b>PHI/POS 257</b> (C, G, H WI)	☐ REL 201 (C, G, H, WI)	☐ <b>REL 210</b> (C, G, H)	☐ <b>REL 220</b> (C, G, H)	☐ SPA 260 (C)	☐ SPA 261 (C)
SPA 263 (C)	☐ SPA 265 (C)				
Social & Behavioral	Sciences				
<b>AJS 225</b> (C)	☐ <b>ANT 100</b> (G)	☐ ANT 120 (G)	☐ ANT 130 (G)	☐ ANT 140 (C)	☐ ECE 240 (C, WI)
<b>ECN 240</b> (G)	☐ ECN 250 (G)	☐ FAS/SOC 160 (C)	☐ FAS 204 (C, WI)	☐ FAS 220 (C)	□FAS/PSY 238 (C, W
<b>GEO 105</b> (G)	☐ HIS 110 (H, WI), 111 (H, WI	) 🔲 HIS 121, 122 (H)	☐ HIS 220 (C)	☐ HIS 230 (C, H, WI)	☐ HIS 240, 241 (H)
☐ HIS 280 (C, H)	☐ JRN 100 (H)	<b>POS 100</b> (G)	<b>POS 110</b> (H, WI)	<b>POS 120</b> (G, WI)	☐ POS 130 (H, WI)
POS 140 (C, WI)	☐ PSY 101 (C)	☐ PSY 140(C)	<b>PSY 290</b> (G, WI)	☐ SOC 101 (C)	☐ SOC/PSY 170 (C)
SOC 230 (C)	☐ SOC 240 (C)	☐ SPA 281 (C, H, WI)			
E Physical & Biologica	al Sciences (SELECT ONE	SEQUENCE)			
BIO 181 (G), 182 (G,)	☐ CHM 151, 152 (G)	<b>PHY 121, 131</b> (G)			
Additional Courses	(SELECT COURSES ACCO	ording to major)			6-
<b>AST 100</b> (G)	☐ AST 130 (G)	☐ BIO 108 (G)	☐ BIO 109 (G)	☐ BIO 156	☐ BIO 160 (G)
BIO 181 (G), 182 (G)	☐ BIO 201 (G), 202 (G)	☐ BIO 205 (G)	☐ <b>BIO 254</b> (G)	☐ CHM 151, 152 (G)	<b>ENV 101</b> (G)
GLG 101 (G)	☐ GLG 102 (G)	<b>GLG 110</b> (G)	<b>GPH 110</b> (G)	<b>GPH 171</b> (G)	<b>GPH 213</b> (G)
☐ MAT 230	☐ MAT 241	☐ MAT 262	<b>OCN 110</b> (G)	<b>PHY 121, 131</b> (G)	<b>PLS 100</b> (G)
PLS 211 (G)					
All AWC General Education	(GE) courses are CRITICAL IN	QUIRY (CI).			
AWARENESS AREAS—one	cultural (C) course and one g	lobal (G) or historical (H) co	urse are required.		
WRITING INTENSIVE (WI)—	-two WI courses are required.	ENG 101 is a prerequisite t	or all WI courses.		
TOTAL REQUIRED AG	<u> </u>				37–3

AWC 2021–2022 Associate in Applied Science (A.A.S.) General Education Checksheet Cred					
A Freshman Compos	sition	0	ENG 107	102 or 🔲 ENG 108	6
B Mathematics (sel	ect one course from the fo	ollowing courses) 🔲 MAT 1	105, 121, 142, 150, 151, 1	72, 187, 212, 215, 220, 230	), 241, 252, 262, 270 3
C Arts & Humanities					3
<b>AGS 101</b> (C, G)	☐ AJS 123 (H, WI)	<b>ARH 141, 142</b> (H)	☐ ENG 170 (H)	☐ ENG 180 (H)	☐ ENG 185 (C)
☐ ENG 186 (C)	☐ ENG 190 (C)	☐ ENG 216 (G, WI)	☐ ENG 220 (H, WI)	☐ ENG 231, 232 (C, WI)	<b>ENG 241, 242</b> (H, WI)
☐ ENG 245 (C, WI)	<b>ENG 251, 252</b> (H, WI)	<b>ENG 260</b> (C, H, WI)	☐ ENG 261 (H, WI)	☐ ENG 265 (H, WI)	☐ ENG 281 (H, WI)
☐ MUS 120 (H)	☐ PHI 101 (C, G, H)	<b>PHI 103</b> (G)	<b>PHI 105</b> (C, G, H, WI)	☐ PHI 210 (H)	☐ PHI 220 (C)
☐ <b>PHI/REL 233</b> (C, G, H, W	/l) <b>PHI 240</b> (C, H, WI)	<b>PHI/POS 257</b> (C, G, H, W	) <b>REL 201</b> (C, G, H, WI)	☐ REL 210 (C, G, H)	☐ REL 220 (C, G, H)
☐ SPA 260 (C)	☐ SPA 261 (C)	☐ SPA 263 (C)	☐ SPA 265 (C)	☐ THE 101 (H)	☐ THE 102 (H)
D Social & Behaviora	al Sciences				
☐ AJS 225 (C)	☐ <b>ANT 100</b> (G)	☐ ANT 120 (G)	☐ ANT 130 (G)	☐ ANT 140 (C)	☐ ECE 240 (C, WI)
☐ ECN 100 (G)	☐ ECN 240 (G)	☐ ECN 250 (G)	☐ FAS/SOC 160 (C)	☐ FAS 204 (C, WI)	☐ FAS 220 (C)
FAS/PSY 238 (C, WI)	<b>GEO 105</b> (G)	☐ HIS 110 (H, WI), 111 (H, W	l) <b>HIS 121, 122</b> (H)	☐ HIS 220 (C)	☐ HIS 230 (C, H, WI)
☐ HIS 240, 241 (H)	☐ HIS 280 (C, H)	☐ JRN 100 (H)	<b>POS 100</b> (G)	<b>POS 110</b> (H, WI)	<b>POS 120</b> (G, WI)
<b>POS 130</b> (H, WI)	<b>POS 140</b> (C, WI)	<b>PSY 101</b> (C)	<b>PSY 140</b> (C)	<b>PSY 290</b> (G, WI)	☐ SOC 101 (C)
SOC/PSY 170 (C)	☐ SOC 230 (C)	☐ SOC 240 (C)	☐ SPA 281 (C, H, WI)		
E Physical & Biologic	cal Sciences				
<b>AST 100</b> (G)	<b>AST 130</b> (G)	<b>BIO 100</b> (G)	<b>BIO 108</b> (G)	<b>BIO 109</b> (G)	☐ BIO 156
☐ BIO 160 (G)	☐ BIO 181 (G), 182 (G)	☐ BIO 201 (G), 202 (G)	☐ BIO 205 (G)	☐ BIO 254(G)	☐ CHM 130 (G)
☐ CHM 151, 152 (G)	☐ ENV 101 (G)	☐ GLG 101 (G)	<b>GLG 102</b> (G)	☐ GLG 110 (G)	<b>GPH 110</b> (G)
<b>GPH 171</b> (G)	<b>GPH 213</b> (G)	OCN 110 (G)	<b>PHY 111, 112</b> (G)	<b>PHY 121, 131</b> (G)	<b>PLS 100</b> (G)
☐ PLS 211 (G)					
_	s (SELECT COURSE ACCO	ording to major)			2
☐ ASL 101 (C)	☐ ASL 102 (C)	☐ ASL 201 (C)	☐ ASL 202 (C)	☐ CIS 105 (H)	☐ CIS 120 (H)
CIS 154 (G)	☐ ENG 290 (C, WI)	☐ ENG 291 (C, WI)	☐ ENG 292 (C, WI)	☐ FRE 101 (C)	☐ FRE 102 (C)
☐ FRE 201 (C)	☐ FRE 202 (C)	☐ GER 101 (C)	☐ GER 102 (C)	☐ GER 201 (C)	<b>GER 202</b> (C)
☐ MAT 119 (C, WI)	☐ MAT 227 (G, H)	☐ PER 100 to 187	☐ 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)	

TOTAL REQUIRED A.A.S. CREDITS—

# **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.

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# Academic Programs

Types of Programs

General Program Requirements

Institutional Partnerships

Degrees and Certificates

## 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 60-64 credits towards the usual 120 credits required for a bachelor's degree, thus placing them in junior status and 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 coursework 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 Vice President for Learning Services or designee. Courses taken for the Arizona General Education Curriculum (AGEC) must be completed under Grading System I except upon approval of the Vice President for Learning Services or designee. Upon instructor approval, the portfolio development course [any subject] 179 may be used to satisfy one or more major and/or departmental course requirements.

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 56-60 credits required at the university after the 60-64 credits are 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.
- 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 appropriate administrator.
- 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 appropriate administrator 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. Upon instructor approval, the portfolio development course [any subject] 179 may be used to satisfy one or more major and/or departmental course requirements.
- **Residency**—Six credits of the certificate program must be taken in residence at AWC.

#### AGEC Certificate Requirements

- Students must complete 35 credits of AGEC 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 AGEC certificate.
- Residency—A minimum of 6 credits of certificate course work must be completed at AWC before completion of an AGEC can be certified.

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.

#### Institutional Partnerships

Go to **www.azwestern.edu/curriculum** for more information on Arizona Western Colleges' articulation agreements. Visit the Transfer Services www.azwestern.edu/transfers to learn about the pathways between AWC and all three in-state universities (ASU, NAU, UA). Pathways have been articulated to allow students to complete their 2yr Associates degree at AWC and meet the required coursework for the first 2yrs at NAU. The AAS to BAS agreement provides students who are pursuing or have earned an Associate of Applied Science degree to transfer up to 75 credit hours for the specified courses at the university granting the BAS degree.

## State University Partnerships



Complete your bachelor's degree at Arizona State University ASU consistently ranks as the top school in Arizona for academic programs, innovation and value. As a community college student, there are a few ways to earn your bachelor's degree at ASU. Find what works best for you, and we'll help you plan your path.

Start your transfer plan with MyPath2ASU™ — a set of customized tools to help transfer students from U.S. regionally accredited institutions (including international students transferring from U.S. regionally accredited institutions).  $MyPath2ASU^{TM}$  creates a seamless transfer experience to ASU after earning credits or an associate's degree from a U.S. community college or university. Choose from more than 400 pathways into an on-ground or online ASU degree program, and have access to personalized benefits to help you navigate the transfer experience. Plan a path into your major of choice by taking classes that transfer to ASUshortening your time to degree completion. A simple, seamless transition into one of the nation's top 10 universities for undergraduate education — that's MyPath2ASU™. Learn more and sign up here: https://admission.asu.edu/ transfer/MyPath2ASU

AAS to BAS With a completed AAS degree, you can receive 60 credits (with a possibility of up to 75 credits) toward an aligned BAS degree program at ASU in a related area of study. You will still need to complete ASU degree requirements in order to earn the BAS degree.

ASU@Yuma Did you know you can also earn an ASU degree in Yuma? Complete your associate degree at AWC, then pursue your ASU bachelor's degree through classes delivered on the AWC campus, all at a reduced tuition rate.

The following ASU programs are currently offered in Yuma:

- Bachelor of Arts in Education in elementary education and special education
- Bachelor of Arts in Education in secondary education
- Bachelor of Arts in organizational leadership
- Bachelor of Science in criminology and criminal justice

For more information: https://admission.asu.edu/transfer/pathway-programs

## NORTHERN ARIZONA UNIVERSITY

Northern Arizona University students are achieving their goals for personal and professional success across the state. Students have choices at NAU—what to study and where to study.

- Flagstaff Study in Arizona's best college town, home to NAU Athletics and views of the San Francisco Peaks.
- Online Choose among high-demand majors and complete your degree online.
- Statewide Earn a bachelor's or master's degree at one of 20+ statewide locations.
- Yuma Stay in Yuma and earn a degree by taking classes on the AWC campus.

#### **About NAU-Yuma**

NAU-Yuma is a branch campus of the university that offers bachelor's and master's degrees to help you advance your career. Classes are delivered at AWC, making this an excellent choice to continue living and working in Yuma while pursuing your degree. Explore popular degrees in these areas and more:

- Allied Health
- Biological and Natural Resource Sciences
- Business Administration
- Elementary Education
- Justice Studies
- Nursing
- Psychology
- Social Work
- Sociology
- Spanish

Experience a smooth transfer with 2NAU

If you plan to transfer to NAU after completing your community college coursework, sign up to participate in the 2NAU pathway program, which will help you plan for a smooth transition to the university. nau.edu/2nau

- Save time and money.
- Maximize your transfer credits.
- Receive personalized guidance to stay on track.
- Potentially qualify for a 2NAU Scholarship.

Find out how your credits transfer with JacksPath

JacksPath is an innovative online tool that can help you see how your credits will transfer. You'll be able to figure out what classes to take at AWC, determine your progress toward degree completion, and see a list of courses you need to take at NAU to finish your bachelor's degree. *jackspath.nau.edu* 

#### Get started on your NAU degree

Take the first step and contact your NAU Student Service Coordinator who can help you sign up for the 2NAU pathway program, or assist you with the admission process.

#### www.nau.edu/Yuma

928-317-6450 nau.yuma@nau.edu



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

The University of Arizona- Yuma is a local distance campus where students have the UA experience while remaining connected to their home town. Dedicated to serving Imperial, La Paz, and Yuma Counties. The University of Arizona- Yuma campus provides 20 degrees in a student-centered learning environment focused on student's individual success and educational achievement of students in pursuit of STEM-based careers. UA-Yuma provides innovative approaches enhancing student aspirations for and engagement with STEM career paths. UA-Yuma's goal is to increase the number of local students qualified to pursue careers in the local STEM-related industry areas of Agriculture, Engineering, Computer Technology, and Health & Safety.

UA Yuma programs are tailored to meet the needs of working students of all ages. Students complete their first two years at Arizona Western College in their specific area of study and receive their AGEC and Associates degree. Then students complete their last two years and a bachelor's degree in Yuma in a 2+2 model. UA Yuma also has reverse transfer. Many of our students complete their first

year or two on the Tucson main campus and then return to Yuma to complete their last two years. This reverse transfer allows UA Yuma students to intern and work in their preferred location and industry of choice, getting experience, and building their resumes and connections while completing their degree.

If you plan to transfer for a University of Arizona degree, make sure to sign up for UA Bridge Program (uabridge.arizona.edu). The University of Arizona Bridge application is a partnership between Arizona Western College and the University of Arizona that allows students to obtain more information and resources on any degree pursued at UA. It provides guaranteed admission into most UA undergraduate degree programs and, most intriguingly, it provides a renewable \$2,000 scholarship. Make sure to complete the bridge application while still an AWC student. Once the bridge application is submitted, a dedicated UA transfer staff member will contact students interested in transferring. In addition, students are given access to a CatCard, the UA Yuma Building and computers, a UA email account, and other resources, including a UA Transfer Peer Mentor, to facilitate the process. For more UA Yuma Resources, download the UAZ Yuma App available for iPhone.

The UAZ Yuma app is an app to help current and prospective students with their University of Arizona Yuma experience. Current students can find helpful links to their most visited University of Arizona Yuma websites, like D2L and UAccess. Students can also easily find their 8-week semester plans to help them plan their schedules. Campus maps and building pictures help students navigate the campus.

For more information visit *https://yuma.arizona.edu* or call: 928-782-1914

## **Other Institutional Partnerships**

#### **ACE**

American College of Education offers students affordability and quality education. When you are ready to earn a bachelor of Science in Healthcare Administration degree or advance from RN to MSN, AWC and ACE's partnership offers accelerated online programs designed to fit your lifestyle and budget to get you to the next step in your career. Graduates from AWC, who apply and are admitted, can take advantage of the waived admission application fee and a program-based grant over the term of attendance at ACE. Fill out the Request Information Form to start your transfer process.

Go to American College of Education's **https://www.ace.edu/** to move your career forward with ACE.

#### Ashford University (AU)

Continue your education online at Ashford University. You worked hard to earn your credits at Arizona Western College and Ashford honors your hard work by allowing you to transfer up to 90 approved credits toward a bachelor's degree. Ashford offers undergraduate and graduate programs in relevant disciplines such as business, education, health care, criminal justice, information technology, and more. All programs are offered online to fit into your busy schedule and all classes are taught by experts with advanced academic preparation.

Find out how you could apply for your credits from Arizona Western College toward a degree at https://www.ashford.edu/

#### Charter Oak State College

Charter Oak State College (COSC) has been in partnership with AWC for 11 years. Charter Oak State College serves non-traditional students, adult students, and those students seeking flexibility and affordability in degree completion. With online degree programs, there is no need to travel to a campus after work or on the weekends. AWC's programs in Public Safety Administration may be applicable with COSC Bachelorette degrees.

To learn more about continuing your education at Charter Oak *https://www.charteroak.edu/* or contact them directly at (860) 515-3800.

#### **Grand Canyon University**

Students who have enrolled at Arizona Western College will find it easy to transfer the credits earned towards a Bachelor's 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.

Request a Lopes Credit Evaluation to help you find out exactly how many credits will transfer to GCU for your chosen degree. A Lopes specialist will evaluate your individual courses and help you with the transfer process every step of the way.

Go to https://www.gcu.edu/ for more information.

#### **SNHU**

Southern New Hampshire University is a private, nonprofit, accredited institution with more than 3,000 on campus students, over 130,000 online students and an alumni network of more than 100,000, making it one of the fastest growing universities in the nation. With an established partnership with Arizona Western College, SNHU also offers affordable, accessible degree programs to AWC graduates, AWC employees and their immediate family members with eligibility for a 10% tuition reduction for SNHU's online undergraduate and graduate programs, in addition to the waived undergraduate application fee.

Students may transfer up to 90 credits towards a bachelor degree program after institution review. SNHU is proud to offer over 200 transfer-friendly degree programs and flexible degree pathways to transfer students and alumni.

To learn more about continuing your education at SNHU, visit their **https://www.snhu.edu/** to learn more.

#### **UofPX**

Elevate your education by transferring your Arizona Western College credits toward a degree at University of Phoenix. When students enroll in classes at University of Phoenix, they will be assigned a personalized team of advisors to support them from enrollment through graduation. The faculty hold advanced degrees and work in the fields they teach - so students gain practical, real-time knowledge that is focused, challenging, and relevant. As a student, you'll have access to innovative education technologies and work in learning teams alongside other students, many of whom are working professionals. Take advantage of AWC's special fixed rate of \$350 per credit for your bachelor's degree, compared to the standard rate \$398 per credit.

Go to University of Phoenix's https://www.phoenix.edu/ to learn more.

## Areas of Study: Degrees & Certificates

The chart below is comprised of the general areas of study at Arizona Western College (AWC). All degrees and certificates are provided in full on the following pages.

Certificate		(AAS)	(AA, AS, ABus)
		Occupational Degree	Transfer Degree
Arts, Humanities, & Communication			
Art			•
Broadcasting		•	
Computer Graphics		•	
English			•
Media Arts	•	•	•
Music			•
Philosophy			•
Spanish			•
Television Production		•	
Theatre			•
Business & Computers	•		
Accounting	•	•	
Business		•	•
Computer Science			•
Computer Information Systems	•	•	
Computer Security	•		
Hotel/Restaurant Management			•
Informatics	•	•	
Networking	•		
Paralegal Studies	•	•	
Retail Management	•		
Sports Management			•
Education			
Early Childhood Education	•	•	•
Education—Elementary			•
Education—Secondary			•
Family Childcare Education	•		
Family Development Credential	•		
Infant and Toddler Education	•		
Preschool Education	•		_
Physical Education			•

Cccupational Degree   Degree	Certificate		(AAS)	(AA, AS, ABus)
Administration of Justice Studies  Community Health Worker  Computed Tomography  Customs and Border Protection  Cyber Criminology  Emergency and Disaster Management  EMS—Paramedic  EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics			'	
Community Health Worker Computed Tomography Customs and Border Protection Cyber Criminology Emergency and Disaster Management EMS—Paramedic EMT—Basic Exercise and Wellness Fire Science Homeland Security Law Enforcement Training Massage Therapy Nursing Public Safety Radiologic Technology  Science, Agriculture, Engineering & Math AgriCommerce Agricultural Systems Management Animal Production Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	Healthcare & Public Safety			
Computed Tomography Customs and Border Protection Cyber Criminology Emergency and Disaster Management EMS—Paramedic EMT—Basic Exercise and Wellness Fire Science Homeland Security Law Enforcement Training Massage Therapy Nursing Public Safety Radiologic Technology  Science, Agriculture, Engineering & Math AgriCommerce Agricultural Systems Management Animal Production Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	Administration of Justice Studies			•
Customs and Border Protection  Cyber Criminology  Emergency and Disaster Management  EMS—Paramedic  EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Community Health Worker	•	•	
Cyber Criminology  Emergency and Disaster Management  EMS—Paramedic  EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Computed Tomography	•		
Emergency and Disaster Management  EMS—Paramedic  EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Customs and Border Protection			•
Management  EMS—Paramedic  EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Cyber Criminology	•		•
EMT—Basic  Exercise and Wellness  Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics		•	•	
Exercise and Wellness Fire Science Homeland Security Law Enforcement Training Massage Therapy Nursing Public Safety Radiologic Technology  Science, Agriculture, Engineering & Math AgriCommerce Agricultural Systems Management Animal Production Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	EMS—Paramedic	•	•	
Fire Science  Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	EMT—Basic	Basic •		
Homeland Security  Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Exercise and Wellness	•		•
Law Enforcement Training  Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Fire Science	•	•	
Massage Therapy  Nursing  Public Safety  Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Homeland Security			•
Nursing Public Safety Radiologic Technology  Science, Agriculture, Engineering & Math AgriCommerce Agricultural Systems Management Animal Production Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	Law Enforcement Training	•	•	
Public Safety Radiologic Technology  Science, Agriculture, Engineering & Math AgriCommerce Agricultural Systems Management Animal Production Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	Massage Therapy	•	•	
Radiologic Technology  Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Nursing	•	•	
Science, Agriculture, Engineering & Math  AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Public Safety	•		
AgriCommerce  Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Radiologic Technology		•	
Agricultural Systems Management  Animal Production  Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Science, Agriculture, F	ing	ineering &	Math
Animal Production  Biology Chemistry Crop Production Engineering Environmental Sciences Food Science and Safety Geology Mathematics	AgriCommerce			•
Biology  Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Agricultural Systems Management	•	•	•
Chemistry  Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Animal Production			•
Crop Production  Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Biology			•
Engineering  Environmental Sciences  Food Science and Safety  Geology  Mathematics	Chemistry			•
Environmental Sciences  Food Science and Safety  Geology  Mathematics	Crop Production			•
Food Science and Safety  Geology  Mathematics	Engineering			•
Geology • Mathematics •	Environmental Sciences			•
Mathematics •	Food Science and Safety	•		
	Geology			•
Physics •	Mathematics			•
	Physics			•

## Areas of Study: Degrees & Certificates (continued)

The chart below is comprised of the general areas of study at Arizona Western College (AWC). All degrees and certificates are provided in full on the following pages.

Certific	Certificate		(AA, AS, ABus)
		Occupational Degree	Transfer Degree
Social and Behavioral	Scie	ences	
American Indian Studies			•
Family Development Credential	•		
Family Studies			•
History			•
Philosophy			•
Political Science			•
Psychology/Sociology			•
Social Work: U.SMexico Border Emphasis			٠
Technology, Trades &	Foo	od Science	
Air Conditioning and Refrigeration	•	•	
Automotive Technology	•	•	
Carpentry	•	•	
Construction/Industrial Safety	•		
Construction Trades Management		•	
Culinary Arts	•	•	
Dietetics	•		
Drafting CAD Technology	•	•	
Electrical Technology	•	•	
Geography			•
Industrial Technology	•	•	
Manufacturing	•	•	
Masonry	•		
Plumbing	•	•	
Professional IT	•		
Solar Photovoltaic Installation	•	•	
Small Unmanned Aerial Systems	٠		
Welding	•	•	

#### GENERAL DEGREES & CERTIFICATES

Upon instructor approval, the portfolio development course [any subject] 179 may be used to satisfy one or more major and/ or departmental course requirements.

Arizona General Education
Curriculum (AGEC)

Certificate

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

**Program Description:** Three AGEC certificates are available, AGEC-A (Arts), AGEC-B (Business), and AGEC-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 AGEC is best suited to their baccalaureate degree plans.

#### Arts (AGEC-A)

Major Code: CERT.AGECA

Contact: Advisement Services (928) 344-7624

<b>A.</b> I	Required major courses:
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Mathematics (MAT 142 College Mathematics
,	with Applications or approved higher level math) $3$
	Arts and Humanities (Select at least one course
1	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

#### Business (AGEC-B)

Major Code: CERT.AGECB

Contact: Advisement Services (928) 344-7624

A. Required major courses:	. 35
Freshman Composition (ENG 101 or 107 and	
ENG 102 or 108	6
Mathematics (MAT 212 Brief Calculus or approve higher level math)	

	Arts and Humanities (Select at least one course
	from the Arts list and one course from the
	Humanities list.)
	Social and Behavioral Sciences
	Physical and Biological Sciences 8
	Computer Information Systems (CIS 120 Computer Information Systems)3
	Additional Courses (see the AGEC-B Additional
	Courses list for possible selections)
S	cience (AGEC-S)
M	ajor Code: CERT.AGECS
C	ontact: Advisement Services, (928) 344-7624
Α.	Required major courses:
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	<b>ENG 102 or 108</b> )
	•
	<b>ENG 102 or 108</b> )
	ENG 102 or 108)
Se	ENG 102 or 108)

#### 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/a Capacal Education forces are as

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 AGEC-A and

2. create a block of credits: (to meet the required 60-64 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 60-64 credits

B. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math) 3
<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) 6
Social and Behavioral Sciences 6
Physical and Biological Sciences 8
Additional Courses (see the AGEC-A Additional
Courses list for possible selections) 6
Total credits required for degree: 60-64

#### Associate in Business (A.Bus.)

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.

Α.	Required	major courses:
	ACC 211	Financial Accounting3
	ACC 212	Managerial Accounting3
	BUA 220	Legal Environment of Business 3
	<b>ECN 240</b>	Principles of Macroeconomics 3
	ECN 250	Principles of Microeconomics 3
	<b>MAT 215</b>	Math Analysis for Business 4
	QBA 211	Quantitative Analysis

B. Other departmental requirements:3
Select an elective course from the following prefixed ACC, BUA, CIS, ECN, ENT, FIN, MGT, or MKT.
C. Arizona General Education Curriculum-Business (AGEC-B):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
Mathematics (MAT 212 Brief Calculus or approved higher level math)
<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) 6
Social and Behavioral Sciences 6
Physical and Biological Sciences 8
Computer Information Systems (CIS 105
Introduction to Business Information Systems <b>OR</b>
CIS 120 Introduction to Computer Information Systems)
Additional Courses (see the AGEC-B Additional

Total credits required for degree: . . . . . . . . . . . . 60

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

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:
Choose two concentration areas (each of which must be a minimum of 12 credits) from:
Business/Computers;
Fine Arts;
Humanities;
Mathematics/Sciences;
Languages/Communications;
Physical Education/Recreation/Sport;
Social Science;
Education/Nursing/Health;
Occupational/Technology
B. Other departmental requirements:
·
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)6
Mathematics (MAT 121 Intermediate Algebra or
approved higher level math) 3
Arts and Humanities
Social and Behavioral Sciences 3
Physical and Biological Sciences 4
Additional Courses (Select one course from any of the
Arizona General Education Course (AGEC) lists.) 3
D. General electives:
Total credits required for degree: 60-64

## 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 60-64 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 60-64 credits

B. Arizona General Education Curriculum-Science (AGEC-S):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math)5
<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) 6
Social and Behavioral Sciences
Select one sequence:  BIO 181 and 182 General Biology I and II,  CHM 151 and 152 General Chemistry I and II  PHY 121 and 131 Mechanics and Electricity and Magnetism  Additional Courses (see the AGEC-S Additional Courses list for possible selections)
Total credits required for degree: 60-64

#### Honors

Associates in Arts (A.A.)

Honors Liberal Arts Honors General Studies Honors Discretional Associates in Business (A.Bus.)

Honors Liberal Arts Honors General Studies Honors Discretional

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 and HON 181, 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 and HON 181, 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 and HON 181, 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:	5
HON 180 Honors Seminar 1	1
HON 181 Honors Seminar 2	1
HON 280 Honors Colloquium or	3
HON 285 Honors Capstone	

#### B. Other departmental requirements: . . . . . . 12–19

- 12–19\* additional Honors credits comprised of Honorsdesignated General Education courses and additional HON-prefixed courses.
- Liberal Arts Honors degree (18 or 19\* Honors credits + 8 credits of a foreign language)
- General Studies Honors degree (18 or 19\* Honors credits)
- Discretional 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

<sup>\*</sup> only eighteen credits are required for the A.S. degrees

## AREAS OF STUDY: DEGREES & CERTIFICATES

Upon instructor approval, the portfolio development course [any subject] 179 may be used to satisfy one or more major and/ or departmental course requirements.

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

Major Code: AAS.ACCT

Contact: Business and Social & Behavioral Science

(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:30
ACC 100 Introduction to Accounting 3
ACC 115 Computerized Accounting3
ACC 120 Income Tax Procedures
ACC 125 Introduction to Payroll Accounting3
ACC 211 Financial Accounting
ACC 212 Managerial Accounting3
ACC 220 Introduction to Cost Accounting 3
ACC 230 Principles of Fraud Examination3
ACC 240 Government Accounting
ACC 250 Financial Statement Analyses
B. Other departmental requirements:
BUA 100 Survey of Business
<b>BUA 100</b> Survey of Business
,
<b>CIS 121</b> Spreadsheet
CIS 121 Spreadsheet
CIS 121 Spreadsheet
CIS 121 Spreadsheet
CIS 121 Spreadsheet
CIS 121 Spreadsheet
CIS 121 Spreadsheet

English Composition (ENG 100, 101 or 107, or
<b>102</b> or <b>108</b> )
Mathematics (MAT 142 College Mathematics with
Applications or approved higher level math) 3
Arts and Humanities
Social and Behavioral Sciences
Physical and Biological Sciences 4
Additional Courses:
D. General electives:
Total credits required for degree:

#### Accounting

Certificate

Major Code: CERT.ACCT

**Contact:** Business and Social & Behavioral Science

(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.

Α.	Required	major courses:
	ACC 100	Introduction to Accounting 3
	ACC 115	Computerized Accounting3
	ACC 120	Income Tax Procedures
	ACC 125	Introduction to Payroll Accounting3
	ACC 211	Financial Accounting3
	ACC 212	Managerial Accounting3
	ACC 220	Introduction to Cost Accounting3
	ACC 230	Principles of Fraud Examination3
	ACC 240	Government Accounting3
	ACC 250	Financial Statement Analyses 3

P. Other departmental requirements: 12	P. Other departmental requirements 12
B. Other departmental requirements:	B. Other departmental requirements
<b>BUA 100</b> Survey of Business	Select one of the following emphases:
CIS 120 Introduction to Computer	
Information Systems <b>OR</b>	Administration of Justice Studies (12 credits- except
CIS 105 Introduction to Business	AJS 212, 241, 242, and 245)
Information Systems 3	AJS elective
Select one of the following courses:	AJS elective
<b>ECN 100</b> Introduction to Economics	AJS elective
ECN 240 Principles of Macroeconomics 3	AJS elective
ECN 250 Principles of Microeconomics 3	Homeland Security
ECN 250 Frinciples of Microeconomics	<b>HLS 101</b> Introduction to Homeland Security 3
Total credits required for certificate: 42	<b>HLS 107</b> Introduction to Cyber Terrorism
Total distance required for continuation	HLS 203 Bioterrorism and Weapons of
	Mass Destruction (Prereq AJS-191) 3
Administration of Justice Studies	HLS 215 Critical Incident Management
Administration of Justice Studies	for Public Safety
Associate in Arts (A.A.) degree	Corrections
·	AJS 212 Juvenile Justice Procedures
Pathway: AA/SR	AJS 241 Institutional Corrections
Major Code: AA.ADMJU	AJS 242 Community Corrections
<b>Contact:</b> Career and Technical Education (928) 344-7567	AJS 245 Correctional Management and Supervision 3
Program Purpose: Graduates will demonstrate (1)	C. Arizona General Education Curriculum-Arts
basic knowledge in administration of justice studies	(AGEC-A):
that will prepare them to transfer to the university	Freshman Composition (ENG 101 or 107 and
and (2) competency in communication, critical think-	<b>ENG 102 or 108</b> ) 6
ing, quantitative analysis, and technological applications.	Mathematics (MAT 142 College Mathematics
	with Applications or approved higher level math) 3
<b>Program Description:</b> There is an ever increasing threat against the citizens of the United States at	<b>Arts and Humanities (AJS 123</b> Ethics and Criminal Justice recommended. Select at least one course from
home and abroad. As a result, there is a need for	the Arts list and one course from the Humanities list.)6
individuals in the various agencies of local, state and	Social and Behavioral Sciences 6
federal government to combat this threat. The pro-	Physical and Biological Sciences 8
gram will assist the community in meeting this need	Additional Courses (see above or see the AGEC-A
by providing students with a basic foundation in the	Additional Courses list for possible selections) 6
administration of justice, homeland security, or corrections.	
Tections.	D. General electives:
A. Required major courses:	Total credits required for degree:
AJS 101 Introduction to Administration	,
of Justice	* Upon instructor approval AJS 105 may be used to satisfy
AJS 109 Substantive Criminal Law	one or more major and/or departmental course require ments
AJS 210 Court Function	monta
<b>AJS 225</b> Criminology	

## Advanced Manufacturing CAD

Certificate

Major Code: CERT.ADVCD

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** To learn drafting techniques using Computer Aided Drafting (CAD) and Solid Works software.

**Program Description:** The certificate provides an understanding of graphical communications, including sketching, computer-aided drafting, and parametric modeling.

A. Required major courses:	1
CNC 201 Computer Numerical Controlled	
Machine Setup	,
DFT 100 AutoCAD 1- Drafting3	,
<b>DFT 180</b> CAD working with Solid Works3	
Total credits required for certificate:	,

#### AgriCommerce

Associate in Business (A.Bus.) degree

Pathway: ABUS/SR

Major Code: ABUS.AGCOM

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate (1) basic knowledge in agricultural business 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 Commerce offered by The University of Arizona, Tucson and Yuma campus.

A. Required	major courses: 21	
ACC 211	Financial Accounting3	
ACC 212	Managerial Accounting3	,
BUA 220	Legal Environment of Business 3	

	ECN 240 Principles of Macroeconomics
В.	Other departmental requirements:
	AGB 230 Agricultural Business Management 3
C.	Arizona General Education Curriculum-Business (AGEC-B):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
D.	General electives:
	AGS 296 Agricultural Internship.       1         PLS 211 Soils
Γο	tal credits required for degree: 64

#### Agriculture, Occupational

Certificate

Major Code: CERT.AGOCC

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

**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 technicians 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.

A. Required major courses: 2	1-23
AGB 230 Agricultural Business Management	3
ECN 250 Principles of Microeconomics	3
PLS 100 Plant Science	4
<b>PLS 211</b> Soils	4
BIO 181 General Biology I OR	
GLG 101 Introduction to Geology 1 (Physical)	4
ACC 211 Financial Accounting OR	3
MAT 220 Calculus I with Analytic Geometry	5
B. Other departmental requirements:	. 12
Select 12 credits from the following courses:	
AGS 101 Agriculture - Solving the Problems of the World	3
AGS 201 Food Safety Practices and Managment.	4
AGS 220 Food Safety in Facilities	4
AGS 296 Agricultural Internship	. 1-4
ANS 100 Animal Industries	4
ANS 130 Livestock Production Management	3
ANS 240 Feeds and Feeding	4
PLS 110 Chemical Applications Using Integrated	
Pest Management	
PLS 120 Agricultural Entomology	
PLS 160 Alternative Crops of the Desert Southwe	
PLS 200 Introduction to Integrated Pest Manageme	
PLS 220 Crop Water Use, Evapotranspiration, and Irrigation	
PLS 230 Basic Crop Fertility	
PLS 240 Plant Propagation	
PLS 290 Vegetable Crop Production	
Total credits required for certificate:	3-35

## Agricultural Systems Management

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.AGSYS

Contact: Career and Technical Education (928) 344-

7567

**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:
<b>PLS 100</b> Plant Science
<b>PLS 211</b> Soils
AGB 230 Agriculture Business Management OR3
ACC 212 Managerial Accounting
B. Other departmental requirements:
ACC 211 Financial Accounting
CHM 151 General Chemistry I
C. Other departmental options:
Select 10 credits from the following courses:
AGS 101 Agriculture - Solving the Problems
of the World 3
AGS 200 Food Safety Practices and Management4
AGS 220 Food Safety in Facilities
AGS 296 Agricultural Internship
ANS 100 Animal Industries
ANS 130 Livestock Production Management 3
<b>ANS 240</b> Feeds and Feeding
PLS 120 Agricultural Entomology
PLS 160 Alternative Crops of the Desert Southwest 3
PLS 200 Introduction to Integrated
Pest Management
PLS 230 Basic Crop Fertility
PLS 240 Plant Propagation
PLS 290 Vegetable Crop Production
D. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and

Mathematics (MAT 151 College Algebra or	ECT 105 Basic Electricity3		
approved higher level math) 4	ENG 110 Technical Writing		
Arts and Humanities (PHI 105 Introduction to	<b>ENT 100</b> Introduction to Entrepreneurship 3		
Ethics and one course from the Arts list) 6	<b>TEC 165</b> Employee and Occupational Safety 3		
<b>Social and Behavioral Sciences (ECN 240</b> Principles of Macroeconomics and <b>ECN 250</b> <i>Principles of</i>	Select a minimum of 3 credits from the following courses:		
Microeconomics)	WLD 104 Techniques in Flux Core Arc Welding		
Physical and Biological Sciences (BIO 181 and 182 General Biology I and II)	WLD 105 Techniques in Oxyacetylene Welding and Cutting		
Additional Courses (second semester foreign language	WLD 106 Techniques in Shielded Metal Arc Welding		
course and CIS 105 or CIS 120 suggested) 6	WLD 109 Techniques in Gas Metal Arc Welding		
Total credits required for degree:	C. General education requirements: 21		
	<b>English Composition</b> ( <b>ENG 100, 101</b> or <b>107,</b> or <b>102</b> or <b>108</b> )		
Air Conditioning and	Mathematics (MAT 105 Mathematics for the		
C	Applied Sciences or approved higher level math) 3		
Refrigeration	Arts and Humanities		
^ · · · ^ · · / ^ / ^ / ^ · · /	Social and Behavioral Sciences		
Associate in Applied Science (A.A.S.) degree	Physical and Biological Sciences 4		
Major Code: AAS.AIRCR	Additional Courses		

## Air Conditioning and Refrigeration

Certificate

Major Code: CERT.AIRCR

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

Total credits required for degree: . . . . . . . . . . . . . . . 64

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.

То	tal credits required for degree: 63
	Physical and Biological Sciences (BIO 181 and 182 General Biology I and II)
	<b>Social and Behavioral Sciences (ECN 240</b> Principles of Macroeconomics and <b>ECN 250</b> <i>Principles of Microeconomics</i> )
	Lines and one course norm the Arts listy

Contact: Career and Technical Education (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 position 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
ACR 113 Heating Technology 3
ACR 201 Air Conditioning and Refrigeration 3 $\dots$ 3
ACR 202 Air Conditioning and Refrigeration $4 \ldots 3$
ACR 212 Heat Load Calculations and Duct Design . 3
ACR 213 Light Commercial Systems
B. Other departmental requirements:

A. Required major courses:
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
ACR 113 Heating Technology 3
ACR 201 Air Conditioning and Refrigeration 3 3
ACR 202 Air Conditioning and Refrigeration 4 3
$\pmb{ACR}\; \pmb{212}\; Heat\; Load\; Calculations\; and\; Duct\; Design\; .\; 3$
ACR 213 Light Commercial Systems
<b>TEC 100</b> Core Curriculum Introductory Craft Skills $5$
<b>TEC 165</b> Employee and Occupational Safety 3
B. Other departmental requirements:
WLD 104 Techniques in Flux Core Arc Welding 3
WLD 105 Techniques in Oxyacetylene
Welding/Cutting
WLD 106 Techniques in Shielded Metal Arc Welding3
<b>WLD 109</b> Techniques in Gas Metal Arc Welding 3
Total credits required for certificate:

# Air Conditioning and Refrigeration (STEM Emphasis)

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

Major Code: AAS.ACRSE

Contact: Career and Technical Education (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:
	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
	ACR 113 Heating Technology
	$\boldsymbol{ACR}$ 201 Air Conditioning and Refrigeration 3 3
	ACR 202 Air Conditioning and Refrigeration 4 $\dots$ 3
	$\boldsymbol{ACR}$ 212 Heat Load Calculations and Duct Design . 3
	ACR 213 Light Commercial Systems
В.	Other departmental requirements:
	<b>DFT 100</b> AutoCAD 1 - Drafting
	ECT 105 Basic Electricity3
	<b>TEC 165</b> Employee and Occupational Safety 3
	Select at least one course from
	WLD 104, WLD 105, WLD 106, or WLD 1093
— С.	Arizona General Education Curriculum-Arts
	Arizona General Education Curriculum-Arts GEC-A):
	GEC-A):
	GEC-A):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
(A	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)

#### American Indian Studies

Associate in Arts (A.A.) degree

Pathway: AA/GR
Major Code: AA.AIS

**Contact:** • Business and Social & Behavioral Science

(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:
ANT 100 Introduction to Anthropology
ANT 140 Introduction to Native American Studies . 3
AIS 180 Overview of American Indian Studies 3
AIS 220 Introduction to Contemporary  American Indian Studies
B. Other departmental requirements:0
C. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math) 3
Arts and Humanities (Select at least one course from the
Arts list and one course from the Humanities list.) 6
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:
Total credits required for degree:

#### **Animal Production**

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ANPRO

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** 2 + 2 program to the University of Arizona Animal Production Bachelor's Degree and to allow a pathway for students interested in Veterinarian Medicine or Pre-Professional careers.

**Program Description:** This degree encompasses science, production, marketing, research and utilization of animals and animal products in agriculture, entertainment and companionship. It prepares students for careers related to livestock agri-business, production and management. A strong animal sciences curriculum that includes genetics, nutrition and physiology combined a business component that includes economics, marketing, and management to prepare graduates for all phases of the livestock industry.

Α.	Required major courses:
	<b>ANS 100</b> Animal Industries 4
	ANS 130 Livestock Production and Management 3
	ANS 240 Feeds and Feeding 4
	<b>PLS 211</b> Soils
	1 LJ 211 30113
В.	Other departmental requirements:7
	ACC 211 Financial Accounting
	MAT 270 Applied Statistics
	111
C.	Arizona General Education Curriculum-Arts (AGEC-A):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Mathematics (MAT 151 College Algebra or approved higher level math)4
	Arts and Humanities (Film Studies and PHI 105
	Introduction to Ethics recommended. Select at least
	one course from the Arts list and one course from the
	Humanities list.) 6
	Social and Behavioral Sciences (ECN 240
	Macroeconomics and <b>ECN 250</b> Microeconomics) 6
	Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II)8
	Additional Courses (see the AGEC-A
	Additional Courses list for possible selections) 6

D. General electives:	PLS 230 Basic Crop Fertility
PLS 100 Plant Science	PLS 240 Plant Propagation
Total credits required for degree:	C. General education requirements:
	English Composition (ENG 100, 101 or 107, or
Applied Agriculture	<b>102</b> or <b>108</b> )
Associate in Applied Science (A.A.S.) degree	Arts and Humanities
Major Code: AAS.AGBUS	Social and Behavioral Sciences (ECN 250 Principles of Microeconomics)
<b>Contact:</b> Career and Technical Education (928) 344-7567	Physical and Biological Sciences (CHM 151 General Chemistry I)
<b>Program Purpose:</b> Graduate will demonstrate (1) basic knowledge in agriculture that will prepare them	Additional Courses (CIS 120 Introduction to Computer Information Systems)
to obtain an entry-level position within the field and (2) critical thinking skills in AWC's General Education focus areas.	D. General electives:
<b>Program Description:</b> For students interested in agriculture, this program provides entry skills in agriculture and some flexibility for choices in the agricul-	Total credits required for degree: 63
tural area of interest.	Art: Graphics
A. Required major courses:	Associate in Arts (A.A.) degree
ACC 211 Financial Accounting3	D .I. AA/CD
AGB 230 Agricultural Business Management 3	Pathway: AA/SR
BIO 181 General Biology I	Major Code: AA.ARTGR
BIO 182 General Biology II	Contact: Liberal Arts & Education (928) 344-7708
PLS 211 Soils	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.
B. Other departmental requirements:	<b>Program Description:</b> Students in this major receive a foundation in art and technology; with the assis-
Select at least 17 credits from the following courses:	tance of their Academic Advisors, students then
AGS 101 Agriculture - Solving the Problems of the World	select courses according to the major they wish to pursue at the university.
AGS 201 Food Safety Practices and Management4	
AGS 220 Food Safety in Facilities	A. Required major courses:
AGS 296 Agricultural Internship	<b>ARH 141</b> Survey of World Art 1
ANS 100 Animal Industries	<b>ARH 142</b> Survey of World Art 2
ANS 340 Foods and Fooding	ART 101 Basic Design, 2-Dimensional 3
ANS 240 Feeds and Feeding	ART 102 Basic Design, 3-Dimensional 3
PLS 160 Alternative Crops of the Desert Southwest 3	<b>ART 111</b> Drawing 1
PLS 200 Introduction to Integrated	<b>GRA 101</b> Graphic Communication 1 4
Pest Management4	<b>GRA 102</b> Graphic Communication 2 4

B. Other departmental requirements: 6	Freshman Composition (ENG 101 or 107 and
Two <b>ART</b> or <b>GRA</b> courses 200 or higher 6	<b>ENG 102 or 108</b> )
	<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math) 3
C. Arizona General Education Curriculum-Arts (AGEC-A):	Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.) 6
Freshman Composition (ENG 101 or 107 and	Social and Behavioral Sciences 6
<b>ENG 102</b> or <b>108</b> )	Physical and Biological Sciences 8
<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math) 3	<b>Additional Courses</b> (see the AGEC-A Additional Courses list for possible selections)
<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) 6	D. General electives:
Social and Behavioral Sciences 6	
Physical and Biological Sciences	Total credits required for degree:
D. General electives:	Automotive Brakes and
	Suspension
Total credits required for degree:	Certificate
	Major Code: CERT.AUTBR
Art: Studio Art	<b>Contact:</b> Career and Technical Education (928) 344-7567
Associate in Arts (A.A.) degree	<b>Program Purpose:</b> Graduates will demonstrate basic knowledge in automotive brakes and suspension that
Pathway: AA/SR	will prepare them to obtain an entry-level position
Major Code: AA.ARTST	within the field.
Contact: Liberal Arts & Education (928) 344-7708	Program Description: Successful completion of the
<b>Program Purpose:</b> 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.	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.
<b>Program Description:</b> Art (Studio) provides foundational and continuing opportunities for the study of	A. Required major courses:
visual art.	AUT 120 Automotive Suspension 6
	AUT 125 Automotive Brakes 4
A. Required major courses:	<b>AUT 200</b> Automotive Electrical Systems 6
ARH 141 Survey of World Art 1	
ARH 142 Survey of World Art 2	Total credits required for certificate:
ART 102 Basic Design, 3-Dimensional	
<b>ART 111</b> Drawing 1	
B. Other departments as a sign as a	
B. Other departmental requirements:	
Four to five <b>ART</b> courses 100 or higher	

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C. Arizona General Education Curriculum-Arts

## Automotive Computer Fundamentals, Engine Performance, and Diagnostics

Certificate

Major	Code:	CERT.AUTCD
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Contact: Career and Technical Education (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.

Total credits required for certificate:	4
ACT 213 Automotive Computer resulting	J
<b>AUT 215</b> Automotive Computer Testing	2
AUT 209 Auto Engine Performance and Diagnosis .	5
<b>AUT 200</b> Automotive Electrical Systems	6
A. Required major courses:	4

# Automotive Electrical and Air Conditioning Systems

Certificate

Major Code: CERT.AUTAC

Contact: Career and Technical Education (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	3
----	----------	-------	----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-----	----	---

otal credits required for certificate:	13
<b>AUT 252</b> Automotive Air Conditioning Systems	. 4
<b>AUT 215</b> Automotive Computer Testing	. 3
<b>AUT 200</b> Automotive Electrical Systems	6

#### **Automotive Power Trains**

Certificate

Major Code: CERT.AUTPT

Contact: Career and Technical Education (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:
<b>AUT 101</b> Theory of Engine Operation 4
<b>AUT 133</b> Automotive Power Trains
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 (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:	0
<b>AUT 101</b> Theory of Engine Operation	4
AUT 120 Automotive Suspension	6
AUT 125 Automotive Brakes	4
<b>AUT 133</b> Automotive Power Trains	3
<b>AUT 200</b> Automotive Electrical Systems	6
AUT 209 Auto Engine Performance and Diagnosis .	5
<b>AUT 215</b> Automotive Computer Testing	3
AUT 220 Automotive Hybrid Fundamentals	2
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 course:	s:
AUT 100 Basic Service and Systems	3
AUT 135 Automatic Transmissions	5
AUT 211 Automotive Emissions Control Systems	3
AUT 260 Automotive Internship	3
AUT 261 Special Projects	3
<b>DFT 100</b> AutoCAD 1 - Drafting	3
ECT 105 Basic Electricity	3
TEC 165 Employee and Occupational Safety	3
WLD 106 Techniques in Shielded Metal Arc Welding	3
<b>WLD 109</b> Techniques in Gas Metal Arc Welding	3
Cooperative Education course	
C. General education requirements: 2	1
English Composition (ENG 100, 101 or 107, or 102 or 108)	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:	)
Total credits required for degree:	ŀ

## Automotive Technology

Certificate

Major Code: CERT.AUTOT

**Contact:** Career and Technical Education (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.

A. Required major courses:
<b>AUT 101</b> Theory of Engine Operation 4
AUT 120 Automotive Suspension 6
AUT 125 Automotive Brakes 4
<b>AUT 133</b> Automotive Power Trains
AUT 200 Automotive Electrical Systems 6
${\bf AUT~209}$ Auto Engine Performance and Diagnosis . 5
<b>AUT 215</b> Automotive Computer Testing3
<b>AUT 220</b> Automotive Hybrid Fundamentals 2
<b>AUT 252</b> Automotive Air Conditioning Systems $\dots$ 4
B. Other departmental requirements:
B. Other departmental requirements:
Select 3 credits from the following courses:
Select 3 credits from the following courses:  AUT 100 Basic Service and Systems
Select 3 credits from the following courses:  AUT 100 Basic Service and Systems
Select 3 credits from the following courses:  AUT 100 Basic Service and Systems

# Automotive Technology (STEM Emphasis)

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

Major Code: AAS.AUTSE

Contact: Career and Technical Education (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. Requ	uired major courses:
AUT AUT AUT AUT AUT AUT	101 Theory of Engine Operation
	er departmental requirements:
	200 Employee and occupational curety
	ona General Education Curriculum-Arts EC-A):
(AGI Fres ENG	EC-A):
(AGI Fres ENG Mati with	hman Composition (ENG 101 or 107 and 102 or 108)
(AGI Fres ENG Mati with Arts	hman Composition (ENG 101 or 107 and i 102 or 108)

D. General electives:
Total credits required for degree:

## Basic Air Conditioning and Refrigeration Service Technician

Certificate

Major Code: CERT.BACT

Contact: Career and Technical Education (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.

A. Required major courses: 20
ACR 101 Air Conditioning and Refrigeration 1 3
<b>ACR 102</b> Air Conditioning and Refrigeration 2 $\dots$ 3
ACR 103 Electrical Motors, Circuits and Controls 3
<b>ACR 112</b> Control Systems
ACR 113 Heating Technology
TEC 100 Core Curriculum Introductory Craft Skill 5
Total credits required for certificate: 20

### **Basic Carpentry**

Certificate

Major Code: CERT.BCARP

Contact: Career and Technical Education (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:
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 Systems3
TEC 100 Core Curriculum Introductory Craft Skills 5
Total credits required for certificate:

#### Basic Electrical

Certificate

Major Code: CERT.BELEC

Contact: Career and Technical Education (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.

A. Required major courses:
ECT 105 Basic Electricity
<b>ECT 110</b> AC/DC Circuits4
ECT 115 National Electrical Code
ECT 205 Fixtures and Installation4
ECT 210 Control Circuits4
TEC 100 Core Curriculum Introductory Craft Skills 5

Total credits required for certificate:.........23

### Basic Manufacturing

Certificate

Major Code: CERT.BASMG

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate a basic knowledge in machine/industrial valves and pumps that will prepare them to obtain an entry level position within the manufacturing field.

**Program Description:** Provides graduates with the essential skills required of an entry level worker to maintain, repair or replace industrial valves and pumps in the commercial industry setting.

A. Required	major courses:
MFG 185	Quality Control and Inspection 3
MFG 195	Materials Science and Metallurgy $\dots\dots3$
MFG 201	Machinery/Indust. Valve & Pump,
	Maintenance Repair
Total credits	required for certificate:9

#### **Basic Manufacturing CAD**

Major Code: CERT.BACAD

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** To teach the student the basic principles and operative skills to set up and operate CNC milling machines and lathes.

**Program Description:** The course provides a basic understanding of the preparation, principles and standards used in Computer Aided Drafting (CAD) along with the skills to operate the CAD driven cutters.

A. Required	major courses: 6
	CNC Machine Operator
Total credits	s required for certificate:6

#### **Basic Power Generation**

Certificate

Major Code: CERT.POGEN

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate basic knowledge in the use of power generators in the manufacturing field.

**Program Description:** Graduates will demonstrate basic knowledge in the selection, installation, operation and maintenance of generators, including how to isolate and repair minor generator problems

A. Required	major courses: 4
ECT 240	Power Generation Operation, Maintance & Repair4
Total credits	s required for certificate:4

### **Basic Plumbing**

Certificate

Major Code: CERT.BPLMB

Contact: Career and Technical Education (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.

otal credits required for certificate:
TEC 100 Core Curriculum Introductory Craft Skill 5
PCT 210 Plumbing Fixture and Appliance Installation4
and Distribution Systems 4
PCT 205 Plumbing Water Supply
and Venting Systems
PCT 115 Plumbing Drain, Waste,
PCT 105 Introduction to Plumbing Technology 3
. Required major courses:

#### Basic Public Safety Dispatcher

Certificate

Major Code: CERT.BPSD

Contact: Career and Technical Education (928) 344-

756

**Program Purpose:** The Public Safety Dispatchers' Basic Certificate introduces the necessary skills and knowledge to work in a law enforcement communications center in a productive and professional manner. The course also prepares each student for the basic roles, responsibilities, and duties of a public safety dispatcher within the law enforcement agency.

Program Description: The Public Safety Dispatcher Course exists to provide newly selected public safety dispatchers with an initial orientation and basic training. The instructional content and teachings methodologies in this course are present to better train new students in the increasingly complex role and function of the public safety dispatcher. Effective initial training is critical for public safety dispatchers to acquire the necessary skills, knowledge, and abilities in order to provide quality service to the public and the law enforcement agencies they serve. Introduces new dispatchers to the basic requirements of their jobs and meets the requirements of Post mandated training for entry level dispatchers. Law Enforcement Certifications include (ACJIS [dependent on agency appointment], CPR, APCO, EMD, NIMS).

A. Required major courses:	12
<b>PSD 152</b> Basic Public Saftey Dispatcher	12
Total credits required for certificate:	12

### **Biology**

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.BIOLO

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**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, preoptometry, 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.

(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):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Mathematics (MAT 220 Calculus I with
	Analytic Geometry or approved higher level math) $5$
	<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) . 6
	Social and Behavioral Sciences 6
	<b>Physical and Biological Sciences (CHM 151</b> and <b>152</b> General Chemistry I and II)
	Additional Courses (see the AGEC-S Additional
	Courses list for possible selections) 6–8

D. General electives: .									•		 •		0	)
Total credits required	fo	r	de	g	re	ee	<b>:</b> :						 . 64	ļ

### **Bodywork Mastery**

Certificate

Major Code: CERT.BODY

Contact: Career and Technical Education (928) 344-

7567

Program Purpose: Advanced training in therapeutic

massage.

Program Description: Fine tune bodywork skills with additional exposure to seasoned, licensed therapy instructors and closely supervised clinical experience. The addition of this certificate to the Licensed Massage Therapy Program Certificate (AWC =784 contact hours)/ 700 required for AZ State license) results in 1000 hours or more of course work that is required in some state and municipal jurisdictions for licensing.

A. Required	major courses:
LMT 270	Bodywork Mastery
LMT 271	Advanced Anatomy and Movement 2
LMT 272	Mastery Internship <b>OR</b> 128 hours of residen-
cy clinic c	btained through LMT 200 4
B. Restricte	d Electives (at least 100 contact hours): 3
	d Electives (at least 100 contact hours): 3  Massage for the Medically Frail:
	•
	Massage for the Medically Frail:

### Bookkeeping

Certificate

Major Code: CERT.BOOK

Contact: Business and Social & Behavioral Science

(928) 344-7689

**Program Purpose:** Porvide graduates an opportunity to gain entry-level employment in various accounting positions within the Colorado River Indian Tribe.

**Program Description:** An occupational certificate for individuals employed in the accounting industry seeking additional education. Graduates will be employed in entry level accounting positions.

A. Required major courses:	2
ACC 100 Introduction to Accounting	3
ACC 115 Computerized Accounting	3
ACC 120 Income Tax Procedures	3
ACC 125 Introduction to Payroll Accounting	3
ACC 211 Financial Accounting	3
ACC 212 Managerial Accounting	3
ACC 230 Principles of Fraud Examination	3
ACC 240 Government Accounting	3
B. Other departmental requirements:	3
CIS 121 Spreadsheet	3
Total credits required for certificate:	7

### Broadcasting

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

Major Code: AAS.BRDCA

Contact: Liberal Arts & Education (928) 344-7708

**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:	2
BDC 100 Introduction to Broadcasting  BDC 120 Announcing and Performance 1  BDC 140 Announcing and Performance 2  BDC 210 Broadcast Writing	3
B. Other departmental requirements:	6
Select one course from each area listed below: Journalism (print) Computer Information Systems (CIS)	
C. General education requirements:	21
English Composition (ENG 100, 101 or 107, or 102 or 108)	3 3 4
D. General electives:	25
Total credits required for degree:	54

#### **Business**

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

Major Code: AAS.BUS

Contact: Business and Social & Behavioral Science

(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: Customer Service Management, Entrepreneurship, Financial Investments, General Business, Logistics, Management, and Marketing.

A. Required major courses: 21	Marketing
<b>BUA 100</b> Survey of Business	<b>MKT 100</b> Salesmanship
BUA 110 Business Math Applications3	MKT 110 Principles of Marketing
BUA 220 Legal Environment of Business 3	MKT 111 Social Media Marketing
<b>BUA 230</b> Business Law	MGT 220 Principles of Retailing
BUA 295 Business Capstone Project 3	MKT 230 Principles of Advertising
ACC 100 Introduction to Accounting OR	Management
ACC 211 Financial Accounting	BUA 109 Principles of Human Relations
ECN 100 Principles of Economics OR	BUA 290 Business Communications
ECN 250 Microeconomics3	ENT 100 Introduction to Entrepreneurship
CIS 120 Introduction to Computer	MGT 135 Management Fundamentals
Information Systems <b>OR</b>	MGT 250 Personnel Supervision OR
CIS 105 Introduction to Business	<b>MGT 280</b> Leadership
Information Systems	Customer Service Management
ECN 250 Microeconomics	•
EGN 230 Microcconomics	BUA 109 Principles of Human Relations
B. Other departmental requirements:	BUA 290 Business Communications
	HRM 210 Customer Service Management 3
Take at least 15 credits from one of the following	MGT 250 Personnel Supervision
emphases:	MKT 100 Salesmanship
General Business	C. General education requirements: 21
BUA 109 Principles of Human Relations 3	
BUA 290 Business Communications 3	<b>English Composition (ENG 100, 101 or 107, or 102 or 108)</b>
MKT 110 Principles of Marketing	Mathematics (MAT 105 College Mathematics for
MGT 135 Management Fundamentals 3	Applied Sciences or approved higher level math) 3
FIN 100 Stock Market Basics 1 3	Arts and Humanities
Entrepreneurship	Social and Behavioral Sciences
<b>ENT 100</b> Introduction to Entrepreneurship 3	Physical and Biological Sciences 4
ENT 200 Entrepreneurship Practicum	Additional Courses
<b>ENT 220</b> Marketing the Entreprenuerial Venture 3	
ENT 240 Business Plan Development	D. General electives (complete enough courses to meet
<b>MKT 100</b> Salesmanship	program requirement of 60)
Financial Investments	
	Total credits required for degree: 60
FIN 100 Stock Market Basics	
FIN 110 Mutual Fund Basics	
FIN 140 Financial Markets and Institutions 3	Business Administrative Services
FIN 150 Personal Finance	
FIN 250 Financial Statement Analysis	Certificate
Logistics	Major Code: CERT.BUSAD
LGS 101 Introduction to Logistics	Contact: Business and Social & Behavioral Science
LGS 103 Freight Claims and Contracts	(928) 344-7689
LGS 106 Transportation and Traffic Management 3	Program Purpose: Graduates will demonstrate basic
LGS 107 Introduction to Purchasing	knowledge in office administrative services that will prepare them to 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. Individuals who successfully complete this program may secure entry-level positions such as front office clerk, cashier, teller, or hospital admitting clerk.

A. Required major courses:
BUA 100 Survey of Business
<b>BUA 110</b> Business Math Applications3
BUA 210 Customer Service Management 3
CIS 105 Introduction to Business Information Systems
ACC 100 Introduction to Accounting OR 3
_
ACC 211 Financial Accounting
B. Other departmental requirements:
Select at least 15 credits from the following
courses:
<b>BUA 109</b> Principles of Human Relations 3
BUA 290 Business Communications
<b>CIS 121</b> Spreadsheet
<b>CIS 131</b> Database
FIN 150 Personal Finance
MGT 250 Personnel Supervision
<b>MKT 100</b> Salesmanship
CIM 141 Keyboarding: Introduction OR
CIM 142 Keyboarding: Intermediate
Total credits required for certificate:30

#### Carpentry

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

Major Code: AAS.CARP

Contact: Career and Technical Education (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:
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 Systems3 TEC 100 Core Curriculum Introductory Craft Skills5
B. Other departmental requirements:
ACR 101 Air Conditioning and Refrigeration 1 3 CTM 110 Construction Estimating
DFT 100 AutoCAD 1- Drafting
C. General education requirements:
English Composition (ENG 100, 101 or 107, or 102 or 108)
Total credits required for degree: 62

## Carpentry

Certificate

Major Code: CERT.CARPT

Contact: Career and Technical Education (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.

A. Required major courses:
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 TEC 100 Core Curriculum Introductory Craft Skills 5
B. Other departmental requirements:
ACR 101 Air Conditioning and Refrigeration 1 3 DFT 100 AutoCAD 1- Drafting
Total credits required for certificate:

#### Carpentry (STEM Emphasis)

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

Major Code: AAS.CRPSE

Contact: Career and Technical Education (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:** This program provides courses in the carpentry and technical subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

A. R	equired major courses:
С	TM 105 Blueprint Reading for Construction 3
С	TM 110 Construction Estimating
С	TM 123 Building Construction Methods 1 3
С	TM 124 Building Construction Methods 23
С	TM 224 Concrete and Concrete Form Systems3
С	TM 230 Construction Management
	Field Operations
D	FT 100 AutoCAD 1 Drafting
В. О	ther departmental requirements:
Α	CR 101 Air Conditioning and Refrigeration 1 3
Е	CT 105 Basic Electricity
TI	EC 165 Employee and Occupational Safety 3
TI	EC 175 Employee and Occupational Safety 2 3
V	<b>YLD 109</b> Techniques in Gas Metal Arc Welding 3
V	<b>LD 201</b> Introduction to Robotic Welding4
	rizona General Education Curriculum-Arts
	rizona General Education Curriculum-Arts
(A	reshman Composition (ENG 101 or 107 and
(A	AGEC-A):
(A F E	AGEC-A):       35         reshman Composition (ENG 101 or 107 and NG 102 or 108)       6         lathematics (MAT 142 College Mathematics
F E N	reshman Composition (ENG 101 or 107 and NG 102 or 108)
F E W	reshman Composition (ENG 101 or 107 and NG 102 or 108)
Fr E M W A	reshman Composition (ENG 101 or 107 and NG 102 or 108)
FE N W A th	reshman Composition (ENG 101 or 107 and NG 102 or 108)
FIELD WARREN SERVICE PROPERTY OF THE PROPERTY	reshman Composition (ENG 101 or 107 and NG 102 or 108)
FIELD WARREN SO PAGE	reshman Composition (ENG 101 or 107 and NG 102 or 108)
FIELD WARREN SOLE PARTIES A Inches In	reshman Composition (ENG 101 or 107 and NG 102 or 108)
(A Fi E N W A th So P A In	reshman Composition (ENG 101 or 107 and NG 102 or 108)

### Chemistry

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CHEMI

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**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.

Α. Ι	Required major courses:
(	CHM 151 General Chemistry I       4         CHM 152 General Chemistry II       4         CHM 235 Organic Chemistry I       5         CHM 236 Organic Chemistry II       4
В. (	Other departmental requirements:8
	MAT 230 Calculus II with Analytic Geometry5  MAT 262 Introduction to Ordinary  Differential Equations
(	Arizona General Education Curriculum-Science (AGEC-S):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
ı	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 one course from the Humanities list.) 6
:	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:
Tot	al credits required for degree:

## **Cloud Architecting**

Certificate

Major Code: CERT.AWSCA

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Prepare students for AWC Certified Solutions Architect-Associate certification.

**Program Description:** To prepare students to design patterns for architecting optimal IT solutions on AWS as well as troubleshooting AWS strategies and services.

A. Required major courses:
PIT 131 Amazon Web Services Cloud Architecting . 3
Total credits required for degree:

#### **Cloud Foundations**

Certificate

Major Code: CERT.AWSCF

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** To prepare students for AWC Certified Cloud Practitioner Certification.

**Program Description:** Provides students with the fundamentals of building IT infrastructure on Amazon Web Services (AWS). Optimizing the use of AWS Cloud through the development of an understanding of AWS services, best practices, and how they fit into cloud-based solutions.

A. Required major courses: 2
PIT 130 Amazon Web Services Cloud Architecting . 2
Total credits required for degree:2

#### Community Health Worker

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

Major Code: AAS.COMHW

**Contact:** Career and Technical Education (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.

Α. Ι	Required major courses:20	
	CHW 106 Healthy Living	3
	CHW 110 Community Health Worker Fund. 1	4
	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
В. Д	Arizona General Education Curriculum-Arts	
(	(AGEC-A):	5
	Freshman Composition (ENG 101 or 107 and	
	<b>ENG</b> or <b>108</b> )	6
	Mathematics (MAT 142 College Mathematics	
,	with Applications or approved higher level math)	3
	<b>Arts and Humanities</b> (Select at least one course from	
1	the Arts list and one course from the Humanities list.)	6
	Social and Behavioral Sciences	6
	Physical and Biological Sciences	8
	Additional Courses (see the AGEC-A Additional	
	Courses list for possible selections)	6
C. (	General electives:	9

## Community Health Worker

Certificate

Major Code: CERT.COMHW

Contact: Career and Technical Education (928) 344-

Total credits required for degree: . . . . . . . . . . . . . . . 64

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.

This certificate is the first step in earning an AAS Degree. This program meets AZ State Voluntary Certification Core Competencies.

A. Required major courses: 20
CHW 106 Healthy Living3
CHW 110 Community Health Worker Fund. 14
<b>CHW 120</b> Preparation for Field Experience3
CHW 210 Community Health Worker Fund. 23
CHW 220 Field Experience
CHW 230 Health Services 4
Total credits required for degree: 20

#### Computer Graphics

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

Major Code: AAS.COMGR

Contact: Liberal Arts & Education (928) 344-7708

**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:	j
<b>GRA 101</b> Graphic Communications 1	ļ
<b>GRA 102</b> Graphic Communications 2	ļ
GRA 103 Computer Illustration	ļ
GRA 104 Digital Imaging 1	ļ
GRA 105 Digital Imaging 2	ļ
GRA 106 Page Composition	3
GRA 201 Interactivity and Graphics	3
<b>GRA 202</b> Advanced Interactivity and Graphics 3	3
<b>GRA 203</b> 3-D Modeling and Surfacing 4	ļ
GRA 204 Advanced 3-D Graphics	ļ
<b>GRA 205</b> Principles of Animation	3
<b>GRA 206</b> Portfolio and Career Management3	3
B. Other departmental requirements:	_
English Composition (ENG 100, 101 or 107, or	
<b>102</b> or <b>108</b> )	
Mathematics (MAT 105 Mathematics for the	
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3	3
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3  Arts and Humanities	3
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3 Arts and Humanities	3
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3 Arts and Humanities	3 3 1
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3 Arts and Humanities	3 3 1
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math) 3 Arts and Humanities	3 3 3 1 1 —

## Computer Information Systems

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

Major Code: AAS.CIS

**Contact:** Business and Social & Behavioral Science (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: 21
ACC 211 Financial Accounting
·
B 0.1 1
B. Other departmental requirements: 15
B. Other departmental requirements:
Take at least 15 credits from one of the following
Take at least 15 credits from one of the following emphases:
Take at least 15 credits from one of the following emphases:  Programming  CIS 131 Database

CIS 271 Networking Administration	CIS 180 Computer Programming Logic 3
CIS 275 Fundamentals of Network Security 3	CIS 200 Computer Programming: Visual BASIC 4
CIS 272 Network Routing and Swtiching 3	CIS 220 Computer Programming: C#4
Web Development	CIS 260 Introduction to Operating Systems 3
<b>CIS 151</b> Web Design 1	CIS 295 Structured Systems Analysis and Design 3
CIS 154 Introduction to E-Commerce/E-Business 3	CIS 120 Introduction to Computer Information
CIS 180 Computer Programming Logic 3	Systems <b>OR</b> CIS 105 leave dusting to Business Information Systems 3
CIS 200 Computer Programming: Visual BASIC 4	CIS 105 Introduction to Business Information Systems3
MKT 100 Salesmanship	Total credits required for certificate:32
C. General education requirements:	
<b>Freshman Composition (ENG 101</b> or <b>107</b> and <b>ENG 102</b> or <b>108</b> )	Computer Science
Mathematics (MAT 151 College Algebra or approved higher level math)4	Associate in Science (A.S.) degree
Arts and Humanities	Pathway: AS/SR
Social and Behavioral Sciences 3	Major Code: AS.CSCIE
Physical and Biological Sciences	Contact: Business and Social & Behavioral Science (928) 344-7689
D. General electives: 0-2	<b>Program Purpose:</b> This Associate of Science degree focuses on the theoretical foundations and skill sets
Total credits required for degree: 60	of computing, algorithms, and programming tech- niques, as applied to operating systems, program- ming, artificial intelligence, computer science and informatics.
Computer Information Systems  Certificate	<b>Program Description:</b> Focuses on computers, computing problems, software solutions, computer design, and graphical user interface design from a
	scientific perspective. Includes instruction in the prin-
Major Code: CERT.CISYS	ciples of computational science, computing theory, computer system design, graphical user interface
Contact: Business and Social & Behavioral Science (928) 344-7689	design, digital logic and software development.
Program Purpose: Graduates will demonstrate basic	A. Required major courses:
knowledge in computer information systems that will prepare them to obtain an entry-level position within	CSC 127B Intro to Computer Science 2 4
the field.	CSC 261 Linux/UNIX Operating Systems 3
Program Description: This program is for students	<b>MAT 227</b> Discrete Math
seeking immediate entry-level employment in an	MAT 230 Calculus II with Analytic Geometry5
office environment or computer industry.	MAT 241 Calculus III with Analytic Geometry 4
	CSC 127A Intro to Computer Science 1 OR
A. Required major courses:	<b>EGR 123</b> Intro to Structured Programming 4
ACC 100 Introduction to Accounting 3	P. Othor deportmental resultance 2
BUA 100 Survey of Business	B. Other departmental requirements:7
BUA 110 Business Math Applications 3	Select one of the following emphasis and complete the
ENG 101 Freshman Composition I	required courses as listed for the chosen emphasis:
	CSC 252 Computer Organization OR
B. Other departmental requirements:20	<b>CSC 253</b> Digital Logic

CSC 210 Human Computer Interaction OR CSC 215 Artificial Intelligence 4	BUA 220 Legal Environment of Business 3 ENG 101 Freshman Composition I						
C. Arizona General Education Curriculum-Science (AGEC-S):	Total credits required for certificate:30						
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	Construction/Industrial Safety						
Geometry or approved higher level math)5  Arts and Humanities (Select at least one course	Certificate						
from the Arts list and <b>PHI 103</b> Introduction	Major Code: CERT.CIST						
to Logic)	Contact: Career and Technical Education (928) 344-7567						
of Microeconomics and one additional course) 6  Physical and Biological Sciences (PHY 121 and  PHY 131 Mechanics and Electricity and Magnetism) 8  Additional Courses	<b>Program Purpose:</b> Certificate will allow completers to enhance employment or seek new employment in the construction industry as a person responsible for site safety.						
Total credits required for degree:64	<b>Program Description:</b> 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						
Computer Security	construction and industrial work place. Emphasis will be on interpretation, implementation and documen-						
Certificate	tation of required job site safety procedures.						
Major Code: CERT.COMSE	A. Required major courses:						
Contact: Business and Social & Behavioral Science (928) 344-7689	<b>TEC 100</b> Core Curriculum Introductory Craft Skills 5 <b>TEC 125</b> 10-Hour OSHA Construction Card 1						
<b>Program Purpose:</b> Development and guidance for increased secure IT planning, implementation, management and operation.	<b>TEC 165</b> Employee and Occupational Safety 1 3 <b>TEC 175</b> Employee and Occupational Safety 2 3						
<b>Program Description:</b> Increase awareness of Information Technology risks, vulnerabilities, and protection requirements for new and emerging	Total credits required for degree:						
technologies.	Construction Trades Management						
A. Required major courses:	Associate in Applied Science (A.A.S.) degree						
CIS 120 Introduction to Computer Information Systems	Major Code: AAS.CTM						
CIS 175 Computer Security	<b>Contact:</b> Career and Technical Education (928) 344-7567						
CIS 260 Introduction to Operating Systems 3 CIS 275 Fundamentals of Network Security 3 CIS 270 Networking Fundamentals	<b>Program Purpose:</b> 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.						
BUA 100 Survey of Business	<b>Program Description:</b> Provides graduates with the essential skills required of an entry level employee in the construction trades industry. This program is cer-						

tified 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 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
B. Other departmental requirements:
ACR 101 Air Conditioning and Refrigeration 1 3 DFT 100 AutoCAD 1 - Drafting
C. General education requirements:
Mathematics (MAT 105 College Mathematics for Applied Sciences or approved higher level math) 3
Arts and Humanities
Social and Behavioral Sciences
Social and Behavioral Sciences

(STEM Emphasis)

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

Major Code: AAS.CTMSE

Contact: Career and Technical Education (928) 344-

**Program Purpose:** Graduates will demonstrate basic knowledge in the construction trades field which

will prepare them to obtain an entry level position in the field and critical thinking skills in AWC's General Education focus areas.

**Program Description:** This program provides courses in the construction trades management and technical subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

A. Required major courses:	5
CTM 105 Blueprint Reading for Construction CTM 110 Construction Estimating	3 3 3 3 3
B. Other departmental requirements:	5
ACR 101 Air Conditioning and Refrigeration 1 ECT 105 Basic Electricity	3 3 3
C. Arizona General Education Curriculum-Arts	
(AGEC-A):	5
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	6 3 n 6 6 8
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	6 3 n 6 6 8

#### Crop Management

Certificate

Pathway: CERT

Major Code: CERT.CROPN

Contact: Career and Technical Education (928) 344-

7689

**Program Purpose:** Industry has been asking for a hybrid/online program to help students interested in becoming a Pest Control Advisor. This certificate meets nearly all mandatory course requirements with the state.

**Program Description:** Students preparing for an entry level position in crop production or continuing their education for pest control advisor requirements will find the necessary courses.

A. Required major courses:
<b>PLS 100</b> Plant Science
PLS 110 Chemical Applications Using Integrated
Pest Management2
PLS 200 Introduction to Integrated
Pest Management 4
PLS 220 Crop Water Use, Evapotranspiration,
and Irrigation 3
PLS 230 Basic Crop Fertility
PLS 240 Plant Propagation
Total credits required for degree: 19

#### **Crop Production**

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CRPRO

Contact: Career and Technical Education (928) 344-

7567

**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: 8
	<b>PLS 100</b> Plant Science 4
	<b>PLS 211</b> Soils4
_	
В.	Other departmental requirements:
Se	lect at least 13 credits from the following courses.
	$\mathbf{AGS}\ 200\ Food\ Safety\ Practices\ and\ Management.$ . 4
	AGS 220 Food Safety in Facilities 4
	AGS 296 Agricultural Internship
	PLS 120 Agricultural Entomology 3
	PLS 160 Introduction to Alternative Crops of the
	Desert Southwest 4
	<b>PLS 200</b> Intro to Integrated Pest Management 4
	PLS 230 Basic Crop Fertility 4
	PLS 290 Vegetable Crop Production 4
О.	Arizona General Education Curriculum-Science (AGEC-S):
	<b>ENG 102</b> or <b>108</b> )
	Mathematics (MAT 220 Calculus I with Analytic
	Geometry or approved higher level math)5
	Arts and Humanities (PHI 105 Introduction to Ethics
	and one course from the Arts list) 6 $$
	<b>Social and Behavioral Sciences (ECN 240</b> Principles of Macroeconomics and <b>ECN 250</b> Principles of
	Microeconomics
	<b>Physical and Biological Sciences (CHM 151</b> and <b>152</b> General Chemistry I and II) 8
	Additional Courses (BIO 181 General Biology and GLG 101 Introduction to Geology) 8
D.	General electives:
	MAT 270 Applied Statistics 4
	tal credits required for degree:

#### **Culinary Arts**

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

Major Code: AAS.CULAR

Contact: Career and Technical Education (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).

Α.	Required	major courses:
	CUL 141	Basic Food Selection, Preparation and Garde Manger4
	<b>CUL 143</b>	ServSafe and Sanitation
	<b>CUL 144</b>	Menu Planning 1.5
	<b>CUL 146</b>	Production Kitchen 1 (Hot Foods) 4
	<b>CUL 147</b>	Production Kitchen 2 (Bakery/Pastry) 4
	CUL 246	Production Kitchen 3 (American Regional Cuisine)4
	<b>CUL 248</b>	Production Kitchen 4 (International Cuisine)4
	CUL 251	Catering- Planning, Production and Dining Room4
	CUL 253	Food Costing, Purchasing and Inventory Control
	CUL 259	Culinary Arts Field Experience
В.	Other de	partmental requirements:12
	ENT 100	Introduction to Entrepreneurship 3
	HRM 100	Introduction to Hospitality
	MGT 250	Personnel Supervision
	NTR 139	Personal Nutrition <b>OR</b>
	NTR 201	Nutrition
C.	General	education requirements: 21
	-	Composition (ENG 100, 101 or 107, or 08)
	Mathema	atics (MAT 142 College Mathematics with
	Application	ons or approved higher level math) 3

Social and Behavioral Sciences							3
Physical and Biological Sciences.							
Additional Courses							. 2
						_	_
D. General electives:							. 0

#### **Culinary Arts**

Certificate

Major Code: CERT.CULAR

Contact: Career and Technical Education (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.

A. Required major courses:
CUL 141 Basic Food Selection, Preparation
and Garde Manger4
CUL 143 ServSafe and Sanitation
<b>CUL 144</b> Menu Planning
CUL 146 Production Kitchen 1 (Hot Foods) 4
CUL 147 Production Kitchen 2 (Bakery/Pastry) 4
CUL 259 Culinary Arts Field Experience
MGT 250 Personnel Supervision
NTR 139 Personal Nutrition OR
<b>NTR 201</b> Nutrition
Total credits required for certificate: 25

#### Culinary Arts

#### (General Education Emphasis)

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

Major Code: AAS.CULGE

Contact: Career and Technical Education (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).

۹.	Required	major courses:
	CUL 141	Basic Food Selection, Preparation and Garde Manger4
	<b>CUL 143</b>	ServSafe and Sanitation
	<b>CUL 144</b>	Menu Planning 1.5
	<b>CUL 146</b>	Production Kitchen 1 (Hot Foods) 4
	<b>CUL 147</b>	Production Kitchen 2 (Bakery/Pastry) 4
	CUL 246	Production Kitchen 3 (American Regional Cuisine)4
	<b>CUL 248</b>	Production Kitchen 4 (International Cuisine)4
	CUL 251	Catering- Planning, Production and Dining Room
	CUL 253	Food Costing, Purchasing and Inventory Control
	CUL 259	Culinary Arts Field Experience
В.	Other de	epartmental requirements:6
	HRM 100	Introduction to Hospitality 3
	NTR 201	Nutrition
C.		General Education Curriculum-Arts ):
		n Composition (ENG 101 or 107 and
		atics (MAT 142 College Mathematics
	with Appl	lications or approved higher level math) 3
		<b>Humanities</b> (Select at least one course from strand one course from the Humanities list.) 6

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
O. General electives:	0
otal credits required for degree:	

## Culinary Arts with a Focus in Entrepreneurship

Certificate

Major Code: CERT.CAENT

Contact: Career and Technical Education (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.

A. Required major courses:	25
CUL 141 Basic Food Selection, Preparation and Garde Manger	.4
CUL 143 ServSafe and Sanitation	.5
CUL 144 Menu Planning	.5
CUL 146 Production Kitchen 1 (Hot Foods)	.4
CUL 147 Production Kitchen 2 (Bakery/Pastry)	.4
CUL 259 Culinary Arts Field Experience	.4
MGT 250 Personnel Supervision	3
NTR 139 Personal Nutrition OR	
NTR 201 Nutrition	3
B. Other departmental requirements:	9
<b>ENT 100</b> 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 (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.

A.	Required major courses:	9
	AJS 101 Introduction to Administration of Justice	3
	AJS 201 Crime Control Policies and Procedures 3	3
	AJS 225 Criminology	3
В.	Other departmental requirements:(	)
C.	Arizona General Education Curriculum-Arts (AGEC-A):	5
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	6
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3	3
	Arts and Humanities (ARH 141 Survey of World Art and PHI 105 Introduction to Ethics recommended)	6
	Social and Behavioral Sciences (SOC 101	
	Introduction to Sociology and FAS 238/PSY 238	
	Human Development recommended)	5
	Physical and Biological Sciences (GPH 171	
	Introduction to Meteorology and ENV 101	^
	Environmental Science recommended)	3
	Additional Courses (CIS 120 Introduction	
	to Computer Information Systems and SPC 215 Public Speaking recommended)	6

18 credits will be awarded, upon request, for HLS 10
HLS 109, HLS 205, HLS 230, HLS 260, and AJS 220 afte presentation and verification of successfully completing
he USCBP (U.S. Customs & Border Protection academy
otal credits required for degree: 60

#### Cyber Criminology

Associate in Arts (A.A.) degree

Pathway: AA/SR
Major Code: AA.CCI

Contact: Career and Technical Education (928) 344-

7567

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

Program Description: Victimization through the Internet is becoming more prevalent as cyber criminals have developed effective ways to remain anonymous. Cyber criminology explores Internet Crimes and Criminal Behavior of today's interface of computer science, Internet science, and criminology. Classification and types of Computer Crimes and the legal considerations in collecting and analyzing computer evidence is essential in the investigation and prosecution. Constitutional restrictions including but not limited to privacy and searches and seizures play an important role in the world of cybercriminology.

A. Required major courses:
CIS 154 Introduction to E-Commerce/E-Business 3
CIS 171 Computer Forensics
CIS 175 Computer Security3
<b>CIS 275</b> Network Security
CIS 120 Introduction to Computer Information Systems OR
CIS 105 Introduction to Business Information Systems
B. Other departmental requirements:

AJS 101 Introduction to Administration of Justice 3 AJS 109 Substantive Criminal Law	CUL 143 ServSafe and Exam       1.5         CUL 144 Menu Planning       1.5         NTR 201 Nutrition       3
HLS 107 Introduction to Cyberterrorism 3	B. Other departmental requirements:6
C. Arizona General Education Curriculum-Arts (AGEC-A)35	BUA 109 Principles of Human Relations
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	Total credits required for certificate: 16
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3  Arts and Humanities (AJS 123 Ethics and Criminal	Drafting CAD Technology
Justice and <b>REL 201</b> Comparative World Religion recommended)	Associate in Applied Science (A.A.S.) degree
Social and Behavioral Sciences	Major Code: AAS.DFT
(AJS 225 Criminology and PSY 101 Introduction to Psychology)	Contact: Career and Technical Education (928) 344-7567
Physical and Biological Sciences (ENV 101 Environmental Science and BIO 100 Biology Concepts or BIO 160 Introduction to Human Anatomy and Physiology)	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.
* Upon instructor approval AJS 105 may be used to satisfy one or more departmental course requirements	<b>Program Description:</b> 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
Dietetics	advisory committee to allow students the opportunity to gain work force entry-level skills. This program offers students to meet career objectives by focusing
Certificate	on standards, drafting practices and skill develop- ment in the use of computer assisted drafting (CAD).
Major Code: CERT.DIETP	
Contact: Career and Technical Education (928) 344-7689	A. Required major courses:
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.	DFT 100 AutoCAD 1 - Drafting
<b>Program Description:</b> 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.	DFT 202 Construction Graphics 2
A. Required major courses:	<b>DFT 209</b> Revit 4 Revit Structural - Drafting 4
CUL 141 Basic Culinary Arts 4	B. Other departmental requirements:

Information Systems......3

C. General education requirements: 21		
<b>English Composition (ENG 100, 101</b> or <b>107,</b> or <b>102</b> or <b>108</b> )		
<b>Mathematics MAT 105</b> College Mathematics for Applied Sciences or approved higher level math) 3		
Arts and Humanities		
Social and Behavioral Sciences		
Physical and Biological Sciences		
Additional Courses		
D. General electives:		
Total credits required for degree:		

#### **Drafting CAD Technology**

Certificate

Major Code: CERT.DFT

Contact: Career and Technical Education (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. Re	quired major courses:
DF	<b>T 100</b> AutoCAD 1 - Drafting
DF	<b>T 102</b> AutoCAD 2 - Drafting 24
DF	T 106 Revit 1 Intro. to Revit Modeling - Drafting 4
DF	T 107 Revit 2 Revit Modeling - Drafting (Spring) . 4
DF	T 201 Construction Graphics 1 4
DF	T 202 Construction Graphics 2 (Spring) 4
DF	<b>T 203</b> AutoCAD 3 - Drafting 34
DF	<b>T 204</b> AutoCAD 4 - Drafting 44

Total credits required for certificate		
<b>DFT 209</b> Revit 4 Revit Struc	tural - Drafting 4	
Electrical, Plumbir	ng) - Drafting4	
DFT 208 Revit 3 Revit MEP	(Mechanical,	

Recommended Course for Students Pursuing Drafting CAD Technology: CIS 120 Introduction to Computer Information Systems.

#### **Drafting CAD Technology**

(STEM Emphasis)

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

Major Code: AAS.DFTSE

Contact: Career and Technical Education (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 provides courses in the drafting CAD and technical subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

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	Othor do	unartmental requirements	^

C. Arizona General Education Curriculum-Arts (AGEC-A):	ECE 260 Techniques for Observing/ Assessing Children	
Freshman Composition (ENG 101 or 107 and	ECE 265 Children's Literature	
ENG 102 or 108)	ECE 270 Early Childhood Internship 4	
Mathematics (MAT 142 College Mathematics	Electives	
with Applications or approved higher level math) 3	ECE 165 Health, Safety, and Nutrition for the Young	
Arts and Humanities (PHI 105 Introduction to	Child	
Ethics recommended. Select at least one course from	<b>OR</b> the following three courses:	
the Arts list and one course from the Humanities list.)6	ECE 101 Providing a Healthy Environment for	
Social and Behavioral Sciences 6	Children in an Early Childhood Program 1	
Physical and Biological Sciences 8	ECE 103 Ensuring a Safe Environment for Children	
Additional Courses (CIS 120 Introduction to	in an Early Childhood Program	
Computer Information Systems and	<b>ECE 111</b> Nutrition	
SPC 215 Public Speaking Recommended)6	ECE 145 CDA Student Teaching-Vocational 3	
	<b>OR</b> the following three courses:	
D. General electives:	ECE 166 Early Childhood Field Experience 1	
	ECE 206 Early Childhood Field Experience 2	
Total credits required for degree:	ECE 211 Early Childhood Field Experience 3	
Early Childhood Education	B. Other departmental requirements:0	
Associate in Applied Science (A.A.S.) degree	C. General education requirements:	
tooddate iii / ippiled ocience (/ ii/ i.o.) degree	English Composition (ENG 100, 101 or 107, or	
Major Code: AAS.ECE	<b>102</b> or <b>108</b> )	
Contact: Liberal Arts & Education (928) 344-7708	Mathematics (MAT 105 Mathematics for the	
	Applied Sciences or approved higher level math) 3	
Program Purpose: Graduates will demonstrate (1) basic knowledge in early childhood education that	Arts and Humanities	
will prepare them to obtain an entry-level position	Social and Behavioral Sciences	
within the field and (2) competency in communication,	(ECE 240 Child Growth and Development) 3	
critical thinking, quantitative analysis, and technologi-	Physical and Biological Sciences 4	
cal applications.	Additional Courses (SPC 215 Public Speaking) 3	
Program Description: This program is for students	D. Company of partitions	
contemplating careers in early childhood education and for individuals employed in day care, Head Starts,	D. General electives:	
at risk preschools, or other early childhood environ- ments. Student must obtain TB test, a background and fingerprint check before entering any field place-	Total credits required for degree:	

### Early Childhood Education

Certificate

Major Code: CERT.ECE

Contact: Liberal Arts & Education (928) 344-7708

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.

ment.

A. Required major courses:
ECE 200 Early Childhood Education
ECE 205 Home, School and Community Relations 3
ECE 208 Guiding Children's Behavior3
<b>ECE 210</b> Activities of Early Childhood Education 3
ECE 243 Early Childhood Development 3
ECE 245 Early Childhood Special Education3
ECE 250 Language and Literacy Development 3

A. Required major courses:	A. Required major courses:
ECE 200 Early Childhood Education	<b>GLG 101</b> Introduction to Geology 1 (Physical) 4
ECE 205 Home, School and Community Relations 3	GLG 102 Introduction to Geology 2 (Historical)4
ECE 210 Activities of Early Childhood Education 3	MAT 230 Calculus II with Analytic Geometry5
ECE 212 Early Childhood Certificate Capstone 1	<b>PHY 111</b> College Physics I 4
ECE 243 Early Childhood Development 3	
ECE 245 Early Childhood Special Education3	B. Other departmental requirements: 4
ECE 165 Health, Safety, and Nutrition for the Young Child	Select one of the following courses:
<b>OR</b> the following three courses:	BIO 181 General Biology (Majors) 1
ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program ECE 103 Ensuring a Safe Environment for Children	PHY 112 College Physics II  C. Arizona General Education Curriculum-Science (AGEC-S):
in an Early Childhood Program  ECE 111 Nutrition	Freshman Composition (ENG 101 or 107 and
ECE 145 CDA Student Teaching-Vocational 3	<b>ENG 102</b> or <b>108</b> ) 6
<b>OR</b> the following three courses:	Mathematics (MAT 220 Calculus I with Analytic Geometry or approved higher level math) §
ECE 166 Early Childhood Field Experience 1	Arts and Humanities (Select at least one course from
ECE 206 Early Childhood Field Experience 2	the Arts list and one course from the Humanities list.) . 6
ECE 211 Early Childhood Field Experience 3	Social and Behavioral Sciences 6
Total credits required for certificate:22	Physical and Biological Sciences (CHM 151 and 152 General Chemistry I and II)
	Additional Courses (GPH 213 Introduction to Climate Science and OCN 110 Introduction to

#### Earth Systems Science

Associate in Science (A.S.) degree

Pathway: AS/SR Major Code: AS.GLG

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

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.

#### Education, Elementary

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.EDELM

Contact: Liberal Arts & Education (928) 344-7708

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.

Total credits required for degree: . . . . . . . . . . . . 60

**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:	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.
ECE 265 Children's Literature	A. Required major courses:
EDU 200 Lesson Planning	
	<b>ECE 265</b> Children's Literature
C. Arizona General Education Curriculum-Arts	EDU 207 Education Practicum
(AGEC-A):	<b>EDU 210</b> Cultural Diversity in Education3
Freshman Composition (ENG 101 or 107 and	<b>EDU 222</b> Introduction to Special Education 3
<b>ENG 102</b> or <b>108</b> ) 6	EDU 275 Classroom Management
Mathematics (MAT 142 College Mathematics	MAT 130 Math for Elementary Teachers I 3
with Applications or approved higher	MAT 135 Math for Elementary Teachers II3
level math)	POS 221 Arizona Constitution and Government 2
Arts and Humanities (Select at least one course from the Arts list and one <b>ENG</b> Writing Intensive (WI) course from the Humanities list.)	POS 222 National Constitution and Government1
Social and Behavioral Sciences (ECE 240 Child	B. Other departmental requirements: 2
Growth and Development and <b>HIS 121</b> History of the United States to 1865 and one of the following: <b>GEO</b>	<b>EDU 200</b> Lesson Planning
<b>105</b> World Regional Geography or <b>HIS 122</b> History of the United States from 1865)9	C. Arizona General Education Curriculum-Arts
Physical and Biological Sciences (Select one	(AGEC-A):
course from Life Sciences and one course from	Freshman Composition (ENG 101 or 107 and
Physical Sciences)	<b>ENG 102</b> or <b>108</b>
Additional Courses (SPC 215 Public Speaking) 3	<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher
D. General electives:	level math)
	Arts and Humanities (Select at least one
Total credits required for degree: 64	course from the Arts list and one <b>ENG</b> Writing Intensive (WI) course from the Humanities list.) 6
	Social and Behavioral Sciences
Education, Elementary	(ECE 240 Child Growth and Development and HIS 121 History of the United States to 1865) 6
(Early Childhood Education Emphasis)	Physical/Biological/Earth Sciences
,	(Select one course from Life Sciences and one course from Physical Sciences) 8
Associate in Arts (A.A.) degree	Additional Courses (SPC 215 Public Speaking and
Pathway: TG/XR	one additional course)6
Major Code: AA.EDECE  Contact: Liberal Arts & Education (928) 344-7708	D. General electives:
	Total credits required for degree:

#### **Education (Secondary)**

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.EDSEC

Contact: Liberal Arts & Education (928) 344-7708

**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.

Α.	
	Required major courses:
	<b>EDU 110</b> Introduction to Education
	<b>EDU 222</b> Introduction to Special Education 3
	EDU 275 Classroom Management
	POS 221 Arizona Constitution and Government 2
	POS 222 National Constitution and Government 1
В.	Other departmental requirements:
	EDU 200 Lesson Planning
	<b>And</b> a minimum of 15 credits in one of the following
	subjects: BIO, CHM, ENG, GLG, HIS, MAT, PHY
C.	Arizona General Education Curriculum-Arts
	(AGEC-A):
	Freshman Composition (ENG 101 or 107 and ENG
	<b>102 or 108</b> )
	•
	Mathematics (MAT 142 College Mathematics
	Mathematics (MAT 142 College Mathematics
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3 Arts and Humanities (Select at least one course
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3 Arts and Humanities (Select at least one course from the Arts list and one ENG Writing Intensive
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3  Arts and Humanities (Select at least one course from the Arts list and one ENG Writing Intensive (WI) course from the Humanities list.) 6

D. General electives:		
	Speaking and CIS 105 Introduction to	
	Additional Courses (SPC 215 Public	
	and one course from Physical Sciences) 8 $$	
	(Select one course from Life Sciences	
	Physical/Biological/Earth Sciences	

#### Electrical for Manufacturing

Certificate

Major Code: CERT.ECTMG

Contact: Career and Technical Education (928) 344-

756

**Program Purpose:** To provide students with the basic understanding of electricity, control circuits and programmable logic controllers (PLC) architecture and programming.

**Program Description:** This certificate provides an introduction to basic electrical principles, circuits and measurements. It also gives an overview of the principles and applications of components, control circuits, diagrams, PLC architecture/programming and troubleshooting

A. Required major courses:	)
ECT 105 Basic Electricity	8
ECT 210 Control Circuits	ŀ
ECT 230 Programmable Logic Controllers 2	)
Total credits required for certificate:	)

### Electrical Technology

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

Major Code: AAS.ELECT

Contact: Career and Technical Education (928) 344-

**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:
	<b>ECT 105</b> Basic Electricity
	<b>ECT 110</b> AC/DC Circuits4
	<b>ECT 115</b> National Electrical Code 3
	ECT 205 Fixtures and Installation4
	<b>ECT 210</b> Control Circuits 4
	<b>TEC 100</b> Core Curriculum Introductory Craft Skills 5
В.	Other departmental requirements: 21
	ACR 103 Electrical Motors, Circuits, and Controls 3
	<b>CTM 105</b> Blueprint Reading for Construction 3
	CTM 110 Construction Estimating 3
	CTM 230 Construction Management
	Field Operations
	<b>DFT 100</b> AutoCAD 1 - Drafting
	<b>ENT 100</b> Introduction to Entrepreneurship 3
	<b>TEC 165</b> Employee and Occupational Safety 3
C.	General education requirements: 21
	English Composition (ENG 100, 101 or 107, or
	<b>102</b> or <b>108</b> )
	Mathematics (MAT 105 College Mathematics
	for Applied Sciences or approved higher
	level math)
	Arts and Humanities
	Social and Behavioral Sciences
	Physical and Biological Sciences 4
	Additional Courses
D.	General electives:
To	tal credits required for degree:65

#### Electrical Technology

Certificate

Major Code: CERT.ECT

Contact: Career and Technical Education (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.

A. Required major courses:
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         TEC 100 Core Curriculum Introductory Craft Skills       5
B. Other departmental requirements: 9
ACR 103 Electrical Motors, Circuits, and Controls 3 DFT 100 AutoCAD 1 - Drafting
TEC 165 Employee and Occupational Safety 3

#### Electrical Technology Apprenticeship

Certificate

Major Code: CERT.ECTAP

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

**Program Purpose:** Four-year apprenticeship program built to provide hands-on experience on a job while learning about the trade in school. The program prepares you to become a Journeyman Electrician.

**Program Description:** Prepares students for a journeyman level entrance into the electrical 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.

A. Required major courses:	. 39
ECT 105 Basic Electricity	3
ECT 110 AC/DC Circuits	4
ECT 113 Electircal Light Commercial	3
ECT 213 Commercial Electrical Application Level	1 3
ECT 214 Commercial Electrical Application Level	2 3
ECT 220 Electrical Installation	5
ECT 222 Advanced Electrical System Level 1	4
ECT 223 Advanced Electrical System Level 2	3
ECT 224 Advanced Electrical System Level 3	3
TEC 100 Core Curriculum Introductory Craft Skills	5
Total credits required for certificate:	30

#### Electrical Technology

(STEM Emphasis)

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

Major Code: AAS.ECTSE

Contact: Career and Technical Education (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:** This program provides courses in the electrical and technical subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

ACR 103 Electrical Motors,	Circuits, and Controls 3
CTM 105 Blueprint Reading	for Construction 3
CTM 110 Construction Estir	nating 3
CTM 230 Construction Man	
<b>DFT 100</b> AutoCAD 1 - Draft	ing 3
TEC 165 Employee and Occ	cupational Safety 3
C. Arizona General Education	
Freshman Composition (EI ENG 102 or 108)	
Mathematics (MAT 142 Co with Applications or approv	-
Arts and Humanities (PHI 1	_
recommended. Select at lea	ast one course from the
Social and Behavioral Scier	ices 6
Physical and Biological Science	ences 8
Additional Courses (CIS 120 Information Systems and SP6 ommended)	O Introduction to Computer C 215 Public Speaking rec-
D. General electives:	0
Total credits required for dec	aree:

#### Emergency and Disaster Management

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

Major Code: AAS.EDM

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

**Program Purpose:** To provide students with the basic understanding of Emergency and Disaster Management. Orient students to the four principles in which emergency management functions. Develop the understanding of what it requires to be successful in Public Safety.

**Program Description:** Students will learn the concepts of Emergency and Disaster Management: preparation, response, recovery and mitigation, and the National Incident Management System which is the process the US operates in times of disaster and national events. The concepts will be reinforced through practical applications, exercises and scenario

based teaching. Students will also be assigned to internship programs to gain experience and network with disaster specialists.

A. Required major courses:		
EDM 101 Introduction to Emergency Management- Emergency and Disaster Management 3		
EDM 110 Emergency Planning - Emergency and Disaster Management		
<b>EDM 140</b> Disaster Response and Recovery - Emergency and Disaster Management 3		
EDM 210 Hazard Mitigation in Emergency  Management - Emergency and  Disaster Management		
EDM 240 National Incident Management System (NIMS) - Emergency and Disaster Management		
EDM 270 Emergency Support Functions in  Emergency Management - Emergency and  Disaster Management		
POS 130 State and Local Politics		
B. Other departmental requirements: 21		
<b>BUA 290</b> Business Communication 3		
<b>EDM 290</b> Emergency and Disaster  Management Capstone Project		
<b>FSC 151</b> Principles of Emergency Services 3		
MGT 135 Management Fundamentals3		
<b>MGT 280</b> Leadership		
<b>SPC 110</b> Intro to Speech Communication3		
SPC 215 Public Speaking		
C. General education requirements: 21		
<b>English Composition</b> ( <b>ENG 100, 101</b> or <b>107</b> , or <b>102</b> or <b>108</b> )		
Mathematics (MAT 142 College Mathematics with		
Applications or approved higher level math) 3		
Arts and Humanities (PHI 105 Introduction to Ethics)		
Social and Behavioral Sciences (SOC 101		
Introduction to Sociology)3		
Physical and Biological Sciences (GPH 213 Introduction to Climate Science)4		
Additional Courses		
D. General electives:		

Total credits required for degree: . . . . . . . . . . . . . . . . . 64

## Emergency and Disaster Management

Certificate

Major Code: CERT.EDM

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** To provide students with the basic understanding of Emergency and Disaster Management. Orient students to the four principles in which emergency management functions. Develop the understanding of what it requires to be successful in Public Safety.

Program Description: Students will learn the concepts of Emergency and Disaster Management: preparation, response, recovery and mitigation, and the National Incident Management System which is the process the US operates in times of disaster and national events. The concepts will be reinforced through practical applications, exercises and scenario based teaching. Students will also be assigned to internship programs to gain experience and network with disaster specialists.

A. Required	major courses:
EDM 101	Introduction to Emergency Management- Emergency and Disaster Management 3
EDM 110	Emergency Planning - Emergency and Disaster Management 3
EDM 140	Disaster Response and Recovery - Emergency and Disaster Management 3
EDM 210	Hazard Mitigation in Emergency Management -
EDM 240	Emergency and Disaster Management 3  National Incident Management  System (NIMS) - Emergency and  Disaster Management
EDM 270	Disaster Management
Total credits	required for degree:

### Emergency Medical Services: Paramedic

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

Major Code: AAS.EMSPA

Contact: Career and Technical Education (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:	;
<b>EMS 293</b> Paramedic Academy 1	5
<b>EMS 294</b> Paramedic Academy 2	5
<b>EMS 295</b> Paramedic Academy 3	;
B. Other departmental requirements:	)
C. General education requirements:	l
<b>English Composition</b> ( <b>ENG 100, 101</b> or <b>107</b> , or <b>102</b> or <b>108</b> )	)
Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math)	3
Arts and Humanities	}
Social and Behavioral Sciences	}
Physical and Biological Sciences	ļ
Additional Courses	)
D. General electives:	)
Total credits required for degree:	5

### Emergency Medical Services: Paramedic

Certificate

Major Code: CERT.EMSPA

Contact: Career and Technical Education (928) 344-

756

**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.

A. Required major courses:	
<b>EMS 293</b> Paramedic Academy 1	
<b>EMS 294</b> Paramedic Academy 2	
<b>EMS 295</b> Paramedic Academy 3	
Total credits required for certificate:45	

<sup>\*</sup> Upon instructor approval EMS 105 may be used to satisfy one or more major and/or departmental course requirements

#### Engineering

Associate in Science (A.S.) degree

Pathway: TG/XR

Major Code: AS.ENGIN

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**Program Purpose:** 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.

 <sup>\*</sup> Upon instructor approval EMS 105 may be used to satisfy one or more major and/or departmental course requirements

**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.

- Student Benefits
- Tutoring
- Supplemental Instructors
- State-of-the-Art Facility
- Assisted Registration Process
- Early Access to University of Arizona Advisors & Faculty
- Use of Computing and Engineering Labs combining Theory and Application
- Technical Core Courses
- Various Technical and General Education Electives

#### Systems are everywhere around us:

Communications Systems, Solar Power Systems, Evacuation Systems, Agricultural Systems, Manufacturing Systems... We can envision our human civilization as comprising of systems!

A.	Required major courses:
	<b>EGR 123</b> Introduction to Structured Programming 3
	<b>EGR 188</b> Fundamentals of Engineering Design 4
В.	Other departmental requirements:
	MAT 230 Calculus II with Analytic Geometry5
	$\textbf{MAT 241}$ Calculus III with Analytic Geometry $\dots$ . 4
	PHY 131 Electricity and Magnetism 4
C.	Arizona General Education Curriculum-Science (AGEC-S):
	Freshman Composition (ENG 101 or 107 and
	<b>ENG 102</b> or <b>108</b> )
	Mathematics (MAT 220 Calculus I with Analytic
	Geometry or approved higher level math) $\ldots \ldots 5$
	Arts and Humanities (Select at least one course from
	the Arts list and one course from the Humanities list.)6
	Social and Behavioral Sciences $\ensuremath{\delta}$
(Se	elect two courses 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: 6
EGR 207, EGR 251, EGR 252, SIE 270 and SIE 277 recommended
Total credits required for degree:

#### English

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.ENGLI

Contact: Liberal Arts & Education (928) 344-7708

**Program Purpose:** Graduates will (1) compose in multiple genres, demonstrating knowledge of the rhetorical contexts and strategies of writing, (2) hone critical reading and thinking skills, and (3) develop proficiency in literary analysis within a writing-intensive environment that will prepare them for transfer and success at the university level.

Program Description: The English Department seeks to prepare students for the rigorous demands of active personal, academic, professional, and civic engagement in the 21st Century by developing essential writing and critical-thinking skills and by fostering appreciation for the humanistic truths of literature. The selection of courses allows students the maximum freedom in creating an individual curriculum to explore their particular interests in literature, creative writing, journalism, linguistics, and film studies.

Arts and Humanities (Select at least one course from
the Arts list and one course from the Humanities list.) 6
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:
Total credits required for degree:

#### English-Language Proficiency Certificate for Non-Native English Speakers

Certificate

Major Code: CERT.ESLPR

Contact: Liberal Arts & Education (928) 344-7708

**Program Purpose:** To help you decide upon which courses to include in both the major and elective blocks, you and your Academic Advisor should consult the university transfer guides for specific required and recommended courses; the university transfer guides can be found at www.aztransfer.com.

**Program Description:** To expand academic English skills in Reading, Listening, Speaking, and Writing as well as learn the necessary skills to take the TOEFL iBT test..

A. Requi	red major courses:
ESL 9	<b>4A</b> Advanced Writing and Grammar3
ESL 9	<b>4B</b> Advanced Conversation, Reading
	and Vocabulary
ESL 9	<b>3A</b> Intermediate Writing and Grammar3
ESL 9	<b>3B</b> Intermediate Conversation, Reading
	and Vocabulary3

#### **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. Two emphases are available: Applied Geology and Biology. Students may complete the BS degree with a Biology Emphasis entirely at NAU in Yuma. The Applied Geology Emphasis requires transfer to NAU in Flagstaff or elsewhere for the BS degree.

#### Applied Geology Emphasis

Major Code: AS.ESGEO

**Contact:** Math, Engineering, Science, and Wellness & Physical Education (928) 344-7685

A.	Required	major courses:
	ENV 230	Foundations of Environmental Science: Humans and the Environment 4
	ENV 280	Physical and Chemical Processes in the Environment 4
В.	Other de	partmental requirements:19
	GLG 102	Introduction to Geology 1 (Physical)4 Introduction to Geology 2 (Historical)4 Introduction to Field Methods
		and Report Writing
C.		General Education Curriculum-Science
		n Composition (ENG 101 or 107 and e or 108)
		atics (MAT 220 Calculus I with Geometry or approved higher level math) 5
		<b>Humanities</b> (Select at least one course from ist and one course from the Humanities list.)6
	Social an	d Behavioral Sciences 6
	-	and Biological Sciences (CHM 151 and 152 Chemistry I and II)8
		al Courses (see the AGEC-S Additional ist for possible selections) 6–8
D.	General	electives:
To	tal credit	s required for degree:

#### Biology Emphasis

Major Code: AS.ESBIO

 $\textbf{Contact:} \ \mathsf{Math, Engineering, Science, and Wellness \&}$ 

Physical Education (928) 344-7685

Α.	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
В.	Other departmental requirements: 20
	BIO 181 General Biology I
C.	Arizona General Education Curriculum-Science (AGEC-S):
	<b>Freshman Composition (ENG 101</b> or <b>107</b> and <b>ENG 102</b> or <b>108</b> )
	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 one course from the Humanities list.)6  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
	Geometry or approved higher level math) 5  Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.)6  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

#### Exercise, Wellness and Nutrition

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.EXWN

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**Program Purpose:** Graduates will demonstrate basic knowledge in exercise science, Health and nutrition that will prepare them for employment in the wellness

industry or 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 and health industry and/or prepare the individual interested in continuing their education leading to careers in exercise science, health and wellness and nutrition.

A. Require	ed major courses:
EXW 1	<b>00</b> Health and Wellness
EXW 1	<b>01</b> Concepts of Kinesiology and
	Physical Education
EXW 2	<b>.12</b> Exercise Science
MAT 2	<b>70</b> Applied Statistics
NTR 20	<b>01</b> Nutrition
B. Depart	tment Electives:
Select 9 cr	redits from one of the following emphases:
Fitness an	nd Exercise
	114 Instructional Competency: Flexibility and Mind-Body Exercises
EVW 2	216 Instructional Competency: Muscular
	Strength and Conditioning
FXW 2	218 Instructional Competency:
LXVV Z	Cardiorespiratory Exercises and Activity
EXW 2	225 Exercise Physiology
	265 Exercise For Special Populations
	275 Fitness Professional Practicum
	280 Certification Preparation
Health an	·
	<b>02</b> Sports Injury Management
	<b>08</b> Sports Injury Treatment
	<b>10</b> Athletic Training Practicum
	<b>50</b> Nutrition for Exercise & Sports
EXW 2	<b>265</b> Exercise For Special Populations
C Arizon	a General Education Curriculum-Arts
	-A):
	nan Composition (ENG 101 or 107 and
	<b>02</b> or <b>108</b> )
Mathe	matics (MAT 142 College Mathematics
with A	pplications or approved higher level math
Arts ar	nd Humanities (PHI 105 Introduction to Eth
	mended. Select at least one course from the
Arta lina	t and one course from the Humanities list.) .
AILS IIST	and one course norm the marriamines not.
	and Behavioral Sciences (PSY 101
Social	
<b>Social</b> Introdu	and Behavioral Sciences (PSY 101

Physical and Biological Sciences (BIO 201
Anatomy and Physiology I and BIO 202 Anatomy
and Physiology II)
Additional Courses (SPC 215 Public Speaking
and one additional course- see the AGEC-A
Additional Courses list for possible selections) 6
D. General electives:
Total credits required for degree:

#### Family Childcare Child Development Associate (CDA)

Certificate

Major Code: CERT.CDAFA

Contact: Liberal Arts & Education (928) 344-7708

**Program Purpose:** Graduates will demonstrate basic knowledge of family childcare education that will prepare them to obtain an entry level position within the field and Become eligible to sit for the National CDA exam.

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.

A. Required	major courses:
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 106	Building Relationships with Parents 1
ECE 108	Guidance Principles

<b>ECE 111</b> N	Nutrition
ECE 114 U	Jnderstand How Children Learn 1
ECE 117 N	Multicultural and Anti-Bias Curriculum 1
ECE 124 (	Creative Media1
ECE 125	Oramatic Play
ECE 128 N	Music and Creative Movement 1
	anguage Development of nfants and Toddlers
ECE 143 P	Professional Portfolio
ECE 145	CDA Student Teaching- Vocational2
ECE 152 A	Ages and Stages: Toddlerhood 1
ECE 153 A	Ages and Stages: The Preschool Years $\dots$ 1
ECE 105 T	urse from each of the following groups:  Techniques for Observing Children <b>OR</b> Developing Observation Skills:  dler Program
ECE 139	The Child's Total Learning Environment <b>OR</b> Drganization of Space, Materials, and tor Infants and Toddlers
	Sciencing and Discovery <b>OR</b> Blocks
Total credits	required for certificate:

#### Family Childcare Education

Certificate

Major Code: CERT.FACHE

Contact: Liberal Arts & Education (928) 344-7708

**Program Purpose:** Graduates will demonstrate a basic knowledge in child development that will prepare them to obtain an entry level position within the field.

Program Description: This is a highly individualized, competency-based program taught with a consolidated group of courses. Program requires for students to be observed working with children in a family care setting. Students should meet all requirements for working with children before entering the program. All courses require that the student work in a child care setting or acceptance as an intern at the AWC Child Development Learning Laboratory (CDLL).

۹.	Required	major	courses:																			1	7
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ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program 1 ECE 103 Ensuring a Safe Environment for	FAS 206 Family and Worker Development 3 FAS 207 Cultural Competency and Family Assessment
Children in an Early Childhood Program 1  ECE 104 Planned Arrangements and Schedules 1	FAS 208 Community Services
ECE 106 Building Relationships with Parents 1  ECE 108 Guidance Principles	Total credits required for certificate:
ECE 114 Understand How Children Learn	Family Studies
<b>ECE 124</b> Creative Media	Associate in Arts (A.A.) degree
ECE 128 Music and Creative Movement 1	Pathway: AA/SR
ECE 134 Language Development of	Major Code: AA.FAS
Infants and Toddlers	<b>Contact:</b> Business and Social & Behavioral Science (928) 344-7689
ECE 153 Ages and Stages: The Preschool Years 1  Select one course from each of the following groups:  ECE 105 Techniques for Observing Children OR  ECE 133 Developing Observation Skills: Infant/Toddler Program	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
Program Purpose: Graduates will demonstrate skills that promote family strengths and prepare them to	and complete a bachelor's degree for employability in this area.
obtain an entry-level position within the field.	A. Required major courses:
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.	ECE 240 Child Growth and Development3FAS 160 Close Relationships3FAS 238 Human Development3NTR 201 Nutrition3
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:	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):	B. Other departmental requirements:
(AGEC-A):	Admission and Selection Policy:
Freshman Composition (ENG 101 or 107 and	1. High school diploma or GED
<b>ENG 102</b> or <b>108</b> )6	2. Minimum age requirement of 18 years
Mathematics (MAT 142 College Mathematics with	3. Meet the medical requirements of NFPA 1582
Applications or approved higher level math) 3	<b>4.</b> Liability waiver
Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.)6	5. Meet physical fitness requirements
Social and Behavioral Sciences 6	<b>6.</b> Permission of the Coordinator
Physical and Biological Sciences 8  Additional Courses (see the AGEC-A	Total credits required for certificate:35
Additional Courses list for possible selections) 6  D. General electives:	* Upon instructor approval FSC 105 may be used to satisfy one or more major and/or departmental course requirements
Total credits required for degree: 63	
	Fire Science
Transfer students:  PSY 290 Introduction to Research Methods and PSY 230 Statistics for Social Sciences are required	Associate in Applied Science (A.A.S.) degree
for university pathways.	Major Code: AAS.FIRSC
	<b>Contact:</b> Career and Technical Education (928) 344-7567
Fire Academy	Program Purpose: Graduates will demonstrate
Certificate	expertise in fire science at a level that prepares them for a supervisory position within the fire service.
	Program Description: Designed for individuals who

Major Code: CERT.FIREA

Contact: Career and Technical Education (928) 344-

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.

۹.	Required major course:	35
	<b>EMS 152</b> Basic Emergency Medical Technician or certification as an EMT-B,	12
	FSC 112 Hazardous Materials Awareness	
	& Operations	. 6
	FSC 150 Fire Academy	16
	PER 101 Fitness for Life	1

**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.

Α. Ι	Required	major courses:
	FSC 106	Principles of Fire and Emergency Services Safety and Survival
	FSC 151	Principles of Emergency Services 3
	FSC 152	Fundamentals of Fire Prevention $\dots 3$
	FSC 153	Fire Behavior and Combustion $\ldots 3$
	FSC 201	Fire Protection Systems
	FSC 203	Building Construction
В. (	Other de	epartmental requirements:20
	Any FSC	course 100 or higher
C.	General	education requirements: 22

English Composition
( <b>ENG 101 or 107</b> and <b>ENG 102 or 108</b> 6
Mathematics (MAT 121 Intermediate Algebra or approved higher level math)4
Arts and Humanities
Social and Behavioral Sciences
Physical and Biological Sciences 4
Additional Courses
D. General electives:
Total credits required for degree: 60
* Upon instructor approval FSC 105 may be used to satisfy

 \* Upon instructor approval FSC 105 may be used to satisfy one or more major and/or departmental course requirements

#### Fitness Training Professional

Certificate

Major Code: CERT.FTPR

**Contact:** Math, Engineering, Science, and Wellness & Physical Education (928) 344-7685

**Program Purpose:** ...... This program is designed to prepare the student to pass the national certification for personal training through the National Academy of Sports Medicine. The NASM is one of the top five ranked programs in the nation for Certified personal training programs at this time. Students will be able to demonstrate fundamental knowledge of human anatomy physiology exercise testing and programing and basic nutrition and weight control.

Program Description: Students will learn about the essentials to personal fitness training. Students will be introduced to the human movement system, the Optimum Performance Training (OPT) model and other domains of basic exercise science; assessment; exercise technique and training instruction; program design; considerations in nutrition; client relations and behavioral coaching; and professional development, practice, and responsibility.

A. Required major courses:
<b>EXW 210</b> Essentials of Personal Fitness Training 16
Total credits required for certificate:

#### Food Science and Safety

Certificate

Major Code: CERT.FSS

Contact: Career and Technical Education (928) 344-

7567

**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:
AGS 200 Food Safety Practices and Management4
AGS 220 Food Safety in Facilities
<b>PLS 100</b> Plant Science
PLS 290 Vegetable Crop Production 4
Total credits required for certificate:

#### Foundations of Construction

Certificate

Major Code: CERT.FNDC

Contact: Career and Technical Education (928) 344-

/56/

**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:
CTM 105 Blueprint Reading for Construction 3
ORI 101 Strategies for Success
ORI 105 Decision Making
TEC 165 Employee and Occupational Safety 3
Total credits required for certificate:

#### Geography

Associate in Science (A.S.) degree

Pathway: AS/GR

Major Code: AS.GEOG

Contact: Business and Social & Behavioral Science

(928) 344-7689

**Program Purpose:** Arizona Western College must develop a strategic plan to foster spatial literacy across the geographic curriculum, establish departmental programs to embed geospatial skills, support the K-12 geospatial educational system, and fortify the relationships with the professional workplace environments. Infusing geospatial technologies and spatial literacy can have long-term impacts on the individual, institutions, and society.

**Program Description:** The geospatial science program emphasizes learning about diverse cultures, physical landscapes and geospatial tools. This major offers a diverse program focusing on contemporary local and world issues.

The leverage of knowledge of cultural and physical processes, and digital modeling techniques, to focus on the effects of space and place, and interpret any landscape using an inherently geospatial approach.

Geospatial Science graduates will demonstrate geospatial analysis through mastery of the following skills:

- Formulate a geospatial question, and determine the selection of, and impact on affected stakeholders,
- Describe and explain the relevant physical and human data needed to answer a geospatial question
- Acquire, represent, and process relevant geospatial data,
- Apply analytical models to interpret and explain the patterns, processes, and interrelationships represented by geospatial data, and
- Assess and present results of geospatial analysis.

A. Required major courses:
<b>GEO 102</b> Introduction Human Geography 3
<b>GEO 105</b> World Regional Geography3
<b>GPH 110</b> Introduction to Physical Geography 4
<b>GST 101</b> Introduction to Geospatial Technology 3
B. Other departmental requirements:

Select at least one of the following two courses:
<b>GPH 171</b> Introduction to Meteorology 4
<b>GPH 213</b> Introduction to Climate Science
Select additional courses from $\ensuremath{\mathbf{GEO}},\ensuremath{\mathbf{GPH}},\ensuremath{\mathbf{GST}},\ensuremath{\mathbf{UAS}}$ . 10
C. Arizona General Education Curriculum-Science (AGEC-S):
Freshman Composition (ENG 101 or 107 and ENG or 108)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 one course from the Humanities list.)6
Social and Behavioral Sciences 6
Physical and Biological Sciences
(BIO 181 General Biology I and BIO 181
General Biology II)
Additional Courses (see the AGEC-S Additional
Courses list for possible selections) 6–8
D. General electives:
Total credits required for degree:

#### Geology

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.GEOLO

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**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 (Phy	/sical)4
GLG 102 Introduction to Geology 2 (His	torical)4
MAT 230 Calculus II with Analytic Geom	etry5
B. Other departmental requirements:	14
Select a minimum of one of the following co	ourses:
GLG 225 Introduction to Paleontology .	4
GLG 240 Introduction to Field Methods	
PHY 121 Mechanics	4
PHY 131 Electricity and Magnetism	4
Select additional courses from physics,	
chemistry, calculus, or geology in consult	
with your faculty advisor	re chosen and ce; you should
with your faculty advisor	re chosen and ce; you should ty to which you n-Science
with your faculty advisor	re chosen and ce; you should ty to which you n-Science
with your faculty advisor	nre chosen and ce; you should ty to which you n-Science
with your faculty advisor	nre chosen and ce; you should ty to which you n-Science 37–39
with your faculty advisor	nre chosen and cace; you should ty to which you no science 37–39 107 and
with your faculty advisor	n-Science37–39 107 and6 Analytic
with your faculty advisor	n-Science37–39 107 and6 Analytic ath)5
with your faculty advisor	n-Science37–39 107 and6 Analytic ath)5 e course from
with your faculty advisor	n-Science37–39 107 and6 Analytic ath)5 e course from
with your faculty advisor	n-Science
with your faculty advisor	n-Science

#### Geospatial Technologies Technician

Certificate

Major Code: CERT.GSTT

**Contact:** Career and Technocal Education

(928) 344-7567

**Program Purpose:** To develop a sustainable program that will prepare post-secondary students for successful employment in the rapidly growing geospatial workforce as well as create additional educational

opportunities for persons with existing training and experience in the geospatial technology field.

Instructors teaching for the program will work directly in the professions of Geospatial Technology. We have a state of the art lab with new computers, update-to-date GIS software, and a new GIS network station for student use.

Program Description: Geographic Information Science (GIS) is a discipline that endeavors to spatially analyze, study, and critically research aspects of our world with the use of innovative tools and techniques that organize and display large amounts of site specific data. The certificate program provides students with the knowledge and skills necessary to develop and manage geospatial technology projects and to implement GIS as a dynamic system for decision making and establishment of policies. The GIS program is designed for three major cohort of students: 1) Students seeking an entry level technical position in GIS; 2) Continuing students seeking training in GIS and geospatial technology for their specific discipline; 3) Working professionals seeking GIS and geospatial technology training for their present job. The geospatial curriculum, with course offerings within the discipline, represent a broad cross-section of the key geospatial science sub-fields including physical, human and regional geography, as well as state-of-the-art geographic information processing methods such as digital image processing and geographic information systems. A Technician Certification is established to develop basic procedural and documentation standards for GIS systems, and the methods required in the industry.

A Required major courses: 15
A. Required major courses:
<b>GST 101</b> Introduction to Geospatial Technology 3
<b>GST 102</b> Spatial Analysis and Modeling 3
<b>GST 103</b> Data Acquisition and Management 3
<b>GST 104</b> Cartographic Design and Visualization 3
Select one of the following courses:
<b>GEO 102</b> Introduction to Human Geography 3
GPH 110 Physical Geography 4
B. Other departmental requirements:3
CIS 120 Survey of Computer Information Systems 3
Total credits required for degree:

#### Health Care Aide

Certificate

Pathway: CERT

Major Code: CERT.HCA

Contact: Career and Technical Education

(928) 344-7567

**Program Purpose:** 

**Program Description:** Prepares student for national exam and direct employment as a Health Care Aide with both the front and back office skills.

То	otal credits required for degree:	7
	HCA 110 Health Care Aide	7
Α.	Required major courses:	7

#### History

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.HISTO

Contact: Business and Social & Behavioral Science

(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 Description:** The history major is offered for those students who would like to continue, at the university level, to pursue history as a teaching or research career or as an adjunct discipline to other majors.

A. Required major courses:			
<b>HIS 111</b> World History Since 1500			
<b>HIS 121</b> History of the U.S. to 1865			
<b>HIS 122</b> History of the U.S. from 1865			
B. Other departmental requirements:			
Select 12 credits from the following courses:			
<b>GEO 105</b> World Regional Geography 3			
<b>HIS 110</b> 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	
<b>HIS 280</b> History of Mexico	
C. Arizona General Education Curriculum-Arts (AGEC-A):	_
Freshman Composition (ENG 101 or 107 and	
<b>ENG 102</b> or <b>108</b> )	
Mathematics (MAT 142 College Mathematics	
with Applications or approved higher level math). 3	
Arts and Humanities (Select at least one course from the	=
Arts list and one course from the Humanities list.) 6	
Social and Behavioral Sciences 6	
Physical and Biological Sciences 8	
Additional Courses (see the AGEC-A Additional	
Courses list for possible selections)	
D. General electives:	_
Fotal credits required for degree:	

#### Hotel/Restaurant Management

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.HOTEL

Contact: Business and Social & Behavioral Science

(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.

Α.	Required major courses:
	BUA 210 Customer Service Management 3
	<b>CUL 146</b> Production Kitchen 1 (Hot Foods) 4
	CUL 251 Catering- Planning, Production and Dining Room
	HRM 100 Introduction to Hospitality 3
	HRM 220 Property Management

<sup>\*</sup> CUL 146 has CUL 141 and CUL 143 as prerequisites.

B. Other departmental requirements:3			
	ACC 211 Financial Accounting		
C. Arizona General Education Curriculum-Arts (AGEC-A):			
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)			
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). 3		
Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list Social and Behavioral Sciences.  Physical and Biological Sciences.  Additional Courses (see the AGEC-A			
			Additional Courses list for possible selections) 6
		D.	General electives:
Tot	tal credits required for degree:		

#### Industrial Technology

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

Major Code: AAS.INDST

**Contact:** Career and Technical Education (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 General Education focus areas. The 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, robotic welding applications, and occupational safety. Competencies related to critical thinking skills in AWC General Education focus areas are embedded.

**Program Description:** This program provides courses in the industrial technology subject areas as well as required general education courses to prepare students to transfer to a university.

A. A. Required major courses:			
<b>DFT 100</b> AutoCAD 1- Drafting	3		
ECT 105 Basic Electricity	3		
ENG 110 Technical Writing	3		

<b>TEC 165</b> Employee and Occupational Safety 3
WLD 104 Techniques in Flux Corel Arc Welding 3
Select one course from the automotive (AUT) area 3
B. Other departmental requirements:18
Select 14 credits from the following prefixes:
ACR, AUT, CTM, DFT, ECT, MFG, PCT, SLR, TEC, and WLD
C. General education requirements: 21
English Composition (ENG 100, 101 or 107, or
<b>102</b> or <b>108</b> )
Mathematics (MAT 105 Mathematics for the
Applied Sciences or approved higher level math) . 3
Arts and Humanities
Social and Behavioral Sciences
Physical and Biological Sciences 4
Additional Courses
D. General electives:
Total credits required for degree:

## Industrial Technology (STEM Emphasis)

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

Major Code: AAS.INTSE

**Contact:** Career and Technical Education (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, robotic welding applications, occupational safety, and project supervision and management. Competencies related to critical thinking skills in AWC General Education focus areas are embedded.

**Program Description:** This program provides courses in the industrial manufacturing technology subject areas as well as required general education courses to prepare students to transfer to a university.

Α.	Required major courses:		
	ACR 101 Air Conditioning and Refrigeration 1 3		
	<b>DFT 100</b> AutoCAD 1- Drafting		
	ECT 105 Basic Electricity3		
	<b>TEC 165</b> Employee and Occupational Safety 3		
WLD 109 Techniques in Metal Arc Welding .			
	WLD 201 Introduction to Robotic Welding4		
Se	lect one course from the automotive (AUT) area 3		
В.	Other departmental requirements:		
Se	lect 18 credits from the following prefixes:		
	ACR, AUT, CTM, DFT, ECT, MFG, PCT, SLR, TEC, and WLD		
C.	Arizona General Education Curriculum-Arts (AGEC-A):		
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)			
	Mathematics (MAT 142 College Mathematics		
	with Applications or approved higher level math)3		
	$ \textbf{Arts and Humanities} \ (\textit{Select at least one course from} \\$		
	the Arts list and one course from the Humanities list.) $$ . 6 $$		
	Social and Behavioral Sciences 6		
Physical and Biological Sciences			
	<b>Additional Courses</b> (see the AGEC-A Additional Courses list for possible selections)		
	General electives:		

#### Infant-Toddler Center-Based Child Development Associate (CDA)

Certificate

Major Code: CERT.CDAIN

Contact: Liberal Arts & Education (928) 344-7708

**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.

Α	A. Required major courses:		
	ECE 10	1 Providing a Healthy Environment for Children in an Early Childhood Program	
	ECE 10	3 Ensuring a Safe Environment for Children in an Early Childhood Program	
	ECE 10	<b>6</b> Building Relationships with Parents 1	
	ECE 10	<b>9</b> Enhancing Family Involvement	
	ECE 11	<b>1</b> Nutrition	
	ECE 11	<b>7</b> Multicultural and Anti-Bias Curriculum 1	
	ECE 13	<b>0</b> Cognitive Development	
	ECE 13	<b>3</b> Developing Observation Skills: Infant/Toddler Program	
	ECE 13	<b>4</b> Language Development of Infants and Toddlers	
	ECE 13	<b>5</b> Guidance and Discipline for Infants and Toddlers	
	ECE 13	<b>6</b> Physical Development in Infancy 1	
	ECE 13	<b>7</b> Enhancing Social Competence of Infants and Toddlers	
	ECE 13	8 Encouraging Trust and Autonomy Leading to the Development of Positive Self Concept of Infants and Toddlers 1	
	ECE 13	<b>9</b> Organization of Space, Materials, and Equipment for Infants and Toddlers 1	
	ECE 14	<b>2</b> Recordkeeping Skills for Daily Infant/Toddler Care Programs	
	ECE 15	<b>2</b> Ages and Stages: Toddlerhood 1	
	ECE 14	<b>3</b> Professional Portfolio	
	ECE 14	<b>5</b> CDA Student Teaching- Vocational2	

Total credits required for certificate: . . . . . . . . . . . 21

#### Infant and Toddler Education

Certificate

Major Code: CERT.INTOE

Contact: Liberal Arts & Education (928) 344-7708

**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 is a highly individualized, competency-based program taught with a consolidated group of courses. Program requires for students to be observed working with children in an infant or toddler setting. Students should meet all requirements for working with children before entering the program. All courses require that the student work in a child care setting or acceptance as an intern at the AWC Child Development Learning Laboratory (CDLL).

A. Required	major 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 1
ECE 106	Building Relationships with Parents 1
ECE 109	Enhancing Family Involvement
ECE 111	Nutrition
ECE 117	Multicultural and Anti-Bias Curriculum $\ldots1$
ECE 130	Cognitive Development 1
ECE 133	Developing Observation Skills: Infant/Toddler Program
ECE 134	Language Development of Infants and Toddlers
ECE 135	Guidance and Discipline for Infants and Toddlers
ECE 136	Physical Development in Infancy 1
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 1
ECE 139	Organization of Space, Materials, and Equipment for Infants and Toddlers 1
ECE 142	Recordkeeping Skills for Daily Infant/Toddler Care Programs 1
ECE 152	Ages and Stages: Toddlerhood 1

Total credits required for certificate: . . . . . . . . . . . 16

#### **Informatics**

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

Major Code: AAS.INFO

Contact: Business and Social & Behavioral Science

(928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in Informatics that will prepare them for careers supporting scientific research through interfacing devices and providing database management of research materials and data. This major would be tied to an appropriate minor to give background for the specific field supported. They will also demonstrate critical thinking skills in AWC?s General Education focus areas

**Program Description:** This degree focuses on computers, computing problems and solutions, and applications to a variety of database situations, preparing the student for jobs, such as Research Analyst, Information Specialist, Clinical Informatics, Technical Support Engineer, and Business Systems Analyst. The education and training will allow the students to enter the field at the entry-level position and, in some cases, mid-level positions in the field.

A. Required major courses:		
CIS 105 Intro to Business Information Systems 3		
CIS 170 Microcomputer Installation and Support 3		
CIS 175 Computer Security3		
CIS 260 Introduction to Operating Systems 3		
CIS 270 Networking Fundamentals		
CIS 271 Networking Administration		
CIS 272 Network Routing and Switching 3		
CSC 127A Introduction to Computer Science 14		
CSC 210 Human Computer Ineraction 4		
CIS 180 Computer Programming Logic OR		
<b>EGR 123</b> Intro to Structured Programming 3		
B. Other departmental requirements: 9-11  Take 9-11 credits from one of the following emphases:		
B. Other departmental requirements: 9-11  Take 9–11 credits from one of the following emphases:		
Take 9–11 credits from one of the following emphases:		
Take 9–11 credits from one of the following emphases:  Cyber Operations  CIS 275 Fundamentals of Network Security 3  CSC 127B Introduction to Computer Science 2 4		
Take 9–11 credits from one of the following emphases:  Cyber Operations  CIS 275 Fundamentals of Network Security 3  CSC 127B Introduction to Computer Science 2 4  MAT 227 Discrete Mathematics		

Software Development/Information Management	CIS 105 Introduction to Business Information Systems 3
CSC 127B Introduction to Computer Science 2 4	CIS 175 Computer Security3
CSC 215 Artifical Intelligence 4	CIS 260 Introduction to Operating Systems 3
CSC 252 Computer Organization	CIS 270 Networking Fundamentals
System Administration	CSC 127A Introduction to Computer Science 1 4
<b>CIS 151</b> Web Design 1	B. Other program requirements:
CIS 231 Database Design and Program 3	
CIS 295 Structured Systems Analysis and Design 3	CIS 170 Microcomputer Installation & Support 3 CIS 271 Networking Administration
	CIS 272 Networking Administration
C. Arizona General Education Curriculum-Arts	CIS 275 Fundamentals of Network Security 3
(AGEC-A):	CSC 127B Introduction to Computer Science 2 4
Freshman Composition (ENG 101 or 107 and ENG 102 or 108	·
Mathematics (MAT 150 or MAT 151 College Algebra: Standard or approved higher level math) 4	Total credits required for certificate:
Arts and Humanities 6	
(Select at least one course from the Arts list and one course from the Humanities list.	Informatics-Digital Design
Social and Behavioral Sciences (ECN 240 Principles	Certificate
of Macroeconomics and <b>ECN 250</b> Principles of	M. A. I. OEDTINIEDD
Microecnomics) 6	Major Code: CERT.INFDD
Physical and Biological Sciences 8  Additional Courses (see above or see the AGEC-A	Contact: Business and Social & Behavioral Science (928) 344-7689
Additional Courses list for possible selections) 6	<b>Program Purpose:</b> Provides graduates with the essential skills required of an entry-level employee in
D. General electives:	information systems.
	<b>Program Description:</b> Graduates will demonstrate basic knowledge in digital design.
Total credits required for degree:	
	A. Required major courses:
Informatics-Cyber Operations	CIS 105 Introduction to Business Information Systems3
informatics-Cyber Operations	CIS 170 Microcomputer Installation & Support 3
Certificate	CIS 175 Computer Security
	CIS 260 Introduction to Operating Systems3
Major Code: CERT.INFCO	CSC 127A Introduction to Computer Science 14
<b>Contact:</b> Business and Social & Behavioral Science (928) 344-7689	B. Other program requirements:17
Program Purpose: Provides graduates with the	CIS 180 Computer Programming Logic 3
essential skills required of an entry-level employee in	CIS 231 Database Design and Program
information systems.	CIS 271 Networking Administration
Program Description: Graduates will demonstrate	<b>GRA 101</b> Graphic Communications 14
basic knowledge in information security.	GRA 104 Digital Imaging 1
A. Required major courses:	Total credits required for certificate:33

# Informatics- Software Development/Information Management

Certificate

Major Code: CERT.INFSD

Contact: Business and Social & Behavioral Science

(928) 344-7689

**Program Purpose:** Provides graduates with the essential skills required of an entry-level employee in information systems.

**Program Description:** Graduates will demonstrate basic knowledge in information management and software development.

A. Required major courses:
CIS 105 Introduction to Business Information Systems3
CIS 175 Computer Security
CIS 260 Introduction to Operating Systems 3
CIS 270 Networking Fundamentals
CSC 127A Introduction to Computer Science 14
B. Other program requirements:
CIS 180 Computer Programming Logic 3
CIS 271 Networking Administration
CSC 210 Human Computer Interaction 4
CSC 215 Artifical Intelligence 4
CSC 252 Computer Organization
Total credits required for certificate:

### Informatics-System Administration

Certificate

Major Code: CERT.INFSA

Contact: Business and Social & Behavioral Science

(928) 344-7689

**Program Purpose:** Provides graduates with the essential skills required of an entry-level employee in information systems.

**Program Description:** Graduates will demonstrate basic knowledge in information systems.

A. Required major courses:
CIS 105 Introduction to Business Information Systems3
CIS 175 Computer Security
CIS 260 Introduction to Operating Systems 3
CIS 270 Networking Fundamentals 3
CSC 127A Introduction to Computer Science 14
B. Other program requirements:
<b>CIS 151</b> Web Design 1
CIS 180 Computer Programming Logic 3
CIS 231 Database Design and Program 3
CIS 270 Networking Fundamentals 3
CIS 270 Networking Fundamentals

#### Law Enforcement Training Academy

Certificate

Major Code: CERT.LETA

Contact: Career and Technical Education (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:
<b>LET 160</b> LETA Academy 1
<b>LET 260</b> LETA Academy 2
Total credits required for certificate: 24

#### Manufacturing

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

Major Code: AAS.MFG

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate the knowledge of marketable skills in many areas of the high-tech manufacturing field..

Program Description: Students will learn automated manufacturing processes that involve up-to-date technologies to improve production of products from the design to manufacturing stages. This program allows AWC students the opportunity for specialization in the following stackable certificates: American Welding Society (AWS) Certificate, National Center for Construction Education and Research (NCCER), OSHA-30 Construction Safety Card, Drafting, CNC Certificates: Basic Machining and Advanced Machining, Motor Controls, Advanced Motor Controls, and Power Generation

A. Required major courses:
CNC 101 CNC Machine Operator
CNC 201 Computer Aided Programming for CNC
Machines
<b>DFT 100</b> AutoCad 1- Drafting
<b>DFT 180</b> CAD with Solidworks
<b>ECT 105</b> Basic Electricity
ECT 210 Control Circuits4
ECT 230 Programmable Logic Controllers 4
ECT 240 Power Generation Operation, Maintenance &
Repair
MFG 185 Quality Control and Inspection 3
MFG 195 Materials Science and Metallurgy 3
MFG 201 Machinery/Indust. Valve & Pump,
Maintenanace & Repair 3
WLD 107 Basic Shop Tools & Welding for Beginners 2
<b>WLD 109</b> Techniques in Gas Metal Arc Welding 3
WLD 201 Automation for metals Joining
and Severing Processes
TEC 125 10-Hour Construction Card OR1
<b>TEC 165</b> Employee and Occupational Safety 3

B. Other departmental requirements: . . . . . . . . 0

C. General education requirements: 21				
English Composition (ENG 100, ENG 101, 107, ENG 102 or 108)				
Mathematics (MAT 105 Mathematics for the				
Applied Sciences or approved higher level math) 3				
Arts and Humanities				
Social and Behavioral Sciences				
Physical and Biological Sciences 4				
Additional Courses				
D. General electives:				
Total credits required for degree: 66-68				

#### Manufacturing

Certificate

Major Code: CERT.MFG

Contact: Career and Technical Education (928) 344-

**Program Purpose:** Graduates will demonstrate the knowledge of marketable skills in many areas of the high-tech manufacturing field..

Program Description: This certificate is comprised of six stackable certificates\*: Basic Manufacturing, Basic Manufacturing CAD, Advanced Manufacturing CAD, Basic Power Generation, Electrical for Manufacturing, and Manufacturing-Automation for Metals Joining and Severing Processes and one additional course. Students who complete the six stackable certificates and this certificate will also earn an OSHA-10 Construction Safety Card or an OSHA-30 Construction Safety Card and NCCER certification in demonstrated skills.

A. Required major courses: 43	-45
CNC 101 CNC Machine Operator	. 3
CNC 201 Computer Aided Programming for	
CNC Machines	. 3
<b>DFT 100</b> AutoCad 1- Drafting	. 3
<b>DFT 180</b> CAD with Solidworks	. 3
ECT 105 Basic Electricity	. 3
ECT 210 Control Circuits	4
ECT 230 Programmable Logic Controllers	2
ECT 240 Power Generation Operation,	
Maintenance & Repair	. 3
MFG 185 Quality Control and Inspection	. 3

MFG 195 Materials Science and Metallurgy 3
MFG 201 Machinery/Indust. Valve & Pump,
Maintenanace & Repair 3
WLD 107 Basic Shop Tools & Welding for Beginners 2
WLD 109 Techniques in Gas Metal Arc Welding 3
WLD 201 Automation for Metals
Joining and Severing Processes
TEC 125 10-Hour Construction Card OR1
<b>TEC 165</b> Employee and Occupational Safety 3
Total credits required for certificate: 43-45

#### Masonry

Certificate

Major Code: CERT.MAS

Contact: Career and Technical Education (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:
MAS 120 Introduction to Masonry2
MAS 121 Tools and Materials
MAS 123 Masonry Blueprint Reading and Building Codes 2
<b>MAS 129</b> Hod Carrier
ORI 101 Strategies for Success
ORI 105 Decision-Making
Total credits required for certificate:

#### Massage Therapy

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

Major Code: AAS.MASTH

Contact: Career and Technical Education (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 Licensed Massage Therapist in Arizona (700 clock hours required for state license). 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.

Curriculum includes traditional Swedish massage techniques along with active or passive joint movement, and a variety of modalities; deep tissue, sports, pregnancy, and others.

Completion of this program will include certification in massage therapy (state approved program, NCMTMB school code 410436-00), CPR for healthcare providers, and OSHA-10 for healthcare.

#### Program Entry Requirements

- minimum reading and math (contact AWC testing services)
- current vaccinations or proof of immunization titers
- drug test
- background check

Students must submit a program application (January through May) to register for required major courses.

A program application packet is available through the AWC website or by making your request to the program office at (928) 317-7529 or (928) 317-6056.

A.	Required major courses: 24
	<b>LMT 150</b> Massage Practice 1
	<b>LMT 250</b> Massage Practice 2
В.	Arizona General Education Curriculum-Arts (AGEC-A):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Mathematics (MAT 142 College Mathematics with
	Applications or approved higher level math) $\dots \dots 3$
	<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the
	Humanities list. <b>PHI 220</b> recommended) 6

Social and Behavioral Sciences (PSY 140 or	
<b>PSY 101</b> recommended) 6	
Physical and Biological Sciences (BIO 201 and	
BIO 202 Human Anatomy and Physiology I, II) 8	
Additional Courses	
(CIS 105 and SPC 110 recommended 6	
C. General electives:	
Total credits required for degree: 60	_

#### Massage Therapy

Certificate

Major Code: CERT.MASTH

Contact: Career and Technical Education (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.

#### Acceptance into Program

- CPT Reading score of 65 or higher
- Math score of 66 or higher
- Current CPR certification designation of "Healthcare Provider" or equivalent
- Therapeutic Massage Program application must be completed and accepted in the program

Students will be required to meet health standards for dedicated on-site personnel to participate in clinical experience in a hospital or other professional health-care setting.

This includes current vaccinations, proof of immunization titers, drug testing, finger printing and background checks and CPR certification.

Student fees include equipment and supplies. These items will provide the student with the equipment needed for participation in required major courses, clinical practice and to begin professional work upon completion of this course.

View discolsure information online at http://www.azwestern.edu/learning\_services/career\_and\_technical\_education/massage\_therapy/index.html

A. Required major courses:
<b>LMT 150</b> Massage Practice 1
<b>LMT 152</b> Massage Practice 2
Total credits required for certificate:24

#### **Mathematics**

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MATHE

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**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.

۹.	Requ	ired	major courses:
	MAT	220	Calculus I with Analytic Geometry 5
	MAT	230	Calculus II with Analytic Geometry 5
	MAT	241	Calculus III with Analytic Geometry $\ldots$ 4
	MAT	262	Introduction to Ordinary Differential Equations
В.	Othe	r de	partmental requirements:0

C. Arizona General Education Curriculum-Arts	B. Other departmental requirements:6
(AGEC-A):	Select 6 credits from the following prefixes:
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)	ART (photography courses only), BDC, GRA, JRN, or TVP. Students should meet with an advisor in their cho
<b>Mathematics</b> ( <b>MAT 142</b> College Mathematics with Applications or approved higher level math) 3	sen emphasis to determine which courses best fit their needs and which are transferable.
<b>Arts and Humanities (</b> Select at least one course from the Arts list and one course from the Humanities list. <b>)</b> 6	C. Arizona General Education Curriculum—
Social and Behavioral Sciences 6	Arts (AGEC-A):
Physical and Biological Sciences	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
D. General electives:	with Applications or approved higher level math). 3  Arts and Humanities (Select at least one course from
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.	the Arts list and one course from the Humanities list.)6  Social and Behavioral Sciences
Total credits required for degree:	Courses list for possible selections)6
	D. General electives:
Media Arts	
Associate in Arts (A.A.) degree	Total credits required for degree: 64
Pathway: AA/SR	Media Arts
Major Code: AA.MDART	Media Arts
Contact: Liberal Arts & Education (928) 344-7708	Associate in Applied Science (A.A.S.) degree
<b>Program Purpose:</b> Graduates will demonstrate (1) basic knowledge in media arts that will prepare them	Major Code: AAS.MDART
for transfer to the university and (2) critical thinking	Contact: Liberal Arts & Education (928) 344-7708
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 rela-	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.
tions, and media arts.	Program Description: This program is designed
A. Required major courses:	not only to provide a foundation in basic media arts course work, but also to allow students to select an
BDC 100 Introduction to Broadcasting	area of emphasis: photography, broadcasting, graphic arts, journalism, or television production.
JRN 100 Introduction to Mass Communications 3	A. Required major courses:
<b>JRN 125</b> News Writing	
SPC 215 Public Speaking	BDC 100 Introduction to Broadcasting
TVP 125 Television Production 1	<b>GRA 101</b> Graphic Communications 1
MKT 100 Salesmanship OR	Jill 100 massaction to mass communications

**MKT 110** Principles of Marketing......3

SPC 215 Public Speaking	A. Required major courses:
TVP 125 Television Production 1 4	<b>BDC 100</b> Introduction to Broadcasting
Independent Study/Internship -	<b>GRA 101</b> Graphic Communications 14
ART (photography classes only), BDC, GRA,	JRN 100 Introduction to Mass Communications 3
<b>JRN</b> or <b>TVP 299</b> 3	<b>JRN 125</b> News Writing
MKT 100 Salesmanship OR	<b>SPC 215</b> Public Speaking
MKT 110 Principles of Marketing3	TVP 125 Television Production 1 4
B. Other departmental requirements:	ART (photography courses only), BDC, GRA, JRN, PHO, or TVP 299 Independent Study/Internship3
Select an area of emphasis from one of the following prefixes:	MKT 100 Salesmanship OR
<b>ART</b> (photography courses only), <b>BDC</b> , <b>GRA</b> , <b>JRN</b> , or <b>TVP</b>	MKT 110 Principles of Marketing3
Select additional courses from the following prefixes:	B. Other departmental requirements:9
ART (photography courses only), BDC, GRA, JRN, or TVP8	Select an area of emphasis from one of the following pre- fixes: ART (photography courses only), BDC, GRA, JRN, PHO, or TVP.
C. General education requirements: 21	
English Composition (ENG 101 or 107 and ENG 102 or 108)	Total credits required for certificate:
Mathematics (MAT 105 Mathematics for the	
Applied Sciences or approved higher level math) 3	Medical Assistant
Arts and Humanities	
Social and Behavioral Sciences	Associate in Applied Science
Physical and Biological Sciences 4	
Additional Courses	Major Code: AAS.MDA
D. General electives:	<b>Contact:</b> Career and Technical Education (928) 344-7567
Total credits required for degree:	<b>Program Purpose:</b> This program will provide students with a working knowledge of front and back office skills to prepare the student for direct employ-

### Media Arts

Certificate

Major Code: CERT.MDART

Contact: Liberal Arts & Education (928) 344-7708

**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.

Contact:	Career and	d Technical	Education	(928)	344-
567					

rovide stunt and back direct employment in a medical practice setting. Student will be prepared for national credentialing exam

Program Description: This program provides an understanding of front and back office skills to prepare the student for direct employment in a medical practice setting

A. Program Prerequisites
MAT 121 Intermediate Algebra or approved higher level math
B. Required major courses:
AHE 101 Medical Terminology3
<b>MDA 120</b> Medical Office
MDA 121 Medical Technician 6
MDA 239 Medical Assistant Externship I 4
MDA 240 Medical Assistant Exernship II4

MDA 119 The Basics of Body Structure and Function	MDA 240 Medical Assistant Exernship II 4 MDA 119 The Basics of Body Structure and Function . 3 OR BIO 160 Intro to Human Anatomy and Physiology 4
C. General education requirements:	Total credits required for degree:
ENG 102 or 108)	Music
prerequisite	Associate in Arts (A.A.) degree
Social and Behavioral Sciences	Pathway: AA/SR
(PSY 101 Introduction to Psychology) 3	Major Code: AA.MUSIC
Physical and Biological Sciences	Contact: Liberal Arts & Education (928) 344-7708
Additional Courses	Program Purpose: Graduates will demonstrate (1)
D. General electives (complete enough courses to meet program requirements)	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.
Total credits required for degree: 60	<b>Program Description:</b> 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
Medical Assistant	then specialize in particular music majors.
Certificate	A. Required major courses:
Major Code: CERT.MDA	MUS 111/112 Dictation and Sight Reading 1A/1B 2
Contact: Career and Technical Education	<b>MUS 191/192</b> Theory 1A/1B6
(928) 344-7567	MUS 211/212 Dictation and Sight Reading 2A/2B . 2
<b>Program Purpose:</b> This program provides an understanding of front and back office skills to prepare the	MUS 291/292 Theory 2A/2B6
student for direct employment in a medical practice	B. Other departmental requirements:
setting.	MUS 121/122 Class Piano 1A/1B (for Music Majors)*2
<b>Program Description:</b> This program provides an	MUS 221/222 Class Piano 2A/2B (for Music Majors)*2
understanding of front and back office skills to pre-	MUS Instrumental or Vocal lessons
pare the student for direct employment in a medical practice setting.	MUS Performing Ensembles
	The following are not required, but highly recommended:
A. Program Prerequisites	MUS 142 Educational Methods for Brass**
MAT 121 Intermediate Algebra or approved	*not required for piano majors
higher level math	**recommended for all music majors
Reading score of 219 or higher	C. Arizona General Education Curriculum-Arts
A. Required major courses:	(AGEC-A):
AHE 101 Medical Terminology 3	Freshman Composition (ENG 101 or 107 and
<b>MDA 120</b> Medical Office 4	ENG 102 or 108)
MDA 121 Medical Technician 6	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) . 3
MDA 239 Medical Assistant Externship I4	man approved higher level mathy.

<b>Arts and Humanities (</b> Select at least one course from
the Arts list and one course from the Humanities list.)6
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:
Total credits required for degree: 64

# Networking

Certificate

Major Code: CERT.NETWK

Contact: Business and Social & Behavioral Science

(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.

A. Required major courses:
BUA 220 Legal Environment of Business 3
CIS 120 Introduction to Computer
Information Systems
CIS 175 Computer Security
CIS 260 Introduction to Operating Systems $\dots 3$
CIS 270 Networking Fundamentals 3
CIS 271 Networking Administration
CIS 272 Network Routing and Switching 3
CIS 275 Fundamentals of Network Security 3
CIS 295 Structured Systems Analysis and Design 3
<b>ENG 101</b> Freshman Composition I
Total credits required for certificate:30

### Nursing

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

Major Code: AAS.NUR

Contact: Nursing Department (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) competency in communication, critical thinking, quantitative analysis, and technological applications.

**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:

- 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 standardbased 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) (Cronenwett 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 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 cumulative score within 24 months of application.
- 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.** 

Additional information is available on the AWC website at **www.azwestern.edu/nursing** or by contacting the Department of Nursing.

# 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 I or ENG 107 First-Year Composition I (for Multilingual Writers)...3 A. Required major courses: . . . . . . . . . . . . . . . . . . 45 BIO 202 Human Anatomy and Physiology II . . . . . . 4 NUR 117 Pharmacology with Clinical Calculations. . 2 Students must successfully pass designated standardized exams in order to progress to the next nursing course.

B. Other departmental requirements: . . . . . . . . . . . 0

Freshman Composition (ENG 102 or 108)......3

with Applications or approved higher level math). 3

Mathematics (MAT 142 College Mathematics

Freshman Composition (ENG 101 or 107)

(met in prerequisite)

Arts and Humanities
Social and Behavioral Sciences (PSY 101
Introduction to Psychology)
Physical and Biological Sciences (BIO 205
Microbiology) (met in major required courses)  Additional Courses
Additional Courses
D. General electives:
Total credits required for degree:
Nursing Assistant
Certificate
Major Code: CERT.NURAS
Contact: Nursing Department (928) 317-6049
<b>Program Purpose:</b> Graduates will demonstrate basic knowledge as required of beginning nursing assistant practitioners.
<b>Program Description:</b> 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:
AHE 130 Nursing Assistant
B. Other departmental requirements:
In order to be eligible to apply for the AWC Nursing Assistant Program, the student must have the following:
<ul> <li>reading score of 80 or above on the Computerized Placement Test (CPT-R)</li> </ul>
• be eligible for MAT 121 or approved higher level math
• 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: Nursing Department(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 NUR 221 and a score of 850 or higher on HESI PN Exit Exam. 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

Prerequisites:
BIO 201 Anatomy and Physiology I 4
<b>ENG 101</b> Freshman Composition I
A. Required major courses:
BIO 202 Human Anatomy and Physiology II 4
FAS/PSY 238 Human Development
NUR 117 Pharmacology with Clinical Calculations2
<b>NUR 121</b> Nursing 1
<b>NUR 122</b> Nursing 2
<b>PSY 101</b> Introduction to Psychology3
<b>NUR 221</b> Nursing 3*8
*A licensure topics tutorial is also required.
Total credits required for certificate:

# Organizational Leadership

Certificate

Major Code: CERT.ORGLD

**Contact:** Business and Social & Behavioral Science (928) 344-7689

**Program Purpose:** Graduates will demonstrate basic knowledge in organizational leadership skills that will prepare them to an entry-level position within the field.

**Program Description:** For students whose personal interests and needs are to enhance their leadership skills in a workplace environment. The certificate is to assist students to appreciate and explore diversity

within the workplace. Individuals who successfully complete this certificate will have a deeper understanding of leadership skills to be utilized in any kind of organizational setting. Also, provides an opportunity to learn how to engage with people to make leadership decisions in a variety of situations in a changing business world. This program may assist graduates in acquiring entry-level positions or for employees currently working in or aspiring to work in supervisory levels or entry managerial training positions.

A. Required major courses:
BUA 100 Survey of Business
<b>BUA 109</b> Principles of Human Relations 3
BUA 290 Business Communications3
MGT 135 Management Fundamentals 3
<b>MGT 280</b> Leadership
BUA 210 Customer Service Management OR3
MGT 250 Personnel Supervision 3

Total credits required for certificate: 18

# Paralegal Studies

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

Major Code: AAS.LEGAL

Contact: Business and Social & Behavioral Science

(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:
LAS 100 Introduction to Paralegalism
LAS 101 Introduction to Law
<b>LAS 109</b> Legal Procedures 4
LAS 115 Criminal Trial Procedure

	<b>LAS 131</b> Legal Writing
	<b>LAS 204</b> Business Law for Paralegals 3
	<b>LAS 208</b> Probate
	<b>LAS 211</b> Legal Research
	LAS 212 Insurance and Tort Law
	LAS 216 Real Estate Transactions
	<b>LAS 217</b> Family Law
	LAS 218 Administrative Law
	<b>LAS 219</b> Bankruptcy
	LAS 220 Legal Interviewing, Investigating,
	and Report Writing
В.	Other departmental requirements:0
С.	General education requirements: 21
	English Composition (ENG 100, 101 or 107, or 102
	or <b>108</b> )
	Mathematics (MAT 105 Mathematics for the
	Applied Sciences or approved higher level math) 3
	Arts and Humanities $\dots \dots \dots \dots \dots 3$
	Social and Behavioral Sciences
	Physical and Biological Sciences 4
	Additional Courses
D.	General electives:
То	tal credits required for degree:
Sti	udents pursuing a paralegal career may also benefit from
th	e following recommended electives:
	CIS 120 Introduction to Computer Information Systems
	CIS 175 Computer Security
	•
	LAS 221 Computerized Law Office
	LAS 221 Computerized Law Office and Litigation Support
	•

## Paralegal Studies

Certificate

Major Code: CERT.LEGAL

**Contact:** Business and Social & Behavioral Science (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:
LAS 101	Introduction to Law
LAS 109	Legal Procedures 4
LAS 131	Legal Writing
LAS 204	Business Law for Paralegals
LAS 211	$Legal \; Research \dots \dots$
LAS 220	Legal Interviewing, Investigating, and Report Writing
LAS 221	Computerized Law Office and Litigation Support
Total credit	s required for certificate: 22

# Philosophy

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.PHILO

Contact: Business and Social & Behavioral Science

(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: The study of philosophy has, as it's primary aim, the cultivation of wisdom and understanding regarding the most basic and foundational elements of human experience (e.g., the nature and structure of reality, knowledge, and values), pursued through the application of rational argument and critical thinking. This program constitutes an excellent liberal arts foundation for students planning to pursue university studies in philosophy, law, education, communications, science, and art, among others.

											_	
Α.	Required	maior	courses:								ς	Ì

	PHI 101 Introduction to Philosophy 3
	PHI 103 Introduction to Logic
	PHI 105 Introduction to Ethics
В.	Other departmental requirements:6
Sel	ect 6 credits from the following courses:
	PHI 210 Philosophy of Science
	<b>PHI 220</b> Medical Ethics
	PHI 233 Philosophy of Religion
	PHI 240 Ancient Philosophy
	PHI 257 Social and Political Philosophy 3
	Arizona General Education Curriculum-Arts (AGEC-A):
	Mathematics (MAT 142 College Mathematics
	with Applications or approved higher level math) 3
	Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.)6
	Social and Behavioral Sciences 6
	Physical and Biological Sciences 8
	Additional Courses (see the AGEC-A
	Additional Courses list for possible selections)
D.	General electives:
	tal credits required for degree: 64

# **Physical Education**

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.PHSED

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

Program Purpose: Graduates will demonstrate

Program Description: Designed to.

A. Required major courses:	20
BIO 181 General Biology	. 4
<b>EDU 110</b> Introduction to Education	. 3
EDU 200 Lesson Planning	. 2
<b>EXW 101</b> Concepts of Kinesiology	. 2
<b>EXW 265</b> Exercise Science for Special Populations	. 3

Program Purpose: Grad basic knowledge in phy- transfer to the university in AWC's General Educa	NTR 139 Personal Nutrition				
Program Description:	Department Electives:				
most basic interactions This program prepares s	elect 1 course from each of the following groups:				
university to major in ph career for which physics	<b>Group Exercise</b> (Aerobics, T'ai Chi Chih, Yoga, Judo, Karate, Self-Defense)				
A. Required major cours	Recreational Fitness (Golf, Swimming, Walking & Jogging, Scuba)				
PHY 121 Mechanics.	Sports (Baseball, Softball, Basketball, Football,				
PHY 131 Electricity ar	Soccer, Volleyball				
	Weight Training (Resistance Training)				
B. Other departmental					
EGR 123 Introduction	Arizona General Education Curriculum-Arts				
MAT 230 Calculus II v	(AGEC-A):				
MAT 241 Calculus III v	Freshman Composition (ENG 101 or 107 and				
MAT 262 Introduction	<b>ENG 102</b> or <b>108</b> 6				
Differential	<b>Mathematics</b> ( <b>MAT 142</b> College Mathematics with Applications or approved higher level math). 3				
C. Arizona General Edu Curriculum-Science (	Arts and Humanities (PHI 105 Introduction to Ethics recommended. Select at least one course from the Arts list and one course from the Humanities list.) 6				
Freshman Compositi	Social and Behavioral Sciences				
<b>ENG 102</b> or <b>108</b> )	Physical and Biological Sciences (BIO 201 Human				
Mathematics (MAT 2	Anatomy and Physiology I and <b>BIO 202</b> Human				
Analytic Geometry or	Anatomy and Physiology II) 8				
Arts and Humanities	Additional Courses (SPC 215 Public Speaking				
the Arts list and one c	and one additional course- see the AGEC-A				
Social and Behaviora	Additional Courses list for possible selections) 6				
Physical and Biologic and CHM 152 Genera	General electives:				
Additional Courses (s					
Additional Courses (S					
Courses list for possib	<b>EXW 150</b> Nutrition for Exercise and Sports 2 <b>PEM 100</b> Introduction to PERS				

# **Physics**

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.PHYSI

Contact: Math, Engineering, Science, and Wellness &

Physical Education (928) 344-7685

**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. Requ	ired major courses:
PHY	<b>121</b> Mechanics
PHY	<b>131</b> Electricity and Magnetism 4
B. Othe	er departmental requirements:
EGR	<b>123</b> Introduction to Structured Programming . 3
MAT	230 Calculus II with Analytic Geometry5
MAT	<b>241</b> Calculus III with Analytic Geometry 4
MAT	<b>262</b> Introduction to Ordinary
	Differential Equations
Curr	ona General Education iculum-Science (AGEC-S):
Curr	iculum-Science (AGEC-S): 37–39
Curr Fres	iculum-Science (AGEC-S): 37–39
Curr Fres ENG	iculum-Science (AGEC-S): 37–39  hman Composition (ENG 101 or 107 and
Curr Fres ENG Matl	iculum-Science (AGEC-S):
Curr Fres ENG Matl	iculum-Science (AGEC-S):
Fres ENG Matl Anal	hman Composition (ENG 101 or 107 and 102 or 108)
Fres ENG Matl Anal Arts	iculum-Science (AGEC-S):
Curr Fres ENG Matl Anal Arts the A	hman Composition (ENG 101 or 107 and 102 or 108)
Curr Fres ENG Matl Anal Arts the A Socia	hman Composition (ENG 101 or 107 and 102 or 108)
Curr Fres ENG Matl Anal Arts the A Socia Phys	hman Composition (ENG 101 or 107 and 102 or 108)

# Plumbing

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

Major Code: AAS.PLMB

Contact: Career and Technical Education (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.

139

**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:	19
PCT 105 Introduction to Plumbing Technology PCT 115 Plumbing Drain, Waste, and	
Venting Systems	
PCT 210 Plumbing Fixture and Appliance Installation	
TEC 100 Core Curriculum Introductory Crafts Skills	
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
<b>DFT 100</b> AutoCAD 1 - Drafting	. 3
ECT 105 Basic Electricity	. 3
<b>ENT 100</b> Introduction to Entrepreneurship	. 3
<b>TEC 165</b> Employee and Occupational Safety	. 3
C. General education requirements:	21
English Composition (ENG 100, 101 or 107, or	
102 or 108)	. 6
Mathematics (MAT 105 College Mathematics for	2
<b>Applied Sciences</b> or approved higher level math)	
Arts and Humanities	
Social and Behavioral Sciences.	
Physical and Biological Sciences	
Additional Courses	. 2
D. General electives:	. 0
Total credits required for degree:	61

# Plumbing (STEM Emphasis)

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

Major Code: AAS.PLMSE

Contact: Career and Technical Education (928) 344-

7567

Program Purpose: Graduates will demonstrate increased knowledge and ability in subjects related to STEM (Science, Technology, Engineering and Math) through completion of courses as part of the AGEC (Arizona General Education Curriculum); as well as 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:** This program provides courses in the plumbing and technical subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

A.	Required major courses:
	PCT 105 Introduction to Plumbing Technology 3 PCT 115 Plumbing Drain, Waste, and
	Venting Systems
	PCT 210 Plumbing Fixture and Appliance Installation4
	TEC 100 Core Curriculum Introductory Crafts Skills . 5
В.	Other departmental requirements:
	ACR 101 Air Conditioning and Refrigeration 1 3
	CTM 110 Construction Estimating
	<b>DFT 100</b> AutoCAD 1 - Drafting
	ECT 105 Basic Electricity
	<b>TEC 165</b> Employee and Occupational Safety 3
	<b>TEC 175</b> Employee and Occupational Safety 2 3
<b>C</b> .	Arizona General Education Curriculum-Arts
C.	(AGEC-A):
с.	(AGEC-A):
C.	(AGEC-A):
	(AGEC-A):
c.	(AGEC-A):

# Plumbing Technology

Certificate

Major Code: CERT.PLMB

Contact: Career and Technical Education (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:
PCT 105 Introduction to Plumbing Technology 3
PCT 115 Plumbing Drain, Waste, and Venting Systems
PCT 205 Plumbing Water Supply and Distribution Systems
PCT 210 Plumbing Fixture and Appliance Installation
<b>TEC 100</b> Core Curriculum Introductory Crafts Skills . 5
3. Other departmental requirements:6
ACR 101 Air Conditioning and Refrigeration 1 3
ECT 105 Basic Electricity
Total credits required for certificate: 25

### Political Science

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.POLSC

Contact: Business and Social & Behavioral Science

(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
	POS 110 American Politics
В.	Other departmental requirements:6
	<b>POS 120</b> World Politics
	POS 130 State and Local Politics
	POS 140 Comparative Politics
	POS 257 Social and Political Philosophy 3
C.	Arizona General Education Curriculum-Arts (AGEC-A):
	Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
	Mathematics (MAT 142 College Mathematics with Applications or approved higher level math). 3
	Arts and Humanities (Select at least one course from
	the Arts list and one course from the Humanities list.)6
	Social and Behavioral Sciences (ECN 240
	Principles of Macroeconomics recommended)6
	Physical and Biological Sciences 8
	Additional Courses (see the AGEC-A Additional
	Courses list for possible selections)
D.	General electives:
	tal credits required for degree: 64

# Preschool Center-Based Child Development Associate (CDA) Credential

Certificate

Major Code: CERT.CDAPR

Contact: Liberal Arts & Education (928) 344-7708

**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. R	equired	major courses: 21
E	CE 101	Providing a Healthy Environment for Children in an Early Childhood Program1
E	CE 103	Ensuring a Safe Environment for Children in an Early Childhood Program
Е	CE 104	Planned Arrangements and Schedules 1
Е	CE 105	Techniques for Observing Children 1
Е	CE 106	Building Relationships with Parents 1
Е	CE 107	The Child's Total Learning Environment 1
Е	CE 108	Guidance Principles 1
Е	CE 111	Nutrition
Е	CE 114	Understanding How Children Learn 1
Е	CE 117	Multicultural and Anti-Bias Curriculum 1
Е	CE 124	Creative Media1
Е	CE 125	Dramatic Play
Е	CE 128	Music and Creative Movement 1
Е	CE 153	Ages and Stages: The Preschool Years 1
Е	CE 143	Professional Portfolio
Е	CE 145	CDA Student Teaching-Vocational 2
Sele	ct one c	ourse from each of the following groups:
Е	CE 121	Sciencing and Discovery <b>OR</b>
Е	CE 126	Blocks
Е	CE 123	Literature for Preschool Children <b>OR</b>
E	CE 129	Emerging Literacy1

Total credits required for certificate: . . . . . . . . . . . 21

## **Preschool Education**

Certificate

Major Code: CERT.PRSCE

Contact: Liberal Arts & Education (928) 344-7708

**Program Purpose:** Graduates will demonstrate basic knowledge in child development that will prepare them for a national credential and to obtain an entrylevel position within the field.

Program Description: This is a highly individualized, competency-based program taught with a consolidated group of courses. Program requires for students to be observed working with children in a preschool setting. Students should meet all requirements for working with children before entering the program. All courses require that the student work in a child care setting or acceptance as an intern at the AWC Child Development Learning Laboratory (CDLL).

A. Required	major courses:
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 $$
ECE 108	Guidance Principles
ECE 111	Nutrition
ECE 114	Understanding How Children Learn $\dots$ 1
ECE 117	Multicultural and Anti-Bias Curriculum $\ldots1$
ECE 124	Creative Media
ECE 125	$DramaticPlay\dots$
ECE 128	Music and Creative Movement 1
ECE 153	Ages and Stages: The Preschool Years 1 $$
Select one c	ourse from each of the following groups:
ECE 121	Sciencing and Discovery <b>OR</b>
ECE 126	Blocks
ECE 123	Literature for Preschool Children <b>OR</b>
ECE 129	Emerging Literacy
Total credit	s required for certificate:

# Professional IT Support

Certificate

Major Code: CERT.PITS

Contact: Career and Technical Education (928) 344-

7567

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

**Program Description:** Provide learners with a working knowledge in troubleshooting, customer service, networking, operating systems, system administration and security.

A. Required major courses:
PIT 100 IT Support: Technical Support Fundamentals2
PIT 101 IT Support: Computer Networking3
PIT 102 IT Support: Operating Systems 3
PIT 103 IT Support: System Administration2
PIT 104 IT Support: IT Security and
Google Certification2
Total credits required for certificate:

# Psychology/Sociology

Associate in Arts (A.A.) degree

Pathway: Psychology: AA/SR; Sociology: AA/GR

Major Code: AA.PSYSO

Contact: Business and Social & Behavioral Science

(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:
	<b>PSY 101</b> Introduction to Psychology3
	<b>PSY 270</b> Social Psychology

	PSY 281 Abnormal Psychology3PSY 290 Research Methods for the Social Sciences4SOC 101 Introduction to Sociology3SOC 230 Social Problems3SOC 240 Racial and Ethnic Relations3
В.	Other departmental requirements: 3–4
Sel	ect one of the following courses:
	PSY 230 Statistics for the Social Sciences
	SOC 160 Close Relationships (required in the 3 baccalaureate Sociology major)
	Arizona General Education Curriculum-Arts (AGEC-A):
	ENG 102 or 108)
D.	General electives:
	s recommended that at least one of the following cours- be taken as an elective:
	ANT 130 Cultural Anthropology
	<b>PSY 140</b> Positive Psychology
	PSY/SOC 170 Human Sexuality
	PSY 227 Personality
	PSY/FAS 238 Human Development
Tot	tal credits required for degree:

# Public Safety-Level 1

Certificate

Major Code: CERT.AJSPS

Contact: Career and Technical Education (928) 344-

756

**Program Purpose:** Implementing a new certificate and degree to meet the needs of local public safety agencies. This program will encourage local public safety personnel to further their education in their

profession which will assist them in pursuing promotional opportunities with their agency.

Program Description: The public safety construct has become a large, complex, and dynamic enterprise consisting of multiple processions, skill sets, and expertise. The certificate in public safety will assist the individual in understanding constant innovation and unrelenting evolution of public safety. The certificate will assist the individual in their professional endeavors in their chosen field.

A. Required major courses:					
AJS 123 Ethics in Criminal Justice					
B. Other departmental requirements:3					
Select one of the following courses:					
AJS 220 Spanish for Law Enforcement 3					
AJS 191 Terrorism/Counter Terrorism					
<b>Any approved law enforcement course</b> (consult with an advisor)					
Total credits required for certificate:					

# Radiologic Technology

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

Major Code: AAS.RADTE

Contact: Career and Technical Education (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 Registered Technologists (ARRT) allowing successful students to graduate with expertise at the entry level in the field of Radiologic Technology and 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.

#### General education and major prerequisites:

То	be	completed	prior	to	application	to	the	A.A.S
pro	ograi	m. Applicant	s must	hav	ve a GPA of 2	2.5	or ab	ove, in
the required prerequisite courses, to be eligible to apply to								
the Radiologic Technology Program								

General Education prerequisites:  English Composition (ENG 100, 101 or 107, or 102 or 108)					
Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) 3  Arts and Humanities					
Social and Behavioral Sciences (PSY 101 Introduction to Psychology)					
Additional Courses (CIS 120 Introduction to Computer Information Systems)					
Major prerequisite: AHE 101 Medical Terminology					
A. Required major courses					
RAD 100 Introduction to Radiography and Patient Care					
RAD 200 Radiographic Imaging Equipment 3 RAD 205 Advanced Radiologic Procedures 3					

<b>RAD 207</b> Radiation Biology and Protection			
RAD 215 Principles of Radiographic Imaging 23			
RAD 216 Radiologic Pathology			
RAD 217 Advanced Medical Imaging2			
RAD 220 Clinical 4 Medical Radiologic Technology 5			
RAD 221 Clinical 5 Medical Radiologic Technology 5			
RAD 225 Radiologic Technology Seminar2			
B. Other departmental requirements:0			
C. General education requirements:			
C. General education requirements:			
·			
(completed as prerequisites to program)			

# be used to satisfy one or more major and/or departmental course requirements

# Retail Management

Certificate

Major Code: CERT.RETMG

Contact: Business and Social & Behavioral Science

(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.

A. Required major courses:
ACC 100 Introduction to Accounting 3
<b>BUA 110</b> Business Application Concepts 3
CIS 120 Introduction to Computer Information
Systems
MGT 135 Management Fundamentals 3
MGT 220 Principles of Retailing3
MGT 250 Personnel Supervision
<b>MGT 280</b> Leadership
MKT 110 Principles of Marketing3
D. Others described as a signature of the second se
B. Other departmental requirements: 6

Гс	otal credits required for certificate:	0
	SPC 110 Introduction to Speech Communications	3
	<b>ENG 110</b> Technical Writing	3

### Small Unmanned Aerial Systems

Certificate

Major Code: CERT.UAS

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** This certificate is designed to prepare students to enter the Unmanned Aircraft Technology field. The required course work provides the students with the skills to manage and plan flight operations. Students demonstrate the ability to collect and process imagery data for analysis. Students also develop skills that they can apply in multiple applications including agriculture, natural and cultural resources management, emergency response, aerial videography and photography.

Program Description: A certificate program to prepare students for careers in the field of Unmanned Aerial Systems (UAS). The operations of UAS have a variety of research and commercial uses, with rapid growth and continually evolving applications. A flexible curriculum has been carefully designed to permit either an in-depth or cross-disciplinary approach to the study of geospatial science and aviation, maximizing a student's ability to design his/her academic program beyond the core disciplinary requirements of a degree program. The UAS program emphasizes remote observation with aviation fundamentals and complete knowledge on aviation safety and FAA regulations. The Unmanned Aerial Systems (UAS) concentration prepares students for careers in the rapidly growing area of UAS, including operations, remote sensing, data collection and analysis.

A. Required major courses:
UAS 100 Introduction to Unmanned Aerial Systems 3
UAS 101 Aviation sUAS Pilot Ground School 3
UAS 102 UAS Image Analysis and Visualization 3
<b>UAS 103</b> UAS Flight Operations and Planning 3
B. Other departmental requirements:

	MAT 142 College Mathematics with Applications or approved higher level math				
	<b>GPH 171</b> Introduction to Meteorology				
	<b>GST 108</b> Geospatial Technology Capstone2				
C.	Required minor courses: 6–8				
Sei	lect courses from within one department below.				
Sci	iences				
	AGS 240 Environmental Effects on Food Safety 3				
	<b>BIO 181</b> General Biology I 4				
	BIO 182 General Biology II 4				
	<b>ENV 101</b> Environmental Science 4				
	<b>ENV 230</b> Foundations of Environmental Science:				
	Human and the Environment				
	<b>GLG 101</b> Introduction to Geology 4				
	<b>GLG 110</b> Environmental Geology 4				
	<b>GST 101</b> Introduction to Geospatial Technology 3				
	<b>GST 102</b> Spatial Analysis and Modeling 3				
	<b>GST 105</b> Introduction to Remote Sensing3				
	<b>OCN 110</b> Oceanography 4				
	<b>PLS 100</b> Plant Science				
	PLS 120 Agricultural Entomology 3				
Pu	blic Safety				
	AJS 191 Terrorism and Counter Terrorism3				
	<b>AJS 230</b> Police Function				
	FSC 108 Occupational Safety and Health				
	for Emergency Services 3				
	<b>FSC 151</b> Principles of Emergency Services 3				
	<b>HLS 101</b> Introduction to Homeland Security 3				
	$\mbox{HLS 103}$ Introduction to Fire and Emergency Services3				
	HLS 215 Critical Incident Management				
	for Public Safety				
En	gineering, Technology, & Mathematics				
	<b>CIS 154</b> Introduction to E-Commerce/E-Business 3				
	<b>CIS 171</b> Computer Forensics and Investigations 3				
	<b>CIS 175</b> Computer Security				
	<b>CSC 127A</b> Introduction to Computer Science 1 4				
	CSC 210 Human Computer Interaction 4				
	<b>DFT 100</b> AutoCAD I - Drafting				
	<b>DFT 102</b> AutoCAD II - Drafting 4				
	<b>EGR 150</b> Introduction to Environmental Engineering 3				
	<b>EGR 270</b> Plane Surveying				
	MAT 270 Applied Statistics3				

#### Media, Marketing & Business

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tal credits required for degree:	28
QBA 211 Quantitative Analysis	. 3
TVP 225 Television Production 2	. 3
TVP 125 Television Production 1	. 3
MKT 230 Principles of Advertising	. 3
MKT 110 Principles of Marketing	. 3
JRN 135 Introduction to Photojournalism	. 3
GRA 104 Digital Imaging I	. 4
<b>GRA 101</b> Graphic Communications I	. 3
BUA 220 Legal Environment of Business	3

# Social Work: US-Mexico Border Emphasis

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SOCWK

Contact: Business and Social & Behavioral Science

(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 prepares them to meet the demands of promoting human and community wellbeing. 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:	A. Required major cou
<b>PSY 101</b> Introduction to Psychology 3	ENV 230 Foundation
PSY/FAS 238 Human Development 3	Humans an
<b>SOC 240</b> Racial and Ethnic Relations 3	GEO 105 World Reg
<b>SOC 250</b> Introduction to Social Work	PLS 211 Soils
	PLS 230 Basic Crop F
B. Other departmental requirements: 10	PLS 100 Plant Science ENV 101 Environmen
HIS 280 History of Mexico	
FAS 185 Family Communication Skills 3	B. Other departmenta
<b>PSY 230</b> Statistics for the Social Sciences 4	
	GLG 101 Introduction
C. Arizona General Education Curriculum-Arts	GLG 110 Environmer
(AGEC-A):	C. Camanal advanting
Freshman Composition (ENG 101 or 107 and	C. General education r
<b>ENG 102</b> or <b>108</b> )	Freshman Compositi
Mathematics (MAT 142 College Mathematics	<b>102</b> or <b>108</b> )
with Applications or approved higher level math). 3	Mathematics (MAT 2
Arts and Humanities (PHI 105 Introduction	Analytic Geometry or
to Ethics and an Arts course) 6	Arts and Humaniti
Social and Behavioral Sciences (SOC 101	from the Arts list and list. <b>ENG 281</b> and <b>PH</b>
Introduction to Sociology and FAS 204	
Gender Relations)6	Social and Behaviora Principles of Macroec
Physical and Biological Sciences (BIO 160	Principles of Microeco
Introduction to Human Anatomy and	Physical and Biologic
Physiology and one additional course) 8	General Chemistry I a
Additional Courses (SPA 101 Elementary Spanish 1	Additional Courses
and <b>SPA 102</b> Elementary Spanish 2) 8	Biology I and II
D. General electives: (SPC 215 Public Speaking	Total credits required
recommended)	iotai ciedits required
Total credits required for degree: 63	

### Soils

Associates in Science

Pathway: AS/SR

Major Code: AS.SOILS

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** To meet the needs of the agricul-

tural and environmental science industry.

**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.

A. Required major courses:1	9
<b>ENV 230</b> Foundations of Environmental Science:	
Humans and the Environment	. 4
GEO 105 World Regional Geography	. 3
<b>PLS 211</b> Soils	4
PLS 230 Basic Crop Fertility	4
PLS 100 Plant Science OR	
ENV 101 Environmental Science	. 4
B. Other departmental requirements:	. 8
GLG 101 Introduction to Geology 1 (Physical)	. 4
GLG 110 Environmental Geology	. 4
C. General education requirements:	39
Freshman Composition (ENG 101 or 107 and EN 102 or 108)	
Mathematics (MAT 220 Calculus I with	
Analytic Geometry or approved higher level math).	. 5
Arts and Humanities (Select at least one confrom the Arts list and one course from the Human list. ENG 281 and PHI 105 recommended)	nitie
Social and Behavioral Sciences (ECN 240	
Principles of Macroeconomics and ECN 250	
Principles of Microeconomics)	. 6
Physical and Biological Sciences (CHM 151 and 1 General Chemistry I and II)	
Additional Courses (BIO 181 and 182 Ger Biology I and II	nera
Total credits required for degree:	66

### Solar Panel Installation Level 1

Certificate

Major Code: CERT.SOLIN

Contact: Career and Technical Education (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 mount-

ing, 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 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
SLR 105 Intro to Solar Photovoltaics 1	. 3
SLR 110 Intro to Solar Photovoltaics 2	. 3
TEC 140 Roofing Construction & Safety	. 2
TEC 100 Core Curriculum Introductory Craft Skills.	. 5

### Solar Photovoltaic Installation

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

Major Code: AAS.SOLPV

Contact: Career and Technical Education (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 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
	<b>SLR 105</b> Intro to Solar Photovoltaics 1	3
	<b>SLR 110</b> Intro to Solar Photovoltaics 2	3
	<b>TEC 100</b> Core Curriculum Introductory Craft Skills	5
В.	Other departmental requirements:1	1
	ECT 205 Fixtures and Installation	4
	ECT 210 Control Circuits	4
	MFG 195 Materials Science and Metallurgy	3
c.	General education requirements: 2	1
		•
	English Composition (ENG 100, 101 or 107,	•
	<b>English Composition (ENG 100, 101</b> or <b>107</b> , or <b>102</b> or <b>108</b> )	
	-	
	or <b>102</b> or <b>108</b> )	6
	or 102 or 108)	6
	or 102 or 108)	6 3 3
	or 102 or 108)  Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).  Arts and Humanities	6 3 3
	or 102 or 108)  Mathematics (MAT 105 Mathematics for the Applied Sciences or approved higher level math).  Arts and Humanities  Social and Behavioral Sciences.	6 3 3 4

# Solar Photovoltaic Installation (STEM Emphasis)

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

Major Code: AAS.SOLSE

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate increased knowledge and ability in subjects related to STEM (Science, Technology, Engineering and Math) through completion of courses as part of the AGEC (Arizona General Education Curriculum); as well as

- 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:** This program provides courses in the electrical and photovoltaic subject areas as well as the required general education courses to prepare students to transfer to a university. Students should work closely with an Academic Advisor regarding the requirements at a specific four-year institution.

A. Required major courses:
ECT 105 Basic Electricity
<b>ECT 110</b> AC/DC Circuits4
ECT 115 National Electrical Code 3
ECT 205 Fixtures and Installation4
ECT 210 Control Circuits 4
ECT 220 Electrical Installation 5
ECT 225 Load Calculation3
<b>TEC 140</b> Roofing Construction & Safety 2
<b>SLR 105</b> Intro to Solar Photovoltaics 1 3
<b>SLR 110</b> Intro to Solar Photovoltaics 2 3
B. Other departmental requirements: 6
MFG 195 Materials Science and Metallurgy 3
<b>TEC 165</b> Employee and Occupational Safety 3
C. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and
<b>ENG 102</b> or <b>108</b> )
Mathematics (MAT 142 College Mathematics
with Applications or approved higher level math). 3
<b>Arts and Humanities (PHI 105</b> Introduction to Ethics recommended. Select at least one course from the
Arts list and one course from the Humanities list.) 6
Social and Behavioral Sciences 6
Physical and Biological Sciences 8
Additional Courses (CIS 120 Introduction to Computer
Information Systems and SPC 215 Public Speaking
recommended)6
D. General electives:
Total credits required for degree:

## Spanish

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SPANI

Contact: Liberal Arts & Education (928) 344-7708

**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:
SPA 251 Intermediate Spanish Grammar and Composition
$\ensuremath{SPA}$ 263 Introduction to Hispanic Film and Culture . 3
SPA 281 Mexican-American History OR
HIS 280 History of Mexico
Select one of the following courses:
SPA 260 Mexican-American Literature
<b>SPA 261</b> Introduction to Spanish Literature 3
SPA 265 Survey of Spanish and Spanish-American Literature
Encorataro
B. Other departmental requirements: 0
B. Other departmental requirements: 0  C. Arizona General Education Curriculum-Arts (AGEC-A):
B. Other departmental requirements:

Social and Behavioral Sciences	Social and Behavioral Sciences (ECN 240 Principles of Macroeconomics and ECN 250 Principles of Microeconomics)
D. General electives:	Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6
Total credits required for degree:	D. General electives:
Sports Management	PED 120 Leisure and Quality of Life
Associate in Arts (A.A.) degree	<b>PEM 204</b> Methods of Coaching Sports3
Pathway: AA/SR Major Code: AA.SPMGT	Total credits required for degree:
<b>Contact:</b> Math, Engineering, Science, and Wellness & Physical Education (928) 344-7685	Television Production
Program Purpose: Graduates will learn basic skills in management and marketing. They will demonstrate critical thinking skills that will prepare them for an	Associate in Applied Science (A.A.S.) degree
entry level position in the field or prepare them to transfer to a university to further pursue an education in the sports management field.	Major Code: AAS.TVPRO  Contact: Liberal Arts & Education (928) 344-7708
Program Description: This program prepares graduates with essential skills required for an entry level position in a variety of sports management fields.	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.
A. Required major courses:	<b>Program Description:</b> 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 educa-

A. Required major courses:
ACC 100 Introduction to Accounting
CIS 120 Introduction to Computer
Information Systems 3
<b>PED 102</b> Issues in Sports
<b>PEM 125</b> Foundations of Sports Management 3
<b>PEM 135</b> Sports Marketing
<b>PEM 203</b> Sports Psychology 3
<b>SPC 215</b> Public Speaking
B. Other departmental requirements:0
C. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math). 3
<b>Arts and Humanities</b> (Select at least one course from the Arts list and one course from the Humanities list.) 6

•
BDC 100 Introduction to Broadcasting3
BDC 120 Announcing and Performance 13
BDC 210 Broadcast Writing
BDC 215 Audio Production3
JRN 100 Introduction to Mass Communications 3
SPC 215 Public Speaking

tional institutions, PBS shows, productions and cable-casts 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.

TVP 125 Television Production 1 4
TVP 170 TV Control Room Operation3
<b>TVP 225</b> Television Production 2
TVP 250 Video Post Production
B. Other departmental requirements:6
<b>JRN 125</b> News Writing
Any <b>CIS</b> course
C. General education requirements:
English Composition (ENG 100, 101 or 107, or
<b>102</b> or <b>108</b> )
Mathematics (MAT 105 Mathematics for the
Applied Sciences or approved higher level math) . 3
Arts and Humanities
Social and Behavioral Sciences
Physical and Biological Sciences 4
Additional Courses
D. General electives:
Total credits required for degree:

### Theatre

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.THETR

Contact: Liberal Arts & Education (928) 344-7708

**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:
<b>THE 101</b> Survey of Theatre History
<b>THE 102</b> History of Contemporary Theatre 3
*THE 172 Acting 2 OR
<b>*THE 130</b> Stagecrafts

<sup>\*</sup>It is highly recommended that both courses be taken.

B. Other departmental requirements:
Select from the following courses:
<b>THE 171</b> Acting 1
<b>THE 213</b> Creative Drama
THE 215 Basic Stage Lighting
<b>THE 222</b> Voice and Diction
THE 250 Rehearsal and Production (repeatable) 1-3
C. Arizona General Education Curriculum-Arts (AGEC-A):
Freshman Composition (ENG 101 or 107 and ENG 102 or 108)
with Applications or approved higher level math) 3
Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.)6
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:
Total credits required for degree:

# Welding

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

Major Code: AAS.WELDT

**Contact:** Career and Technical Education (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:					
MFG 185 Quality Control and Inspection 3					
MFG 195 Materials Science and Metallurgy 3					
WLD 105 Techniques in Oxyacetylene Welding					
and Cutting					
WLD 106 Techniques in Shielded Metal Arc Welding					
WLD 108 Techniques in Gas Tungsten Arc Welding 3					
WLD 109 Techniques in Gas Metal Arc Welding 3					
WLD 123 Manufacturing/Welding					
Technology Survey					
WLD 124 Arc Welding Processes and					
Power Sources3					
WLD 125 Welding Design, Layout, and Fabrication 3					
WLD 224 Technical Specialized Welding Process 3					
DFT 100 AutoCAD 1 - Drafting					
C. General education requirements: 21					
<b>English Composition (ENG 100, 101</b> or <b>107,</b> or <b>102</b> or <b>108</b> )					
Mathematics (MAT 106 Mathematics for Welders or					
approved higher level math)					
Arts and Humanities					
Social and Behavioral Sciences					
Physical and Biological Sciences 4					
Additional Courses					
D. General electives:					

Total cred	ts required for degree: 66	
Students pursuing a welding career may also benefit from the following recommended electives: ENT 240 Business Plan Development		
Weldin	g	
Certificate		
Major Cod	de: CERT.WELDG	
Contact: 0 7567	Career and Technical Education (928) 344-	
knowledge	Purpose: Graduates will demonstrate basic in welding that will prepare them to entry-level position within the field.	
D.,		
Welding (A	<b>Description:</b> see entry above under A.A.S.)	
Welding (A	•	
Welding (A	A.A.S.)	
Welding (A  A. Require	d major courses:	
Welding (A  A. Require  MAT 10  WLD 10	d major courses:	
A. Require MAT 10 WLD 10	d major courses:	
Welding (A  A. Require  MAT 10  WLD 10  WLD 10	d major courses:	
Melding (A	d major courses:	
Melding (A	d major courses:	
Melding (A  A. Require  MAT 10  WLD 10  WLD 10  WLD 10  WLD 10  WLD 12	d major courses:	
Melding (AMAT 10 WLD 10 WLD 10 WLD 12	d major courses:	
Welding (A  A. Require  MAT 10  WLD 10  WLD 10  WLD 12  WLD 12  WLD 12	d major courses:	
Welding (A  A. Require  MAT 10  WLD 10  WLD 10  WLD 12  WLD 12  WLD 12  WLD 12	d major courses:	

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

# 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 (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.

A. Required major courses:				
MAT 106 Mathematics for Welders				
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				
WLD 201 Introduction to Robotic Welding4				
B. Other departmental requirements:				
<b>DFT 100</b> AutoCAD 1 - Drafting				
Total credits required for certificate: 19	_			

Students pursuing a welding career may also benefit from the following recommended electives:

ENT 240 Business Plan Development

WLD 127 Welder Certification and Code Application

# Welding Certificate of Proficiency SMAW (Shielded Metal Arc Welding) Plate

Certificate

Major Code: CERT.SMAW

Contact: Career and Technical Education (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.

A. Required major courses:
MAT 106 Mathematics Applications for Welders 3
WLD 105 Techniques in Oxyacetylene Welding/Cutting
WLD 106 Techniques in Shielded Metal Arc Welding3
WLD 125 Welding Design, Layout, and Fabrication 3
WLD 127 Welder Certification and Code Application 6
WLD 201 Introduction to Robotic Welding4
B. Other departmental requirements:3
<b>DFT 100</b> AutoCAD 1- Drafting
Total credits required for certificate:
Students pursuing a welding career may also benefit from
the following recommended electives:

# Welding Entry Level 1

Certificate

Major Code: CERT.WLDEL

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate skills necessary to obtain entry level welding certification.

**Program Description:** Provides students opportunity to develop entry level skills for certification and employment in welding.

Required major courses:				
MAT 106 Mathematics for Welders				
WLD 104 Techniques in Flux Core Arc Welding 3				
WLD 105 Techniques in Oxyacetylene Welding/Cutting				
WLD 106 Techniques in Shielded Metal Arc Welding3				
WLD 108 Techniques in Gas Tungsten Arc Welding				
WLD 109 Techniques in Gas Metal Arc Welding 3				
WLD 125 Welding Design Layout and Fabrication 3				
WLD 201 Introduction to Robotic Welding				
B. Other departmental requirements:				
WLD 127 Welder Certification and Code Application				
Total credits required for certificate:				
Students pursuing a welding career may also benefit from the following recommended electives:				

# Welding for Manufacturing-Basic

WLD 128 Welder Certification and Code Application-

ENT 240 Business Plan Development

Open Root

Certificate

Major Code: CERT.WLDMB

Contact: Career and Technical Education (928) 344-

7567

**Program Purpose:** Graduates will demonstrate basic knowledge in welding that will prepare them to obtain an entry level position in the manufacturing field.

**Program Description:** Provides students opportunity to develop entry level skills for certification and employment in manufacturing

A. Required major courses: 12-14
MFG 185 Quality Control and Inspection 3
WLD 106 Techniques in Shielded Metal Arc Welding 3
<b>WLD 107</b> Basic Tools
WLD 109 Techniques in Gas Metal Arc Welding 3
TEC 125 10-Hour OSHA Construction Card OR1
<b>TEC 165</b> Employee and Occupational Safety 3

Total credits required for certificate:. . . . . . . . . 12-14

# Welding Technology (STEM Emphasis)

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

Major Code: AAS.WLDSE

Contact: Career and Technical Education (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:
	MFG 185	Quality Control and Inspection 3
	MFG 195	Materials Science and Metallurgy 3
	WLD 105	Techniques in Oxyacetylene Welding and Cutting
	WLD 106	Techniques in Shielded Metal Arc Welding3
	WLD 108	Techniques in Gas Tungsten Arc Welding 3
	WLD 109	Techniques in Gas Metal Arc Welding $\ensuremath{3}$
	WLD 123	Manufacturing/Welding Technology Survey3
	WLD 124	Arc Welding Processes and Power Sources3
	WLD 125	Welding Design, Layout, and Fabrication 3
	WLD 201	Introduction to Robotic Welding 4
	WLD 224	Technical Specialized Welding Process 3
В.	Other de	partmental requirements:6
	DFT 100	AutoCAD 1 - Drafting
	TEC 165	Employee and Occupational Safety 3

C. Arizona General Education Curriculum-Arts (AGEC-A):
<b>Freshman Composition (ENG 101</b> or <b>107</b> and <b>ENG 102</b> or <b>108</b>
<b>Mathematics (MAT 142</b> College Mathematics with Applications or approved higher level math) . 3
Arts and Humanities (Select at least one course from the Arts list and one course from the Humanities list.)6
Social and Behavioral Sciences
Additional Courses (see the AGEC-A Additional Courses list for possible selections) 6
D. General electives:
Total credits required for degree: 75

# English as a Second Language

Course Cluster

Contact: Liberal Arts & Education (928) 344-7708

**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:** Artes liberales y educación(928) 344-7708

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 exámen de colocación para entrar en el nivel apropiado del estudio. Los estudiantes no pueden escoger el nivel del estudio—hay que hacer el exámen 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.
- (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. Enfasis 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.







# 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			
ARH	Art History			
ART	Art			
ASL	American Sign Language			
AST	Astronomy			
AUT	Automotive Technology			
AWC	College and Career Information			
BDC	Broadcasting			
ВІО	Biology			
BUA	Business Administration			
CET	Civil Engineering Technology			
СНМ	Chemistry			
CHW	Community Health Worker			
CIM	Computer Information Management			
CIS	Computer Information Systems			
CNC	Computer Numerical Control			
csc	Computer Science			
CTE	Career and Technical Education			
СТМ	Construction Trades Management			
CUL	Culinary Arts			
DET	Detention Officer Training			
DFT	Drafting			
DNC	Dance			
EAP	English for Academic Purposes			
ECE	Early Childhood Education			
ECN	Economics			
ECT	Electrical Construction Trades			

EDM	Emergency and Disaster Management			
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			
GME	Video Game Design			
GPH	Physical Geography			
GRA	Computer Graphics			
GST	Geospatial Technology			
НСА	Health Care Aide			
HIS	History			
HLS	Homeland Security			
HON	Honors			
HRM	Hotel/Restaurant Management			
JRN	Journalism			
LAS	Paralegal Studies			
LET	Law Enforcement Training			
LGS	Logistics			
LMT	Licensed Massage Therapy			
MAS	Masonry			
MAT	Mathematics			
МСВ	Medical Coding & Billing			
MDA	Medical Assistant			
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			
PIT	Professional IT Support			
PLB	Phlebotomy			
PHY	Physics			
PLS	Plant Science			
POS	Political Science			
PSY	Psychology			
PSD	Public Safety Dispatch			
QBA	Quantitative Business Analysis			
RAD	Radiologic Technology			
RCT	Computed Tomography (CT)			
RDG	Reading			
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			
TEC	Technology			
THE	Theatre			
TVP	Television Production			
UAS	Unmanned Aerial Systems			
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 Information".

### 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: SUNG

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 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% in-person, remaining class time is online
- Zoom/In-person A portion of the class is offered via Zoom and or In-person, remaining class time may be online)
- Zoom A portion of the class is offered via Zoom, remaining class time may be online
- Online 100% online, requires internet access

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. 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: CHM 151 General Chemistry I 4 cr, 3 lec, 3 lab

cr.....credits (semester hours/units)

lec .....lecture/week

lab.....laboratory experience/week

clin ......clinical experience/week

rec....recitation/week

CR/NC ..... course 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.

### 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 InquiryC ...... 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.

### Student Contact Hours

A credit hour is the unit measuring educational credit based on the number of instructional clock hours per semester (regardless of delivery mode). A standard semester for Arizona Western College is sixteen weeks. In certain circumstances, it is possible to have more hours required for a credit hour, but not less.

The chart below provides several examples of how one credit hour, instructional method, and instructional time are calculated per semester.

lec, lab, rec, clin	credit	required minutes	clock hours
1 lec	1	800	
1 lab	.5	800	
1 rec	.5	800	
1 clin (AHE)	.333		13hrs 20min
1 clin (NUR)	.333		13hrs 20min
1 clin (RAD 100)	1		60 hours
1 clin (RAD 120)	1		288 hours
1 clin (RAD 121)	1		384 hours
1 clin (RAD 122)	1		240 hours
1 clin (RAD 220)	1		480 hours
1 clin (RAD 221)	1		480 hours
1 clin (RCT 231)	1		288 hours
1 clin (RCT 234)	1		288 hours
1 clin (RCT 237)	1		144 hours
EMS, LET, LMT	1		37.5 hours

A standard three credit course (3cr) with an instructional method of lecture (3 lec) requires 2400 minutes of instructional time (regardless of delivery mode) per semester

# 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

.5-6 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** 

#### 179 Portfolio Development

4 cr, 1 lec, 6 lab

Portfolio development of non-traditional experiences.

**PRE:** Appropriate administrator and instructor approval

**NOTE:** maybe equivalent to one or more courses with instructor approval

#### 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

.5-6cr

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

.5-6 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 appropriate administrator 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 appropriate administrator and the instructor who will supervise the study and/or project. **R** 

# ACC 100 Introduction to Accounting

3 cr, 3 lec

An introductory accounting course exposing students to fundamental accounting concepts, principals, assumptions, and constraints through the accounting cycle.

# ACC 115 Computerized Accounting

3 cr, 3 lec

Course applies accounting principles using a commercial accounting software program. Professional accounting computer software will be utilized to simulate the setup of accounting books, enter daily transactions and

prepare financial statements for small businesses.

**PRE:** ACC 100 or higher level accounting course

#### **ACC 120** Income Tax Procedures

3 cr, 3 lec

A course introducing the student to common federal income tax returns for individuals in a variety of situations.

**PRE:** ACC 100 or higher level accounting course

# ACC 125 Introduction to Payroll

3 cr, 3 lec

Course completing payroll including journals, registers, and reporting ensuring compliance with federal and state regulations.

**PRE:** ACC 100 or higher level accounting course

# ACC 211 SUMB ACC 2201 Financial Accounting

3 cr, 3 lec

College-level course that covers the basic concepts, principles, and procedures for recording business transactions and the development of external accounting reports. Meets the needs of the students pursuing accountancy as a major and who will have to be prepared for the rigorous accounting courses that follow; will meet the basic needs of the students with other business disciplines as their major.

PRE: ACC 100

### ACC 212 SUMB ACC 2202 Managerial Accounting

3 cr. 3 lec

An accounting course introducing topics designed to assist managers in making business decisions through internal reporting. The student will apply internal reporting to assist managers with planning operations, controlling activities, and making decisions.

**PRE:** ACC 211

# ACC 220 Introduction to Cost Accounting

3 cr, 3 lec

A course designed to allow the student to review concepts introduced in managerial accounting. Students will focus on different types of cost accounting, cost behaviors, cost analysis for management decision making.

**PRE:** ACC 212

# ACC 230 Principles of Fraud Examination

3 cr, 3 lec

Overview of the field of fraud examination including defining and identifying the types of frauds committed against companies and individuals. Upon successful completion, the student will learn methods to prevent, detect, and investigate fraud.

**PRE:** ACC 211

# ACC 240 Government Accounting

3 cr, 3 lec

A course introducing the student to accounting practices and procedures in fund accounting including government and not-for-profit entities. In the course, the student will record economic activity, learn to report, and prepare budgets for government and not-for-profits.

**PRE:** ACC 212

# ACC 250 Financial Statement Analyses

(same as FIN 250)

3 cr, 3 lec

Financial statement analysis emphasizes effective business analysis and decision making by analysts, investors, managers, and other stakeholders of the company. The course presents a balanced view of analysis, including both equity and credit analysis, and both cash-based and earnings-based valuation models.

PRE: ACC 211

# 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 electrical 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, equip-

ment 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

# 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

# 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.

# AGS 101 Agriculture- Solving the Problems of the World

3 cr, 3 lec C, G

An introduction to the ethical, social, and economic issues involving commercial agriculture through understanding the significance of plant and animal science in everyday life and the careers required to ensure food security.

# 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, introduction of regulations from governing entities such as LGMA and FSMA, writing standard operating procedures, employee training, and technologies to assist in production of safe food.

#### 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.

# 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.

### 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.

**PRE:** ENG 100

# AHE 104 Home Massage for Families

1 cr, .5 lec, 1 lab

Learn basic massage techniques, to be used at home, appropriate for the entire family. Includes how to set up a safe, nurturing environment for relaxation. Techniques for promot-

ing communication within the family unit, enhancing family wellness, and supporting healthy values in the family unit.

# AHE 108 Introduction to Alternative Medicine

2 cr, 2 lec

Definition of health; exploration of mind-body connection, placebo response, holographic construct of body, and factors involved in the healing process; comparison between Newtonian and Einsteinian models of body.

#### AHE 111 Spa Techniques

2 cr, 1 lec, 2 lab

An exploration of popular services for whole body wellness, including their benefits, applications and contraindications.

**PRE:** Massage Therapy certification or instructor permission required

# AHE 113 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

#### AHE 127 Reiki-Level 1

2 cr, 1 lec, 2 lab

Introduces the history of Reiki as a healing art. Presents an understanding of energy therapies and the experience the Reiki attunement process.

### AHE 130 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

### AHE 131 Exploring Energy Healing Techniques

2 cr, 1 lec, .5 lab

Provides an overview of the many different types of healing modalities used to maintain health and prevent illness encompassed within the concept of Energy Therapy. Reviews a variety of therapies and explores energy therapy from a consumer's point of view. Specific modalities discussed and demonstrated.

# AHE 133 Comparing Cultural Healing Traditions

2 cr, 1 lec, .5 lab

Comparative approaches to healing, including allopathy, homeopathy, chiropractic, osteopathy, Chinese medicine, Ayurveda, Shamanism, and therapeutic touch. Contrast explanations for causation of disease, diagnostic procedures and healing methodology.

# AHE 135 Overview of Movement Therapies

2 cr, 1 lec, .5 lab

Survey of health, exploration of mindbody-spirit connection in health, various therapeutic modalities, identification of strengths and limitation of movement based therapies.

# AHE 144 Active Isolated Stretching

2 cr, 2 lec, .5 lab

The Mattes Method centers on physiological principles of specific muscle lengthening, increased circulation and oxygen to the tissues, lengthening of the superficial and deep fascia.

# AHE 150 Burnout to Breakthrough

1 cr, 1 lec

This course focuses on applying strategies to manage and prevent burnout. Students will explore and discuss burnout concepts in order to identify what areas are contributing, or can contribute, to burnout. Additionally, we will explore areas of wellness in order to improve self-care as well as design a strategy to reach new goals. This course seeks to help you answer the question: How do I reignite my drive and choose a path of passion and inspiration again?

**PRE:** Must be a Nurse, Healthcare Provider, or student of a related program.

# AHE 160 Phlebotomy for Medical Assistants

3 cr, 1.5 lec, 1 lab, 3 clin

Students will gain skill development in the performance of a variety of blood collection methods using proper venipuncture techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults

**PRE:** MDA 121 **COREQ:** MDA 240

#### AHE 264 Healing Touch Level 1

2 cr, 1 lec, .5 lab, 1.5 clin

Healing Touch Level 1 Healing Touch is an energy based therapeutic approach to healing. This therapy uses touch to influence the energy system, thus affecting physical, emotional, mental and spiritual health and healing. The goal of Healing Touch is to restore harmony and balance in the energy system.

### 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 SUNE 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.

Note: ENG 90 recommended

### 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.

**NOTE:** AJS 101 and ENG 90 recommended

### 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: ENG 101 or 107

# AJS 160 Leadership for Public Safety

3 cr, 3 lec

This course provides a unique opportunity for professionals to develop and refine their leadership skills. The instructors are current or former law enforcement supervisors and managers who bring a unique understanding of the law enforcement culture and practical knowledge of how to meet the challenges law enforcement leaders will face in their operational settings. This course focuses heavily on human capital development disciplines and their interaction with the law enforcement mission and culture.

PRE: Instructor permission required

**NOTE:** for current or former law enforcement professionals only

# 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.

Note: ENG 90 recommended

# 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.

Note: ENG 90 recommended

### 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.

Note: ENG 90 recommended.

# 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 or 107

#### 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 or 107

# AJS 205 Report Writing (same as HLS 205)

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.

Note: ENG 90 recommended

#### **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.

**NOTE:** AJS 101 and ENG 90 recommended

### AJS 212 Juvenile Justice Procedures

3 cr, 3 lec

Examines the history and development of juvenile justice theories, procedures, and institutions.

NOTE: ENG 90 recommended

# 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.).

NOTE: ENG 90 recommended

### AJS 225 Criminology

3 cr, 3 lec **C** 

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.

NOTE: ENG 90 recommended

#### **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.

**NOTE:** AJS 101 and ENG 90 recommended

### **AJS 240 Correction Function**

3 cr, 3 lec

Examines the history and development of correctional theories and institutions.

**NOTE:** AJS 101 and ENG 90 recommended

### AJS 241 Institutional Corrections

3 cr, 3 lec

Examines correctional institutions with an emphasis on personnel and security matters, care and treatment programs, institutional planning, the criminal justice system, and matters of custody and treatment.

### 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.

NOTE: ENG 90 recommended

### AJS 245 Correctional Management and Supervision

3 cr, 3 lec

This course develops correctional supervisors and managers in their field. The class includes personnel practices, employee discipline and motivation, management theory, budget, and problem solving.

### 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.

**NOTE:** AJS 101 and ENG 90 recommended

#### 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

NOTE: ENG 90 recommended

### AJS 275 Criminal Investigation

3 cr, 3 lec

Theory of criminal investigation, crime scene procedures, case preparation, interviewing, and basic investigative techniques are studied.

NOTE: ENG 90 recommended

# AJS 276 Criminalistics: Biological Evidence

3 cr, 3 lec

The scientific analysis and examination of biological evidence with emphasis on collection and preservation of evidence. Topics discussed include blood, drugs, alcohol, hair, fibers and topics of special interest in criminalistics.

NOTE: ENG 90 recommended

### 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

This course develops entry-level skills in the production and management of livestock and companion animals. It includes skill development in facility design and management of breeding systems in cattle, horse, sheep, goat, swine and companion animals. Learners will learn how to handle livestock appropriately. There will be an online component covering Institutional Animal Use Care and Use Committee (IACUC) training and certification.

#### ANS 240 Feeds and Feeding

4 cr, 3 lec, 3 lab

Selection, evaluation, classification, and use of feeds for specific purposes in animal nutrition to include the element of nutrition, commonly used feeds, nutritive requirements, feed processing, and practical methods of feeding different classes of livestock and evaluation of livestock carcasses to determine nutritional needs.

**PRE:** ENG 101 or 107

# 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.

# 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.

# 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.

### ANT 140 Introduction to Native American Studies

3 cr, 3 lec C

Covers the origins and development of the Indian populations from prehistoric to modern times in North America and Mexico. Origins of the major tribes of the greater Southwest are emphasized.

### ARB 95 Beginning Conversational Arabic I

3 cr, 3 lec

A conversational course that will introduce students to the Arabic language. Students will learn vocabulary, basic grammatical structures, useful phrases and sentences related to daily life.

### ARB 96 Beginning Conversational Arabic II

3 cr. 3 lec

A conversational course for students with prior familiarity of Arabic language and culture of the Arabic-speaking countries.

**PRE:** ARB 95 or equivalent proficiency as determined by instructor

## ARH 141 SUNE 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.

### ARH 142 SUNG 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.

#### **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 SUNG 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 SUME 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 SUNE 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 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 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

### 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. Fingerspelling skills are strengthened. Students develop a receptive and expressive fluency that allows them to understand, appreciate, and begin to develop their own ASL storytelling skills. Students participate in detailed discussions and exploration of Deaf culture. 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 continue to develop their own ASL storytelling skills. Students enter into a more technical understanding of the culture of the Deaf and American Sign Language linguistics. Fulfills the third semester foreign language requirement at most fouryear institutions.

**PRE:** ASL 102

### ASL 202 Intermediate American Sign Language 2

4 cr, 6 lec C

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

#### **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.

#### **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.

## 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 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.

PRE or 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.

PRE or 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 or COREQ: AUT 200

# **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 or 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

#### **AUT 261 Special Projects**

3 cr, 1 lec, 4 lab

Structured environment allowing the student the opportunity to define learned skill sets from previous automotive courses. Tailored around the interests and needs of the individual with guidance from professional staff.

**PRE:** Instructor permission required

#### AWC 101 Study Skills

2 cr, 2 lec

This course is designed to assist students in developing and enhancing common study skills and qualities needed for college success, including: time management, note-taking, test-taking strategies, critical thinking, reading, memory techniques, learning styles, utilizing college resources, discipline, motivation. Students will reflect on their own behaviors, expectations, and attitudes to build effective academic strategies. The course will target students having academic difficulties, including those on probation.

#### **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 Readiness in the Digital Age

2 cr, 2 lec

Thorough review of the job search process including traditional and non-traditional approaches to prepare students to navigate today's ultra-competitive employment market. Course will examine the role of networking, as well as preparation of

cover letters, resumes, job applications, development of interviewing skills, building employment references, and the impact of technology in finding employment to include social media. Coursework will also focus on workplace survival skills, including employer expectations, work attitudes and ethics, customer service, working well with others, appropriate attire.

# 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 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 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 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:** TVP 125

#### **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.

**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.

## 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.

## BIO 156 Human Biology for Allied Health

4 cr, 3 lec, 3 lab

An introductory course for students pursuing the health care professions. Includes the scientific method, chemistry of life, cell structure and function, cellular reproduction, cellular metabolism, patterns of inheritance, and human tissues.

## BIO 160 Introduction to Human Anatomy and Physiology

4 cr, 3 lec, 3 lab **G** 

Biology 160 is a study of the structure and function of the human body. The course is designed for students who desire a one semester course in anatomy and physiology.

## BIO 181 SUNE BIO 1181 General Biology (Majors) I

4 cr, 3 lec, 3 lab, G

Principles of structure and function of living things at the molecular, cellular, and organismic levels of organization. Includes molecular and cellular biology, genetics, and viruses.

**PRE:** 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 182 SUMS BIO 1182 General Biology (Majors) II

4 cr, 3 lec, 3 lab, G

Additional principles of structure and function of living things at the molecular, cellular, organismic, and higher levels of organization. Includes evolution, organismal biology of bacteria, archaea, fungi, plants and animals, population biology, and ecology.

**PRE:** BIO 181 and ENG 101 or 107

**NOTE:** Credit cannot be received in both BIO 100 and the BIO 181–182 sequence

#### **BIO 199** Biology Field Trip

1-3 cr

Three to five-day field trip. **R** 

PRE: Instructor permission required

## BIO 201 SUNG BIO 2201 Human Anatomy and Physiology I

4 cr, 3 lec, 3 lab, G

Study of structure and function of the human body. Topics include cells, tissues, integumentary system, skeletal system, muscular system, and nervous system.

**PRE:** BIO 156 or BIO 181 or pass an AWC pre-test. CHM 130 is highly recommended.

### BIO 202 SUMB BIO 2202

### Human Anatomy and Physiology II

4 cr, 3 lec, 3 lab, G

Continuation of structure and function of human body. Topics include endocrine, circulatory, respiratory, digestive, urinary, and reproductive systems.

**PRE:** BIO 201

### BIO 205 SUME BIO 2205 Microbiology

4 cr, 3 lec, 4 lab, **G** 

Study of microorganisms including their morphology, metabolism, genetics, classification, and effects on human life and the environment. Laboratory sessions cover basic procedures in microbiology culminating in the identification of unknown bacterial samples.

**PRE:** BIO 181 or BIO 156 or pass an AWC biology challenge exam, complete ENG 101 or 107. CHM 130 or CHM 151 highly recommended.

### BIO 218 Human Pathophysiology

4 cr, 3 lec, 3 lab

Survey of disease processes that affect the body systems focusing on

altered physiological mechanisms of cells and organ systems.

**PRE:** BIO 201, 202, and BIO 205

### **BIO 254** Entomology

4 cr, 3 lec, 3 lab, **G** 

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 the viewing of insect specimens and field trips to collect and study insects in their natural habitats. An insect collection is required.

PRE: 100 level biology course

#### **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.

### BUA 210 Customer Service Management

3 cr, 3 lec

Examines the role and responsibilities of employees in building quality client relationships that create customer satisfaction as well as exploring the functions of customer service employees in all fields in businesses.

## **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 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.

## 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 123 Plane Surveying**

5 cr, 3 lec, 4 lab

Fundamentals of plane surveying.

## CET 250 Public Land Surveying Systems

3 cr, 2 lec, 2 lab

Introduction to the United States Public Land Surveying System (USPLSS).

## CHM 130 SUM CHM 1130 Fundamental Chemistry

4 cr, 3 lec, 3 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 approved higher level math

**NOTE:** Not recommended for chemistry majors. Credit cannot be received in both CHM 130 and CHM 151

### CHM 151 SUNE 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: MAT 150 or MAT 151 or higher

CHM 130 is highly recommended for students who have limited previous experience in chemistry.

**NOTE:** The AGEC-S transfer certificate and certain Associate of Science (A.S.) degrees require CHM 151 and CHM 152

## CHM 152 SUMSS 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:** CHM 151 and MAT 150 or MAT 151 or 187

## CHM 235 SUMB 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 SUMS 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 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.

**PRE:** Admission into the CHW pro-

gram

COREQ: CHW 110

### CHW 110 Community Health Worker Fundamentals 1

4 cr, 4 lec

Introduction to the history role community health workforce have played in health care around the globe, in the nation, state and locally. The purpose and benefits of community health workers in meeting health and social needs of community served. The role and responsibility in community health, historical perspectives, and required skills. Roles and skills of a community health worker that include: bridging access to healthcare and social service systems, community health concepts and a comprehensive understanding of the importance of advocating for patient and community health needs.

**PRE:** Admission into the CHW program

COREQ: CHW 106

# CHW 120 Preparation for Field Experience

3 cr, 2 lec, 2 lab

Introduction to hands on approach, and the skills necessary for participating in the field service work of the community health worker. Understanding of the community health worker core competencies that define the profession. Activities of community health workers (CHWs) tailored to meet the unique needs of the communities they serve. Work settings of a community health worker and how roles interchange depending on whether they work in the healthcare or social services sectors. Research and compile information relevant to needs of community.

**PRE:** Admission into the CHW program

## CHW 210 Community Health Worker Fundamentals 2

3 cr, 3 lec

This course will provide students with an overview of CHW 110 history, roles, skills and core competencies of the CHW profession. It will introduce students to the role of CHWs in health-care coordination, community counseling, effective documentation, and how CHWs can impact health systems, and public health policies. This course will allow students to deepen their knowledge in the use of data and evidence-based practices in efforts to support clients and or patients in their social, housing, behavioral, and or their personal healthcare needs.

**PRE:** CHW 110

### CHW 220 Field Experience

3 cr, 2 lec, 2 lab

Field Experience 220 will introduce students to a combination of community health and public health practice. This unique class will allow students to increase their knowledge and acquire skills that will allow them to work closely with community members, healthcare systems and public health

professionals. By understanding how community health and public health roles interact, students will be able to develop a set of workforce skills.

**PRE:** CHW 120 **COREQ:** CHW 230

#### CHW 230 Health Services

4 cr. 4 lec

Health Services 230 will introduce students to specific topics of interest to assist in developing materials for presentation of healthcare and wellness information. Students will practice learned skills from previous AWC CHW classes such as public speaking, communication, biometrics readings, documentation, advocacy, health equity, research and evaluation skills. Students demonstrate acquired skills by actively presenting and fostering mentorships with current community organizations and healthcare professionals within the community.

**PRE:** CHW 106 **COREQ:** CHW 220

## CHW 256 Introduction to Health Care Careers

6 cr, 6 lec

An exploration of careers in the healthcare field. Students gain insight into specific healthcare careers by having direct contact with industry experts in nursing, radiology technology, emergency medical care, massage therapy, and physical therapy.

**NOTE:** Instructor permission required

## 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 production 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

#### 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 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 windows, 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 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 SUMS 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.

# 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.

#### 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:** MAT 81 or approved higher level math and 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 105 or 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.

# 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 105 or CIS 120

# CIS 171 Computer Forensics and Investigations

3 cr, 2 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 105 or CIS 120

#### CIS 175 Computer Security

3 cr, 3 lec, 1 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 105 or 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 231 Database Design and Programming

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 on design, manipulation, and maintenance of databases including Microsoft Access and Structured Query Language programming platforms.

PRE: CIS 105 or CIS 120

# CIS 220 Computer Programming—C#

4 cr, 3 lec, 2 lab

Fundamental techniques using the C# (C Sharp) language.

**PRE:** CIS 180

# CIS 260 Introduction to Operating Systems

3 cr, 2 lec, 2 lab

The internal logic of various parts of common operating systems, access to Windows and DOS.

**PRE:** CIS 105 or CIS 120

# CIS 270 Networking Fundamentals

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 120 or CIS 105 or CIS 170

## CIS 271 Networking Administration

3 cr. 2 lec. 2 lab

This course is designed to give the student the ability to have an indepth understanding of client server networks and network administration using a client server network environment. Students will be exposed to a network operating system and network administration from a network administrator perspective. 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 management and administration concepts will be covered comprehensively.

**PRE:** CIS 260

NOTE: CIS 270 recommended

# CIS 272 Network Routing and Switching

3 cr, 2 lec, 2 lab

This course is designed to give the student the ability to have a basic knowledge in the configuration of networks. Students will be exposed to network operating systems in the capacity of a Network Administrator. The modality of LAN, Local Area Network, and WAN, Wide Area Network, configurations will be used to facilitate security, communication, connectivity, and printing environments.

**PRE:** CIS 270

### CIS 275 Fundamentals of Network Security

3 cr, 2 lec, 2 lab

Overview of security measures for computer networks.

PRE: CIS 175

**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

# CNC 101 CNC Machine Operator

2 cr, 1 lec 3 lab

Basic principles and operative skills in CNC milling machines and lathes.

# CNC 201 Computer Numerical Controlled Machine Setup

3 cr, 2 lec 2 lab

Dimensional design and drawings of parts for production with a CNC mill or CNC lathe. To include programming of steps for basic part production with related CNC equipment.

**PRE:** CNC 101 and DFT 180

## CSC 127A Introduction to Computer Science 1

4 cr, 3 lec, 2 lab

Introduction to computer science, focusing on core CSC concepts including program development, computer science and software engineering, using the Java programming language.

**PRE:** MAT 150 or MAT 151 or approved higher level math

**NOTE:** No prior programming experience needed

# CSC 127B Introduction to Computer Science 2

4 cr, 3 lec, 2 lab

This course is a continuation of CSC 127A or EGR 123, focusing on advanced CSC and software engineering concepts using Java and other programming languages.

**PRE:** CSC 127A or EGR 123

### CSC 210 Human Computer Interaction

4 cr, 3 lec, 2 lab

The course focuses on computer human interaction theory and designing graphical user interfaces that ensure effective human computer interaction with computers, websites and other technologies.

PRE: CSC 127A or EGR 123

# CSC 215 Introduction to Artificial Intelligence

4 cr, 3 lec, 2 lab

This course is an introduction to artificial intelligence (AI), focusing on machine learning, agents, problem solving, first order logic, classical planning, knowledge representation, natural language processing, perception, robotics, sensors, augmented reality, virtual reality and mixed reality.

**PRE:** CSC 127A or EGR 123

### **CSC 252** Computer Organization

3 cr, 3 lec

This course is an introduction to computer organization, focusing on machine organization, hardware concepts, machine operations, computer architecture and assembly language concepts and programming.

**PRE:** CSC 127A or EGR 123

#### CSC 253 Digital Logic

3 cr, 3 lec 1 lab

The course introduces digital logic in the computer science and engineering disciplines. Digital logic concepts include digital systems, Boolean algebra, number systems, combinational and sequential logic, sequential and hardware description language (VHDL), clocking methodologies, discrete logic, programmable logical devices (PLDs), Karnaugh maps, digital circuits, gates, decoders and converters, flip flops and counters.

**PRE:** CSC 127A or EGR 123

## CSC 261 Introduction to Linux/ UNIX Operating Systems

3 cr, 2 lec, 2 lab

Introduction of the Linux/UNIX family of operating systems.

**PRE:** CIS 127A or EGR 123

## CTE 070 Topics in Career and Technical Education

.5-4 cr, 0-4 lec, 0-8

Workshops for individual exploration in career and technical disciplines. Designed for the enrichment needs of the student who is not seeking transferable credit.

# CTM 105 Blueprint Reading for Construction

3 cr, 3 lec

Introduction to reading, interpretation, and visualization of blueprints in construction.

# 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, 2 lec, 2 lab

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 141 Basic Food Selection, Preparation and Garde Manger

4cr, 8 lab

Basic principles of food selection, preparation and garde manger.

## CUL 143 ServSafe and Sanitation

1.5 cr, 1.5 lec

A course designed to provide knowledge and techniques to prevent foodborne illnesses resulting from contamination and inappropriate handling procedures through the use of the ServSafe Food Protection program and course book. 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 141 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 143

# 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 141 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 141 and CUL 143

# CUL 251 Catering-Planning, Production and Dining Room

4 cr, 2 lec, 4 lab

Gain knowledge and experience of the catering process in a commercial food setting with emphasis on practical experience in booking, record keeping, planning, production and service in all types of catered events. Demonstrate a working knowledge of all aspects of dining room procedures and service.

PRE: CUL 141 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.

# CUL 259 Culinary Arts Field Experience

4 cr, 8 lab

Knowledge and skills will be used in a commercial food service operation within the community. Students will work and train with professional chefs and experienced food service workers in order to completely understand the workings of a commercial kitchen and/or a professional catering business.

**PRE**: CUL 141 and CUL 143 or Serve-Safe Certification or Health Card

### **CUL 260** Healthy Cooking

3 cr, 1.5 lec, 3 lab

Students will develop the skills to choose, cook and eat healthy foods. Emphasis on physical disorders and the role diet plays in preventing and controlling various disorders such as obesity, diabetes, hypothyroidism, cardiovascular disease, hypertension, autoimmune disorders etc. Current food controversies will be discussed with students drawing their own conclusions based on practical application of nutrition and biology sciences. The course will be based on the nutritional guidelines of many Physicians/Specialists now incorporating Functional Medicine in their practices.

# **DET 160** Detention Officer Training Academy 1

10 cr, 7 lec, 6 lab

Introduction to correctional operations as well as an overview of ethics and professionalism, communication, custody and control, conflict and crisis management, and medical and mental health issues.

**PRE:** Student must be appointed to the Detention Officer Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

# **DET 260** Detention Officer Training Academy 2

6 cr, 1 lec, 11 lab

Academy 2 provides correctional operations training in ethics and professionalism, problem solving, officer integrity, hostage survival, riot control measures, defensive tactics, CPR/AED for first responders, and field experience

**PRE:** DET 160

# **DET 262** Advanced Detention Officer Training

8 cr, 5 lec, 7 lab

An advanced course of study in correctional operations, to include ethics and professionalism, correctional law, courtroom and correctional facility security, crime scene management, conflict and crisis management, leadership and management, prisoner classification, special populations, restraint procedures and devices, and medical and mental health issues.

**PRE:** Student must be appointed to the Detention Officer Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency.

### 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.

COREQ: 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 180 CAD (Computer-Aided Drafting) with SolidWorks

3 cr, 2 lec, 2 lab

Fundamentals of graphical communications, including sketching, computer-aided drafting, design, and parametric modeling.

**PRE:** DFT 100

# **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 advanced drafting techniques using CAD software, focusing on the creation and manipulation of three-dimensional models and objects.

**PRE:** DFT 100 and DFT 102

### DFT 204 AutoCAD 4 - Drafting 4

4 cr, 3 lec, 2 lab

Integrates the skills gained in DFT 100, 102 and 203 with more advanced knowledge of standard drafting techniques and practices in preparation for 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

#### DNC 70 Ballroom Dance

1 cr, 1 lec, 1 lab

Ballroom dance for personal, social and fitness benefits. **CR/NC** 

## DNC 71 Native Hawaiian Dance

1 cr, 1 lec, 2 lab

Native Hawaiian dance, Hula, for cultural, personal, social, and fitness benefits. **CR/NC** 

## DNC 72 Native Hawaiian Dance 1B

1 cr, 1 lec, 2 lab

Exposure to the two types of Native Hawaiian Dance, Hula: kahiko - ancient and `auana - modern. **CR/NC** 

PRE: DNC 71

## DNC 73 Native Hawaiian Dance 2A

1 cr, 1 lec, 2 lab

Intermediate level Native Hawaiian dance, Hula, for cultural, personal, social, and fitness benefits. **CR/NC** 

PRE: DNC 72

## DNC 74 Native Hawaiian Dance 2B

1 cr, 1 lec, 2 lab

Intermediate level Native Hawaiian dance, Hula, to include oli, chanting. **CR/NC** 

PRE: DNC 73

#### DNC 131 Dance: Jazz 1

2 cr, 1 lec, 2 lab

Introduction to jazz dance technical terms and steps, as well as history of jazz dance.

NOTE: Appropriate attire required

#### DNC 132 Dance: Jazz 2

2 cr, 1 lec, 2 lab

Intermediate level of jazz dance and application of historical jazz dance techniques.

NOTE: Appropriate attire required

### 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

# EAP 090 Overview of English Communication

6 cr. 6 lec

This course serves as an alternate introduction to the academic skills necessary to be successful in college-level composition courses for those who speak other languages besides English.

PRE: ESL 93R or ESL 93G

**NOTE:** Non-native English speakers only and instructor permission required

## EAP 95V Academic Vocabulary EAP

3 cr, 3 lec

This course is designed to expand the academic vocabulary of users of English as a second language at the high-intermediate and advanced levels. Emphasis will be placed on the meaning and use of lexical terms in context from a variety of academic fields.

**PRE:** Eligibility for ESL Level 4, EAP, ENG 090 or higher

# EAP 096 Academic English for Speakers of Other Languages

3 cr. 3 lec

This course prepares students who speak languages other than English to be successful in English 100 and college-level English courses. It is taken in conjunction with a designated English 100 section.

PRE: ESL 93R or ESL 93G

COREQ: ENG 100

**NOTE:** Non-native English speakers only and instructor permission required

**NOTE:** ECE students are required to spend at least two (2) hours per one (1) credit at the AWC CDLL for each course beginning with ECE 101 through ECE 145

### 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:** 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:** 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 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).

# 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)

## 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).

# 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).

#### 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).

# 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).

# 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).

#### **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:** 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)

# 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).

# 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 Learning Laboratory (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)

# 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)

#### **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)

## 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)

#### 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)

### 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)

#### 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)

## 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).

#### 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)

#### 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)

### 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).

# 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).

### 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).

# 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).

### 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).

### 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).

### 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).

## 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).

### 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).

#### ECE 143 Professional Portfolio

3 cr, .5 lec, 5 lab

Prepares the student on how to compile a professional portfolio in preparation for Child Development Associate (CDA) Assessment.

**PRE:** ECE Director permission and ESL 93R or appropriate ESL placement exam

**COREQ:** minimum of 300 practice hours with the appropriate aged children and work in an appropriate childcare setting

# ECE 145 CDA Student Teaching—Vocational

2 cr, 1 lec, 2 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

**COREQ:** Have a work-site with the age group and setting appropriate to assessment

**NOTE:** 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

**COREQ:** Work in a school-aged work-

**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 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 205 Home, School, and Community Relations

3 cr, 3 lec

Development of skills that promote a positive relationship between families and teachers, or professional child-care 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 (finger-printing 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 or 107

# 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 child-hood 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 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 assessment. 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.

# ECN 240 SUMB ECN 2201 Principles of Macroeconomics

3 cr, 3 lec **G** 

Analysis of general levels of output, employment, income, and prices. Includes money and banking, national income accounting, economic growth, fiscal and monetary policy.

# ECN 250 SUMB 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.

#### **ECT 105** Basic Electricity

3 cr, 2 lec, 2 lab

Introduction to basic electrical principles, circuits, and measurements.

#### 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 113 Electrical Light Commercial

3 cr, 2 lec, 3 lab

The application and selection of various type of motors and associated

components, application and selection of various lighting with controls and advanced bending methods of conduit within the National Electrical Code requirements.

**PRE:** ECT 100

#### 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 105

# ECT 213 Commercial Electrical Applications Level 1

3 cr, 2 lec, 3 lab

Introduction of overcurrent protection and their applications, transformers and capacitors and associated components with regards to trouble-shooting, maintenance and testing and identification of hazardous locations and applications of equipment in hazardous areas.

## ECT 214 Commercial Electrical Applications Level 2

3 cr, 2 lec, 3 lab

The selection, installation, operation and maintenance of generators, to include how to isolate and repair minor generator problems. Recognize the uses, operation of control devices. Introduction to structure cabling methods and types of cabling used.

#### ECT 220 Electrical Installation

5 cr, 4 lec, 2 lab

Electrical installations for commercial and residential applications.

**PRE:** ECT 110 and ECT 115

### ECT 222 Advanced Electrical Systems Level 1

4 cr, 3 lec, 2 lab

The selection, installation, operation and maintenance of generators, to include how to isolate and repair minor generator problems. Understanding of a battery or Uninterrupted Power Supply (UPS) and associated components.

# ECT 223 Advanced Electrical Systems Level 2

3 cr, 2 lec, 2 lab

The operation and troubleshooting of Heating, Ventilation and Air Conditioning equipment. Introduction to maintenance, testing and cleaning of motors.

# ECT 224 Advanced Electrical Systems Level 3

3 cr, 2 lec, 3 lab

The selection, installation and termination of medium voltage cabling. Requirements of testing medium voltage cable.

#### **ECT 225** Load Calculations

3 cr, 2 lec, 2 lab

Advanced electrical load calculation.

**PRE:** ECT 110 and ECT 115

## ECT 230 Programmable Logic Controllers

2 cr, 1 lec, 2 lab

Introduction to programmable logic controllers (PLC) architecture and programming. Topics include: memory,

instruction sets, addressing modes, serial/parallel interfacing, relay/ladder logic, and troubleshooting

**PRE:** ECT 210

# ECT 240 Power Generation, Maintenance and Repair

4 cr, 3 lec, 2 lab

The selection, installation, operation and maintenance of generators, to include how to isolate and repair minor generator problems.

# EDM 101 Introduction to Emergency Management

3 cr, 3 lec

Fundamentals of emergency and disaster management, history of emergency management, the four phases of emergency management, volunteers, roles, hazards and strategies for emergency management.

#### **EDM 110** Emergency Planning

3 cr, 3 lec

Emergency planning process as an "All-Hazard" approach.

# EDM 140 Disaster Response and Recovery

3 cr, 3 lec

Challenges confronting emergency managers (and others) after disasters, including warning, evacuation, and other disaster functions as well as advanced preparedness measures.

# EDM 210 Hazard Mitigation in Emergency Management

3 cr, 3 lec

An examination of mitigation and the mitigation planning process.

### EDM 240 National Incident Management System (NIMS)

4 cr, 3 lec, 1 lab

An examination of the National Incident Management System (NIMS), its origin, components, implementation and importance to emergency

management and public safety organizations.

### EDM 270 Emergency Support Functions in Emergency Management

3 cr, 3 lec

Legal guide for state, local governments and individuals involved in Homeland Security and emergency management.

### EDM 290 Emergency and Disaster Management Capstone Project

3 cr, 3 lec

This course functions as a capstone for all the emphasis areas in the AAS in Emergency and Disaster Management. It is designed to bring all concepts of Emergency and Disaster Management together to mitigate large scale incidents and events through oral boards, tabletop and written projects.

**PRE:** EDM 101, EDM 110, EDM 210, EDM 140, EDM 240, and EDM 270

## 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 103** Advanced Tutor Training Seminar

1 cr, .5 lec, 1 lab

Advanced training and experience to become an effective tutor for individualized and small group sessions.

**PRE:** EDU 102 and instructor permission required

# EDU 110 Introduction to Education

3 cr, 3 lec

The understanding of teaching as a profession through learning experiences: observational and participatory.

**NOTE:** In addition to regular class attendance, twenty (20) hours of classroom observation is required

#### EDU 200 Lesson Planning

2 cr, 1 lec, 2 lab

Prepares students how to design comprehensive lesson plans to reach diverse learners.

**PRE:** EDU 207 or instructor permission

## EDU 201 English Grammar for Teachers

(same as SLT 201)

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.

#### 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 cur-

rent 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 class-room 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

## EDU 293 Structured English Immersion (SEI) for English Language Learners

(same as SEI 293)

3 cr, 3 lec

Instructional techniques, strategies, and theories regarding the English Language Learner (ELL) in the educational system.

# EGR 123 Introduction to Structured Programming

3 cr, 3 lec

Fundamentals of effective and efficient programming from a scientific point of view. Emphasis on problemsolving 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 or MAT 150

COREQ: CHM 151 and MAT 151

### EGR 188 SUME 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:** 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: PHY 112

**NOTE:** PHY 112 preferred prerequisite; PHY 112 may be taken along with EGR 202

# EGR 207 Elements of Electrical Engineering

3 cr, 3 lec

Current and voltage dividers. Resistors, capacitors, inductors. Node voltage and mesh current analysis of circuits. Thevenin and Norton equivalents. AC circuits, phasors, impedance. Electromagnetic fields, electric power, transformers, magnetic materials, generators, and motors. Operational amplifiers, Elements of digital circuits. Sensors and measurements of physical quantities.

**PRE:** PHY 131

PRE or COREQ: MAT 262

#### 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.

#### EMS 105 Portfolio Development

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** 

**NOTE:** EMS 105 maybe equivalent to one or more EMS courses with instructor approval

## 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.

#### EMS 293 Paramedic Academy 1

15 cr, 462 hours lec/lab, 100 hours clin

The first of three modules designed to prepare the working EMT-B for certification as a paramedic in the state of Arizona.

**PRE:** 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, 318 hours lec/lab, 250 hours 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, 318 hours lec/lab, 250 hours 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 Preparatory Writing and Reading

2 cr, .5 lec 1.5 lab

This self-paced course examines the essential process, theories, and methods that enhance a student's overall writing ability, and prepares them to take English 90 (Fundamentals of Writing). It introduces various strategies for improving the essential skills for preparatory college-level academic writing and reading, with a focus on the writing process, as well as standard usage and mechanics, in structuring clear sentences, paragraphs, and basic essays.

# ENG 90 Integrated Writing and Reading

4 cr, 4 lec

This course is a performance-based course designed to develop students' academic writing skill and critical reading skills. The course applies process pedagogy with critical writing and reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course integrates writing and reading assignments with emphasis given to reasoning and responding to issues arising from class readings. Students will learn to write effective, logical essays, utilizing textual support to develop writing, reading, and comprehension strategies, and to analyze, synthesize, and make value judgements using critical thinking. The course is designed to instruct students on how to master competencies necessary for success in English 101 (Freshman Composition) and other college-level reading and writing.

# **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.

# ENG 101 SUMS ENG 1101 Freshman Composition I

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

# ENG 102 SUMB ENG 1102 Freshman Composition II

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 or 107

# ENG 107 First-Year Composition I (for Multilingual Writers)

3 cr, 3 lec

A course in college-level expository and persuasive writing with emphasis on writing processes, and effective rhetorical choices concerning audience, purpose, genre, and style. It gives students guided practice in critical reading of articles, speeches, and other non-literary texts. It also helps students with planning, drafting, revising, and editing essays in various rhetorical modes.

# **ENG 108** First-Year Composition II (for Multilingual Writers)

3 cr, 3 lec

A course in advanced college-level persuasive and research-based writing with emphasis on critical thinking skills, research methods, and the process of inquiry. It helps students make arguments in various settings by practicing effective reading and writing strategies, evidence discovery, claim support, and argument response. This course prepares students to enter upper-level academic discourse communities.

PRE: ENG 101 or ENG 107

#### **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.

## 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.

# 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.

## 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

#### **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."

## 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.

#### **ENG 205** Mentoring Writers

3 cr, 3 lec

This course explores theories and strategies of instructional practices associated with composition pedagogy, collaborative learning, and writing center research. The course includes classroom-based work and field experiences. Students will observe writing classrooms, the Writing Center and/or community sites, and participate in tutoring or mentoring in writing.

PRE: ENG 101 or 107

# 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 or 107

## ENG 216 Persuasive Writing on Public Issues

3 cr, 3 lec **G, WI** 

This advanced interdisciplinary writing course emphasizes major contemporary public issues. In this course, stu-

dents will learn techniques of analyzing and writing persuasive arguments addressing topics of current public interest. Included in this course is the practice in and study of the logic by which writers construct arguments; the various means that writers use to persuade an audience; and the conventions of evidence, claims, and argument in persuasive discourses. Papers are research-based.

PRE: ENG 101 or 107

#### **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 or 107

## 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 or 107

## 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 or 107

## 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 or 107

## 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 or 107

### ENG 245 Contemporary Multicultural Literature

3 cr, 3 lec C, 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 or 107

#### ENG 247 Chicano/a Literature

3 cr, 3 lec

This course will introduce the works of Mexican-American writers of the Southwest and explore how Chicanos have used creative writing to reflect upon and express their experiences as people of Mexican descent living within the United States. Works include poetry, fiction, and essays viewed in their relationship to American cultural heritage and to contemporary culture.

**PRE:** ENG 101 or 107

## 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 or 107

## 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 or 107

## ENG 260 African American Literature

3 cr, 3 lec C, H, WI

African American Literature will explore the linguistic and cultural roots and traditions of literary writing by African Americans in three centuries of American history focusing on select readings in poetry, drama, and fictional prose. The overall goal of the course is to introduce students to the history of the different genres, contexts, and content of literary production by African American writers from the 1700s to the late 20th century. Essential to the course is writing that represents African Americans' varied cultural, sexual, economic, ethnic, racial, and gendered experiences to inform the identities of these African American writers and their writing.

**PRE:** ENG 101 or 107

#### ENG 261 Shakespeare

3 cr, 3 lec H, WI

Representative comedies, histories, and tragedies are analyzed. Shakespeare's life and times will be studied in some detail.

**PRE:** ENG 101 or 107

#### ENG 265 Women Writers

3 cr, 3 lec, H, WI

In this introductory survey course, students will explore fiction, poetry, plays, and non-fiction written by women in English. Included in this exploration are the critical examination of the context in which women have written and continue to write, and the impact of that writing on the canonical tradition of literature. Essential to the course is writing that represents women's varied cultural, sexual, economic, ethnic, and racial experiences as they intertwine with gender to inform the identities of these women writers and their writing.

PRE: ENG 101 or 107

#### ENG 281 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 or 107

## ENG 290 Creative Non-Fiction Writing

3 cr, 3 lec C, WI

A course in the techniques of writing creative nonfiction, taught through exercises, the critiquing of students' original nonfiction, and readings in contemporary nonfiction.

**PRE:** ENG 101 or 107

#### **ENG 291 Fiction Writing**

3 cr, 3 lec C, WI

A course in the techniques of fiction writing, taught through exercises, the critiquing of students' original fiction, and readings in contemporary fiction.

**PRE:** ENG 101 or 107

### **ENG 292** Poetry Writing

3 cr, 3 lec C, WI

A course in the techniques of poetry writing, taught through exercises, the critiquing of students' original poetry, and readings in contemporary poetry.

**PRE:** ENG 101 or 107

# ENT 100 Introduction to Entrepreneurship

3 cr, 3 lec

The focus within the entrepreneurship course is to help students develop the discovery, thinking, reasoning, and implementation skills necessary to thrive in uncertain business environments. Students will develop entrepreneurial skills that can be used in all types of startups and organizations. With cutting-edge topics such as design thinking, business model

canvas, bootstrapping, and crowdfunding, students are exposed to the latest developments in the field of entrepreneurship.

## ENT 200 Entrepreneurship Practicum

3 cr, 3 lec

The objective of this course is for students to apply and build upon the entrepreneurship theoretical fundamentals..

**PRE:** ENT 100

# **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.

#### 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.

### 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 environmental 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.

## 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 or COREQ: CHM 152 and MAT 270

#### 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 Functional English 1

6 cr. 6 lec

This course introduces students with little to no English communication skills to the English language and culture in the United States. It emphasizes the development of listening and speaking skills, including recognizing and responding to basic word and sentence sound patterns and communicative functions in English. It also introduces basic reading and writing skills. Classroom activities will give students practice using the language in everyday situations

#### 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 Functional English 2

6 cr, 6 lec

This course builds upon students? basic communication skills and cultural awareness of English in the United States. It emphasizes the development of listening and speaking skills, including recognizing and responding to basic word and sentence sound

patterns and communicative functions in English. It also continues to develop basic reading and writing skills. Classroom activities will give students practice using the language in everyday situations. These activities will also facilitate the development of a more advanced ability to communicate.

PRE: ESL 91F or ESL 91S or ESL 91R

# 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

## $\pmb{\mathsf{ESL}}\; \pmb{\mathsf{92R}}\; \pmb{\mathsf{Reading}}\; \pmb{\mathsf{and}}\; \pmb{\mathsf{Writing}}\; \pmb{\mathsf{2}}$

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 and essays 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 multiparagraph 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 multiparagraph essays using appropriate grammatical structures.

**PRE:** ESL 93R or 94F or a proficient entrance score on the ESL placement exam

## ESL 94L 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 multiparagraph 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

#### ESL 95V Academic Vocabulary

3 cr, 3 lec

This course is designed to expand the academic vocabulary of users of

English as a second language at the high-intermediate and advanced levels. Emphasis will be placed on the meaning and use of lexical terms in context from a variety of academic fields.

**PRE:** Eligibility for ESL Level 4, EAP, ENG 090 or higher

### ESL 97 Intercambio/ Conversation Exchange 1

1 cr, 1 lec

Intercambio/Conversation Exchange focuses on true conversational practice of English and Spanish between native Spanish speakers and native English speakers. Students of each language background will practice their target language with native speakers in groups and/or pairs.

**PRE:** Eligible for ESL 92 level classes

#### 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 Concepts of Kinesiology and Physical Education

3 cr, 3 lec

A general overview of the disciplines and professions associated with the field of Kinesiology and Physical Education. The basic history, philosophy and theory of each discipline will be covered.

# EXW 150 Nutrition for Exercise and Sports

2 cr, 2 lec

This course covers the basic principles of nutrition and the interactions between nutrition and fitness training. Topics include dietary practices and nutrient intake modifications that affect physical performance, including intake of energy nutrients, vita-

mins, water, electrolytes, and dietary supplements. It also covers the study of body weight and body composition, as well as factors that affect body weight and the effect of the body composition on physical performance.

# **EXW 210** Essentials of Personal Fitness Training

16 cr, 10 lec, 12 lab

Essentials to personal fitness training.; assessment; exercise technique and training instruction; program design; considerations in nutrition; client relations and behavioral coaching; and professional development, practice, and responsibility.

#### EXW 212 Exercise Science

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

2 cr, 1 lec, 2 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, 2 lab

Fundamental methods of instructing and leading fitness activities including strength and conditioning activities

**PRE:** EXW 101

### EXW 218 Instructional Competency: Cardiorespiratory Exercises and Activities

2 cr, 1 lec, 2 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

This course discusses 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 EXW 225, and EXW 214 and EXW 216 and EXW 218 and EXW 100

# 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 EXW 225 and EXW 214 and EXW 216 and EXW 218 and EXW 100

# 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.

#### 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.

#### 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 or 107

# 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.

# 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.

## FAS 238 Human Development

(same as PSY 238)

3cr, 3 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 or 107

#### FIN 100 Stock Market Basics

3 cr, 3 lec

This course provides a foundation for the understanding of equity and fixed income investments, risk and return, behavior finance, time value of money, the markets, and the role individuals and institutions transact within the realm of the investment environment.

#### FIN 110 Mutual Fund Basicss

3 cr, 3 lec

This course provides a foundation for the novice investor in the understanding of mutual fund concepts and terminology, portfolio composition of mutual funds, portfolio risk and return, mutual funds trading, short-term money market instruments, exchange traded funds, expense ratios, taxation of mutual funds in qualified and unqualified plans, mutual fund research, and financial planning with mutual funds.

# 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 Finance**

3 cr, 3 lec

This course provides a working knowledge and in-depth analysis of personal finance. The topics covered include managing cash, maintain good credit, utilizing tools in the financial planning process, engaging in personal loans, protecting wealth, investing for personal growth and retirement and estate planning.

# FIN 250 Financial Statement Analyses

(same as ACC 250)

3 cr, 3 lec

Financial statement analysis emphasizes effective business analysis and decision making by analysts, investors, managers, and other stakeholders of the company. The course presents a balanced view of analysis, including both equity and credit analysis, and both cash-based and earnings-based valuation models.

**PRE:** ACC 211

### FRE 95 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 96 Beginning Conversational French 2

3 cr, 3 lec

A continuation of FRE 95 Basic communication skills with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: FRE 95

## FRE 101 SUMM FRE 1101 Elementary French 1

4 cr. 6 lec C

Basic communication skills with emphasis on oral skills and elemen-

tary 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 SUMB 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 201 SUMM 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

## FRE 202 SUME 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

### FSC 105 Portfolio Development

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 priorlearning experiences that may be considered for college credit at Arizona Western College. **CR/NC** 

**NOTE:** FSC 105 maybe equivalent to one or more FSC courses with instructor approval

### FSC 106 Fire Safety and Survival

3 cr, 3 lec

Course introduces the basic principles and history related to the national fire-fighter 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.

### 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.

### FSC 112 Hazardous Materials Awareness and Operations

6 cr, 4 lec, 5 lab

Course will provide the emergency responder with the ability to identify emergency scenes and 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. Successful completion qualifies the student to sit for certification examination conducted by the Arizona Center of Fire Service Excellence. This class will meet or exceed the requirements as defined by NFPA 472, Standard for Professional Competence of Responders to Hazardous Materials Incidents and NFPA 1072, Standard for Hazardous Materials/Weapons of Mass Destruction Response Personnel Professional Qualifications.

# 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 150 Fire Academy

16 cr, 12 lec, 9 lab

This course provides the knowledge and practical skills necessary for and entry-level Firefighter I and Firefighter II. Successful completion qualifies the student to sit for the Firefighter I and II certification examination conducted by the Arizona Center of Fire Service Excellence.

**PRE:** EMS 152 or certification as an EMT-B and the following:

- .1. High school diploma or GED.
- 2. Meet the minimum written test requirements.
- 3. Minimum age requirement of 18 years.
- 4. Meet the medical requirements of NFPA 1582.
- 5. Complete a liability waiver.

- 6. Meet the minimum physical fitness requirements
- 7. Permission of the Academy Coordinator or Public Safety Institute Director

# 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 155 Fire Investigation 1

3 cr, 3 lec

Course is intended to provide the student with the fundamentals and tech-

nical 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 firefighter 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 102 Introduction to Human Geography

3 cr, 3 lec

An introduction to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. This course uses spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences.

# 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.

### GER 95 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 96 Beginning Conversational German 2

3 cr, 3 lec

A continuation of GER 95. Basic communication skills are taught with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: GER 95 or interview with instructor

### GER 101 SUNG 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 instructional material. Fulfills the first semester foreign language requirement at most four-year institutions.

## GER 102 SUM 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 201 SUNG 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

### GER 202 SUMB 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

### GLG 101 SUNE 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.

## 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

# 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.

## GLG 199 Geology Field Trips

1–6 cr

One to fifteen-day trips scheduled at different times during the year. **R** 

**PRE or 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 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

# **GME 100** Introduction to Design and Game History

3 cr, 3 lec

Survey the history of video game development to gain fundamental knowledge of the video game development life cycle. Study video game industry successes and failures and examine a variety of issues necessary for developing a critical analysis of video games.

# GME 101 Introduction to Programming Concepts

3 cr, 2 lec, 2 lab

Introduction to the fundamental tools and techniques (logical structures, documentation, and decision process) used in designing computer programs and their concepts.

#### GME 105 Digital Arts in Video Games

2 cr, 1 lec, 2 lab

This course focuses on the fundamental application of art and design principles in the digital realm. It will explain some of the necessary technical details of digital media that can help students make more impactful technical decisions when using their tools for creative purposes.

## GME 110 Computer Game Development

3 cr, 2 lec, 2 lab

This course guides students to understand that game designers are responsible for all development phases (from idea to release), business functions, and all features of any given game (player goals, choices, and game rules). Students will observe and analyze different game designs to understand how these elements interact.

#### GME 112 Sound Design

2 cr, 1 lec, 2 lab

This course covers the design, development, and composition of a video game soundscape that includes music, dialogue, and sound effects. Focusing on the sound production and engineering particular to games and typical game audio workflow.

# GME 120 Object Oriented Programming Fundamentals

2 cr, 1 lec, 2 lab

Introduction to programming skills focused the core concepts of object-oriented programming and design using either Python or Java. Object-oriented programming represents the integration of software components into a large-scale software architecture. The course focuses on the understanding of object-oriented concepts such as classes, objects, data abstraction, methods, method overloading, inheritance, and polymorphism. Practical applications focusing on video games will be examined.

**PRE:** MAT 151 or approved higher level math

### **GME 122** Python Programming

3 cr, 2 lec, 2 lab

This course will provide a handson introduction to the Python programming language with a focus on practical applications and projects. Students will design and build software to solve problems from various disciplines each week using Python packages, data structures, object-oriented programming.

**PRE:** MAT 151 or approved higher level math

#### **GME 124 Java Programming**

3 cr, 2 lec, 2 lab

Utilize Java to apply object-oriented programming techniques and develop fluency in working with conditional control flow, looping structures, and procedural programming techniques. Then apply those skills in solving computational problems.

**PRE:** MAT 151 or approved higher level math

# GME 130 Animation and Interactivity

2 cr, 1 lec, 2 lab

Introduction to 2D animation and interactive media design techniques and tools utilized to create animation and integrate text, graphics, audio, and video.

#### **GME 132** Character Animation

3 cr, 2 lec, 2 lab

Guides students through the principles of 3D-Character modeling and animation for multi-media, film, broadcast, video games and interactive entertainment. The course will focus on character motion, editing, and blending electronic with traditional techniques.

#### **GME 141** Electronic Music

2 cr. 1 lec. 2 lab

Students will learn the nature of sound, how natural sound is recorded, and how to create custom electron-

ic sounds. Students will then apply those techniques to create an electronic music composition.

#### GME 143 Studio Recording

2 cr. 1 lec. 2 lab

This course introduces students to the theory and operation of essential audio tools and software to create studio recordings that are intended for use in video games.

### GME 170 Digital Storytelling

3 cr, 2 lec, 2 lab

Guide students to beginning level of digital storytelling that combines photographs, video, animation, sound, music, text, and a narrative voice. The course will explore ways to use the seven elements of digital stories to enhance video user's experiences.

# GME 172 Introduction to Screenwriting

3 cr, 3 lec

Topics covered will include techniques for generating ideas, the drafting process, classical screenplay structure, conflict, characterization, dialogue, how to write visually, how to analyze your own work as a screenwriter, dealing with notes/feedback, scene structure, rewriting and other tools of the trade.

#### GME 224 Special Project

3 cr, 2 lec, 2 lab

To apply core game design skills needed for successful game development: communication, collaboration, affinity of learning, scope, logical thinking (realistic), lateral thinking and breadth of knowledge in a group setting to develop a game from start to end.

**PRE:** GME 100, GME 101, GME 105, GME 110, and GME 112

#### 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.

# **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.

# 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.

# **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, print-

ing 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 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.

**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

# GST 101 Introduction to Geospatial Technology

3 cr, 3 lec, 1 lab

Introduction to the fundamentals of Geospatial Technology.

#### **GST 102** Spatial Analysis

3 cr, 3 lec, 1 lab

This course introduces students to problem-solving and decision making using geospatial analysis techniques.

**PRE:** GST 101

# GST 103 Data Acquisition and Management

3 cr, 3 lec, 1 lab

This course addresses the interpretation and understanding of a variety of data formats available in Geographic Information Systems (GIS).

**PRE:** GST 102

### GST 104 Cartographic Design

3 cr, 3 lec, 1 lab

This course introduces fundamental cartographic concepts.

PRE: GST 103

# **GST 105** Introduction to Remote Sensing

3 cr, 3 lec, 1 lab

This course is an introduction to remote sensing of the Earth.

PRE: GST 104

# **GST 106** Introduction to Geospatial Programming

3 cr, 3 lec, 1 lab

The course provides an understanding of how to customize Geographic Information Systems (GIS) software applications by way of modified toolbars, menus, and buttons.

**PRE:** GST 105

# GST 107 Geospatial Web Applications and Development

3 cr, 3 lec, 1 lab

The course involves the design, creation, configuration, optimization of geospatial servers and applications to deliver content across the Internet.

**PRE:** GST 106

# **GST 108** Geospatial Technology Capstone

1-2 cr, 1-2 lab

The capstone is a learning experience resulting in a consolidation of a student's educational experience and certifies mastery of entry level workplace geospatial competencies.

**PRE:** GST 107 or UAS 103

# GST 109 Geospatial Technology Internship

1-3 cr, 1-3 lab

A structured experience in a supervised setting that is related to the student's major and career interests. Practical experience is under the guidance of faculty and the internship supervisor. Students will work under the direction of a qualified professional with a focus on geospatial technology.

PRE: GST 107

#### HCA 110 Health Care Aide

7cr, 5 lec 4 lab

Essential skills for caregiving at live-in facility, home health care and direct care worker.

**PRE:** 1) Finger print or background clearance 2) Minimum age requirement of 18 years 3) Ability to fully participate in classroom, laboratory, or clinical setting program activities

# 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** or 107

#### 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 or 107

# HIS 121 History of the United States to 1877

3 cr, 3 lec H

This course is a survey of American history from the pre-Columbian era to the end of Reconstruction.

### HIS 122 History of the United States Since 1877

3 cr, 3 lec H

This course is a survey of American history from Reconstruction to the present.

### 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.

### HIS 230 Women in American History

3 cr, 3 lec C, H, WI

A general survey of women's changing roles, status and contributions in American history from colonial times to the present. This course will analyze the social, political and economic aspects of women's lives and explore the ways in which race, ethnicity, and class influenced the American female experience.

PRE: ENG 101 or 107

#### 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.

#### 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.

### HIS 280 History of Mexico

3 cr, 3 lec C, H

A general survey of Mexican history from prehistory to the present. This course will explore the indigenous cultures of Mesoamerica, the period of colonization, the struggle for independence and nationhood in the 19th century, the Mexican Revolution, the era of populism, political and economic crisis during the 20th century, and national rebirth in the 21st century.

# 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.

Note: ENG 90 recommended.

# 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.

Note: ENG 90 recommended.

# 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:** Basic understanding of computer systems and operations

Note: ENG 90 recommended.

#### 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.

Note: ENG 90 recommended.

# 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:** AJS 191 and HLS 101

# HLS 205 Report Writing (same as AJS 205)

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.

Note: ENG 90 recommended.

# 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

# 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 employment as a Federal Law Enforcement Officer.

Note: ENG 90 recommended.

#### **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

**Note:** ENG 90 recommended.

### **HON 180** Honors Seminar 1

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 181** Honors Seminar 2

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 220 Property Management

3 cr, 3 lec

Acquaints the student with the house-keeping 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.

# 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.

### JRN 125 SUMB 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

#### 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

#### 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:** LAS 211

**COREQUISITE:** ENG 101

**NOTE:** ENG 101 may be completed prior to taking LAS 131

# 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.

#### LAS 208 Probate

3 cr, 3 lec

Analysis of requirements and documents used in estate planning and administration.

#### 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.

### 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.

# LAS 216 Real Estate Transactions

3 cr, 3 lec

Various aspects of real estate sales, purchases, and encumbrances.

#### LAS 217 Family Law

3 cr, 3 lec

Legal analysis of marriage, dissolution of marriage, parental rights and duties, pleading and practice.

#### LAS 218 Administrative Law

3 cr, 3 lec

Introduction to the fundamental concepts of administrative law.

#### LAS 219 Bankruptcy

3 cr, 3 lec

Bankruptcy laws, procedures, and the role of paralegals in bankruptcy practice.

### 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.

### 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

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 160 LETA Academy 1

12 cr, 443 hours lec/lab

An orientation and introduction to law enforcement as well as an overview of law and legal matters, patrol procedures, and traffic control.

**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 190 Phlebotomy for Law Enforcement

4 cr, 2.5 lec, 1.5 lab, 3 Clinical

This course is designed for individuals who are employed in law enforcement or current law enforcement training. Students will develop a working knowledge of phlebotomy. Law enforcement officers learn the appropriate procedures for drawing blood, specimen handling, and proper documentation to assure the integrity of evidence and chain of command procedures.

**PRE:** Director of Law Enforcement Training Academy Approval.

# LET 191 Phlebotomy Refresher for Law Enforcement

1 cr, 0.5 lec, 1lab

This course is designed as a refresher course for individuals who are employed in law enforcement or current law enforcement training. Law enforcement officers will review the appropriate and current best practice procedures for drawing blood, specimen handling, and proper documentation to assure the integrity of evidence and chain of command procedures.

**PRE:** LET 190

#### LET 260 LETA Academy 2

12 cr, 443 hours lec/lab

An orientation and introduction to law enforcement as well as an overview of law and legal matters, patrol procedures, and traffic control.

**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 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 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.

### 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

**NOTE:** LMT 105 maybe equivalent to one or more LMT courses with instructor approval

# 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 107 Orientation to Massage Therapy

2cr, 2 lec

An introduction of massage therapy in supportive healthcare. Included are history, benefits, and principles of professionalism, legal issues, and business considerations.

# LMT 140 Business Practices for Massage and Bodyworkers

2 cr, 2 lec

Business practices and business plan development for massage and bodyworkers.

# 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 150 Massage Practice 1

12 cr, 266 hours lec/lab

Orientation and introduction to skills required for therapeutic massage

professional practice. Prepares learners for Arizona State license application.

# 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 221 Massage for the Medically Frail: Hospital or Hospice

3 cr, 1 lec, .5 lab, .5 Clin

A study of massage therapy in the hospital setting as supportive care. Focusing on hospital culture, communication and research, students will learn to adapt massage therapy techniques to address patient issues within the clinical framework of the hospital or in a hospice situation.

**PRE:** must hold an Arizona State License for massage therapy or have instructor permission. Current card holder for TB clearance and CPR for healthcare providers.

### 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 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 employ-

ment 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 250 Massage Practice 2

12 cr, 266 hours lec/lab

Continuation of required skills for therapeutic massage professional practice. Prepares learners for Arizona State license application.

**PRE:** LMT 150

### LMT 270 Bodywork Mastery

3 cr, 2 lec, 2 lab

Massage therapy and bodywork techniques refinement, addressing deep tissue and whole body considerations.

**PRE:** Massage Therapy Certification eligibility for AZ State license; instructor permission required

COREQ: LMT 271

# LMT 271 Advanced Anatomy and Movement

2 cr, 1 lec, 2 lab

A study of deep muscle and other soft tissue layers, anatomy trains, and external body movement (joint, bone and muscle).

**PRE:** Massage Therapy Certification eligibility for AZ State license; instructor permission required

COREQ: LMT 270

#### LMT 272 Mastery Internship

4 cr, 1 lec, 9 clin

Clinical experience in a professional setting with focus on advanced techniques and specialty exploration.

**PRE:** AZ State license; instructor permission required

# LMT 295 Massage Therapy Capstone

1 cr, 1 lec, 1 lab

Capstone is designed to assess the student's knowledge of the program's learning outcomes. This is a mandatory course for all Licensed Massage Therapy majors prior to graduation.

**PRE:** Successful completion of required courses for certification in massage therapy

# 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.

# 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.

# MAT 106 Mathematics for Welders

### (same as MAT 105 and WLD 101)

3 cr, 2 lec, 2 lab

Presentations of the principles and applications of mathematics to real world welding applications. 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.

### MAT 119 Mathematics Across Cultures

3 cr, 3 lec C, WI

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 or 107 and MAT 081 or higher

#### 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

# 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

# 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 SUME MAT 1142 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.

# MAT 150 College Algebra with Review

5 cr, 5 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.

**NOTE:** Credit cannot be received in both MAT 150 and MAT 151 (or MAT 187)

# MAT 151 SUNG 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.

**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 150 or MAT 151 or 187

#### 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 or COREQ: MAT 150 or MAT 151

**NOTE:** Credit cannot be received in both MAT 183 and MAT 187

# MAT 187 SUMB 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.

**NOTE:** Credit cannot be received in both the MAT 151, MAT 183 sequence and MAT 187

#### MAT 212 SUNG MAT 2212

#### **Brief Calculus**

3 cr, 3 lec

Introduction to elementary topics in differential and integral calculus.

**PRE:** MAT 150 or MAT 151 or 187

**NOTE:** Credit cannot be received in both MAT 212 and MAT 220

# MAT 215 Math Analysis for Business

4 cr. 4 lec

Solving business-related problems by applying the concepts of linear programming, optimization, statistics, probability and multivariable calculus.

**PRE:** MAT 212 or MAT 220

# MAT 220 SUNG 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 150 or MAT 187 or MAT 151 and MAT 183

**NOTE:** Credit cannot be received in both MAT 212 and MAT 220

#### MAT 227 Discrete Mathematics

3 cr, 3 lec G, H

An introduction to formal proof techniques, propositional logic, set theory, relations and functions, combinator-

ics, elementary number theory, graph theory, algorithms, and applications.

**PRE:** MAT 150 MAT 151 or MAT 187

# MAT 230 SUME 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 MacLauren series.

**PRE:** MAT 220

### MAT 241 SUNG 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 SUME 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 SUND 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

### MCB 100 Introduction to Health Information Management

3 cr, 3 lec

Introduction to the health information management (HIM) profession. Students will be provided with a solid foundation in the principles and applications of HIM such as the content and management of health records (electronic and paper-based), healthcare law, medical coding classification systems, healthcare statistics, financial management and quality management. Exploration of the healthcare delivery system/industry such as the environment of the healthcare system, organization structures and the various types of healthcare facilities.

**PRE:** Admission into the Medical Coding and Billing Program

### MCB 130 Computer Applications and Healthcare Technologies

3 cr, 2 lec, 2 lab

This course provides an overview of healthcare information systems with an emphasis on computerized health information management (HIM) applications and functions. Students will review common software applications utilized to perform HIM processes. Students will explore the emerging technology issues in the healthcare system.

**PRE:** CIS 120

# MCB 160 Revenue Cycle Management Process

3 cr, 2 lec, 2 lab

This course is designed to give students an in-depth study of the revenue cycle management process. Students will explore each component of the revenue cycle process, which are payer reimbursement, patient access, documentation and charge capture, records completion and coding, and claims management. Students will be prepared to participate in revenue cycle management activities within the healthcare system.

**PRE:** MCB 100

# MCB 200 CPC Medical Coding and Billing Training and Health

6 cr, 6 lec/lab

In this course students will learn principles of medical coding related to the three main code books: CPT, ICD-10-CM Code Set and HCPCS Level II. This course also provides the foundation for understanding the legal and ethical aspects of health information management, which includes the principles of health law and the structure of the American legal system. Students will gain an in-depth understanding of the role that medical record specialist has in healthcare legislation and regulations. Topics include legal terminology, Health Information Portability and Accountability Act (HIPAA) privacy and security of health information, patient rights, and the role of health information management professionals in risk management and compliance programs.

**PRE:** AHE 101 and BIO 160

COREQ: MCB 130 and MCB 160

### MCB 230 CPC Certification Exam Prep & Professional Practice

3 cr, 2 lec, 2 lab

This course will prepare students to sit and take the American Academy of Professional Coders (AAPC)'s Certified Professional Coder (CPC) certification exam. Student will review the AAPC's CPC study guide in detail, learn test taking technique and take online practice exams. Students will begin to form professional relationships by attending a professional meeting related to health information management. Students will practice essential skills of resume writing and job interviewing in order to prepare students for the industry. Students will work on developing strong soft skills.

**PRE:** MCB 200

#### MDA 105 Portfolio Development

4 cr, 1 lec, 6 lab

This course will help those with prior experience in the field of healthcare to develop a portfolio that details and analyzes prior learning experiences.

PRE: Instructor permission required

# MDA 119 The Basics of Body Structure and Function

3 cr, 2 lec, 2 lab

Orientation to basic body structure and functions as appropriate for the health care setting. Includes organization of the human body, body systems, and major organs. Also includes common disorders associated with each body system and what testing and analysis may be used to determine common disease.

**PRE:** Acceptance into Medical Assistant program

**COREQ:** 120

#### MDA 120 Medical Office

4 cr, 3 lec, 3 lab

Essential skills for front office procedures in a medical facility. Emphasis is on administrative aspects, such as billing and coding, scheduling appointments, medical electronic health records data collection and management, filing, and office correspondence. Overview of the medical assistant profession including the role of patient navigator and effec-

tive communication. Includes legal implications for the medical assistant, scope of practice, standard of care, and legal terminology. Also includes an overview of ethics, morals, and the effect of personal ethics on professional behaviors.

PRE: Admission into program.

PRE or COREQ: MDA 119 or BIO 160

COREQ: AHE 101

#### MDA 121 Medical Technician

6 cr, 4 lec, 4 lab

An integrative approach to learning and developing the clinical procedural skills required to work in an ambulatory care setting. Includes the collection and documentation of vital signs, patient history, patient assessment, and partnering with patients to provide them with resources to achieve and maintain health. Also includes Clinical Laboratory Improvement Amendment (CLIA) waived testing, safety in medication administration, principles of nutrition, and legal and ethical considerations. Includes performing and documenting appropriate diagnostic measures, identifying pathology, and initiating treatment prescribed by a licensed provider. Also includes Exposure Control Plan, Blood Borne Pathogens Standard, Personal Protective Equipment (PPE), Environmental Protection and disposal of Chemical and Biological Waste based on Occupational Health and Safety Administration (OSHA) guidelines and Center for Disease Control (CDC) regulations to assure safety in the medical practice.

**PRE:** MDA 120

### MDA 239 Medical Assistant Externship I

4 cr, 1 lec 2 lab, 5 clin

Practicum in administrative medical assisting. Application of administrative duties, procedures, and knowledge derived from medical assisting courses.

COREQ: MDA 121

# MDA 240 Medical Assistant Externship 2

4 cr, 1 lec, 2 lab, 5 clin

Practicum in clinical medical assisting. Application of clinical skills, procedures, and knowledge derived from medical assisting courses.

**PRE:** MDA 239

# 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.

# MFG 195 Materials Science and Metallurgy

3 cr, 2 lec, 2 lab

Survey and application of materials science and metallurgy.

# MFG 201 Machinery/Industrial Valve and Pump Maintenance and Repair

4 cr, 3 lec, 2 lab

The diagnostic, repair and replacement procedures for industrial valves and pumps utilized in commercial industry settings and the systematic methods of identifying causes of mechanical failure and using predictive methods to prevent mechanical failure.

# MGT 135 Management Fundamentals

3 cr, 3 lec

Business philosophy and management theory including planning, organizing, staffing, directing, and controlling.

#### 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.

#### 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 111 Social Media Marketing

3 cr, 3 lec

This course provides a working knowledge of the theory and practice in the use of social media platforms in marketing. The topics include a history of social media, the preparation for social media, the power of collective influence, and how to engage with social media. Students will reviews social mediums, social networks, platforms, and other marketing tools used to create social media campaigns.

# 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 50/60 Preparatory Applied

1 cr, .6 lec/lab

2 cr, 1.2 lec/lab

These courses are designed to offer private lessons to the pre-college or non-music major college student. The course materials are custom designed to fit the needs of the individual student, whether they are beginner, intermediate, or of advanced levels. The courses may be repeated each semester with new content, which offers, continued development skills and additional literature. **R** 

a. Brass, b. Woodwind, c. String, d. Keyboard, e. Voice

### MUS 70A Yuma Chorale

.5 cr, .5 1ab

This is a large community chorus that performs major choral works and is open to all interested singers by audition. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

#### MUS 70B Chamber Singers

.5 cr, .5 1ab

This vocal ensemble is dedicated to the performance of madrigals and other literature written for small choirs and chamber vocal ensembles. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

#### MUS 70C Community Band

.5 cr, .5 1ab

This is a large concert band open to all student and community musicians that rehearses and performs traditional and contemporary band literature. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

### MUS 70D Pep Band

.5 cr. .5 1ab

This band performs at home football and basketball games, and other campus and community events. The band is open to all musicians. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

#### MUS 70E Jazz Ensemble

.5 cr, .5 1ab

This performing organization involves the study and public performance of big band jazz arrangements. Auditions and the approval of the instructor are necessary. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

#### MUS 70F Civic Orchestra

.5 cr, .5 1ab

The Civic Orchestra's purpose is the performance of standard orchestral literature written for full orchestra, with the possibility of smaller ensembles performing chamber works at

the instructor's discretion. The class is designed for community members, high school students, and other performers. A multi-level class. **CR/NC OE/OE** 

# MUS 70G Civic Light Orchestra

.5 cr, .5 1ab

This ensemble is open to string players age 16 and over. The group performs classical string music for the public. This course is designed for community members, high school students, and other performers. It is a multi-level class. **CR/NC OE/OE** 

### MUS 70H String Ensemble

.5 cr, .5 1ab

The string ensemble will consist of two parts: a large group (the string orchestra proper) and a number of small group (the chamber ensembles). In the large group, students will study string orchestra literature and the musical styles of many composers. They will learn how to conduct an ensemble and how to study and read scores. The small groups are multiple string ensembles which study chamber music, such as trios, quartets, etc. The class is designed for community members, high school students, and other performers. This is a multi-level class. CR/NC OE/OE

**PRE:** audition required. Students must be able to read music and understand string finger patterns in the keys of C major, G major, and D major

#### 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 100 Yuma Chorale

1 cr, 1 lec, 2 lab

Beginning level of a large community chorus that performs major choral works and is open to all interested singers by audition. It is a multi-level class.

#### MUS 101 Yuma Chorale

1 cr, 1 lec, 2 lab

Continuation of a large community chorus that performs major choral works and is open to all interested singers by audition. It is a multi-level class.

PRE: MUS 100

#### MUS 103 Pep Band

1 cr, 1 lec, 2 lab

Beginning level of band performance at public events. The band is open to all musicians; it is a multi-level class.

#### MUS 104 Community Band

1 cr, 1 lec, 2 lab

Beginning level of concert band at public events.

#### MUS 105 Jazz Ensemble

1 cr, 1 lec, 2 lab

Beginning level of big band jazz ensemble performance.

**PRE:** Audition and instructor permission required

#### MUS 106 Chamber Singers

1 cr, 1 lec, 2 lab

Beginning level of chamber vocal ensemble performance.

PRE: Audition required

#### MUS 107 String Ensemble

1 cr, 1 lec, 2 lab

Beginning level of string ensemble.

**PRE:** Audition required. Students must be able to read music and understand string finger patterns in the keys of C major, G major, and D major

### MUS 108 Civic Light Orchestra

1 cr, 1 lec, 2 lab

Beginning level of Civic Light Orchestra.

PRE: 16 years of age or over

#### MUS 109 Civic Orchestra

1 cr, 1 lec, 2 lab

Beginning level of Civic Orchestra.

#### 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.

**PRE:** Instructor approval

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 113 Pep Band

1 cr, 1 lec, 2 lab

Continuation of band performance at public events. This band performs at home football and basketball games, and other campus and community events.

**PRE:** MUS 103

### MUS 114 Community Band

1 cr, 1 lec, 2 lab

Continuation of beginning level of concert band performances at public events.

**PRE:** MUS 104

#### MUS 115 Jazz Ensemble

1 cr, 1 lec, 2 lab

Continuation of big band jazz ensemble performance.

**PRE:** MUS 105

#### **MUS 116** Chamber Singers

1 cr, 1 lec, 2 lab

The continuance of chamber vocal ensemble performance.

**PRE:** MUS 106

### MUS 117 String Ensemble

1 cr, 1 lec, 2 lab

Continuation of string ensemble.

**PRE:** MUS 107 and string finger patterns in the keys of A minor, E minor, and B minor

#### MUS 118 Civic Light Orchestra

1 cr. 1 lec. 2 lab

Continuance of Civic Light Orchestra.

**PRE:** MUS 108 and 16 years of age or over

#### MUS 119 Civic Orchestra

1 cr, 1 lec, 2 lab

Continuation of Civic Orchestra.

**PRE:** MUS 109

#### 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.

#### 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 123 Piano 1A

1 cr, .6 lec/lab

This is an applied music individual half-hour per week lesson designed to develop beginning college-level performing skills on the piano. This course is required of music majors whose major instrument is the piano.

PRE: instructor permission required

#### MUS 124 Piano 1B

1 cr, .6 lec/lab

This is an applied music individual half-hour per week lesson designed to develop intermediate college-level performing skills on the piano. This course is required of music majors whose major instrument is the piano.

**PRE:** MUS 123 or MUS 125 and instructor permission required

#### MUS 125 Piano 1A

2 cr, 1.2 lec/lab

This is an applied music individual one-hour per week lesson designed to develop beginning college-level performing skills on the piano. This course is required of music majors whose major instrument is the piano.

**PRE:** instructor permission required

#### MUS 126 Piano 1B

2 cr, 1.2 lec/lab

This is an applied music individual one-hour per week lesson designed to develop intermediate college-level performing skills on the piano. This course is required of music majors whose major instrument is the piano.

**PRE:** MUS 123 or MUS 125 and instructor permission required

### MUS 127 Classical Guitar Ensemble 1A

1 cr, 1 lec, 2 lab

Beginning level of classical guitar ensemble performance at public events.

**COREQ:** MUS 165F, MUS 166F, MUS 265F, or MUS 266F.

Corequisite may be waived with instructor permission.

### MUS 128 Classical Guitar Ensemble 1B

1 cr. 1 lec. 2 lab

Continuation of beginning level of classical guitar ensemble performance at public events.

**COREQ:** MUS 165F, MUS 166F, MUS 265F, or MUS 266F.

Corequisite may be waived with instructor permission.

#### MUS 133 Voice 1A

1 cr, .6 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a half-hour once per week to work on the beginning skills of singing and to build a basic repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** instructor permission required

#### MUS 134 Voice 1B

1 cr, .6 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a half-hour once per week to work on the intermediate skills of singing and to build a repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 133 or MUS 135 and instructor permission required

#### MUS 135 Voice 1A

2 cr, 1.2 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a full-hour once per week to work on the beginning skills of singing and to build a basic repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

PRE: instructor permission required

#### MUS 136 Voice 1B

2 cr, 1.2 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for one hour once per week to work on the intermediate skills of singing and to build a repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 133 or MUS 135 and instructor permission required

### MUS 143A Brass Instrument-Trumpet 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugelhorn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** instructor permission required

### MUS 143B Brass Instrument-Horn 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** instructor permission required

### MUS 143C Brass Instrument-Trombone 1A

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

PRE: instructor permission required

### MUS 143D Brass Instrument-Tuba 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

PRE: instructor permission required

### MUS 143E Brass Instrument-Euphonium 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** instructor permission required

### MUS 144A Brass Instrument-Trumpet 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** MUS 143A or MUS 145A and instructor permission required

### MUS 144B Brass Instrument-Horn 1B

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 143B or MUS 145B and instructor permission required

### MUS 144C Brass Instrument-Trombone 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 143C or MUS 145C and instructor permission required

### MUS 144D Brass Instrument-Tuba 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 143D or MUS 145D and instructor permission required

### MUS 144E Brass Instrument-Euphonium 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 143E or MUS 145E and instructor permission required

### MUS 145A Brass Instrument-Trumpet 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

PRE: instructor permission required

### MUS 145B Brass Instrument-Horn 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

PRE: instructor permission required

### MUS 145C Brass Instrument-Trombone 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

PRE: instructor permission required

### MUS 145D Brass Instrument-Tuba 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

PRE: instructor permission required

### MUS 145E Brass Instrument-Euphonium 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed

to develop college-level performing skills on the Baritone Horn or Euphonium. This course is required of music majors whose major instrument is the Euphonium.

PRE: instructor permission required

### MUS 146A Brass Instrument-Trumpet 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** MUS 143A or MUS 145A and instructor permission required

#### MUS 146B Brass Instrument-Horn 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 143B or MUS 145B and instructor permission required

### MUS 146C Brass Instrument-Trombone 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 143C or MUS 145C and instructor permission required

### MUS 146D Brass Instrument-Tuba 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level perform-

ing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 143D or MUS 145D and instructor permission required

### MUS 146E Brass Instrument-Euphonium 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 143E or MUS 145E and instructor permission required

#### 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 163A String Instrument-Violin 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** instructor permission required

### MUS 163B String Instrument-Viola 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the first semester of the class.

**PRE:** instructor permission required

# MUS 163C String Instrument-Cello 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello. This is the first semester of the class.

PRE: instructor permission required

# MUS 163D String Instrument-String Bass 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the first semester of the class.

PRE: instructor permission required

### MUS 163E String Instrument-Electric Bass 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the first semester of the class.

PRE: instructor permission required

### MUS 163F String Instrument-Guitar 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the first semester of the class.

PRE: instructor permission required

### MUS 163G String Instrument-Electric Guitar 1A

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the first semester of the class.

PRE: instructor permission required

### MUS 164A String Instrument-Violin 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 163A or MUS 165A and instructor permission required

# MUS 164B String Instrument-Viola 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the second semester of the class.

**PRE:** MUS 163B or MUS 165B and instructor permission required

# MUS 164C String Instrument-Cello 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello.

**PRE:** MUS 163C or MUS 165C and instructor permission required

### MUS 164D String Instrument-String Bass 1B

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the second semester of the class.

**PRE:** MUS 163D or MUS 165D and instructor permission required

### MUS 164E String Instrument-Electric Bass 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the second semester of the class.

**PRE:** MUS 163E or MUS 165E and instructor permission required

# MUS 164F String Instrument-Guitar 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the second semester of the class.

**PRE:** MUS 163F or MUS 165F and instructor permission required

### MUS 164G String Instrument-Electric Guitar 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the second semester of the class.

**PRE:** MUS 163G or MUS 165G and instructor permission required

# MUS 165A String Instrument-Violin 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** instructor permission required

### MUS 165B String Instrument-Viola 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the first semester of the class.

PRE: instructor permission required

### MUS 165C String Instrument-Cello 1A

2 cr, 1.2 lec/lab

This is applied music, an individual onehour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello.

**PRE:** MUS 163C and instructor permission required

### MUS 165D String Instrument-String Bass 1A

2 cr, 1.2 lec/lab

These are applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the first semester of the class.

**PRE:** instructor permission required

### MUS 165E String Instrument-Electric Bass 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the first semester of the class.

**PRE:** instructor permission required

### MUS 165F String Instrument-Guitar 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the first semester of the class.

PRE: instructor permission required

### MUS 165G String Instrument-Electric Guitar 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the first semester of the class.

**PRE:** instructor permission required

# MUS 166A String Instrument-Violin 1B

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 163A or MUS 165A and instructor permission required

# MUS 166B String Instrument-Viola 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the second semester of the class.

**PRE:** MUS 163B or MUS 165B and instructor permission required

### MUS 166C String Instrument-Cello 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello.

**PRE:** MUS 163C or MUS 165C and instructor permission required

# MUS 166D String Instrument-String Bass 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the second semester of the class.

**PRE:** MUS 163D or MUS 165D and instructor permission required

### MUS 166E String Instrument-Electric Bass 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the second semester of the class.

**PRE:** MUS 163E or MUS 165E and instructor permission required

# MUS 166F String Instrument-Guitar 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the second semester of the class.

**PRE:** MUS 163F or MUS 165F and instructor permission required

### MUS 166G String Instrument-Electric Guitar 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the second semester of the class.

**PRE:** MUS 163G or MUS 165G and instructor permission required

## MUS 173A Woodwind Instrument- Saxophone 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

PRE: instructor permission required

# MUS 173B Woodwind Instrument- Bassoon 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

PRE: instructor permission required

### MUS 173C Woodwind Instrument- Clarinet 1A

1 cr, .6 lec/lab

This applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet. This is the first semester of the class.

PRE: instructor permission required

# MUS 173D Woodwind Instrument- Oboe 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

PRE: instructor permission required

# MUS 173F Woodwind Instrument- Flute 1A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

PRE: instructor permission required

# MUS 174A Woodwind Instrument- Saxophone 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

**PRE:** MUS 173A or MUS 175A and instructor permission required

### MUS 174B Woodwind Instrument- Bassoon 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 173B or MUS 175B and instructor permission required

### MUS 174C Woodwind Instrument- Clarinet 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 173C or MUS 175C and instructor permission required

# MUS 174D Woodwind Instrument- Oboe 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 173D or MUS 175D and instructor permission required

# MUS 174F Woodwind Instrument- Flute 1B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 173F or MUS 175F and instructor permission required

### MUS 175A Woodwind Instrument- Saxophone 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

PRE: instructor permission required

### MUS 175B Woodwind Instrument- Bassoon 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

PRE: instructor permission required

### MUS 175C Woodwind Instrument- Clarinet 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

PRE: instructor permission required

# MUS 175D Woodwind Instrument- Oboe 1A

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** instructor permission required

# MUS 175F Woodwind Instrument- Flute 1A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed

to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

PRE: instructor permission required

# MUS 176A Woodwind Instrument- Saxophone 1B

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

**PRE:** MUS 173A or MUS 175A and instructor permission required

# MUS 176B Woodwind Instrument- Bassoon 1B

2 cr. 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 173B or MUS 175B and instructor permission required

# MUS 176C Woodwind Instrument- Clarinet 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 173C or MUS 175C and instructor permission required

### MUS 176D Woodwind Instrument- Oboe 1B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the oboe or English horn.

This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 173D or MUS 175D and instructor permission required

# MUS 176F Woodwind Instrument- Flute 1B

2 cr, 1.2 lec/lab

These are applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 173F or MUS 175F and instructor permission required

#### MUS 183 Percussion 1A

1 cr. .6 lec/lab

These are applied music, an individual half-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** instructor permission required

### MUS 184 Percussion 1B

1 cr. .6 lec/lab

These are applied music, an individual half-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 183 or MUS 185 and instructor permission required

#### MUS 185 Percussion 1A

2 cr, 1.2 lec/lab

These are applied music, an individual one hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** instructor permission required

#### MUS 186 Percussion 1B

2 cr, 1.2 lec/lab

These are applied music, an individual one hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 183 or MUS 185 and instructor permission required

#### 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.

PRE: Instructor approval

COREQ: MUS 111

#### MUS 192 Theory 1B

3 cr, 3 lec

A continuation of MUS 191.

**PRE:** MUS 191 **COREQ:** MUS 112

#### MUS 200 Yuma Chorale

1 cr, 1 lec, 2 lab

Intermediate level of a large community chorus that performs major choral works and is open to all interested singers by audition. It is a multi-level class.

**PRE:** MUS 101

#### MUS 201 Yuma Chorale

1 cr, 1 lec, 2 lab

Advanced level of a large community chorus that performs major choral works and is open to all interested singers by audition. It is a multi-level class.

**PRE:** MUS 200

#### MUS 203 Pep Band

1 cr, 1 lec, 2 lab

Intermediate level of band performance at public events.

**PRE:** MUS 113

### MUS 204 Community Band

1 cr, 1 lec, 2 lab

Intermediate level of concert band performance at public events.

PRE: MUS 114

#### MUS 205 Jazz Ensemble

1 cr, 1 lec, 2 lab

Intermediate level of big band jazz ensemble performance.

**PRE:** MUS 115

#### MUS 206 Chamber Singers

1 cr, 1 lec, 2 lab

Intermediate level of chamber vocal ensemble performance.

**PRE:** MUS 116

### MUS 207 String Ensemble

1 cr, 1 lec, 2 lab

Intermediate level of string ensemble.

**PRE:** MUS 117 and string finger patterns in the keys of F major, B-flat major, D minor and G minor

#### MUS 208 Civic Light Orchestra

1 cr, 1 lec, 2 lab

Intermediate level of Civic Light Orchestra.

**PRE:** MUS 118 and 16 years of age or over

#### MUS 209 Civic Orchestra

1 cr, 1 lec, 2 lab

Intermediate level of Civic Orchestra.

**PRE:** MUS 119

### MUS 211 SUN# MUS 2222

# Dictation and Sight Reading 2A

1 cr, 3 lab

A continuation of MUS 111.

COREQ: MUS 291

# MUS 212 SUND MUS 2223 Dictation and Sight Reading 2B

1 cr, 3 lab

A continuation of MUS 112.

**PRE:** MUS 211 **COREQ:** MUS 292

#### MUS 213 Pep Band

1 cr. 1 lec. 2 lab

Advanced level of band performance at public events.

**PRE:** MUS 203

### MUS 214 Community Band

1 cr, 1 lec, 2 lab

Advanced level of concert band performance at public events.

**PRE:** MUS 204

#### MUS 215 Jazz Ensemble

1 cr, 1 lec, 2 lab

Advanced level of big band jazz performance.

**PRE:** MUS 205

#### MUS 216 Chamber Singers

1 cr, 1 lec, 2 lab

Advanced level of chamber vocal ensemble performance.

**PRE:** MUS 206

#### MUS 217 String Ensemble

1 cr, 1 lec, 2 lab

Advanced level of string ensemble.

**PRE:** MUS 207 and Ionian, Aeolian, and Dorian modes, as well as understand the differences between natural, harmonic, and melodic minor scales

### MUS 218 Civic Light Orchestra

1 cr, 1 lec, 2 lab

Advanced level of Civic Light Orchestra.

**PRE:** MUS 208 and 16 years of age or over

#### MUS 219 Civic Orchestra

1 cr, 1 lec, 2 lab

Advanced level of Civic Orchestra.

**PRE:** MUS 209

#### 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 223 Piano 2A

1 cr, .6 lec/lab

This is an applied music individual half-hour per week lesson designed to develop advanced college-level performing skills on the piano. There will be an added focus on developing proper technique by not only continuing the study of all major and minor scales and arpeggios, but by increasing the study of exercises, such as those by Hanon and Czerny. The student and instructor will meet each week to work on various aspects of piano playing and to build a repertoire of music. This course is required of music majors whose major instrument is the piano.

**PRE:** MUS 124 or MUS 126 and instructor permission required

#### MUS 224 Piano 2B

1 cr, .6 lec/lab

This is an applied music individual half-hour per week lesson designed to prepare students for upper division skills on the piano. There will be an added focus on developing proper technique by not only continuing the study of all major and minor scales and arpeggios, but by increasing the study of exercises, such as those by Hanon and Czerny. The student and instructor will meet each week to work on various aspects of piano playing and to build a repertoire of music. This course is required of music majors whose major instrument is the piano.

**PRE:** MUS 223 or MUS 225 and instructor permission required

#### MUS 225 Piano 2A

2 cr. 1.2 lec/lab

This is an applied music individual one-hour per week lesson designed to develop advanced college-level performing skills on the piano. There will be an added focus on developing proper technique by not only continuing the study of all major and minor scales and arpeggios, but by increasing the study of exercises, such as those by Hanon and Czerny. The student and instructor will meet each week to work on various aspects of piano playing and to build a repertoire of music. This course is required of music majors whose major instrument is the piano.

**PRE:** MUS 124 or MUS 126 and instructor permission required

#### MUS 226 Piano 2B

2 cr. 1.2 lec/lab

This is an applied music individual one-hour per week lesson designed to prepare students for upper division skills on the piano. There will be an added focus on developing proper technique by not only continuing the study of all major and minor scales and arpeggios, but by increasing the study of exercises, such as those by Hanon and Czerny. The student and instructor will meet each week to work on various aspects of piano playing and to build a repertoire of music. This course is required of music majors

whose major instrument is the piano.

**PRE:** MUS 223 or MUS 225 and instructor permission required

### MUS 227 Classical Guitar Ensemble 2A

1 cr, 1 lec, 2 lab

Intermediate level of classical guitar ensemble performance at public events.

**COREQ:** MUS 165F, MUS 166F, MUS 265F, or MUS 266F.

Corequisite may be waived with instructor permission.

### MUS 228 Classical Guitar Ensemble 2B

1 cr, 1 lec, 2 lab

Advanced level of classical guitar ensemble performance at public events.

**COREQ:** MUS 165F, MUS 166F, MUS 265F, or MUS 266F.

Corequisite may be waived with instructor permission.

#### MUS 233 Voice 2A

1 cr, .6 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a half-hour once per week to work on the advanced skills of singing and to build upon previous repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 134 or MUS 136 and instructor permission required

### MUS 234 Voice 2B

1 cr, .6 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a half-hour once per week to work on the further advancing skills of singing and to build a wider repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 233 or MUS 235 and instructor permission required

#### MUS 235 Voice 2A

2 cr, 1.2 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for one-hour once per week to work on the advanced skills of singing and to build upon previous repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 134 or MUS 136 and instructor permission required

#### MUS 236 Voice 2B

2 cr. 1.2 lec/lab

Voice lessons are designed to serve the transfer music major with an emphasis in voice. Student and instructor meet for a full-hour once per week to work on the further advancing skills of singing and to build a wider repertoire of music from generally the Baroque period to present. This course is required of music majors whose concentration is voice.

**PRE:** MUS 233 or MUS 235 and instructor permission required

### MUS 243A Brass Instrument-Trumpet 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** MUS 144A or MUS 146A and instructor permission required

### MUS 243B Brass Instrument-Horn 2A

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 144B or MUS 146B and instructor permission required

### MUS 243C Brass Instrument-Trombone 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 144C or MUS 146C and instructor permission required

### MUS 243D Brass Instrument-Tuba 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 144D or MUS 146D and instructor permission required

### MUS 243E Brass Instrument-Euphonium 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 144E or MUS 146E and instructor permission required

### MUS 244A Brass Instrument-Trumpet 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** MUS 243A or MUS 245A and instructor permission required

#### MUS 244B Brass Instrument-Horn 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 243B or MUS 245B and instructor permission required

### MUS 244C Brass Instrument-Trombone 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 243C or MUS 245C and instructor permission required

#### MUS 244D Brass Instrument-Tuba 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 243D or MUS 245D and instructor permission required

### MUS 244E Brass Instrument-Euphonium 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 243E or MUS 245E and instructor permission required

### MUS 245A Brass Instrument-Trumpet 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugel-horn. This course is required of music majors whose major instrument is the trumpet.

**PRE:** MUS 144A or MUS 146A and instructor permission required

# MUS 245B Brass Instrument-Horn 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 144B or MUS 146B and instructor permission required

### MUS 245C Brass Instrument-Trombone 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 144C or MUS 146C and instructor permission required

### MUS 245D Brass Instrument-Tuba 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 144D or MUS 146D and instructor permission required

### MUS 245E Brass Instrument-Euphonium 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 144E or MUS 146E and instructor permission required

# MUS 246A Brass Instrument-Trumpet 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one hour per week lesson designed to develop college-level performing skills on the trumpet, cornet, or flugelhorn. This course is required of music majors whose major instrument is the trumpet. This is the fourth semester of the class.

**PRE:** MUS 243A or MUS 245A and instructor permission required

#### MUS 246B Brass Instrument-Horn 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the French horn. This course is required of music majors whose major instrument is the horn.

**PRE:** MUS 243B or MUS 245B and instructor permission required

### MUS 246C Brass Instrument-Trombone 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the trombone. This course is required of music majors whose major instrument is the trombone.

**PRE:** MUS 243C or MUS 245C and instructor permission required

### MUS 246D Brass Instrument-Tuba 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the tuba. This course is required of music majors whose major instrument is the tuba.

**PRE:** MUS 243D or MUS 245D and instructor permission required

## MUS 246E Brass Instrument-Euphonium 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the baritone horn or euphonium. This course is required of music majors whose major instrument is the euphonium.

**PRE:** MUS 243E or MUS 245E and instructor permission required

# MUS 263A String Instrument-Violin 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 164A or MUS 166A and instructor permission required

# MUS 263B String Instrument-Viola 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the third semester of the class.

**PRE:** MUS 164B or MUS 166B and instructor permission required

# MUS 263C String Instrument-Cello 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello. This is the third semester of the class.

**PRE:** MUS 164C or MUS 166C and instructor permission required

### MUS 263D String Instrument-String Bass 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the third semester of the class.

**PRE:** MUS 164D or MUS 166D and instructor permission required

### MUS 263E String Instrument-Electric Bass 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the third semester of the class.

**PRE:** MUS 164E or MUS 166E and instructor permission required

# MUS 263F String Instrument-Guitar 2A

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the third semester of the class.

**PRE:** MUS 164F or MUS 166F and instructor permission required

### MUS 263G String Instrument-Electric Guitar 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the third semester of the class.

**PRE:** MUS 164G or MUS 166G and instructor permission required

# MUS 264A String Instrument-Violin 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 263A or MUS 265A and instructor permission required

# MUS 264B String Instrument-Viola 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the fourth semester of the class.

**PRE:** MUS 263B or MUS 265B and instructor permission required

### MUS 264C String Instrument-Cello 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello. This is the fourth semester of the class.

**PRE:** MUS 263C or MUS 265C and instructor permission required

### MUS 264D String Instrument-String Bass 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, and acoustic bass). This course is required of music majors whose major instrument is the bass. This is the fourth semester of the class.

**PRE:** MUS 263D or MUS 265D and instructor permission required

### MUS 264E String Instrument-Electric Bass 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the fourth semester of the class.

**PRE:** MUS 263E or MUS 265E and instructor permission required

# MUS 264F String Instrument-Guitar 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the fourth semester of the class.

**PRE:** MUS 263F or MUS 265F and instructor permission required

### MUS 264G String Instrument-Electric Guitar 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the fourth semester of the class.

**PRE:** MUS 263G or MUS 265G and instructor permission required

### MUS 265A String Instrument-Violin 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 164A or MUS 166A and instructor permission required

# MUS 265B String Instrument-Viola 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the third semester of the class.

**PRE:** MUS 164B or MUS 166B and instructor permission required

### MUS 265C String Instrument-Cello 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello. This is the third semester of the class.

**PRE:** MUS 164C or MUS 166C and instructor permission required

#### MUS 265D String Instrument-

#### String Bass 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the third semester of the class.

**PRE:** MUS 164D or MUS 166D and instructor permission required

#### MUS 265E String Instrument-Electric Bass 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the third semester of the class.

**PRE:** MUS 164E or MUS 166E and instructor permission required

# MUS 265F String Instrument-Guitar 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the third semester of the class.

**PRE:** MUS 164F or MUS 166F and instructor permission required

### MUS 265G String Instrument-Electric Guitar 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the third semester of the class.

**PRE:** MUS 164G or MUS 166G and instructor permission required

# MUS 266A String Instrument-Violin 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the violin. This course is required of music majors whose major instrument is the violin.

**PRE:** MUS 263A or MUS 265A and instructor permission required

# MUS 266B String Instrument-Viola 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the viola. This course is required of music majors whose major instrument is the viola. This is the fourth semester of the class.

**PRE:** MUS 263B or MUS 265B and instructor permission required

# MUS 266C String Instrument-Cello 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the cello. This course is required of music majors whose major instrument is the cello. This is the fourth semester of the class.

**PRE:** MUS 263C or MUS 265C and instructor permission required

# MUS 266D String Instrument-String Bass 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the string bass (contrabass, double bass, acoustic bass). This course is required of music majors whose major instrument is the bass. This is the fourth semester of the class.

**PRE:** MUS 263D or MUS 265D and instructor permission required

### MUS 266E String Instrument-Electric Bass 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric bass. This course is optional for music majors whose major instrument is the bass. This is the fourth semester of the class.

**PRE:** MUS 263E or MUS 265E and instructor permission required

# MUS 266F String Instrument-Guitar 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the guitar. This course is required of music majors whose major instrument is the guitar. This is the fourth semester of the class.

**PRE:** MUS 263F or MUS 265F and instructor permission required

### MUS 266G String Instrument-Electric Guitar 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the electric guitar. This course is optional for music majors whose major instrument is the guitar. This is the fourth semester of the class.

**PRE:** MUS 263G or MUS 265G and instructor permission required

# MUS 273A Woodwind Instrument- Saxophone 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

**PRE:** MUS 174A or MUS 176A and instructor permission required

### MUS 273B Woodwind Instrument- Bassoon 2A

1 cr. .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 174B or MUS 176B and instructor permission required

# MUS 273C Woodwind Instrument- Clarinet 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 174C or MUS 176C and instructor permission required

# MUS 273D Woodwind Instrument- Oboe 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 174D or MUS 176D and instructor permission required

# MUS 273F Woodwind Instrument- Flute 2A

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 174F or MUS 176F and instructor permission required

# MUS 274A Woodwind Instrument- Saxaphone 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone. This is the fourth semester of the class.

**PRE:** MUS 273A or MUS 275A and instructor permission required

### MUS 274B Woodwind Instrument- Bassoon 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 273B or MUS 275B and instructor permission required

### MUS 274C Woodwind Instrument- Clarinet 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 273C or MUS 275C and instructor permission required

# MUS 274D Woodwind Instrument- Oboe 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 273D or MUS 275D and instructor permission required

# MUS 274F Woodwind Instrument- Flute 2B

1 cr, .6 lec/lab

This is applied music, an individual half-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 273F or MUS 275F and instructor permission required

# MUS 275A Woodwind Instrument- Saxophone 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone.

**PRE:** MUS 174A or MUS 176A and instructor permission required

# MUS 275B Woodwind Instrument- Bassoon 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 174B or MUS 176B and instructor permission required

# MUS 275C Woodwind Instrument- Clarinet 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 174C or MUS 176C and instructor permission required

# MUS 275D Woodwind Instrument- Oboe 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 174D or MUS 176D and instructor permission required

# MUS 275F Woodwind Instrument- Flute 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 174F or MUS 176F and instructor permission required

# MUS 276A Woodwind Instrument- Saxaphone 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the saxophone. This course is required of music majors whose major instrument is the saxophone. This is the fourth semester of the class.

**PRE:** MUS 273A or MUS 275A and instructor permission required

# MUS 276B Woodwind Instrument- Bassoon 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the bassoon. This course is required of music majors whose major instrument is the bassoon.

**PRE:** MUS 273B or MUS 275B and instructor permission required

# MUS 276C Woodwind Instrument- Clarinet 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the clarinet. This course is required of music majors whose major instrument is the clarinet.

**PRE:** MUS 273C or MUS 275C and instructor permission required

# MUS 276D Woodwind Instrument- Oboe 2B

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the oboe or English horn. This course is required of music majors whose major instrument is the oboe.

**PRE:** MUS 273D or MUS 275D and instructor permission required

# MUS 276F Woodwind Instrument- Flute 2A

2 cr, 1.2 lec/lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the flute or piccolo. This course is required of music majors whose major instrument is the flute.

**PRE:** MUS 273F or MUS 275F and instructor permission required

#### MUS 283 Percussion 2A

1 cr, .6 lec/lab

These are applied music, an individual half-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 184 or MUS 186 and instructor permission required

#### MUS 284 Percussion 2B

1 cr, .6 lec/lab

These are applied music, an individual half-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 283 or MUS 285 and instructor permission required

#### MUS 285 Percussion 2A

2 cr, 1.2 lec/lab

These are applied music, an individual one-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 184 or MUS 186 and instructor permission required

#### MUS 286 Percussion 2B

2 cr, 1.2 lec/lab

These are applied music, an individual one-hour per week lesson designed to develop college-level performing skills on percussion instruments. This course is required of music majors whose major instruments are the drums and other percussion.

**PRE:** MUS 283 or MUS 285 and instructor permission required

# MUS 291 SUMS 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 SUNED MUS 2223 Theory 2B

3 cr, 3 lec

A continuation of MUS 192.

**PRE:** MUS 291

COREQ: MUS 212

#### 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 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, infor-

matics and technology, professionalism, communication, leadership, and system-based practice.

**PRE:** Admission to Nursing Program

#### NUR 121 Nursing 1

8 cr, 5 lec, 3 lab, 4.5 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, 5 lec, 9 clin

Concepts of nursing care of (1) individuals with commonly occurring health care needs and (2) individuals and families experiencing child-bearing. Students will apply the nursing process in the care of individuals of all ages in defined settings.

**PRE:** BIO 202 and NUR 117 and NUR 121

COREQ: PSY 101 and FAS/PSY 238

#### NUR 221 Nursing 3

8 cr, 5 lec, 9 clin

Concepts of nursing care of (1) individuals and families with increasingly complex health care needs and (2) and individuals and families with mental health care needs. Students will apply the nursing process in the care of individuals of all ages in defined settings..

**PRE:** NUR 122 and PSY 101 and FAS/ PSY 238

COREQ: BIO 205 and ENG 102 OR

108

#### NUR 222 Nursing 4

8 cr, 4 lec, 12 clin

Concepts of nursing care of individuals, families, and groups of all ages. Students will apply (1) the nursing process in acute care and (2) concepts of leadership management in a variety of settings.

**PRE:** BIO 205 and ENG 102 OR 108 and NUR 221

**COREQ:** MAT 142 or approved higher level math and one arts or humanities course

### 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.

# 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, testtaking 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 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 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.

# PCT 115 Plumbing Drain, Waste, and Venting Systems

3 cr, 2 lec, 2 lab

Design and installation of drain, waste and vent (DWV) systems.

### 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.

# PCT 210 Plumbing Fixture and Appliance Installation

4 cr, 3 lec, 2 lab

Techniques for installing residential fixtures, faucets, and appliances.

#### 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 153 Theory and Technique of Esports

2 cr, 1 lec, 2 lab

Course focuses on the learning the skills required of players, teams, and coaches to successfully develop teams and execute game strategy for current popular esports titles.

# 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 225 Sports: A Global Force

3 cr, 3 lec

This course will address the globalization mechanisms, political conditions, contemporary sport culture, international league expansions and governing bodies that have contributed to financially significant business and the force behind a world-wide sports obsession.

# 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 115 Mental Conditoning for Sports

3 cr, 2 lec, 2 lab

Develop fundamental mental skills necessary for an athlete to move more successfully through their sport.

# PEM 125 Foundations of Sports Management

3 cr, 3 lec

This course will provide students with an overview of the sports industry and issues facing sports organizations both professional and recreational. Students will learn the management skills such as budgeting, communication and staffing. They will also become familiar with the career opportunities available in the sports management.

### PEM 135 Sports Marketing

3 cr, 3 lec

This course will provide a general overview of marketing in the sports industry. The 3 P's of marketing and product distribution will also be covered. This course will also cover electronic media, public relations, the legal aspects of marketing and their effect on management.

# PEM 201 The Business of Athletic Coaching

3 cr, 3 lec

Fundamentals of coaching theory, concepts and practices for effective sports programs.

### PEM 202 Sports Injury Management

3 cr, 2 lec, 2 lab

This course provides the learner with information and techniques needed to understand sports injuries and rehabilitation.

### 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 Sports

3 cr, 3 lec

Fundamental techniques, organization, and strategy for coaching selected team sports.

# PEM 206 Team Sports Officiating

3 cr, 2 lec, 2 lab

. Familiarization with and application of the rules of team sports (football, volleyball, basketball, baseball, soccer and softball) 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 207 Domains of Athletic Training

3 cr, 1 lec, 4 lab

Overview of the six domains of athletic training for students with a high interest in becoming a certified athletic trainer. Includes injury prevention; clinical evaluation and diagnosis; immediate care; treatment, rehabilitation and reconditioning; organization and administration; and professional responsibility.

**PRE:** instructor permission required

# 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.

# 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** coures 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.  $\bf R$ 

#### 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 105 Workplace Wellness

1 cr, .5 lec, 1 lab

Course is designed to improve the wellness of campus employees through developing positive lifestyle habits. **CR/NC, OE/OE** 

### 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 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.

### 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.

### 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.

# PER 113 Strength and Conditioning Training

2 cr, 1 lec, 2 lab

Instruction and application of various (sport specific) methods used to increase strength and improve the physical condition of the first year college athlete.  $\bf R$ 

#### 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.

#### 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.

# PER 116 Speed and Agility Training

2 cr, 1 lec, 2 lab

This class will provide instruction and practice in the skills and understanding of conditioning and agility training for the college athlete. **R** 

### PER 117 Smart Cycling

1 cr, 1 lec, 1 lab

This course is designed for the novice rider. In this course students will learn all aspects of safety including choosing the right cycle and equipment. This course will also cover how cycling can be an important part of a healthy lifestyle.

#### 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.

### 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.

### 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.

#### PER 135 Basketball

1 cr, .5 lec, 1 lab

Designed for individuals interested in acquiring the knowledge and techniques required for participation in basketball.

# PER 136 Fundamentals of Basketball

2 cr, .5 lec, 1.5 lab

Designed for individuals interested in acquiring the knowledge and technique required for participation in basketball on a collegiate or recreation team.

#### PER 137 Volleyball

1 cr, .5 lec, 1 lab

Designed for individuals interested in acquiring the knowledge and techniques required for participation in volleyball.

#### 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.

#### **PER 143** Golf 1

1 cr, .5 lec, 1 lab

Introduction to golf for the beginner. Includes grip, stance, swing, putting, and rules.

#### 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.

#### 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.

#### **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.

**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.

#### PER 148 Karate 2

1 cr, .5 lec, 1 lab

Continuation of PER 147 Karate 1. Includes intermediate level katas (combination of movements).

**PRE:** PER 147

### PER 150 Hapkido

2 cr, 1 lec, 2 lab

Introduction to various strategies and self-defense techniques applied in Hapkido system.

#### 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.

#### 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.

### 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.

#### 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.

### 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.

**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 Beginning Resistance Training

2 cr, 1 lec, 2 lab

Instruction and practice for the novice in the skills and understanding of resistance training. **R** 

### PER 171 Intermediate Resistance Training

2 cr, 1 lec, 2 lab

The student will apply the skills and understanding developed in Beginning Resistance Training in a more advanced program. Must have a sufficient period of time to develop a structural foundation before taking this course and a strong understanding of muscle groups. **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

2 cr, 1 lec, 2 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: Cheerleading

1 cr, .5 lec, 1 lab

Prepares individuals for competing in their first year at the collegiate level in cheerleading.

**COREQ:** Team member

### PER 188 Varsity Sports: Dance Team

1 cr, .5 lec, 1 lab

Course will provide the students with the fundamentals required to become part of a competitive dance team.

# 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 or COREQ: WED 110

# PER 213 Strength and Conditioning Training

2 cr, 1 lec, 2 lab

Instruction and application of various (sport specific) methods used to increase strength and improve the physical condition of the college athlete in their second year of training. **R** 

# PER 216 Speed and Agility Training

2 cr, 1 lec, 2 lab

This class will provide instruction and practice in the skills and understanding of conditioning and agility training for the second year college athlete. **R** 

# 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.

#### PER 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

### 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 Advanced Resistance Training

2 cr, 1 lec, 2 lab

Application of the skills and understanding developed in Beginning and Intermediate Resistance Training in a resistance program designed for maxi-

mum muscular endurance, strength, and power and hypertrophy gains. **R** 

**PRE:** PER 170 and PER 171

### 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

2 cr, 1 lec, 2 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: Cheerleading

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

# PER 288 Varsity Sports: Dance Team

1 cr, .5 lec, 1 lab

Course will provide the students with the skills needed to become a part of a competitive dance team in their second collegiate year.

**PRE:** PER 188

# PHI 101 SUMB PHI 1101 Introduction to Philosophy

3 cr, 3 lec C, G, H

This course examines the central issues and literature in philosophy. Subjects will include, but are not limited to: God and human nature, mind and free will, knowledge and reality, ethics and the good life, justice and the ideal state. The emphasis is primarily placed on the Western philosophical tradition.

# PHI 103 SUMB 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.

# PHI 105 SUNE PHI 1105 Introduction to Ethics

3 cr, 3 lec C, G, H, WI

Explores the nature and development of moral philosophy from the ancient Greeks to the present day. The major systems of ethics are presented and then applied in various ways to a range of contemporary moral issues and dilemmas. The course is designed to enhance students' sophistication in thinking about difficult moral and social questions.

PRE: ENG 101 or 107

### PHI 210 Philosophy of Science

3 cr, 3 lec H

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 or 107

#### 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 or 107

# PHI 233 Philosophy of Religion (same as REL 233)

3 cr, 3 lec C, G, H, WI

This course is a critical examination of religious claims and phenomena. Topics include, but are not limited to: the nature and existence of God; the epistemology of religious belief; the possibility of miracles, life after death, and mystical experience; as well as the interrelationship between ethics, values, and religion.

**PRE:** ENG 101 or 107

# PHI 240 Ancient Philosophy 3 cr, 3 lec C, H, WI

Examines the contributions made by ancient Greek and Roman thinkers to the western philosophical and scientific tradition. A broad range of topics will be covered including: the universe, law, justice, knowledge, virtue, happiness, death, and god. Emphasis will be placed on the writings and thought of Socrates, Plato, and Aristotle.

**PRE:** ENG 101 or 107

### PHI 257 Social and Political Philosophy

(same as POS 257)

3 cr, 3 lec C, G, H, WI

Examines competing conceptions of the just and ideal state, the nature civic virtue, the foundations of state authority, the relationship between economic and political systems, especially insofar as these systems either conduce to or resist the disenfranchisement among members of social groups, as well as what principles are needed to bring about social justice, uphold equality, and respect human rights. Emphasis will be placed on the analysis of influential texts taken from both classical and modern works of political and social philosophy.

PRE: ENG 101 or 107

### PHY 111 SUME 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:** One of the following requirements: MAT 150 or MAT 187; MAT 183 and MAT 151

**NOTE:** Credit cannot be received in both PHY 111 and PHY 121

### PHY 112 SUME PHY 1112 College Physics II

4 cr, 4 lec, 2 lab G

Introduction to electricity and magnetism, optics, and modern physics.

**PRE:** PHY 111

### PHY 121 SUNCE PHY 1121 University Physics I

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

PRE or COREQ: MAT 230

# PHY 131 SUMB PHY 1131 University Physics II

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

PRE or COREQ: MAT 241

# PIT 100 IT Support: Technical Support Fundamentals

2 cr, 2 lec, 1 lab

Introduction to computer hardware, the Internet, computer software, troubleshooting, and customer service.

# PIT 101 IT Support: Computer Networking

3 cr, 3 lec, 1 lab

Fundamentals of modern networking technologies and protocols, practical applications, network troubleshooting, and an overview of the cloud.

# PIT 102 IT Support: Operating Systems

3 cr, 3 lec, 1 lab

This course will provide students with a working knowledge of the main components of an operating system, how to perform critical tasks such as managing software and users, and configuring hardware.

PRE: None

# PIT 103 IT Support: System Administration

2 cr, 2 lec, 1 lab

Students will learn about systems infrastructure and the services that keep organizations operational. The course content will cover cloud infrastructure, managing cloud resources, managing and configuring servers, the use of industry tools to manage computers, user information, and user productivity, as well as how to recover an organization's IT infrastructure.

# PIT 104 IT Support: IT Security and Google Certification

2 cr, 2 lec, 1 lab

This course introduces students to threats and attacks, encryption algorithms and utilizing algorithms to safeguard data; information security: authentication, authorization, and accounting; network security solutions and in-depth security architecture, and creating a culture of security in an organization.

PRE: None

### PIT 130 Amazon Web Services Academy Cloud Foundations

2 cr, 1 lec, 1 lab

Fundamentals of building IT infrastructure on Amazon Web Services (AWS). Optimizing the use of AWS Cloud through the development of an understanding of AWS services, best practices, and how they fit into cloud-based solutions.

### PIT 131 Amazon Web Services Cloud Architecting

3 cr, 2 lec, 2 lab

Design patterns for architecting optimal IT solutions on AWS as well as troubleshooting AWS strategies and services.

**PRE:** PIT 130

# PLB 101 Phlebotomy Technician Training

6 cr, 4 lec, 2 lab, 3 Clin

Students will gain skill development in the performance of a variety of blood collection methods using proper venipuncture techniques and standard precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture, and specimen collection on adults.

**PRE:** Admission into the Phlebotomy Technician Program

PRE/COREQ: AHE 101 and BIO 160

### 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.

### PLS 110 Chemical Applications Using Integrated Pest Management

2 cr, 2 lec

To introduce students to the world of chemical application emphasizing the importance of integrated pest management. Students will accomplishing this through laws and regulations governing chemical applications, drift management, crop protection, application equipment, and personal safety.

### 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 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 agromonic pests and an introduction to major pests and control measures in the Colorado River Valley.

### PLS 211 Soils

4 cr, 3 lec, 3 lab G

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.

**Note:** PLS 100 or other 100 level science course recommended

### PLS 220 Crop Water Use, Evapotranspiration, and Irrigation

3 cr, 3 lec

To introduce the history and modern uses of irrigation, understanding of the basic concepts and definitions of the industry, utilization of soil and crop knowledge to select efficient systems, and the use of basic knowledge of water hydraulics.

### PLS 230 Basic Soil Fertility

3 cr, 3 lec

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

3 cr, 3 lec

To prepare the student with knowledge and skills in sexual and asexual propagation of crops to include genetics and breeding practices, propagation techniques, and technology.

### 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.

**Note:** PLS 100 and MAT 121 or approved higher level math 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.

### POS 110 SUME 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 or 107

# POS 120 SUME 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 or 107

### POS 130 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 or 107

### POS 140 SUNE

# 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 or 107

# 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 C, G, H, WI

Examines competing conceptions of the just and ideal state, the nature civic virtue, the foundations of state authority, the relationship between economic and political systems, especially insofar as these systems either conduce to or resist the disenfranchisement among members of social groups, as well as what principles are needed to bring about social justice, uphold equality, and respect human rights. Emphasis will be placed on the analysis of influential texts taken from both classical and modern works of political and social philosophy.

**PRE:** ENG 101 or 107

### PSY 101 SUMB 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.

### **PSY 140** Positive Psychology

3 cr, 3 lec C

This course provides an overview and application of psychological principles based on resilience and happiness of human beings. This course focuses on individual strengths as opposed to dysfunction and symptoms of mental disorders in order to understand human growth and development. Topics include happiness, relationships, mindfulness, well-being, and research supporting the application of methods that increase happiness.

# 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:** 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, con-

fidence intervals, correlation, simple linear regression, and analysis of variance

**PRE:** MAT 142 or approved higher level math

# PSY 238 Human Development (same as FAS 238)

3 cr, 3 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 or 107

### 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 ill-

ness. 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

### PSY 290 Introduction to Research Methods in the Social Sciences

SUN# PSY 2290

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 or 107 and PSY 101 and SOC 101

PRE/COREQ: PSY 230 or MAT 270

### PSD 152 Basic Public Safety Dispatcher

12 cr, 10 lec, 4 lab

The Public Safety Dispatcher Course exists to provide newly selected public safety dispatchers with an initial orientation and basic training. The instructional content and teachings methodologies in this course are present to better train new students in the increasingly complex role and function of the public safety dispatcher. Effective initial training is critical for public safety dispatchers to acquire the necessary skills, knowledge, and abilities in order to provide quality service to the public and the law enforcement agencies they serve. Introduces new dispatchers to the basic requirements of their jobs and meets the requirements of Post mandated training for entry level dispatchers.

**PRE:** 18 years old or older, high school diploma or GED, and background investigation

### QBA 211 SUNG 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 150 or 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

**NOTE:** RAD 101 maybe equivalent to one or more RAD courses with instructor approval

### 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

**NOTE:** RAD 102 maybe equivalent to one or more RAD courses with instructor approval

### 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 or COREQ:** RAD 105 and current enrollment in the Radiologic Technology program

# RAD 110 Patient Care in Imaging Technology

3 cr, 3 lec

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 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:** approved medical and law enforcement personnel

# 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 and status as second year rad tech student

### 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 and have a status as second year rad tech student

### 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 placement test scores or ESL 94R or ESL 94G and ESL 94S or ESL 94B

### **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** 

### **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.

# REL 201 Comparative World Religions

3 cr, 3 lec C, G, H, WI

This course examines the historical origins and settings, central doctrines and practices, and cultural impact and significance of the major living religions. Primary topics include, but not limited to: Hinduism, Buddhism,

Judaism, Christianity, and Islam.

**PRE:** ENG 101 or 107

# REL 210 Introduction to the Old Testament (Hebrew Bible)

3 cr, 3 lec C, G, H

This course examines the literature, history, geography, archeology, theology, composition, incorporation, canonization, interpretation, transmission, and translation of the Old Testament (i.e., The Hebrew Bible) down through the centuries. Emphasis is placed on investigating the historical and literary context out of which the writings emerge and their influence on religious life and practice throughout the ages.

**PRE:** ENG 101 or 107

# REL 220 Introduction to the New Testament

3 cr, 3 lec C, G, H

This course examines the literature, history, geography, archeology, theology, composition, incorporation, canonization, interpretation, transmission, and translation of the New Testament down through the centuries. Emphasis is placed on investigating the historical and literary context out of which the writings emerge and their influence on religious life and practice throughout the ages.

**PRE:** ENG 101 or 107

# REL 233 Philosophy of Religion (same as PHI 233)

3 cr, 3 lec C, G, H, WI

This course is a critical examination of religious claims and phenomena. Topics include, but are not limited to: the nature and existence of God; the epistemology of religious belief; the possibility of miracles, life after death, and mystical experience; as well as the interrelationship between ethics, values, and religion.

**PRE:** ENG 101 or 107

### SEI 293 Structured English Immersion (SEI) for English Language Learners (same as EDU 293)

3 cr, 3 lec

Instructional techniques, strategies, and theories regarding the English Language Learner (ELL) in the educational system.

### SEI 294 Structured English Immersion (SEI) Endorsement Training for Teachers (Completion Course)

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 201** English Grammar for Teachers

(same as EDU 201)

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 SUM 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.

### 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.

# 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, contraception and abortion, sexual assault, and pregnancy and birth.

**PRE:** 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

# SOC 240 SUNE 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

# 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 95 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 96** Beginning Conversational Spanish 2

3 cr, 3 lec

A continuation of SPA 95. Basic communication skills with emphasis on oral communication. Grammar is taught only as it will facilitate conversation.

PRE: SPA 95

# SPA 97 Intercambio/Conversation Exchange 1

1 cr, 1 lec

Intercambio/Conversation Exchange focuses on true conversational practice of English and Spanish between native Spanish speakers and native English speakers. Students of each language background will practice their target language with native speakers in groups and/or pairs.

PRE: SPA 95 or SPA 101

### SPA 101 SUM 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 SUND 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 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 SUMS 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 SUM 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 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 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 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 202 or 204 or near-native fluency in Spanish or high school equivalency from a Spanish speaking country

**NOTE:** All course work is in Spanish

# **SPA 281** Mexican American History

3 cr, 3 lec C, H, WI

The history of Mexican Americans, covering the Mesoamerican civilizations to the present time.

PRE: ENG 101 or 107

### SPC 110 SUME 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.

### 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.

# SPC 271 SUMB COM 2271 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.

### TEC 100 Core Curriculum Introductory Craft Skills

5 cr, 5 lec

Development of skills and techniques necessary for basic construction/ industrial maintenance craft skills and Occupational Safty and Health Standards.

### 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.

**NOTE:** TEC 105 maybe equivalent to one or more TEC courses with instructor approval

### TEC 125 10-Hour OSHA Construction Card

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 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 173 Google IT Automation with Python Professional

1 cr, 1 lec, 1 lab

This course is designed to provide the foundations of writing simple programs in Python using the most common structures, an overview of automatic testing, process data and generating automatic reports, setting up developer environments, and tracking different versions of code and configuration files.

### TEC 174 IBM Cybersecurity Analyst Introduction

3 cr, 3 lec, 1 lab

This course is designed to provide students the technical skills to become job-ready for a cybersecurity analyst role. Concepts include network security, endpoint protection, incident response, threat intelligence, penetration testing, and vulnerability assessment.

# 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.

# 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.

### THE 110 Stage Management

3 cr, 2 lec, 2 lab

Techniques, communication, methodology, resources, practices, and technical training for the stage manager: this course will introduce the principles and practices of theatrical stage management. Industry-standard vocabulary will be taught and used with proficiency. The course is intend-

ed to accommodate special interests and needs in use and development of local staging facilities.

### 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 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** 

### TRB 070 Tribal Languages

1-3 cr, 1-3 lec

Introduction to Tribal languages. Students will learn vocabulary, basic grammatical structures, useful phrases and sentences related to daily life.

### 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 prep-

aration 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

### UAS 101 Unmanned Aerial Systems Pilot Ground School

3 cr, 3 lec

The course provides the background required by the Federal Aviation Administration (FAA) in subject areas including: aerodynamics, aircraft performance, navigation, weather, and aviation regulations leading to pilot certification. Ground school preparation towards the Private Pilot and Unmanned Aerial Systems (UAS) Certificates.

### UAS 102 Unmanned Aerial Systems Image Analysis and Visualization

3 cr. 3 lec

This course is designed to develop image analysis skills to create 3-D visualizations for 3-D modeling.

**PRE:** UAS 100

### UAS 103 Unmanned Aerial Systems Flight Operations and Planning

3 cr, 2 lec, 2 lab

This course instructs the student in the operations and flight planning to include both fixed wing and rotor wing Unmanned Aerial Systems (UAS) aircraft.

PRE: UAS 100

### 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 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 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 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 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.

### 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.

### 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 107 Basic Shop Tools & Welding for Beginners

2 cr, 2 lec, 1 lab

Skills and techniques necessary for the industrial practice of welding processes.

# 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.

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.

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 201 Automation for Metals Joining and Severing Processes

4 cr, 2 lec, 4 lab

A study in the basic operation of manufacturing robotic welding and cutting equipment applications using the GMAW (Gas Metal Arc Welding) and PAC (Plasma Arc Cutting) processes.

COREQ: WLD 109

# 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.

COREQ: WLD 109

### WLD 261 Special Projects

.5 cr, 1 lab

Structured environment allowing the student the opportunity to define learned skill sets from previous welding courses. Tailored around the interests and needs of the individual with guidance from professional staff.

Faculty

### FACULTY

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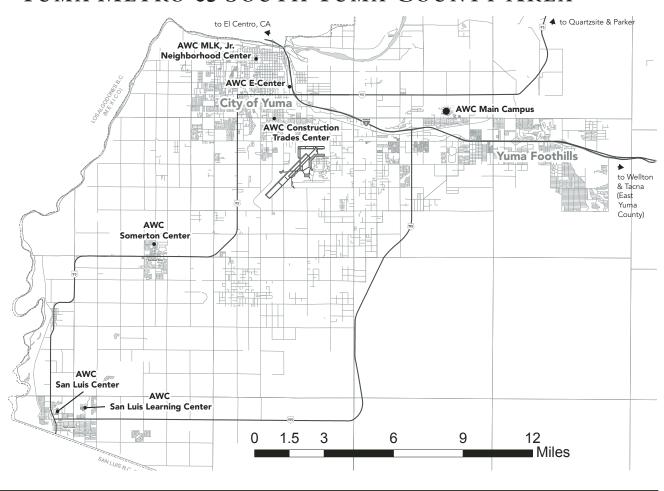
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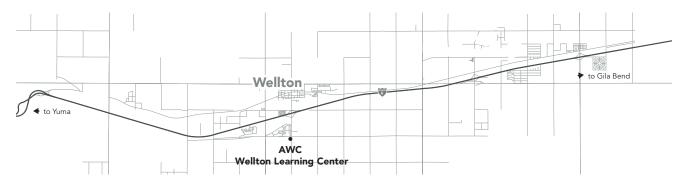
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# Campus Maps/Centers

## YUMA METRO & SOUTH YUMA COUNTY AREA

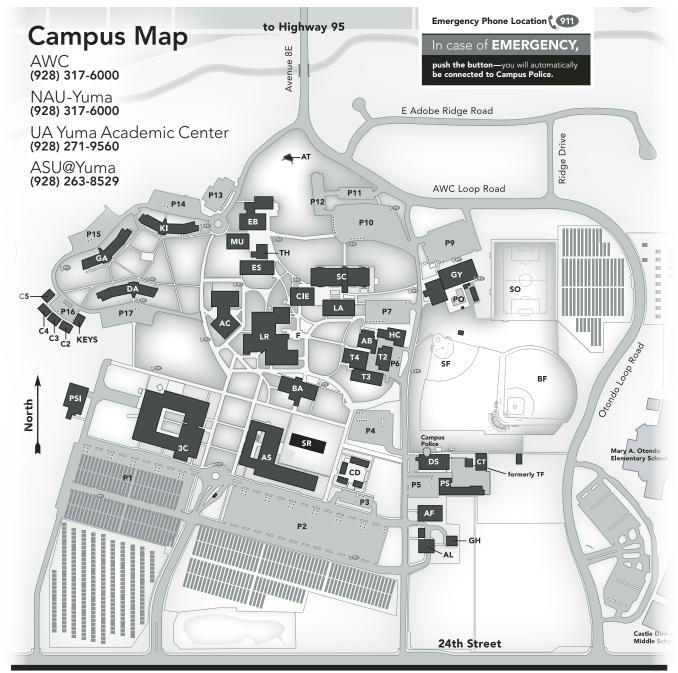


### EAST YUMA COUNTY AREA



# La Paz Area





	(Schoening Conference Center)
AB	Art Building
AC	Academic Complex
AF	Athletics Facility
AL	Agriculture Research Lab
AS	Agriculture and Science
AT	Amphitheater
BA	Business Administration
BF	Kammann Baseball Field
C 2-5	Cottages 2–5
CD	Child Development Learning Lab
CIE	Center for Instructional Excellence
СТ	Construction Trades (Construction, HVAC)
DA	DeAnza Dorm

College Community Center

EB	Engineering Building
ES	Educational Services
F	Fountain
GA	Garces Dorm
GH	Greenhouse Complex
GY	Gymnasium "The House"
HC	Heating and Cooling
KEYS	KEYS Building (TRIO KEYS Program)
KI	Kino Dorm
LA	Liberal Arts
LR	Learning Resources
MU	Music
P1-17	Parking Lots
PO	Pool

District Services (Campus Police)

PS	Postal Services
PSI	Public Safety Institute
SC	Student Success Center (Math & Writing Centers)
SF	Charlie Dine Softball Field
SO	AWC Soccer Field
SR	NAU Research & Education
T2	Technology 2 (Welding)
Т3	Technology 3 (Auto Mechanics & Print Services Lab)
T4	Technology 4 (Computer Graphics)
TH	Theater
	Handicap Parking
<b>†</b>   <b>†</b>	Single-use Restrooms (3C, AB, EB, CD, CIE)

3C

### 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.

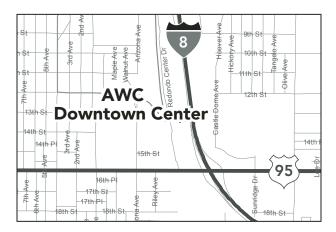
### Downtown Center

1351 S. Redondo Center Drive Yuma, AZ 85365 (928) 317-6150

### www.azwestern.edu/continuinged

Located near Historic Downtown Yuma, the Downtown 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 are located on the Arizona Western College website at **www.azwestern.edu**.

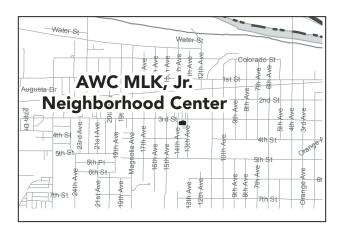
- Small Business Development Center (SBDC)
- Workforce Innovation and Opportunity Act (WIOA)
- Continuing Education Programming (Non-Credit)
  - Continuing Education Units (CEU)
  - Customized and Contract Training Services
  - Professional Development
  - Enrichment Workshops
  - Adult Basic Education Consortium Resource



### Martin Luther King, Jr. Neighborhood Center

300 S. 13<sup>th</sup> 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 9 A.M. to 1 P.M. 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 Yuma, AZ 85365 (928) 317-7605

### Yuma Proving Ground

Bldg 501 Education Center Yuma, AZ 85365 (928) 328-3926

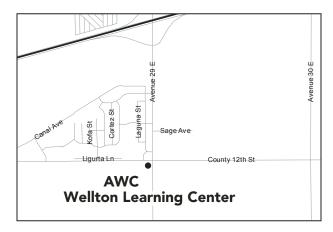
In partnership with Marine Corps Air Station Yuma and Yuma Proving Ground, AWC provides comprehensive student services for the members of the Department Defense at the military installations. Various classes are offered at these locations to meet the unique needs of military students. Please refer to the AWC website "Schedule of Classes" for current course listings.

### East Yuma County

### Wellton Learning Center

28851 County 12<sup>th</sup> 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

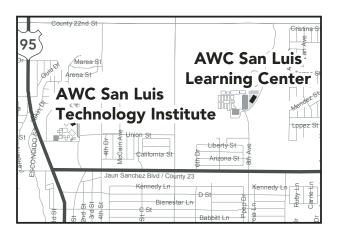
### San Luis Technology Institute

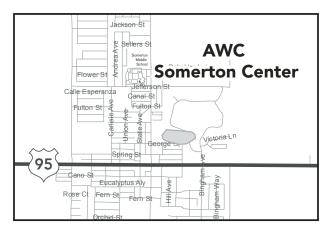
1135 N. Main Street San Luis, AZ 85349 (928) 314-9438

### 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

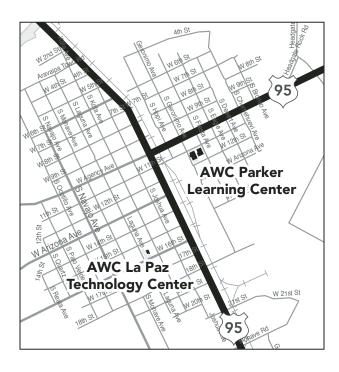
1109 S. Geronimo Parker, AZ 85344 (928) 669-2214

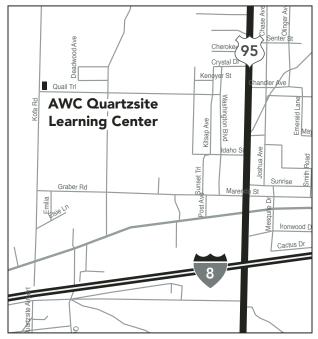
### **Quartzsite Learning Center**

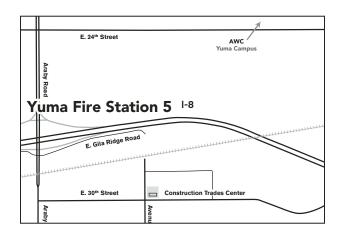
695 N. Kofa Avenue Quartzsite, Arizona 85346 (928) 927-8299

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.







### Yuma Fire Station 5

6490 E 26th St Yuma, AZ 85365 (928) 373-4850

### Arizona State Prison Complex,

7125 East Cesar Chavez Blvd Yuma, AZ 85365

### AWC LETA Facility

1280 W. Desert Hills Drive Yuma AZ 85364

### Aztec High School

2440 West 28th Street Yuma, AZ 85364

### Massage Therapy Center

2451 South Avenue A Yuma AZ 85364

### Quartzsite Fire Station

70 Tyson Street Quartzsite, AZ 85346

### **STEDY**

899 East Plaza Circle Yuma, AZ 85365

### Vista High School

3150 South Avenue A Yuma, AZ 85364

### Yuma Catholic High School

2100 West 28th Street Yuma, AZ 85364

# Comprehensive Index

## Comprehensive Index

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