Academic Catalog
2025-2026

W TRANSFER CENTER

ARIZONA WESTERN COLLEGE

On the cover:

AWC Transfer Center

The AWC Transfer Services department has made significant strides this year, achieving key milestones that have enhanced the transfer experience for our students. One of the most notable accomplishments is the expansion and relocation of the department to a new center, designed to better meet the evolving needs of our community and students. This new facility introduces a unique, one-stop-shop model for transfer services, providing students with comprehensive support throughout their transfer journey. It is the only center of its kind in the state, featuring dedicated spaces for Arizona Western College (AWC) personnel and university representatives from each of Arizona's three state universities. This allows for personalized assistance with transfer information, degree options, university selections, and scholarship opportunities.

Arizona Western College

P.O. Box 929
Yuma, Arizona 85366-0929

2020 S. Avenue 8E
Yuma, Arizona 85365-8834

(928) 317-6000

(888) 293-0392

www.azwestern.edu

About the 2025–2026 AWC Catalog

The contents of this catalog supercedes the content specified in the 2024–2025 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:

Katheline Ocampo
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 *http://azwestern.edu/accessability.*

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:

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Chief Human Resources Officer
P.O. Box 929
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(928) 344-7505

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

Katheline Ocampo	**Dr. Nikki Hage**
PO Box 929, Yuma, AZ, 85366-0929,	PO Box 929, Yuma, AZ, 85366-0929,
(928) 344-7505	(928) 344-7576
Email: AWC-Title-IX@azwestern.edu	Email: AWC-Title-IX@azwestern.edu
Web: *https://azwestern.edu/titleix*	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! The faculty and staff of AWC are looking forward to working with you to 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 more than fifty 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;

- 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

Dr. Daniel P. Corr

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 *https://www.azwestern.edu/course-catalog.*

The History of Arizona Western College

Campus in the early years:
AWC Historical Photo Archive

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

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

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

The College has grown substantially since it opened. The College district encompasses 10,037 square miles, the size of the original Yuma County; however, in 1983, northern Yuma County voted to form its own county, creating La Paz County. Thus, the college district now serves two counties with a population in excess of 200,000. Because of the large district, residence halls were built to better serve the students living beyond commuting distance. More buildings were built as the need arose and capital funds were available.

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

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

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

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

Academic Calendar 2025–2026

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

Fall Semester 2025

Classes Begin................................. Monday, August 18

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

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

Last Day to Withdraw...................... Friday, November 7
(16 week classes)

Veterans Day..**No Classes**
Tuesday, November 11

Thanksgiving Day.......................................**No Classes**
Thursday–Sunday
November 27–30

Last Day of Classes......................... Friday, December 5

Final Examination Week........................ Monday–Friday,
December 8–12

Spring Semester 2026

Classes Begin................................ Monday, January 12

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

Birthday of Martin Luther King Jr. .... Monday, January 19

President's Day..**No Classes**
Monday, February 16

Spring Break ....**No Classes**
Monday–Sunday, March 30–April 5

Last Day to Withdraw........................... Friday, April 10
(16 week classes)

Last Day of Classes.................................. Friday, May 8

Final Examination Week........................ Monday–Friday,
May 11–15

Commencement .... Friday, May 15

AWC Mission

Transforming lives through education and partnerships to create thriving communities.

TABLE OF CONTENTS

General Information

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.

Executive Order 13607

Principles of Excellence Demonstration of Compliance

Executive Order 13607, signed April 27, 2012 by the President of the United States, established Principles of Excellence (POE) for educational institutions serving service members, veterans, spouses, and other family members. Eight Principles of Excellence are described in the Order.

Arizona Western College complies with Executive Order 13607, the Principles of Excellence. Demonstration of compliance is provided on the Military & Veteran Services website **www.azwestern.edu/mvs**

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

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.

The college learning environment is one of adult interaction where students will be exposed to concepts and materials that are designed for adults and adult audiences. At AWC, there is unrestricted internet access.

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 documentation of successful completion of secondary education 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)

- Varicella (Chickenpox)

- Td (Tetanus, Diphtheria)

- Hepatitis A

- Hepatitis B

- Meningitis (Meningococcal ACWY)

- Polio

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 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.

- The student must live within 75 miles of where the school is located.

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 immediately 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)

- Varicella (Chickenpox)

- Td (Tetanus, Diphtheria)

- Hepatitis A

- Hepatitis B

- Meningitis (Meningococcal ACWY)

- Polio

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.

G. Former Student Admissions

Former students returning to the college after an absence of more than 12 months 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 pay-

ment 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, the National Oceanographic and Atmospheric Association, Space Force, National Guard, and Reserve Components.

"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 in-state student until the person is domiciled in this state for **one year**, except that a person whose domicile is in this state is entitled to classification as an in-state student if the person meets one of the following requirements 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 non-certified classroom aide, at a school within that school district. For purposes of this paragraph, the person is eligible for classification as an in-state student only for courses necessary to complete the requirements for certification by the state board of education to teach in a school district in this state. No member of the person's family is eligible for classification as an in-state student if the person is eligible for classification as an in-state student pursuant to this paragraph.

4. The person's spouse has established domicile in this state for at least one year and has demonstrated intent and financial independence and is entitled to claim the student as an exemption for state and federal tax purposes or the person's spouse was temporarily out of state for educational purposes, but maintained a domicile in this state. If the person is a non-citizen, the person must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.

C. The domicile of an unemancipated person is that of such person's parent.

D. Any unemancipated person who remains in this state when such person's parent, who had been domiciled in this state, moves from this state is entitled to classification as an in-state student until attainment of the degree for which currently enrolled, so long as such person maintains continuous attendance.

E. A person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders or who is the spouse or a dependent child as defined in section 43-1001 of a person who is a member of the armed forces of the United States and who is stationed in this state pursuant to military orders is entitled to classification as an in-state student. A spouse or dependent child does not lose in-state student classification under this subsection if the spouse or dependent child qualifies for in-state tuition classification at the time the spouse or dependent child is accepted for admission to a community college under the jurisdiction of a community college district governing board or a university under the jurisdiction of the Arizona Board of Regents. The student, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification.

F. A person who is a member of the armed forces of the United States or the spouse or a dependent as defined in section 43-1001 of a member of the armed forces of the United States is entitled to classification as an in-state student if the member of the armed forces has claimed this state as the person's state of legal residence for at least twelve consecutive months before the member of the armed forces, spouse or dependent enrolls in a university under the jurisdiction of the Arizona Board of Regents or a community college under the jurisdiction of a community college district governing board. For purposes of this subsection,

the requirement that a person be domiciled in this state for one year before enrollment to qualify for in-state student classification does not apply.

G. A person who is honorably discharged from the armed forces of the United States shall be granted immediate classification as an in-state student on honorable discharge from the armed forces and, while in continuous attendance toward the degree for which currently enrolled, does not lose in-state student classification if the person has met all of the following requirements:

1. Declared Arizona as the person's legal residence with the person's branch of service at least one year prior to discharge from the armed forces.

2. Demonstrated objective evidence of intent to be a resident of Arizona which, for the purposes of this section, includes at least one of the following:

> **(a)** An Arizona driver's license
>
> **(b)** Arizona motor vehicle registration
>
> **(c)** Employment history in Arizona
>
> **(d)** Arizona voter registration
>
> **(e)** Transfer of major banking services to Arizona
>
> **(f)** Change of permanent address on all pertinent records
>
> **(g)** Other materials of whatever kind or source relevant to domicile or residency status.

3. Filed an Arizona income tax return with the department of revenue during the previous tax year.

H. A person who is a member of an Indian tribe recognized by the United States Department of the Interior whose reservation land lies in this state and extends into another state and who is a resident of the reservation is entitled to classification as an in-state student.

Alien In-State Student Status

A. According to A.R.S. 15-1803 an alien is entitled to classification as an in-state refugee student if such a person has been granted refugee status in accordance with all applicable laws of the United States and has met all other requirements for domicile.

B. In accordance with the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (P.L. 104-208l; 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 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.

Non-Citizen Arizona High School Graduates - Proposition 308 (Prop 308)

In November 2022, Arizona voted to support Proposition 308, which allows for qualifying, non-citizen Arizona high school graduates to receive in-state tuition at Arizona universities and community colleges.

Questions regarding Proposition 308 or citizenship requirements may be directed to the Admissions and Registration office at (928) 344-7550.

Note: Qualifying students paying out-of-state tuition may be eligible for a partial refund

Who is eligible?

A qualifying non-citizen student, other than the nonimmigrant aliens described under 8 U.S. Code § 1101(a)(15), are eligible for in-state tuition under Prop. 308, regardless of immigration status, if the student meets both of the following criteria:

The student attended any public or private high school or homeschool equivalent while physically present in Arizona for at least two years; and

The student graduated from any public or private high school or homeschool equivalent in Arizona or obtained a high school equivalency diploma in Arizona, i.e., a GED.

Required Documents:

Arizona High School Transcript, Arizona Diploma or GED Equivalent

State-Funded Financial Aid:

Additionally, Proposition 308 allows that qualifying, non-citizens to be eligible to receive state-funded financial aid through grants, scholarships, and tuition or fee waiver programs.

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, and registration into college level classes offered at the high school (dual enrollment) or college level courses offered on campus (concurrent enrollment). See ***https://www.azwestern.edu/enrollment/dual-enrollment*** 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
Matador Activity Center (MAC), 138
(928) 344-7685
Email: *honors@azwestern.edu*
https://www.azwestern.edu/student-life/honors

Eligibility

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

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

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

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

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

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

Student-Athletes at AWC

If you are a member of a varsity sports program at Arizona Western College, please make an appointment to speak with the Student Athlete Academic Advisor 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.

Executive Order 13607

Principles of Excellence Demonstration of Compliance

Executive Order 13607, signed April 27, 2012 by the President of the United States, established Principles of Excellence (POE) for educational institutions serving service members, veterans, spouses, and other family members. Eight Principles of Excellence are described in the Order.

Arizona Western College complies with the Executive Order 13607, the Principles of Excellence, to include but not limited to the banning of fraudulent, deceitful recruitment and high-pressure tactics, clearly stated refund policies, and personalized advising. All other demonstrations of compliance is provided on the Military and Veteran Services website. www.azwestern.edu/mvs

Military and Veteran Services Office

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 TA Return of Funds Policy

Policy: In accordance with Change 4, DoDI 1322.25 (April 02, 2021) (Appendix to Enclosure 3, 4. f. (2) (d) (page 42)), "All institutions will have an institutional policy that returns any unearned TA funds on a proportional basis through at least the 60 percent portion of the period for which the funds were provided. TA funds are earned proportionally during an enrollment period, with unearned funds returned based upon when a student stops attending."

16 Week Tuition Assistance Return of Funds Schedule

Week 1	Zero % Complete	100% Return/No Billing
Week 2/3	15%	85% Return/Bill
Week 4	25%	75% Return/Bill
Week 5/6	30%	70% Return/ Bill
Week 7	40%	60% Return/Bill
Week 8	50%	50% Return/Bill
Week 9	60%	40% Return/Bill

No Return of fees beyond Week 9

8 Week Tuition Assistance Return of Funds Schedule

Week 1	Zero % Complete	100% Return/No Billing
Week 2	25%	75% Return/Bill
Week 3	37.5%	62.5% Retrun/Bill
Week 4	50%	50%
Week 5	60%	40%

No Return of Fees beyond Week 5

12 Week Tuition Assistance Return of Funds Schedule

Week 1	Zero % Complete	100% Return/No Billing
Week 2	10%	90% Return/Bill
Week 3	20%	80% Return/Bill
Week 4	30%	70% Return/Bill
Week 5	40%	60% Return/ Bill
Week 6	50%	50% Return/Bill
Week 7	60%	40% Return/Bill

No Return of Fees beyond Week 7

All courses 4 Weeks or less will not be eligible for a return of fees.

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 , also referred to as Joint Service Transcripts or JST's. 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.

Military Readmission Policy

At Arizona Western College, service members and reservists are allowed readmittance into their selected program upon return from duty, given that the program is not mandated by state licensure requirements, by which the readmittance will be in accordance with such policies. If a service member is temporarily unable to attend class or has to suspend their studies due to service requirements for a shortened period of time, service members should work with the Military & Veteran Services office to obtain an

incomplete (I) from their instructor, or other accommodations as allowed by the instructor and not in violation of Executive Order 13607 and SB 1406.

Veteran Affairs Recipients

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

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, with[1]drawn, no-show, or cancelled courses. To submit an online Enrollment Certification Request, visit **https://www.azwestern.edu/ veteran-services**

"GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by VA is available at the official U.S. government Web site at **http://www.benefits.va.gov/gibill/.**

All students using Veterans Affairs educational benefits need to verify their enrollment with the Veteran Services Of- fice 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, with[1] drawn, no-show, or cancelled courses. To submit an online Enrollment Certification Request, visit **https://www. azwestern.edu/veteran-services**

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.

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 in-person, if the student wants to receive his/her educational benefits for a developmental (remedial) course.

Transfer of Previously Earned Credit

Veterans Affairs requires that all students receiving educational benefits have their "prior military and/or college experience" evaluated for credit toward the objective at Arizona Western College. 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 submitted. 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

Disclaimer: All external credits evaluated and posted onto Arizona Western College transcripts are considered a permanent record. 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. Also for Foreign College or University credits student needs to provide a course syllabus or course description in English for each class.

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 *http://www2.ed.gov/admins/finaid/accred/accreditation_pg6.html*

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

International Educational Equivalency Evaluation Services Inc.
http://edevals.com/about.html
Phone Number: (414) 319-5000

Transcript Research
http://transcriptresearch.com
Phone Number: (214) 810-1124

Span Tran the Evaluation Company
https//www.spantran.com
Phone Number: (713) 266-8805

ACEI Academic Credentials Evaluation Institute, INC
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 submitted. External credits will be posted in the first semester the student is registered for and/or completes at AWC.

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.

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.

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 15 credit hours at registered classes at AWC 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 equiv-

alent 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)
2D Art and Design	4	ART 101
3D Art and Design	4 or 5	ART 102
Art History	3	ARH 141 or ARH 142
Art History	4 or 5	ARH 141 & ARH 142
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.

General Education Category	Score	AWC Equivalent(s)
Calculus BC	3	MAT 220
Chemistry	4	CHM 151
Chemistry	5	CHM 151 & CHM 152
Comparative Govt. & Politics	4 or 5	POS 140
Computer Science A	4 or 5	CIS 220
Drawing	4 or 5	ART 111
English Language & 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 and Culture	3, 4, or 5	FRE 101 & FRE 102 & FRE 201 & FRE 202
German Language and Culture	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
Macroeconomics	4 or 5	ECN 240
Microeconomics	4 or 5	ECN 250
Music Theory	4 or 5	MUS 111 & MUS 112 & 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
Precalculus	3, 4, or 5	MAT 187
Psychology	4 or 5	PSY 101
Research	3, 4, or 5	Elective (3)
Seminar	3, 4, or 5	Elective (3)
Spanish Language	3, 4, or 5	SPA 101 & SPA 102 & SPA 201 & SPA 202
Spanish Literature and Culture	3, 4, or 5	SPA 201 & 202
Statistics	3, 4, or 5	MAT 270
US Government & Politics	4 or 5	POS 110
US History	4 or 5	HIS 121 & HIS 122
World History	4 or 5	HIS 111

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)
Art & Design -AS Level	D or Higher	ART 111
Art & Design -AS Level	E	ART 111
Art & Design -A Level	D or Higher	ART 101
Art & Design -A Level	E	ART 101
Biology -AS Level	D	BIO 100 or dept elec. (4)
Biology -AS Level	E	BIO 100
Biology -A Level	D	BIO 181 & BIO 182
Biology -A Level	E	BIO 181
Business -AS Level	D or Higher	Elective (3)
Business -AS Level	E	Elective (3)
Business -A Level	D	Elective (6)
Business -A Level	E	Elective (6)
Chemistry -AS Level	D	CHM 130
Chemistry -A Level	A	CHM 151 & CHM 152
Chemistry -A Level	B	CHM 151
Chemistry -A Level	C	CHM 151
Chemistry -A Level	D	CHM 130
Chemistry -A Level	E	CHM 130
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	C or Higher	Elective (3)
Geography -A Level	C or Higher	Elective (6)

Information Technology- AS Level D or Higher		Elective (3)
Information Technology- AS Level E		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 (4)
Mathematics -A Level	E or Higher	MAT 150 or MAT 151
Mathematics -AS Level	E or Higher	MAT 150 or MAT 151
Mathematics -Further A Level	E or Higher	MAT 220 & MAT 230 & MAT 270

College Level Examination Program (CLEP)

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

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 Course Exam Equivalents

General Education Category	Score	
American Government	50	POS 110
American Literature	55	Elective (3)
Analyzing & Interpreting Literature	50	ENG Dept Elective (3)
Business Law, Intro	50	BUA 230
Biology	50	BIO Dept Elective (3)
Calculus	50	MAT 220
Chemistry	50	CHM 151
College Algebra	50	MAT 151
College Composition	50	ENG 101 or Elective (3)
College Composition	60	ENG 101 or Elective (3)
English Literature	55	Elective (3)
Financial Accounting	50	Elective (3)
Financial Accounting	60	Elective (3)
French Language	50	FRE 101
French Language	55	FRE 101 & FRE 102
French Language	62	FRE 101 & FRE 102 & FRE 201
French Language	66	FRE 101 & FRE 102 & FRE 201 & FRE 202

German Language	39	GER 101
German Language	46	GER 101 & GER 102
German Language	51	GER 101 & GER 102 & GER 201
German Language	60	GER 101 & GER 102 & GER 201 & GER 202
History of the US I: Early Col.–1877	56	HIS 121
History of the US II: 1865–Present	56	HIS 122
Human Growth & Development	50	FAS 238 or PSY 238
Humanities	50	Arts Elective (3) & Humanities (3)
Information Systems	50	Elective (3)
Introductory Business Law	50	BUA 230
Introductory Psychology	50	PSY 101
Intro to Educational Psychology	50	Elective (3)
Introductory Sociology	50	SOC 101
Natural Sciences	53	Elective (3)
Natural Sciences	56	Elective (6)
Precalculus	50	MAT 187
Prncp. of Macroeconomics	50	ECN 240
Prncp. of Microeconomics	50	ECN 250
Principles of Management	50	MGT Dept Elective (3)
Principles of Marketing	50	MKT 110
Social Sciences & History*	56	Soc. Sci. Elective (3)
Spanish with Writing **	50	SPA 101 & SPA 102
Spanish with Writing**	55	SPA 101 & SPA 102
Spanish with Writing**	60	SPA 101 & SPA 102 & SPA 201
Spanish with Writing**	66	SPA 101 & SPA 102 & SPA 201 & SPA 202
Spanish with Writing**	68	SPA 101 & SPA 102 & SPA 201 & SPA 202
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.

** If you are transferring the CLEP exam credit to Arizona Western College the only CLEP allowed for Spanish credit is Spanish with Writing

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
Computing and Information Technology	400	CIS 120
Criminal Justice	400	AJS 101
Environmental Science	400	Elective (3)
Fundamentals of College Algebra	400	MAT 121
Fundamentals of Counseling	400	PSY Elective (3)
Fundamentals of Cybersecurity	400	Elective (3)
General Anthropology	400	ANT 100
Intro to Law Enforcement	400	AJS 230
Introduction to Business	400	BUA 100
Introduction to Geography	400	GEO 102
Lifespan Develop. Psychology	400	FAS 238 or PSY 238
Management Information Systems	400	CIS elect (3)
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)
Biology HL	5, 6, or 7	BIO 181 & BIO 182
Biology HL	4	BIO 100
Biology SL	5, 6, or 7	BIO 100
Biology SL	4	BIO Dept elective (3)
Business and Management HL	5, 6, or 7	Elective (3)
Business and Management SL	5, 6, or 7	Elective (3)
Chemistry HL	5, 6, or 7	CHM 151 & CHM 152
Chemistry HL	4	CHM 151
Computer Science HL	5, 6, or 7	CIS 220
Economics HL	5, 6, or 7	ECN 240 & ECN 250
English A	5, 6, or 7	ENG 101 or Elective (3)
French B HL	4	FRE 101
French B HL	5	FRE 101 & FRE 102
French B HL	6	FRE 101 & FRE 102 & FRE 201
French B HL	7	FRE 101 & FRE 102 & FRE 201 & FRE 202
Geography HL	5, 6, or 7	GEO 102 (3)
Geography SL	4 or higher	Dept Elective (3)
German B HL	4	GER 101
German B HL	5	GER 101 & GER 102
German B HL	6	GER 101 & GER 102 & GER 201
German B HL	7	GER 101 & GER 102 & GER 201& GER 202
History, Americas HL	5, 6, or 7	HIS 121 & HIS 122
History, Americas HL	4	HIS 121
History, Europe HL	5, 6, or 7	HIS 240 & HIS 241
History, Europe HL	4	HIS 240
History- SL	5, 6, or 7	Dept. Elective (3)
Information Technology in a Global Society SL	5 or higher	Elective (3)

Language A: Lang & Lit HL	5	ENG 101
Language A: Lang & Lit HL	6	ENG 101
Language A: Literature HL	5 or higher	ENG 101
Mathematics HL	5, 6, or 7	MAT 220
Mathematics: Analysis & Approaches HL	5, 6, or 7	MAT 220
Mathematics: Analysis & Approaches SL	5, 6, or 7	MAT 142
Mathematics: Applications & Interp HL	5, 6, or 7	MAT 142
Music HL	5, 6, or 7	MUS 111 & MUS 112 & MUS 191 & MUS 192
Physics-HL	5	PHY 111
Physics-HL	6 or 7	PHY 111 & PHY 112
Physics-SL	6 or 7	PHY 111
Psychology-HL	5	PSY 101
Psychology-HL	6 or Higher	PSY 101
Psychology-SL	4	Elective (3)
Psychology-SL	5, 6, or 7	Elective (3)
Spanish B-HL	7	SPA 101, SPA 102, SPA 201, SPA 202
Spanish B-HL	6	SPA 101, SPA 102, SPA 201
Spanish B-HL	5	SPA 101 & SPA 102
Spanish B-HL	4	SPA 101

Visual Arts HL	5, 6, or 7	ART 101 & ART 111
Visual Arts HL	4	ART 101
Visual Arts- SL	5, 6, or 7	ART 111 & ART 101
Visual Arts- SL	4	ART 111
World Religions	5, 6, or 7	Elective (3)

PLACEMENT TESTING

AWC Professors and Advisors highly recommend incoming students complete a Guided Self-Placement questionnaire which can be found on the Testing Services webpage, *www.azwestern.edu/testing*, for guided self-placement into AWC's Math and English courses. Upon completing the Guided Self-Placement questionnaire students will be presented with professors' recommendations for Math and English courses in which students are most likely to be successful.

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 *https://www.registerblast.com/azwestern/Exam/List.*

Accuplacer testing for active Military or Veteran students must be scheduled through the Military & Veteran Services Office by calling (928) 344-7622/(928) 317-7605 or by emailing veteran.services@azwestern.edu

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 ***https://www.azwestern.edu/student-support/career-services/jobs-for-matadors***

Federal and College work study policy can be found at ***https://www.azwestern.edu/enrollment/financial-aid***

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 ***https://www.azwestern.edu/enrollment/financial-aid/scholarships-and-grants***

All financial aid policies can be found at ***https://www.azwestern.edu/enrollment/financial-aid***

Program Choice & Advising

Program Choice

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

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

- Transfer degree (A.A., A.Bus., A.S.) students use the Arizona General Education Curriculum (AGEC) Course Lists.

- Occupational degree (A.A.S.) students use the A.A.S. General Education Course List.

- General Studies (A.G.S.) students follow the instructions contained in the program requirements for their general education courses.

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

Program of Study

Your program of study, also known as your major, determines all the courses required to earn your degree or certificate from Arizona Western College. It is important that your AWC record refl ect your current Program of Study and catalog of record.

Changing your Program of Study

If you need to change your program or update your program's catalog year, you will need to complete the Change of Major request form. If you need assistance selecting a program of study, you are highly encouraged to meet with an Academic Advisor.

Your chosen program/major determines the courses for which you can receive Title IV funds (Pell Grant/student loans/SEOG) and VA benefits. For students enrolled in 16 week courses a change of program/major is only allowed during the add/drop period. Students beginning enrollment in a late start courses, change of major is allowed during the add/drop period for that term.

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

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

Occupational Degrees (A.A.S.)

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

General Studies Degree (A.G.S.)

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

Occupational Certificates

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

AGEC Certificate

The AGEC (Arizona General Education Curriculum) certificate is 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 the AGEC 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, Canvas, and Email/Office365, 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.

Who is My Advisor?

Academic advising is provided by professional Academic Advisors and by Pathways 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 guided placement test results and how to utilize them

- Perform an unofficial evaluation of transfer credits

- Define and refine educational goals and objectives and understand the consequences of alternative courses of action

- Encourage students to become active participants in their educational planning and college careers

- Identify and provide assistance addressing transfer issues

- Assist students in making appropriate course, certificate, and degree selections

- Deliver accurate verbal and written information on majors and program requirements

- Provide assistance exploring academic and career goals.

In addition to Career & 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
Wellton Manufacturing Training Center .(928) 785-4175
MCAS Education Center . . . .(928) 317-7605
Yuma Proving (contact for availability days). (928) 328-3926
International Students . . . . (928) 344-7699
Student Athletes . . . . (928) 344-7624
Career Services . . . .(928) 317-6070
Military and Veteran Services . . . . (928) 317-7641

REGISTRATION & FEES

Registration

Students shall register during the time periods designated in the Academic 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 Associate Dean. Any student needing information about registration may call (928) 344-7550, or email records@azwestern.edu.

Online Registration

With guidance from their academic advisors, students can register for courses online through Student Self-Service.

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 the same 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. For summer semesters, enrollment in 9 or more credits is considered fullt-time.

Change of Enrollment

Adds and Drops

During the designated add/drop period or as specified by the 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. Change for program/major will only be allowed during add/drop of each term of enrollment.

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 add/drop period.

Students who do not begin attendance during a course's add/drop period 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 not affect the GPA, but will result in the loss of access to the course on campus.

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 computer-assisted 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-ing during the first 10 days of each semester.

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 should be administratively withdrawn by the professor or instructor. A grade of "AW" (administrative withdrawal) and last date of attendance should be issued in these circumstances. Faculty should issue an AW grade after the 45th day, if the student stops attending. The last day to give an AW corresponds with the last day to withdraw from the class (see withdrawals above). 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 Tuition Assistance (Active Military), Veteran Education Benefits and Financial Aid recipients. For further detail on refund policies, check with the Military & Veteran Services Office and/or Financial Aid.

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.

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 Classes

If you need to drop a class, you must follow the steps below to ensure a refund. Please read all categories to understand what your deadline is for dropping your class. You need to review each class in your schedule as they may have different drop deadlines depending on the type and length of your class.

You will not be automatically dropped for non-payment. If you wish to drop a class, drop it through Self-Service or submit a drop form to Admissions and Registration or any campus by the drop deadline.

The College accepts no responsibility for dropping you from the specific classes you intend not to take. Officially dropping will ensure that you will not be charged for classes that you do not attend.

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.

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.

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 drop must be completed in Self-Service, or must be submitted to Admissions & Registration	

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.

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 is submitted will be recorded for reporting and compliance requirements.

For a partial withdrawal, when a student withdraws from a course(s), but stays enrolled in at least one credit 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 may 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.

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.

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 drop/add period of each 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 computer-assisted 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

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.

Academic Standing will be calculated each semester-to include Fall, Spring, and Summer.

Academic Warning is in effect when a student's cumulative GPA falls under a 2.0.

Academic Probation is in effect when a student on Academic Warning fails to maintain at least a 2.0 cumulative GPA.

Academic Probation Requirements

1. Develop an Academic Improvement Plan and sign an Educational Contract with a Career and Academic Advisor.

2. Meet with a Career and Academic Advisor at least three times during the semester.

3. Attend designated workshop-information will be provided upon availability.

A student on Academic Probation will not be permitted to enroll in more than:

• 12 credits each semester (Fall/Spring)

• 6 credits in the Summer Semester

• 3 credits in the Winter Semester

Continued Academic Probation is in effect when a student on Academic Probation fails to maintain at least a 2.0 semester GPA. Student will be required to follow Academic Probation Requirements (see above).

A student on Continued Academic Probation will not be permitted to enroll in more than:

• 6 credits each semester (Fall/Spring)

• 3 credits in the Summer Semester

• 3 credits in the Winter Semester

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 completed before the qualifying break in enrollment would be retained only for those courses in which a grade of "C" or higher was earned. This policy does not apply to courses completed after the qualifying break in enrollment. All courses will remain on the student's transcript; however, course work with grades of "D" or "F" affected by this policy 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 complete an Instructional/Academic Concern request found on the Arizona Western College incident reporting webpage. Academic renewal may be granted only once during a student's enrollment.

Note: Academic renewal does not affect a student's academic standing.

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. If a student fails to choose a catalog year with a program change, the current catalog year will be used.*

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
A—Exceptional Performance (for **most** learning outcomes)	4
B—Good Performance (for **most** learning outcomes)	3
C—Satisfactory Performance (for **most** learning outcomes)	2
D—Unsatisfactory Performance (for **most** learning outcomes)	1
F—Unsatisfactory Performance (for **all** learning outcomes)	0

Grading System II*

CR (Credit) . . . . not computed into the GPA

NC (No Credit) . . . . not computed into the GPA

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

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

AU . . . . Audit

I . . . . Incomplete

W . . . . Student-initiated Withdrawal

AW . . . . Administrative Withdrawal

NS . . . . No Show

R . . . . Repeat

IP . . . . In Progress

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

A maximum of 30 credits of "CR" may be applied toward graduation from Arizona Western College. A minimum of six credits in Freshman Composition and the required major courses must be completed under Grading System I except upon approval of the 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 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. (See "Administrative Withdrawals" in Change of Enrollment section.)

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 drop/add period of each 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 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 computer-assisted 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.

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 Executive Vice President of Student Services and 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 one-semester period, a request for review of grade will not be granted unless there are unusual circumstances as determined by the Executive Vice President of Student Services and 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 co-requisites and/or permission of the instructor in order to enroll. Students who have not met the specified pre-requisite with a grade of "C" or higher or have not met the co-requisite course(s), but who can demonstrate the essential knowledge and skills to enroll in a course should contact the respective instructor. The instructor's signature, which is required, recommends students who do not meet the specified pre-requisite with a grade of "C" or higher or have not met the co-requisite course to their respective administrator for exception. The Administrator's signature is required in order to gain admission into the course. 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 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 Administrator will then arrange to schedule a make-up exam with the appropriate faculty.

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.

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:

- Successful completion of an A.A., A.Bus. or A.S. with a cumulative GPA of 3.0 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 fourteen* 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 3.0 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 fourteen* 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 3.0 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 seven additional Honors credits, comprised of Honors-designated General Education courses and additional HON- prefixed 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 or the student's applicable 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

Term of Expected Graduation . . .	Application Periods
Fall	8/11-10/3/25
Spring	1/5-2/27/26
Summer	4/20-6/1/26*

*Summer graduates are part of the upcoming fall graduating class.

Students who complete the requirements of the AGEC 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 or the student's applicable catalog.

Students not completing graduation requirements the semester they apply will be required to apply again once they meet the degree/certificate requirements.

Graduation applications do not carry over to the next semester.

Additional Degree and/or Major

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

- All degree and major requirements must be completed.

- Students must apply through the normal graduation application process.

Academic Distinction

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

Academic Distinction (degrees only):	
Highest	3.900–4.000
High	3.600–3.899
Distinction	3.400–3.599

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.

Student Code of Conduct: Policies and Procedures (Code)

STUDENT RIGHTS & RESPONSIBILITIES

The Student Code of Conduct (The Code) applies to student behavior on College property, at College-sponsored activities, and in any situation associated with the College. The Code can also apply off-campus and to community members if the behavior affects the operation of the College. You can find the Student Code of Conduct on the Arizona Western College website at www.azwestern.edu.

Examples of prohibited conduct includes, but is not limited to:

- Academic Integrity

- Plagiarism

- Forgery

- Cheating

- Disruptive conduct

- Threats, assaults, and fighting

- Boundaries and Personal Space

- Destruction of College facilities

- Harassment and Sexual harassment

- Under the influence of alcohol or drugs

- Possession, sale, purchase, use, or transfer of illegal drugs, drug paraphernalia, or alcohol

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:

1. Requests to review and challenge contents of student records will be processed according to the College procedure #545.1 Student Record Confidentiality.

2. Grievances or concerns involving harassment or discrimination on the bases of race, color, religion, sex, age, national origin, disability, or Vietnam-era veteran will be processed according to procedure #455.2 Grievance for Specified Civil Rights Grievances.

3. Grievances relating to sexual harassment will be processed according to College procedure #460.1 Prohibition Against Sexual Harassment.

4. Appeals of disciplinary actions will be handled as provided in College procedure #550.1 Student Code of Conduct.

5. Appeals or petition regarding instruction or academic issues will be processed according to College procedure #551.2 Instructional Grievance Petition.

6. Complaints that, on their face, are not subject to possible resolution in a student grievance context. (An example would be a student complaint where the student's requested relief is prohibited by state 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 President will forward the grievance to the most appropriate person to resolve the issues. Forms are available in most administrative offices throughout the College District or online.

Copyright Act Compliance

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

Taping of Classroom Lectures

- Faculty members shall inform their students, within the first week of class, their rules regarding taping. Failure to do so will accord students the right to tape the lectures.

- Students with disabilities that render them unable to take adequate lecture notes are entitled to reasonable accommodation to remedy this inability. Requests for accommodation are processed through the AccessABILITY Resource Services Office.

Campus Police

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

Vehicles on Campus

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

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

Records Privacy Policy

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

- Directly related to a student and

- Maintained by an institution or a party acting for the institution

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

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

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

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

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

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

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

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

Students should submit to the Dean of Enrollment Services, or designee, written requests that identify the record(s) they wish to inspect. The 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
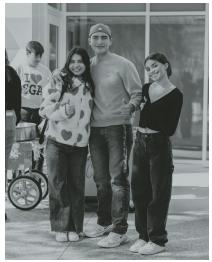
Copies of the college's policy governing the Family Education Rights and Privacy Act are available in the Admissions and Registration Office. Questions concerning FERPA should be referred to the Dean of Enrollment Services.

Student Services & Activities

Student Services

Advisement & Student Success

Advisement and Student Success consist of Advisement and Career Services, Guided Pathways and Transfer Services. We provide ongoing assistance to students in their academic and career development guiding students into, through, and beyond their college experience.

We teach students how to:

- Discover their career/academic/personal interests.
- Explore their career/academic options.
- Create their individual college experiences.
- Prepare for their future career.

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

Advisement Services

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

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

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

Career Services

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

- Jobs for Matadors—an online service where students and alumni can post resumes and search on and off campus employment opportunities and internships. Students will also receive assistance in creating their resume through the Jobs for Matadors site. **https://www.azwestern.edu/student-support/career-services/jobs-for-matadors**
- Online step by step help in choosing a major and 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.
- Andale's Apparel program provides students FREE professional clothing. The program was designed for studetns to access clothing items that encourage confidence when pursuing professional opportunities, like job interviews, networking events, and conferences. Students will find items such as slacks, blouses, jackets, belts, shoes, and more at any of the programs district wide locations. Item availability is subject to prigram inventory.

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

Career Course

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.

Guided Pathways

The Guided Pathways model is an integrated, college-wide approach to student success that helps students navigate their way through their entire higher education experience to completion. Guided Pathways provide students with Program Maps that contain specified career and transfer opportunities and requirements for all programs. The goals are to improve rates college completion, transfer, and attainment of jobs with value in the labor market—and to achieve equity in those outcomes. The AWC Strategic Plan 2025 embraces an Accessibility Objective that includes the adoption of the Guided Pathways model, which in turn directly supports the commitment to offer an enhanced student experience as outlined by AWC's Student Experience Statement.

The Essential Practices of Guided Pathways include:

- Clarifying the Pathways
- Help students choose and enter a Pathway
- Help students stay on the Pathway
- Ensure that students are learning

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**

Academic Library

The library is a dynamic academic partner on the Arizona Western College campus, serving the AWC and NAU-Yuma communities, partner universities, and residents of Yuma County. Nearly 90,000 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 and events 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 and technology kits. Textbooks may be available for some courses. We also provide links to NAU's Cline Library resources.

In 2022 the library welcomed the DHC "Digital Humanities Center". This includes a new north facing entrance, outdoor seating, new Open floor plan with various types of furniture, new Digital Humanities classroom, One Button recording studio, Oculus Quest headsets, and a Digital Humanities lab with microphones, earphones, audio and video editing programs.

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.azwestern.edu/library**

Hours of operation (fall and spring semesters)
> Monday–Thursday 8:00AM–7:00PM
> Friday 10:00AM–5:00PM
> Saturday–Sunday CLOSED

Our partners include: Northern Arizona University, WACOG, Yuma County Libraries, Parker Public Library, Quartzsite Public Library, Mexican Consulate, MCAS, University of Arizona and Arizona State University.

Student Success Center

The Student Success Center (SC building on the north side of the Yuma campus) offers a variety of services and resources to help students achieve academic success:

- Free tutoring in person and online via Zoom
- Computers, printers, & academic software
- Graphing Calculator Rental ($20 per semester)
- Handouts, supplemental materials, and helpful study aids
- Science study room
- Individual/group study areas

The Writing Center provides assistance at any stage of the writing process in any subject. Writing tutors can help with clarity and organization, thesis and support, paragraph and sentence construction, and individual writing concerns. ASL, ESL and Spanish tutors are available in the Language Lab located within the Writing Center. Appointments are recommended and take precedence over walk-ins.

The Math Center provides free tutoring services on a walk-in basis for all levels of mathematics. In addition, tutorial support for science, technology, and business courses is provided here. The Math Center also offers a TI-84 graphing calculator rental program for students enrolled in MAT 142/150/151 or higher-level math course. For a $20 fee, students can rent a calculator and return it upon the end of the semester. Calculators are rented on a first come, first served basis beginning the first day of each term.

Student Success Center services are offered district-wide. Our mission 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.

Hours may vary per location, during summer/winter terms, and holidays. For more information, please visit our website: **www.azwestern.edu/ssc** or call (928) 317-6029.

TRIO KEYS Student Support Services Program

The TRIO 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. 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 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.

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.

Textbook and Course Material

Textbook and course material information may be found on **www.azwestern.edu**, search Course Materials. For information or support on where to search for textbooks and course materials, call (928) 317-6000..

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.

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.

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 6:30AM 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.

Honor Society

Phi Theta Kappa, an International Honor Society, *www.ptk.org*, recognizes and encourages leadership, scholarship, fellowship, and service among community college students. If you have completed 12 credits of course work towards a degree, and have a cumulative 3.5 grade-point average, you may be eligible for membership. Go to *https://www.azwestern.edu/student-life/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

Campus life is a vibrant community where you can connect with others through leadership opportunities, clubs, organizations, and events that align with your interests. Colleges often emphasize a mission to develop the whole student, taking a holistic approach to nurturing well-rounded, mature individuals. While academics are important, much of this growth happens outside the classroom. College life is about more than just earning a degree—it's an opportunity for personal growth and finding a sense of belonging in something bigger than yourself.

The following are several ways in which Arizona Western College provides opportunities for students to develop outside of the classroom environment.

Residential Life & Housing

The Residential Life Office oversees several on-campus housing facilities at the AWC Yuma campus. These on-campus housing facilities include the Kino Residence Hall, DeAnza Residence Hall, Garces Residence Hall, as well as the AWC Cottage Environment. Each on-campus housing environment is equipped with unique features, but each residence hall room comes equipped with a closet, dresser, bed, chair, mini fridge, in-room AC/ Heat control, and Ethernet connection. Additional amenities include laundry, social gathering spaces, and toilet paper, all at no additional charge.

AWC's Residential Life & Housing environments have on-site student and professional staff dedicated to creating positive living and learning environments that promote academic success, cultivate personal development, and provide a comprehensive collegiate experience for a diverse population.

The Housing Application/Agreement must be submitted online, accompanied by the required housing application fee and proof of immunization. In addition, residential students are required to purchase a meal plan and must be enrolled full-time (12 credits depending on academic level). Please refer to the Payment of Financial Obligation section regarding resident financial obligations.

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

Residential Life & Housing Immunization Protocol

Arizona Western College policy requires that all residential students meet the following immunization requirements:

- 2 MMR shots: first given after 12 months of age and second at least 28 days apart from the first or 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.

- Polio

- Chicken Pox Varicella

- Tetanus (Diphtheria)

- Hepatitis A

- Hepatitis B

- Meningitis

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.

For additional Residential Life and Housing information, please visit **https://www.azwestern.edu/student-life/on-campus-housing** or contact Housing@azwestern.edu

Student 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 supports Behavioral Health and Wellness and Interventions; 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 may 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. Student 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.

Student Care Reports allow for 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 risk assessment, reach-out, follow-up and documentation. Student Health and Wellness uses the National Association for Behavioral Intervention and Threat Assessment's (NaBITA) Behavioral Intervention Team (BIT) model to assist in addressing situations. Please visit the Student 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 the Student Health & Wellness Office, please call (928) 344-7602.

Student AccessABILITY Resource Services

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

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

Requesting Accommodations and Auxiliary Aids

Student must self-identify with AccessABILITY Resource Services and submit documentation on their disability/(ies).

The accommodation process begins with submitting a public accommodation form along with documentation on the AccessABILITY Resource Services web¬page. **https://azwestern-accommodate.symplicity.com/public_accommodation/**

Once the request and documentation are received, the coordinator will send an email requesting the student to make an appointment in the following ways:

- through the Accommodate calendar, by emailing accessability@azwestern.edu,

- or by calling (928) 344-7674. Appointments with the ARS coordinator are available in-person on the second floor of the 3C or via Zoom.

The eligibility determination process is not a same day process; therefore, it is recommended that requests and documentation be submitted well in advance of any accommodation related needs (e.g. exam accommodation and alternative media services)

Be prepared to speak to the coordinator about their disability and barriers they feel they may encounter in the classroom, as well as accommodations or design modifications needed to ensure equal access.

The ARS coordinator works with 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 break the ice and encourages more effective communication.

Note: Services can be requested at any time during the semester, however, requesting service well in advance will help ensure resources are available when needed. For more information go to **www.azwestern.edu/AccessABILITY**

Student Engagement and Events

Arizona Western College believes that the college experience extends far beyond the classroom. Our Student Engagement programs are designed to provide students with a variety of opportunities to connect, lead, and grow through involvement in campus events, leadership development, and extracurricular activities. From social and multicultural events to intellectual discussions and recreational activities, there is something for every interest.

Getting involved in campus life enriches your academic experience while helping you build lasting relationships, develop leadership skills, and contribute to the AWC community. Embrace the full college experience by actively participating in the many opportunities available to you. Here are several ways to get started:

Student Clubs and Organizations

AWC offers a diverse range of clubs and organizations that cater to a variety of student interests and talents. With a variety of clubs and organizations on campus, there's something for everyone to get involved in. Visit here for a current list. If you don't see a club that fits your passion, you can always start one yourself!

For more information on student activities or if you have any questions, visit this page or contact the Campus Life Office at (928) 344-7576.

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 Spaces

At Arizona Western College, we want you to feel at home on campus. That's why we've created a variety of inviting spaces designed just for you! Whether you're looking to study, work out, relax, play, or reflect, you'll find plenty of places to suit your needs. Explore the options below and make the most of your time here!

Student Club Hub

Located in the 3C Building on the AWC Yuma Campus, the Student Club Hub is a dedicated space designed for student clubs and organizations to gather, collaborate, and bring their ideas to life. Whether you're hosting meetings, planning events, or working on group projects, the Club

Hub is your go-to place for all things club-related. Clubs and organizations can easily reserve this versatile space to support their activities and strengthen connections within the AWC community. For additional information, please contact (928) 344-7576.

AWC Gaming Lobby

Located on the first floor of the Matador Activity Center (MAC Building), the Gaming Lobby offers a fun and relaxed space where students can unwind, socialize, and connect with others who share similar interests.

Special features of the Gaming Lobby include a cozy Relaxation Pod for naps, a flat-screen TV, billiards and ping-pong tables, gaming consoles, and much more. Throughout the year, tournaments and themed parties are hosted for added excitement. All games and amenities are available for free to AWC students.

The Gaming Lobby is open to students from 7:00 AM to 10:00 PM, Monday through Thursday, during the academic term. To reserve the Relaxation Pod or gaming consoles, simply visit the Hotspot on the first floor of the MAC Building

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

Health & Wellness Nook

The Health & Wellness Nook is a place for the college community to use for various mental wellness/good health activities, requiring a semi-private, relaxed, and calm area. It may be used to participate in virtual therapy, psychiatric, on-demand or recorded self-care appointments through the college's FREE Teletherapy service (BetterMynd). It may further be used for experimentation with stress-relieving essential oils, coloring books, fidget toys (provided), or other activities.

The Cubby

The Cubby was designed to meet the immediate needs of its students on campus by providing a variety of non-perishable food items and other basic necessities to students and their families. The Food Pantry is located in the MAC Room 178 and will be open for limited hours throughout the semester.

Wellness, Pregnancy, Lactation Spaces

Arizona Western College is committed to supporting the health and well-being of all students. Wellness, pregnancy, and lactation rooms are available on all AWC campuses to provide a safe and comfortable space. These designated rooms offer students a private, quiet area for personal care, including rest, breastfeeding, or lactation needs. These rooms are part of AWC's dedication to fostering an inclusive and supportive environment for all students. For more information on these rooms and related resources, please visit *https://www.azwestern.edu/title-ix*.

General Education Philosophy, Curriculum, and Assessment

AWC General Education Curriculum

The purpose of the general education curriculum is to expose students to various ways of knowing and understanding the world around them. The general education curriculum provides opportunities for intersection among various disciplines that allow students to make connections and experience the integration of knowledge across seemingly disparate areas. These connections and experiences collectively foster inquiry, analysis, and ultimately application of ideas and practices that allow them to discover the intellectual and practical path most suited to their interests, skills, and talents. In turn, the exploration of broad knowledge areas to more focused areas of interest contributes to their development as students who become informed and engaged citizens who are able to view the world from multiple vantage points and find a meaningful place within it.

Arizona General Education Curriculum (AGEC)

The AGEC is the foundation of a community college education in Arizona. Successfully completing the AGEC means all AGEC courses will transfer as a block to ASU, NAU and UA. If the AGEC is completed with a 2.5 GPA or better, the student is guaranteed admission to ASU, NAU, and UA.

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 (AGEC).

In February 2021, the Arizona Board of Regents (ABOR) approved a new policy regarding general education at ABOR universities. Policy 2-210 requires Arizona State University, Northern Arizona University, and the University of Arizona to redesign their general education programs. In light of the new ABOR policy, advances in both general education strategies and guided pathways, and emerging 21st-century skills, the AZTransfer Steering Committee is leading an effort to reimagine the structure and requirements of the Arizona General Education Curriculum (AGEC).

The AGEC has been an important tool for promoting student learning and effective transfer since it was created in the mid-1990s, and preserving this mechanism is critical. However, the structure and components of the AGEC have not substantially evolved since their creation nearly 30 years ago. This change introduces an opportunity for Arizona's community and tribal colleges to bring the AGEC up-to-date in a way that will enhance student learning.

AGEC Categories, Credit Ranges, and Criteria

All courses used to satisfy Arizona General Education Curriculum (AGEC) requirements must be transferable as elective credit or better to all Arizona public universities.

All courses used to satisfy "Common Courses" must be transferable as elective or better to the universities that have the shared majors listed on a Common Course Matrix. A shared major is a university degree program that has similar academic preparation to one or more degree programs at other Arizona public universities as listed on the Common Course Matrices.

All courses used to satisfy electives must be transferable to the university or universities to which the student plans to transfer, as elective credit or better. The degrees for which this policy applies include the Associate of Arts (AA), Associate of Business (ABus), and the Associate of Science (AS). More information on the AGEC can be found at **www.aztransfer.com**

Categories and Credit Ranges (32 to 35 credits)

1. Written and Oral Communication (9-10 credits; the first 6 must be composition/technical writing, and the remaining 3-4 credits can be in communication studies or languages)

2. Arts & Humanities (6-9 credits)

3. Quantitative Reasoning (3-4 credits)

4. Natural Sciences (4-8 credits)

5. Social & Behavioral Sciences (6-9 credits)

6. Institutions in the Americas (3 credits)

Note: Students will choose courses to align with transfer institution

Category Criteria

WRITTEN AND ORAL COMMUNICATION

Composition courses in this category will meet the following criteria:

Instruction on

- the rhetorical situation of written and oral communication, including audience, purpose, and context

- the recursive writing process (strategies for generating ideas, drafting, revising, editing, and reflecting)

- the research process (collecting, evaluation, analyzing, and synthesizing primary and secondary research), the responsible use of sources (including digital/multimodal), and ethical citation of source material

- the importance of contextual/situational awareness in communication, including organizational schemas/strategies, development of ideas, and presentation, and may include instruction for academic and/or technical/professional purposes

Communication or language courses in this category will meet at least four of the following criteria:

Instruction on

- the syntax and mechanics of written and/or oral communication, including exploration of academic and rhetorically diverse contexts

- how to communicate orally and visually

- the structure and delivery of oral presentations

- the use of visual aids to effectively communicate

- the use of language(s) to explore and express ideas in a diverse society

ARTS & HUMANITIES

Courses in this category will meet at least three of the following criteria:

Instruction on

- the analysis, interpretation, and/or creation of cultural, artistic, and/or intellectual artifacts

- the importance of global awareness, intercultural knowledge, and intellectual humility, objectivity, and/or curiosity, by situating cultural, artistic, and/or intellectual artifacts in a diverse range of cultural, historical, and intellectual contexts

- the exploration of ideological, philosophical, existential, and/or moral questions with the possibility of developing informed civic and ethical identities through study and/or creative self- expression

- the creation and/or re-creation of artistic works culminating in individual or group exhibition, publication, production, or performance

- the understanding of current global challenges (environmental, social justice, etc.), including exploration of strategies for positive change

QUANTITATIVE REASONING

Courses in this category will meet all the following criteria:

Instruction on

- mathematical, statistical, and/or logical techniques and methods, and then how to use those methods to understand and solve meaningful problems

- how to express quantitative information symbolically, graphically and/or in written or oral language

- how to interpret, analyze and critique information or a line of reasoning

- how to ask critical thinking questions, develop critical thinking skills and mathematical reasoning, and follow logical procedures step by step

NATURAL SCIENCES

Courses in this category will meet at least four of the following criteria:

Instruction on

- how to describe, explain, and predict natural phenomena using scientific, logical, and quantitative reasoning and empirical evidence from observation and experimentation

- the use of experimentation and/or observation to study natural phenomena, using the scientific method

- how to communicate information about the natural world using written, numeric, and/or visual formats; and when possible, how to use computational/simulation programming environments as a method for solving systems and simulating theoretical or experimental data

- the history of scientific development

- how to critically evaluate scientific information, including visual displays and quantitative data

- how the tools and techniques of the natural sciences are applied to global and local issues such as sustainability, climate change, etc.

- the importance of investigating and understanding how natural phenomena varies by culture and location, including perspectives of indigenous peoples

- the importance of examining assumptions about the natural world and the implications those assumptions have for individual and societal decisions

SOCIAL AND BEHAVIORAL SCIENCES

Courses in this category will meet at least four of the following criteria:

Instruction on

- the importance of understanding and respecting cultures through social, family, historical, political events and/or processes using social scientific theories, methods, principles, and/or perspectives

- how to apply social scientific methods of inquiry to generate knowledge about human behavior within individuals, societies, and across cultural groups

- the diversity of human development for individuals and/or social groups, including behaviors across time, culture, and historic/social/political/economic contexts

- the interactions among human thought, behavior, relationships, and actions through the lens of social scientific analytic frameworks

- the challenges of understanding the diverse natures of individuals and cultural groups who live together in a complex and evolving world

- how to think critically to better understand the range of human experience through time and to navigate stressful challenges inherent in the human condition

- how to investigate social consequences or large-scale and group economic, technological, scientific, political, ecological, and cultural change

- the importance of global awareness, intercultural knowledge, and intellectual humility, objectivity, and/or curiosity, by situating cultural, social, and/or intellectual artifacts in a diverse range of cultural, historical, and intellectual contexts

INSTITUTIONS IN THE AMERICAS

Courses in this category will meet at least four of the following criteria:

Instruction on

- the importance of developing civic and global engagement and participation as evidenced by: respectful dialogue, intercultural competence, self-awareness, civic identity, consideration of multiple perspectives

- the importance of exploring and/or examining how the histories and cultures of different people, including historically marginalized groups, inhabiting the geographic area now considered the United States have shaped current experiences and institutions of government

- governmental structures and/or philosophies important within United States and/or Tribal contexts by comparing them to non-U.S. structures and/or philosophies

- the basic principles of American constitutional democracy and republicanism and/or indigenous political theories and how they are applied through the analysis of the U.S. Constitution, Tribal governance systems, and/or other founding documents, significant treaties, and landmark court cases

- how to critically assessing public policy options for personal and professional decision-making using basic economic, environmental, political, and intercultural knowledge

- the major religious or spiritual doctrines, philosophies and communities that helped shape culture and policies

- how to analyze documentary evidence, and compare and contrast scholarly interpretations

- the multifaceted history of European colonialism and imperialism and their effects, including diasporas, enslavement, war, and genocide, within North America and globally

- the importance of exploring ethics and how it applies to public policy and professional decision making

Arizona General Education Curriculum (AGEC) Courses

WRITTEN AND ORAL COMMUNICATION

WRITTEN COMMUNICATION

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)

ORAL COMMUNICATION

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

FRE 101 Elementary French 1

FRE 102 Elementary French 2

FRE 201 Intermediate French 1

FRE 202 Intermediate French 2

SPA 101 Elementary Spanish 1

SPA 102 Elementary Spanish 2

SPA 201 Intermediate Spanish 1

SPA 202 Intermediate Spanish 2

SPC 110 Intro to Speech Communications

SPC 215 Public Speaking

SPC 271 Group Communication

ARTS AND HUMANITIES

AGS 101 Solving the Problems of the World

AJS 123 Ethics and Criminal Justice

ARH 141 Survey of World Art 1

ARH 142 Survey of World Art 2

ECE 265 Children's Literature

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 US Multiethnic Lit Survey

ENG 247 Chicana/oLiterature

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 Non-Fiction Writing

ENG 291 Fiction Writing

ENG 292 Poetry Writing

JRN 100 Intro to Mass Communication

MUS 120 Music Appreciation

PHI 101 Intro to Philosophy

PHI 103 Intro to Logic

PHI 105 Intro to Ethics

PHI 210 Philosophy of Science

PHI 220 Medical Ethics

PHI 240 Ancient Philosophy

REL 201 Comparative World Religions

SPA 251 Intermediate Spanish Grammar
and Composition

SPA 260 Mexican-American Literature

SPA 263 Intro to Hispanic Film and Culture

THE 101 Survey of Theatre

THE 102 History of Contemporary Theatre

QUANTITATIVE REASONING

MAT 142 College Mathematics
with Applications

MAT 150 College Algebra with review

MAT 151 College Algebra

MAT 183 Trigonometry

MAT 187 Pre-Calculus

MAT 212 Brief Calculus

MAT 215 Math Analysis for Business

MAT 220 Calculus I with Analytic Geometry

MAT 227 Discrete Mathematics

MAT 230 Calculus II w/ Analytic Geometry

MAT 241 Calculus III w/ Analytic Geometry

MAT 252 Introduction to Linear Algebra

MAT 262 Intro to Ordinary
Differential Equations

MAT 270 Applied Statistics

NATURAL SCIENCES

ANS 241 Principles of Genetics

AST 100 Astronomy

AST 130 The Planets

BIO 100 Biology Concepts

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

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

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 108 Plants and People

PLS 211 Soils

PLS 241 Principles of Genetics

SOCIAL & BEHAVIORAL SCIENCES

AJS 225 Criminology

ANT 100 Intro to Anthropology

ANT 130 Intro to Cultural Anthropology

ECE 240 Child Growth and Development

ECN 240 Principles of Macroeconomics

ECN 250 Principles of Microeconomics

FAS 101 Family Culture & Structure

FAS/SOC 160 Close Relationships

FAS 204 Gender Relations

FAS/PSY **238** Human Development

GEO 105 World Regional Geography

HIS 110 World History to 1500

HIS 111 World History Since 1500

HIS 240 Western Civilization 1

HIS 241 Western Civilization 2

POS 100 Intro to Politics

POS 120 World 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

INSTITUTIONS IN THE AMERICAS

HIS 121 History of the U.S. to 1877

HIS 122 History of the U.S. Since 1877

HIS 220 History of Arizona

HIS 230 Women in American History

HIS 280 History of Mexico

POS 110 American Politics

POS 130 State and Local Politics

SPA 281 Mexican American History

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

WRITTEN AND ORAL COMMUNICATION

WRITTEN COMMUNICATION

ENG 100 Introduction 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)

ORAL COMMUNICATION

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

FRE 101 Elementary French 1

FRE 102 Elementary French 2

FRE 201 Intermediate French 1

FRE 202 Intermediate French 2

SPA 101 Elementary Spanish 1

SPA 102 Elementary Spanish 2

SPA 201 Intermediate Spanish 1

SPA 202 Intermediate Spanish 2

SPC 110 Intro to Speech Communications

SPC 215 Public Speaking

SPC 271 Group Communication

ARTS AND HUMANITIES

AGS 101 Solving the Problems of the World

AJS 123 Ethics and Criminal Justice

ARH 141 Survey of World Art 1

ARH 142 Survey of World Art 2

ECE 265 Children's Literature

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 US Multiethnic Lit Survey

ENG 247 Chicana/oLiterature

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 Non-Fiction Writing

ENG 291 Fiction Writing

ENG 292 Poetry Writing

JRN 100 Intro to Mass Communication

MUS 120 Music Appreciation

PHI 101 Intro to Philosophy

PHI 103 Intro to Logic

PHI 105 Intro to Ethics

PHI 210 Philosophy of Science

PHI 220 Medical Ethics

PHI 240 Ancient Philosophy

REL 201 Comparative World Religions

SPA 251 Intermediate Spanish Grammar
and Composition

SPA 260 Mexican-American Literature

SPA 263 Intro to Hispanic Film and Culture

THE 101 Survey of Theatre

THE 102 History of Contemporary Theatre

QUANTITATIVE REASONING

MAT 105 Mathematics for the
Applied Sciences

MAT 106 Mathematics for Welders

MAT 121 Intermediate Algebra

MAT 130 Mathematics for
Elementary Teachers 1

MAT 135 Mathematics for
Elementary Teachers 2

MAT 142 College Mathematics
with Applications

MAT 150 College Algebra with review

MAT 151 College Algebra

MAT 183 Trigonometry

MAT 187 Pre-Calculus

MAT 212 Brief Calculus

MAT 215 Math Analysis for Business

MAT 220 Calculus I with Analytic Geometry

MAT 227 Discrete Mathematics

MAT 230 Calculus II w/ Analytic Geometry

MAT 241 Calculus III w/ Analytic Geometry

MAT 252 Introduction to Linear Algebra

MAT 262 Intro to Ordinary
Differential Equations

MAT 270 Applied Statistics

NATURAL SCIENCES

ANS 241 Principles of Genetics

AST 100 Astronomy

AST 130 The Planets

BIO 100 Biology Concepts

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

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

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 108 Plants and People

PLS 211 Soils

PLS 241 Principles of Genetics

SOCIAL & BEHAVIORAL SCIENCES

AJS 225 Criminology

ANT 100 Intro to Anthropology

ANT 130 Intro to Cultural Anthropology

ECE 240 Child Growth and Development

ECN 240 Principles of Macroeconomics

ECN 250 Principles of Microeconomics

FAS 101 Family Culture & Structure

FAS/SOC 160 Close Relationships

FAS 204 Gender Relations

FAS/PSY **238** Human Development

GEO 105 World Regional Geography

HIS 110 World History to 1500

HIS 111 World History Since 1500

HIS 240 Western Civilization 1

HIS 241 Western Civilization 2

POS 100 Intro to Politics

POS 120 World 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

INSTITUTIONS IN THE AMERICAS

HIS 121 History of the U.S. to 1877

HIS 122 History of the U.S. Since 1877

HIS 220 History of Arizona

HIS 230 Women in American History

HIS 280 History of Mexico

POS 110 American Politics

POS 130 State and Local Politics

SPA 281 Mexican American History

AWC 2025–2026 Arizona General Education Curriculum (AGEC) - Checksheet · Credits

A Written Communication and Oral Communication
(9–10 credits; the first 6 must be composition/technical writing, and the remaining 3–4 credits can be in communication studies or languages)

Written Communication ❏ ENG 101 or ❏ ENG 107 ❏ ENG 102 or ❏ ENG 108 — **6**

Oral Communication — **3–4**

❏ ASL 101	❏ ASL 102	❏ ASL 201	❏ ASL 202	❏ FRE 101	❏ FRE 102
❏ FRE 201	❏ FRE 202	❏ SPC 110	❏ SPC 215	❏ SPC 271	❏ SPA 101
❏ SPA 102	❏ SPA 201	❏ SPA 202			

B Arts & Humanities — **6–9**

❏ AGS 101	❏ AJS 123	❏ ARH 141, 142	❏ ECE 265	❏ ENG 170	❏ ENG 180
❏ ENG 185	❏ ENG 186	❏ ENG 190	❏ ENG 216	❏ ENG 220	❏ ENG 231, 232
❏ ENG 241, 242	❏ ENG 245	❏ ENG 247	❏ ENG 251, 252	❏ ENG 260	❏ ENG 261
❏ ENG 265	❏ ENG 281	❏ ENG 290	❏ ENG 291	❏ ENG 292	❏ JRN 100
❏ MUS 120	❏ PHI 101	❏ PHI 103	❏ PHI 105	❏ PHI 210	❏ PHI 220
❏ PHI 240	❏ REL 201	❏ SPA 251	❏ SPA 260	❏ SPA 263	❏ THE 101
❏ THE 102					

C Quantitative Reasoning ❏ MAT 142, 150, 151, 183, 187, 212, 215, 220, 227, 230, 241, 252, 262, 270 — **3–4**

D Natural Sciences — **4–8**

❏ ANS 241	❏ AST 100	❏ AST 130	❏ BIO 100	❏ BIO 160	❏ BIO 181 , 182
❏ BIO 201, 202	❏ BIO 205	❏ CHM 130	❏ CHM 151, 152	❏ ENV 101	❏ GLG 101
❏ GLG 102	❏ GLG 110	❏ GPH 110	❏ OCN 110	❏ PHY 111, 112	❏ PHY 121, 131
❏ PLS 100	❏ PLS 108	❏ PLS 211	❏ PLS 241		

E Social & Behavioral Sciences — **6–9**

❏ AJS 225	❏ ANT 100	❏ ANT 130	❏ ECE 240	❏ ECN 240	❏ ECN 250
❏ FAS 101	❏ FAS/SOC 160	❏ FAS 204	❏ FAS/PSY 238	❏ GEO 105	❏ HIS 110, 111
❏ HIS 240, 241	❏ POS 100	❏ POS 120	❏ POS 140	❏ PSY 101	❏ PSY 140
❏ PSY 290	❏ SOC 101	❏ SOC/PSY 170	❏ SOC 230	❏ SOC 240	

F Institutions in the Americas — **3**

❏ HIS 121, 122	❏ HIS 220	❏ HIS 230	❏ HIS 280	❏ POS 110	❏ POS 130
❏ SPA 281					

TOTAL REQUIRED CREDITS— **32–35**

AWC 2025–2026 Associate in Applied Science (A.A.S.) General Education - Checksheet   Credits

A   Written Communication and Oral Communication
Complete ENG 101 or 107 and select one more course from the Written and Oral Communication categories.
To help you decide upon which courses to select, consult your advisor.

Written Communication ❑ ENG 101 or ❑ ENG 107 ❑ ENG 102 or ❑ ENG 108   **6**

Oral Communication   **3–4**

❑ ASL 101	❑ ASL 102	❑ ASL 201	❑ ASL 202	❑ FRE 101	❑ FRE 102
❑ FRE 201	❑ FRE 202	❑ SPC 110	❑ SPC 215	❑ SPC 271	❑ SPA 101
❑ SPA 102	❑ SPA 201	❑ SPA 202			

B   Arts & Humanities   **3**

❑ AGS 101	❑ AJS 123	❑ ARH 141, 142	❑ ECE 265	❑ ENG 170	❑ ENG 180
❑ ENG 185	❑ ENG 186	❑ ENG 190	❑ ENG 216	❑ ENG 220	❑ ENG 231, 232
❑ ENG 241, 242	❑ ENG 245	❑ ENG 247	❑ ENG 251, 252	❑ ENG 260	❑ ENG 261
❑ ENG 265	❑ ENG 281	❑ ENG 290	❑ ENG 291	❑ ENG 292	❑ JRN 100
❑ MUS 120	❑ PHI 101	❑ PHI 103	❑ PHI 105	❑ PHI 210	❑ PHI 220
❑ PHI 240	❑ REL 201	❑ SPA 251	❑ SPA 260	❑ SPA 263	❑ THE 101
❑ THE 102					

C   Quantitative Reasoning ❑ MAT 105, 106, 121, 130, 135, 142, 150, 151, 183, 187, 212, 215, 220, 227, 230, 241, 252, 262, 270   **3**

D   Natural Sciences   **4**

❑ ANS 241	❑ AST 100	❑ AST 130	❑ BIO 100	❑ BIO 160	❑ BIO 181 , 182
❑ BIO 201, 202	❑ BIO 205	❑ CHM 130	❑ CHM 151, 152	❑ ENV 101	❑ GLG 101
❑ GLG 102	❑ GLG 110	❑ GPH 110	❑ OCN 110	❑ PHY 111, 112	❑ PHY 121, 131
❑ PLS 100	❑ PLS 108	❑ PLS 211	❑ PLS 241		

E   Social & Behavioral Sciences   **3**

❑ AJS 225	❑ ANT 100	❑ ANT 130	❑ ECE 240	❑ ECN 240	❑ ECN 250
❑ FAS 101	❑ FAS/SOC 160	❑ FAS 204	❑ FAS/PSY 238	❑ GEO 105	❑ HIS 110, 111
❑ HIS 240, 241	❑ POS 100	❑ POS 120	❑ POS 140	❑ PSY 101	❑ PSY 140
❑ PSY 290	❑ SOC 101	❑ SOC/PSY 170	❑ SOC 230	❑ SOC 240	

F   Institutions in the Americas   **3**

❑ HIS 121, 122	❑ HIS 220	❑ HIS 230	❑ HIS 280	❑ POS 110	❑ POS 130
❑ SPA 281					

TOTAL REQUIRED CREDITS—   **22**

Learning is a dynamic, engaging and continuous process.

It involves:

- Making learning expectations explicit and public.

- Setting appropriate criteria and rigorous standards for learning quality.

- Systematically gathering, analyzing, and interpreting evidence to determine how well performance matches expectations and standards.

- Using the resulting information to understand, document, explain, and improve performance.

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

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

Academic Programs

Types of Programs

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) Certificate

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 a minimum of 60 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) Certificate

The **AGEC** certificate is designed for those transfer students who can only spend one full-time year at AWC before they move on to the university. By completing the 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.

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 the Arizona General Education Curriculum (AGEC) block of at least 32 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, 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 Division Chair of Modern Languages.

- A student can complete a standard examination to meet fourth-semester proficiency administered by an AWC Spanish faculty member. The student will not obtain credits. Verified by the "Verification of Language Proficiency Form."

- Completion of a secondary or college education in a foreign country where a language other than English is the official or native Language. Student's transcript will state language proficiency met. Student will not receive credits. Verified by Transcript.

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

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

Occupational Degree (A.A.S.) Requirements

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

AGEC Certificate Requirements

- Students must complete 32 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 the AGEC 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 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

ASU ARIZONA STATE UNIVERSITY

Complete your bachelor's degree at Arizona State University ASU consistently ranks as the top school 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™ creates a seamless transfer experience to ASU after earning credits or an associate 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 ASU— shortening 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**

ASU Local — Arizona State University

ASU Local is a transfer opportunity being offered with Arizona Western and Arizona State University's partnership to bring Yuma County students bachelorette attainment without leaving home. This hybrid college experience invites you to attend Arizona State University on Arizona Western College's Yuma campus. ASU Local is a flexible college program designed for your academic, personal and professional goals in your hometown. ASU brings their top-ranked yet affordable undergraduate degree programs to students in Yuma, Arizona. **https://asulocal.asu.edu/yuma**

NAU NORTHERN ARIZONA UNIVERSITY

Northern Arizona University students are achieving their goals for personal and professional success across the state. Choose from over 20 convenient campus locations across the state and achieve your educational goals on your terms. Whether you're looking to sharpen your skills, earn new certifications, or pursue a degree, NAU has 200 + programs you need to succeed. Join our community of empowered learners and experience the ultimate flexibility and convenience of an education that fits your life.

- Yuma -Stay in Yuma and earn a bachelor's or master's degree on the AWC/NAU campus.
- 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.
- Earn a bachelor's or master's degree at one of 20+ statewide campus locations.

About NAU-Yuma

NAU-Yuma offers bachelor's and master's degrees to help you advance your career. Classes are offered on-site, making this an excellent choice to continue living and working in Yuma while pursuing your degree.

Explore popular degrees in these areas and more:

- Biological and Natural Resource Sciences
- Business Management
- Business Administration
- Clinical Mental Health Counseling
- Elementary Education
- Early Childhood Minor
- Justice Studies
- Logistics and Supply Chain Management
- Mechanical Engineering
- Nursing
- Organizational Leadership
- Project Management
- Psychology
- Secondary Education (Post-Bach Certificate)
- Social Work
- Sociology
- Spanish
- Special and Elementary Education (Dual Certification)
- Speech-Language Pathology
- Strategic Leadership

Experience a smooth transfer with the 2NAU Program.

You'll maximize your college credits at a participating community college, then transfer seamlessly to NAU to complete your bachelor's degree in Flagstaff, online, or at a statewide location. You'll work closely with your NAU representative, who will help you stay on track as you complete your community college coursework. Join 2NAU: nau.edu/2nau

Why 2NAU?

- Affordable – Pay lower community college tuition rates while earning credits toward your NAU degree.

- Involved – Access NAU resources, guidance, and mentoring.

- Seamless – Enjoy a smooth transition to NAU when you have completed your community college courses.

- Scholarship – Potentially qualify to receive a merit-based 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 determine what classes to take at AWC, assess your progress toward degree completion, and see a list of courses you need to take at NAU to finish your bachelor's degree. Website: jackspath.nau.edu

Get started on your NAU degree. Take the first step and contact your NAU Coordinator, who can help you sign up for the 2NAU pathway pro-

gram or assist you with the admission process.

NAU-Yuma Enrollment and Student Service Center

Email: nau.yuma@nau.edu

Phone: (928) 317-6436

Website: *http://nau.edu/yuma*

THE UNIVERSITY OF ARIZONA

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

The Many Ways to Become a Wild Cat.

The University of Arizona offers a 2+2 program wherein, students complete their first two years of study at AWC to earn their AGEC and Associate's degree, and then their last two years and a Bachelor's degree in one of the three University of Arizona locations.

Location 1: The University of Arizona in Yuma. UA Yuma is a regional campus serving Imperial, La Paz, and Yuma Counties. UA Yuma allows students to have the University of Arizona experience while remaining connected to their hometown. UA Yuma provides 20 workforce demanded major areas of study in a student-centered learning environment focused on student's success and educational achievement in pursuit of STEM and community-based careers. UA Yuma programs are tailored to meet the needs of working students of all ages providing innovative approaches enhancing student aspirations through hand-on experiential learning and career pathway plans. As part of their UA Yuma coursework, students intern and work in their preferred location and industry of choice, getting experience and building their resumes, and connections while completing their degree. UA Yuma's goal is to increase the number of local students qualified to pursue careers in the regional STEM-related industry areas of Agriculture, Engineering, Health & Wellness, and Business. For more UA Yuma Resources, utilize the UAZ Yuma Linktree *https://linktr.ee/uazyuma* to help current and prospective students with their University of Arizona Yuma experience, including scholarships, internships, 8-semester plans, and advising. For more information, visit *https://yuma.arizona.edu/*, call (928) 782-1914 email thodges@arizona.edu.

Location 2: University of Arizona- Tucson. If you do not see a program for you in Yuma, the University of Arizona offers many programs on the Main Campus in Tucson, offering over 300 majors and is the #1 Arizona Public Institution and Arizona's Land Grant University. To learn more about the Main Campus, please visit *https:/lwww.arizona.edu/*

Location 3: Arizona Online. In-person classes aren't for everyone. Arizona Online gives you the freedom to earn a top-ranked degree from the University of Arizona your way. Arizona Online offers over 40 majors. To learn more about Online, please visit **https://online.arizona.edu**

Merit Scholarships for Transfer Students.

If you transfer to any of the University of Arizona campuses and complete your admission application; you will automatically be considered for one of two merit scholarships: The Phi Theta Kappa ($2,500 per semester) and the Transfer Scholarship ($1,500 per semester). Once admitted, apply to relevant scholarships at Scholarship Universe. To apply to all UAZ campuses, visit **https://yuma.arizona.edu**

Other Institutional Partnerships

ACE

American College of Education (ACE) offers students access to affordable and quality programs in education, nursing, healthcare, business and more. Are you ready to become a leader in your field? With our affordable, flexible and transfer-friendly program options, ACE is here to get you there.

- More than 70 online programs to choose from
- Save up to $1,000 with a partnership grant
- Accredited by HLC, a regional accreditation agency
- Pricing to fit any budget
- Bachelor's programs for under $10,000
- Master's programs for under $10,000
- Doctorate programs for under $24,000

Visit our partnership page to learn more: **https://www.ace.edu/strategic-partners/arizona-western-college**.

To learn more about this program and request information, visit atsu.edu/physician-assistant-degree, or email admissions@atsu.edu.

A.T. Still University (ATSU) of Health Sciences (ATSU)

A.T. Still University (ATSU) of Health Sciences (ATSU) is the founding institution of osteopathic healthcare, established in 1892 by Andrew Taylor Still, DO. ATSU serves as a learning-centered university dedicated to preparing highly competent professionals through innovative academic programs with a commitment to continue its osteopathic heritage and focus on whole person healthcare, scholarship, community health, interprofessional education, diversity, and underserved populations.

ATSU is comprised of three campuses (Mesa, Arizona; Santa Maria, California; and Kirksville, Missouri) on more than 200 acres with seven prestigious schools. Located in Mesa, Arizona, ATSU's Arizona School of Health Sciences' (ATSU-ASHS) mission is to graduate health professionals highly skilled in evidence based practice who are committed to reducing health disparities for individuals and communities.

Arizona Western College graduates who meet minimum prerequisites and are endorsed by the College automatically qualify for an interview with ATSU-ASHS' Master of Science in Physician Assistant Studies program, which provides a learning-centered education that develops exemplary physician assistants who deliver whole person healthcare with an emphasis on underserved populations.

The residential, entry-level physician assistant master's program prepares students to serve their community as primary care providers through on-campus and clinical training throughout the 26-month program. The department educates physician assistants with a philosophy that patients come first, instilling in students the concept of addressing the entire patient through the body, mind, and spirit. This philosophy has at its core, the tenet that healing is more than treatment of a medical diagnosis. Our practitioners recognize the interconnection of the body (physical nature), mind (psychological and emotional), and spirit (spiritual and/or religious). ATSU graduates address the whole patient through competent medical treatments, application of educational and preventative strategies, psychological support, and value of the individual's spiritual beliefs.

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 campus after work or on the weekends. AWC's programs in Public Safety Administration may be applicable with Charter Oak's Bachelor's degrees.

For more information in regards to the Charter Oak degrees, you can contact them directly at (860) 515-3701 or email admissions@charteroak.edu.

National University

National University- Supporting the Whole You- ***https://www.nu.edu/***

We're proud to be a veteran-founded, San Diego-based nonprofit. Since 1971, our mission has been to provide accessible, achievable, higher education to adult learners.

Today, we educate students from across the U.S. and around the globe, with over 185,000 alumni worldwide.

We customize education plans that include adaptive instruction, holistic student support, and competency-based credentialing. At NU, you'll be better positioned to stay on track and accomplish your specific academic goals.

- 4-week courses- Studying and completing just one course each month keeps you focused on your goals, balanced in your life, and on the fast truck to graduation

- 75+ Degree Programs- Whether you're starting fresh or seeking advancement, our career-focused programs are designed to help you to make an impact in your chosen field.

- WSCUS Accredited- At NU, you'll earn your degree from a reputable, private, non-profit university accredited by WSCUC.

Education designed to support the whole you.

National University offers a holistic approach to student support, well-being, and success, called "Whole Human Education." It means we'll be with you side-by-side, every step of the way, breaking any barriers you face in achieving your education.

Southern New Hampshire University

Southern New Hampshire University is a private, nonprofit, accredited institution with more than 3,000 on campus students, over 135,000 online students and an alumni network of more than 199,000 SNHU alumni worldwide, 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 discount 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 ***https://www.snhu.edu/azwestern***

UofPX

Looking to get a head start on a BS/Information Technology, BS/Management, BS/Nursing, or BS/Health Management? UOPX

Looking to get a head start on a BS/Information Technology, BS/Management, BS/Nursing, or BS/Health Management? UOPX provides concurrent enrollment classes during your associates program. 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 and an estimated credit transfer up to 87 credits.

Go to University of Phoenix ***https://www.phoenix.edu/communitycollege*** and learn more.

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.

UNIVERSITY OF MARYLAND GLOBAL CAMPUS

To learn more about our National Community College Alliance program, please visit www.umgc.edu/cctransfer or to speak with a UMGC advisor, email cctransfer@umgc.edu.

University of Maryland Global Campus

Earning your bachelor's degree at University of Maryland Global Campus (UMGC) is now easier and more affordable because of our partnership with Arizona Western College. UMGC accepts up to 70 transfer credits from approved two-year institutions and up to 90 transfer credits from approved four-year institutions. As a UMGC transfer student, you can also take advantage of a $50 application fee waiver for new students and up to a 25% discount on out-of-state tuition.

Academic Programs

Fields of Interest

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.

ARTS, HUMANITIES, SOCIAL & BEHAVIORAL SCIENCES

Transform your life and communities with vigorous, immersive studies in written and spoken communication, the visual and performing arts, modern languages, and human behavior.

BUSINESS & COMPUTER INFORMATION SYSTEMS

Acquire the essential skills necessary to pursue a career in business, accounting, IT, informatics, video game design, and beyond.

EDUCATION

Help students reach their full potential and unlock a love for learning through a career in the field of education.

HEALTHCARE & PUBLIC SAFETY

Help improve the quality of life for those in your community through a rewarding career in nursing, fire science, law enforcement, and more.

SCIENCE, ENGINEERING, AGRICULTURE, & MATH

Make an impact on our world by tackling challenges and discovering creative solutions within the field of agriculture, engineering, environmental sciences, and beyond.

TECHNOLOGY, TRADES, & FOOD SCIENCES

Get the hands-on experience you need to prepare for a career in industrial technology, manufacturing, welding, culinary arts, and more.

General Education 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: The AGEC certificate is available, for those students who wish to complete a "general education package" before transferring to an Arizona university. To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic progress.

Major Code: CERT.AGEC

Contact: Advisement Services (928) 344-7624

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
Oral Communication 3-4
Arts & Humanities 6-9
Quantitative Reasoning 3-4
Natural Sciences 4-8
Social & Behavioral Sciences 6-9
Institutions in the Americas. 3

Associate in Applied Science (A.A.S)

Major Code: AAS.OPT

Contact: Advisement Services (928) 344-7624

Program Purpose: Graduates will demonstrate basic knowledge in general education and one or more career and technical disciplines.

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

1. complete the general education requirements

2. create a block of credits: (to meet the required 60 credit program minimum), numbered 100 or higher, in consultation with an academic or faculty advisor. Students should select courses based on exploring various fields of interests. To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic progress.

Electives: complete enough courses to meet program requirement of 60 credits

General Education Requirements **22**

Written Communication (**ENG 101** or **107**) 6
Oral Communication (Select one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service. 3-4
Arts & Humanities 3
Quantitative Reasoning 3
Natural Sciences 4
Social & Behavioral Sciences 3
Institutions in the Americas. 3

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

Associate in Arts (A.A.)

Pathway: AA/GR

Major Code: AA.ASSOC

Contact: Advisement Services (928) 344-7624

Program Purpose: Graduates will demonstrate (1) basic knowledge in the arts, humanities, and social and behavioral sciences that will prepare them for

transfer to the university and (2) critical thinking skills in AWC's General Education focus areas.

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

1. complete the AGEC and

2. create a block of credits: (to meet the required 60 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. To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic

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Electives: complete enough courses to meet program requirement of 60 credits

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Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
Oral Communication 3-4
Arts & Humanities 6-9
Quantitative Reasoning 3-4
Natural Sciences 4-8
Social & Behavioral Sciences 6-9
Institutions in the Americas 3

Total credits required for degree: 60

Associate in Business (A.Bus.)

Pathway: ABUS/GR

Major Code: ABUS.BUSIN

Contact: Business, Education and Social and Behavioral Sciences (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.

Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic

Required major courses:. **22**

   ACC 211 Financial Accounting 3

   ACC 212 Managerial Accounting. 3

   BUA 220 Legal Environment of Business 3

   ECN 240 Principles of Macroeconomics 3

   ECN 250 Principles of Microeconomics 3

   MAT 215 Math Analysis for Business 4

   QBA 211 Quantitative Analysis 3

Other departmental requirements:. **3**

Select an elective course from the following prefixes **ACC, BUA, CIS, ECN, ENT, FIN, MGT,** *or* **MKT.**

Arizona General Education Curriculum (AGEC): 32-35

   Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

   Oral Communication 3-4

   Arts &. Humanities 6-9

   Quantitative Reasoning 3-4

   Natural Sciences 4-8

   Social & Behavioral Sciences 6-9

   Institutions in the Americas. 3

Electives: complete enough courses to meet program requirement of 60 credits

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.

Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic

Required major courses:. **24**

Choose two concentration areas (each of which must be a minimum of 12 credits) from:

   Business/Computers;

   Visual and Performing Arts

   Humanities;

   Mathematics/Sciences;

   Languages/Communications;

   Physical Education/Recreation/Sport;

   Social Science;

   Education/Nursing/Health;

   Occupational/Technology

General Education Requirements **22**

   Written Communication (**ENG 101** or **107**) 6

   Oral Communication (Select one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service. 3-4

   Arts & Humanities 3

   Quantitative Reasoning 3

   Natural Sciences 4

   Social & Behavioral Sciences 3

   Institutions in the Americas. 3

General electives: **14**

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

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 and

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

To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. Sign in to your Self-Service Student Planning account to load the recommended program map and to track your academic

Electives: complete enough courses to meet program requirement of 60 credits

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Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

Total credits required for degree: 60

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 3.0 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 fourteen* 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 3.0 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 fourteen* 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 3.0 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 seven additional Honors credits, comprised of Honors-designated General Education courses and additional HON-prefixed courses.

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

Other departmental requirements:. **7–14**

- 7–14* additional Honors credits comprised of Honors-designated General Education courses and additional HON-prefixed courses.

- Liberal Arts Honors degree (13–14* Honors credits + 8 credits of a foreign language)

- General Studies Honors degree (13–14* Honors credits)

- Discretional degree (7 Honors credits)

General Education: **32-35**

Complete the AGEC or the A.A.S. General Education requirements (22)

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:. **60**

only thirteen credits are required for the A.S. degrees

Academic Programs

Arts, Humanities, Social & Behavioral Sciences

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

Arts

Art: Graphics

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ARTGR

Contact: Liberal Arts (928) 344-7708

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

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

Required major courses: **23**

    ARH 141 Survey of World Art 1 3

    ARH 142 Survey of World Art 2 3

    ART 101 Basic Design, 2-Dimensional 3

    ART 102 Basic Design, 3-Dimensional 3

    ART 111 Drawing 1 3

    GRA 101 Graphic Communication 1 4

    GRA 102 Graphic Communication 2 4

Other departmental requirements: **6**

    Two **ART** or **GRA** courses 200 or higher 6

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas 3

Total credits required for degree: **61**

Art: Studio Art

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ARTST

Contact: Liberal Arts (928) 344-7708

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

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

Required major courses: **15**

    ARH 141 Survey of World Art 1 3

    ARH 142 Survey of World Art 2 3

    ART 101 Basic Design, 2-Dimensional 3

    ART 102 Basic Design, 3-Dimensional 3

    ART 111 Drawing 1 3

Other departmental requirements: **14**

    Four to five **ART** courses 100 or higher

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**. 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas 3

Total credits required for degree: **61**

Computer Graphics

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

Major Code: AAS.COMGR

Contact: Liberal Arts (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.

Required major courses:. **43**

    GRA 101 Graphic Communications 1 4
    GRA 102 Graphic Communications 2 4
    GRA 103 Computer Illustration 4
    GRA 104 Digital Imaging 1 4
    GRA 105 Digital Imaging 2 4
    GRA 106 Page Composition 3
    GRA 201 Interactivity and Graphics 3
    GRA 202 Advanced Interactivity and Graphics 3
    GRA 203 3-D Modeling and Surfacing 4
    GRA 204 Advanced 3-D Graphics 4
    GRA 205 Principles of Animation. 3
    GRA 206 Portfolio and Career Management. 3

General education requirements: **22**

    Written & Oral Communication (ENG 101 or **107 and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service)** 6
    Arts & Humanities 3
    Quantitative Reasoning 3
    Natural Sciences 4
    Social & Behavioral Sciences 3
    Institutions in the Americas. 3

Total credits required for degree:. **65**

Dance

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.DANCE

Contact: Liberal Arts (928) 344-7708

Program Purpose: To serve students in strong local area High School and Studio dance programs who are seeking to pursue dance as a performing art and career. Provides employment opportunities in secondary and post-secondary education; choreographer; producer and director.

Program Description: Students is this major receive a thorough foundation in Dance history, styles, performance, and theory; with the assistance of their Academic Advisors, students then select courses according to according to the major they wish to pursue at the university.

Required major courses:. **15**

    DNC 125 Dance History 3
    DNC 131 Jazz I 2
    DNC 132 Jazz II 2
    DNC 150 Ballet I 2
    DNC 151 Ballet II. 2
    DNC 160 Modern I. 2
    DNC 161 Modern II 2

Other departmental requirements (Select 15 credits from the following courses**):** **15**

    DNC 170 Dance Experiences for Children 2
    DNC 180 Improvisation I. 2
    DNC 225 Dance History II. 3
    DNC 240 Dance Production 3
    DNC 260 Composition I 3
    DNC 261 Composition II. 3
    DNC 270 Dance Pedagogy. 3
    DNC 280 Improvisation II 2
    DNC 290 Dance Heath and Wellness. 2
    PER 188 Dance Team 1
    PER 288 Dance Team 1

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (ENG 101 or **107** and **ENG 102** or **108)** 6
    Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas 3

Total credits required for degree: **62**

Music

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MUSIC

Contact: Liberal Arts (928) 344-7708

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

Program Description: The music major provides a solid foundation in music theory and in voice or instrumental performance training. This program is designed for transfer to the university where students then specialize in particular music majors.

Required major courses: **16**

MUS 111/112 Dictation and Sight Reading 1A/1B. . 2

MUS 191/192 Theory 1A/1B 6

MUS 211/212 Dictation and Sight Reading 2A/2B. . 2

MUS 291/292 Theory 2A/2B 6

Other departmental requirements: **12**

MUS 121/122 Class Piano 1A/1B (for Music Majors)*2

MUS 221/222 Class Piano 2A/2B (for Music Majors)*2

MUS Instrumental or Vocal lessons 4

MUS Performing Ensembles 4

The following are not required, but highly recommended:

MUS 142 Educational Methods for Brass**

not required for piano majors

**recommended for all music majors*

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas 3

Total credits required for degree: **60**

Theatre

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.THETR

Contact: Liberal Arts (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.

Required major courses: **9**

THE 101 Survey of Theatre History. 3

THE 102 History of Contemporary Theatre 3

*THE 172 Acting 2 **OR**

*THE 130 Stagecrafts. 3

*It is highly recommended that both courses be taken.

Other departmental requirements: **12**

Select from the following courses:

THE 171 Acting 1 3

THE 213 Creative Drama. 3

THE 215 Basic Stage Lighting. 3

THE 222 Voice and Diction .3

THE 250 Rehearsal and Production (repeatable) . . 1-3

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

General electives: 7

Total credits required for degree:. 60

Humanities

English

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.ENGLI

Contact: Liberal Arts (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.

Required major courses:. **9**

ENG 190 Introduction to Literature 3
ENG 241 English Literature to 1800 3
ENG 242 English Literature 1800 to Present 3

Other departmental requirements:. **12**

One course in literature, creative writing, or journalism, numbered 125–299

Two courses in literature numbered 170–299

One course in literature numbered 200–299

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
Oral Communication 3-4
Arts & Humanities 6-9
Quantitative Reasoning 3-4
Natural Sciences 4-8
Social & Behavioral Sciences 6-9
Institutions in the Americas. 3

General electives: 7

Total credits required for degree:. 60

English-Language Proficiency Certificate for Non-Native English Speakers

Certificate

Major Code: CERT.ESLPR

Contact: Liberal Arts (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..

Required major courses:. **12**

ESL 94A Advanced Writing and Grammar 3
ESL 94B Advanced Conversation, Reading
          and Vocabulary 3
ESL 93A Intermediate Writing and Grammar*. 3
ESL 93B Intermediate Conversation, Reading
          and Vocabulary 3

Total credits required for certificate **12**

*Course Prerequisite:
ESL 93A prerequisite: **ESL 92B** or **92S** or a proficient entrance score on the ESL placement exam

English as a Second Language

Course Cluster

Contact: Liberal Arts (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 individu-

al, 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 (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.

Philosophy

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.PHILO

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **9**

   PHI 101 Introduction to Philosophy 3

   PHI 103 Introduction to Logic 3

   PHI 105 Introduction to Ethics. 3

Other departmental requirements:. **6**

Select 6 credits from the following courses:

   PHI 210 Philosophy of Science. 3

   PHI 220 Medical Ethics 3

   PHI 233 Philosophy of Religion 3

   PHI 240 Ancient Philosophy 3

   PHI 257 Social and Political Philosophy. 3

Arizona General Education Curriculum (AGEC): 32-35

   Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

   Oral Communication 3-4

   Arts & Humanities 6-9

   Quantitative Reasoning 3-4

   Natural Sciences 4-8

   Social & Behavioral Sciences 6-9

   Institutions in the Americas. 3

General electives: **13**

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

Spanish

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SPANI

Contact: Liberal Arts (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.

Required major courses:. **12**

>   **SPA 251** Intermediate Spanish Grammar
>   and Composition* 3
>   **SPA 263** Introduction to Hispanic Film and Culture* 3
>   **SPA 281** Mexican-American History **OR**
>   **HIS 280** History of Mexico 3
>   *Select one of the following courses:*
>   **SPA 260** Mexican-American Literature*. 3
>   **SPA 261** Introduction to Spanish Literature*. 3
>   **SPA 265** Survey of Spanish and Spanish-American*
>   Literature 3

Arizona General Education Curriculum (AGEC): 32-35

>   **Written Communication** (**ENG 101** or **107** and **ENG 102** or **108**) 6
>   **Oral Communication** .3-4
>   **Arts & Humanities** 6-9
>   **Quantitative Reasoning** 3-4
>   **Natural Sciences** 4-8
>   **Social & Behavioral Sciences** 6-9
>   **Institutions in the Americas**. 3

General electives: **16**

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

>   ***Course Prerequisite**:
>   **SPA 251** prerequisite: SPA 202 or 204
>   **SPA 263** prerequisite: SPA 202 or 204 or near-native fluency in Spanish or high school equivalency from a Spanish speaking country
>   **SPA 260** prerequisite: SPA 202 or 204 or near-native fluency in Spanish or high school equivalency from a Spanish speaking country
>   **SPA 261** prerequisite: SPA 202 or 204 or near-native fluency in Spanish or high school equivalency from a Spanish speaking country
>   **SPA 265** prerequisite: SPA 202 or 204 or near-native fluency in Spanish or high school equivalency from a Spanish speaking country

Communication

Broadcasting

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

Major Code: AAS.BRDCA

Contact: Liberal Arts (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.

Required major courses:. **12**

>   **BDC 100** Introduction to Broadcasting. 3
>   **BDC 120** Announcing and Performance 1. 3
>   **BDC 140** Announcing and Performance 2. 3
>   **BDC 210** Broadcast Writing. 3

Other departmental requirements:. **6**

>   **Select one course from each area listed below:**
>   Journalism (print)
>   Computer Information Systems (CIS)

General education requirements: **22**

>   **Written & Oral Communication** (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

General electives: **20**

Total credits required for degree: **60**

Media Arts

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.MDART

Contact: Liberal Arts (928) 344-7708

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

Program Description: This program is designed for those students who wish to continue their studies in the following university majors: broadcasting, electronic media, advertising, photography, public relations, and media arts.

Required major courses: **23**

BDC 100 Introduction to Broadcasting 3

GRA 101 Graphic Communications 1 4

JRN 100 Introduction to Mass Communications . . . 3

JRN 125 News Writing 3

SPC 215 Public Speaking 3

TVP 125 Television Production 1 4

MKT 120 Principles of Sales O**R**

MKT 110 Principles of Marketing 3

Other departmental requirements: **6**

Select 6 credits from the following prefixes:

ART (photography courses only), **BDC, GRA, JRN,** or **TVP.** Students should meet with an advisor in their chosen emphasis to determine which courses best fit their needs and which are transferable.

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning. .3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas 3

Total credits required for degree: **61**

Media Arts

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

Major Code: AAS.MDART

Contact: Liberal Arts (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.

Required major courses: **26**

BDC 100 Introduction to Broadcasting 3

GRA 101 Graphic Communications 1 4

JRN 100 Introduction to Mass Communications . . . 3

JRN 125 News Writing 3

SPC 215 Public Speaking 3

TVP 125 Television Production 1 4

Independent Study/Internship -
ART (photography classes only), **BDC, GRA, JRN** or **TVP 299** 3

MKT 120 Principles of Sales OR

MKT 110 Principles of Marketing 3

Other departmental requirements: **17**

Select an area of emphasis from one of the following prefixes:

ART (photography courses only), **BDC, GRA, JRN,** or **TVP.**. 9

Select additional courses from the following prefixes:

ART (photography courses only), **BDC, GRA, JRN,** or **TVP**. 8

General education requirements: 22

Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3
    Quantitative Reasoning. 3
    Natural Sciences 4
    Social & Behavioral Sciences 3
    Institutions in the Americas. 3

Total credits required for degree:. 65

Media Arts

Certificate

Major Code: CERT.MDART

Contact: Liberal Arts (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.

Required major courses:. 26

    BDC 100 Introduction to Broadcasting 3
    GRA 101 Graphic Communications 1 4
    JRN 100 Introduction to Mass Communications . . . 3
    JRN 125 News Writing 3
    SPC 215 Public Speaking 3
    TVP 125 Television Production 1 4
    ART (photography courses only), **BDC**, **GRA, JRN, PHO,** or **TVP 299** Independent Study/Internship . . . 3
    MKT 120 Principles of Sales OR
    MKT 110 Principles of Marketing. 3

Other departmental requirements:. 9

Select an area of emphasis from one of the following prefixes: ART *(photography courses only)*, **BDC, GRA, JRN, PHO,** *or* **TVP**.

Total credits required for certificate: 35

Television Production

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

Major Code: AAS.TVPRO

Contact: Liberal Arts (928) 344-7708

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

Program Description: AWC provides TV classes and programs on AWC-74, cable channel 74. This is a joint project with NAU in Yuma, the City of Yuma, the Yuma Educational Consortium, and Time Warner Cable. AWC-74 programming includes telecourses offered by AWC faculty, courses from other educational institutions, PBS shows, productions and cablecasts of educationally related subjects, cultural events, and AWC sports. AWC's TV studio is a modern facility which trains students who are seeking a job in television, production companies, and media related fields. The program provides practical experience in the use of professional equipment in a television studio.

Required major courses:. 31

    BDC 100 Introduction to Broadcasting 3
    BDC 120 Announcing and Performance 1 3
    BDC 210 Broadcast Writing. 3
    BDC 215 Audio Production 3
    JRN 100 Introduction to Mass Communications . . . 3
    SPC 215 Public Speaking 3
    TVP 125 Television Production 1 4
    TVP 170 TV Control Room Operation 3
    TVP 225 Television Production 2 3
    TVP 250 Video Post Production. 3

Other departmental requirements:. 6

    JRN 125 News Writing 3
    Any **CIS** course 3

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

    Quantitative Reasoning. 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas. 3

General electives (Complete enough credits to meet program requirement). . . . .

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

Academic Programs

Social & Behavioral Sciences

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

Basic Behavioral Health Sciences Track A

Certificate

Major Code: CERT.BHSTA

Contact: Allied Health, (928) 344-7552

Program Purpose: This program is designed to provide students with the basic knowledge and skills vital to many behavioral health work environments.

Program Description: Provide students with a foundation in the study of human behavior and prepare them to assist in caring for individuals with mental illness, challenging behaviors, and comorbid medical conditions. The focus of this program is on didactic knowledge, hands-on learning experiences, and practical training for students with no previous behavioral health, nursing assistant, caregiver, or medical assistant training or work experience.

Required major courses:. **12**

    BHS 101 Introduction to Behavioral Health &
          Communication Skills 2
    BHS 102 Behavioral Health Skills & Safety Lab 2
    BHS 103 Case Documentation 1
    BHS 104 Behavioral Health Clinical Experience. . . . 2
    BHS 105 Clinical Behaviors 2
    BHS 106 Personal Wellbeing & Community Resources 3

Total credits required for certificate: **12**

Basic Behavioral Health Sciences Track B

Certificate

Major Code: CERT.BHSTB

Contact: Allied Health, (928) 344-7552

Program Purpose: This program is designed to give students foundational behavioral health knowledge and skills to enhance their competency level for working with behavioral health clients.

Program Description: Provide students with a foundation in the study of human behavior and prepare them to assist in caring for individuals with mental illness, challenging behaviors, and comorbid medical conditions. The focus of this program is on didactic knowledge, hands-on learning experiences, and practical training for students with no previous behavioral health, nursing assistant, caregiver, or medical assistant training or work experience.

Required major courses:. **10**

    BHS 101 Introduction to Behavioral Health &
          Communication Skills 2
    BHS 103 Case Documentation 1
    BHS 104 Behavioral Health Clinical Experience. . . . 2
    BHS 105 Clinical Behaviors 2
    BHS 106 Personal Wellbeing & Community Resources 3

Total credits required for certificate: **10**

Basic Behavioral Health Sciences Track C

Certificate

Major Code: CERT.BHSTC

Contact: Allied Health, (928) 344-7552

Program Purpose: This program is designed to give students the foundational knowledge to enhance their current role in a behavioral health work environment.

Program Description: Provide students with a foundation in the study of human behavior and prepare them to assist in caring for individuals will mental illness, challenging behaviors, and comorbid medical conditions. The focus of this program is on didactic knowledge and practical training for students with verified work experience in a behavioral health setting.

Required major courses:. 8

    BHS 101 Introduction to Behavioral Health &
        Communication Skills 2

    BHS 103 Case Documentation 1

    BHS 105 Clinical Behaviors 2

    BHS 106 Personal Wellbeing & Community Resources 3

Total credits required for certificate: 8

Family Sciences

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.FAS

Contact: Business, Education and Social and Behavioral Sciences(928) 344-7689

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

Program Description: This program strives to integrate relationships between individuals, families, and communities as well as the environments in which they function. This profession is concerned with: the strength and vitality of families; the use of personal, social, and material resources to meet human needs; the well-being of individuals and families; the role of individuals and families as consumers of goods and services; and the development and management of home and community environments that are supportive of individuals and families. Any student may take courses in this area for personal or professional development. Some FAS courses fulfill general education requirements (AGEC and A.A.S.) in the Social and Behavioral Sciences category. To reach the objectives of the profession, students are advised to continue and complete a bachelor's degree for employability in this area.

Required major courses:. 12

    ECE 240 Child Growth and Development. 3

    FAS 160 Close Relationships 3

    FAS 238 Human Development 3

    NTR 201 Nutrition* 3

Other departmental requirements: 9

    FAS 204 Gender Relations 3

    FAS 101 Family Culture & Structure 3

    PSY 170 Human Sexuality 3

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas 3

General electives: 7

Transfer students: PSY 290 Introduction to Research Methods and PSY230 Statistics for Social Sciences are required for university pathways.

Total credits required for degree: 60

*Course Prerequiste:
    NTR 201 prerequisite: High school chemistry or **BIO 100** or **CHM 130**

Geography

Associate in Science (A.S.) degree

Pathway: AS/GR

Major Code: AS.GEOG

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **13**

    GEO 102 Introduction Human Geography 3
    GEO 105 World Regional Geography 3
    GPH 110 Introduction to Physical Geography 4
    GST 101 Introduction to Geospatial Technology . . . 3

Other departmental requirements:. **14**

Select at least one of the following two courses:
    GPH 171 Introduction to Meteorology 4
    GPH 213 Introduction to Climate Science. 4
Select additional courses from **GEO, GPH, GST, UAS** 10

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
    Oral Communication 3-4
    Arts & Humanities 6-9
    Quantitative Reasoning .3-4
    Natural Sciences 4-8
    Social & Behavioral Sciences 6-9
    Institutions in the Americas. 3

General electives: **1**

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

    *Course Prerequisite:
    MAT 220 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

History

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.HISTO

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **9**

    HIS 111 World History Since 1500 3
    HIS 121 History of the U.S. to 1865 3
    HIS 122 History of the U.S. from 1865. 3

Other departmental requirements:. **12**

Select 12 credits from the following courses:
    GEO 105 World Regional Geography 3
    HIS 110 World History to 1500 3
    HIS 220 History of Arizona 3
    HIS 230 Women in American History. 3
    HIS 240 Western Civilization 1 3
    HIS 241 Western Civilization 2 3
    HIS 280 History of Mexico. .3

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
    Oral Communication 3-4
    Arts & Humanities 6-9
    Quantitative Reasoning .3-4
    Natural Sciences 4-8
    Social & Behavioral Sciences 6-9
    Institutions in the Americas. 3

General electives: **7**

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

Political Science

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.POLSC

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **6**

    POS 100 Introduction to Politics 3

    POS 110 American Politics 3

Other departmental requirements:. **6**

    POS 120 World Politics 3

    POS 130 State and Local Politics 3

    POS 140 Comparative Politics 3

    POS 257 Social and Political Philosophy 3

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

    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

    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) 6

General electives: **17**

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

Psychology/Sociology

Associate in Arts (A.A.) degree

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

Major Code: AA.PSYSO

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **22**

    PSY 101 Introduction to Psychology. 3

    PSY 270 Social Psychology 3

    PSY 281 Abnormal Psychology 3

    PSY 290 Research Methods for the Social Sciences 4

    SOC 101 Introduction to Sociology 3

    SOC 230 Social Problems 3

    SOC 240 Racial and Ethnic Relations 3

Other departmental requirements:. **3–4**

Select one of the following courses:

    PSY 230 Statistics for the Social Sciences 4
        (required in the baccalaureate
        Psychology major)

    SOC 160 Close Relationships (required in the 3
        baccalaureate Sociology major)

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (ENG 101 or **107** and **ENG 102** or **108**) 6

    Oral Communication .3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas. 3

General electives: **3**

It is recommended that at least one of the following courses be taken as an elective:

ANT 130 Cultural Anthropology

PSY 140 Positive Psychology

PSY/SOC 170 Human Sexuality

PSY 227 Personality

PSY/FAS 238 Human Development

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

Social Work: US-Mexico Border Emphasis

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SOCWK

Contact: Business, Education and Social and Behavioral Sciences (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 well-being. Graduates will be ready to enter university baccalaureate study versed in the underpinnings of the field of social work. "Guided by a person and environment construct, a global perspective, respect for human diversity, and knowledge based on scientific inquiry, social work's purpose is actualized through its quest for social and economic justice, the prevention of conditions that limit human rights, the elimination of poverty, and the enhancement of the quality of life for all persons." (Council on Social Work Education, 2008, p. 1)

Required major courses:. **12**

PSY 101 Introduction to Psychology. 3

PSY/FAS 238 Human Development 3

SOC 240 Racial and Ethnic Relations 3

SOC 250 Introduction to Social Work. 3

Other departmental requirements:. **10**

HIS 280 History of Mexico. 3

FAS 185 Family Communication Skills 3

PSY 230 Statistics for the Social Sciences 4

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

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

Arts and Humanities (**PHI 105** Introduction to Ethics and an Arts course) 6

Social and Behavioral Sciences (**SOC 101** Introduction to Sociology and **FAS 204** Gender Relations). 6

Physical and Biological Sciences (**BIO 160** Introduction to Human Anatomy and Physiology and one additional course) 8

Additional Courses (**SPC 215 Public Speaking** recommended and **CIS 120 Computer Information Systems- Recommended for NAU-Yuma BSW**). . . 6

General electives: 3

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

Business & Computer Information Systems

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

Business

Accounting

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

Major Code: AAS.ACCT

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses: 33

    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 220 Introduction to Cost Accounting 3
    ACC 230 Principles of Fraud Examination 3
    ACC 240 Government Accounting 3
    ACC 250 Financial Statement Analyses 3
    ACC 260 Accounting Ethics 3

Other departmental requirements: 12

    BUA 100 Survey of Business 3
    CIS 121 Spreadsheet 3
    CIS 120 Introduction to Computer
             Information Systems **OR**
    CIS 105 Introduction to Business
             Information Systems 3

Select one of the following courses:

    ECN 100 Introduction to Economics 3
    ECN 240 Principles of Macroeconomics 3
    ECN 250 Principles of Microeconomics 3

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107**
and one more course from the AAS GE Written and Oral
Communication categories- consult your advisor or see
requirements in Self-Service) 6
    Arts & Humanities 3
    Quantitative Reasoning MAT 142 College Mathematics
with Applications or approved higher level math 3
    Natural Sciences 4
    Social & Behavioral Sciences 3
    Institutions in the Americas 3

Total credits required for degree: **67**

Accounting

Certificate

Major Code: CERT.ACCT

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses: **33**

    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 220 Introduction to Cost Accounting 3

ACC 230 Principles of Fraud Examination. 3

ACC 240 Government Accounting. 3

ACC 250 Financial Statement Analyses 3

ACC 260 Accounting Ethics 3

Other departmental requirements:. 12

BUA 100 Survey of Business 3

CIS 121 Spreadsheet 3

CIS 120 Introduction to Computer
Information Systems **OR**

CIS 105 Introduction to Business
Information Systems .3

Select one of the following courses:

ECN 100 Introduction to Economics 3

ECN 240 Principles of Macroeconomics 3

ECN 250 Principles of Microeconomics 3

Total credits required for certificate: 45

Bookkeeping

Certificate

Major Code: CERT.BOOK

Contact: Business, Education and Social and
Behavioral Sciences (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 seek-
ing additional education. Graduates will be employed
in entry level accounting positions.

Required major courses:. 22

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

Other departmental requirements:. 3

CIS 121 Spreadsheet 3

Total credits required for certificate: 27

Basic Logistics

Certificate

Major Code: CERT.LGS1

Contact: Entrepreneurial College (928) 314-9449

Program Purpose: To obtain a certificate in Basic
Logistics.

Program Description: In this program students will
delve into the essentials of global trade infrastructure. This
certificate covers the three core components of logistics
networks: transportation, warehousing, and inventory man-
agement. Upon completion, students will be able to identify
the pros and cons of various transportation methods. They
will gain insights into the design and establishment of ware-
housing facilities. Ultimately, they will be equipped to make
choices that help create logistics networks optimized for
cost-efficiency and excellent customer service.

Required major courses:. 3

LGS 111 Introduction to Logistics 3

Total credits required for degree:. 3

Foundational Planning, Procurement, and Service Operations

Certificate

Major Code: CERT.LGS2

Contact: Entrepreneurial College (928) 314-9449

Program Purpose: Students will learn the planning,
procurement, and service operations of logistical
operations.

Program Description: Students will learn essential elements of logistics with a focus on sales operations, demand forecasting, replenishment planning, manufacturing services, sourcing strategies, and transaction execution. Students will be equipped with the skills to manage the planning and procurement processes necessary to succeed in supply chain operations.

Required major courses:. **3**

    LGS 112 Foundational Planning, Procurement, and Service Operations 3

Total credits required for degree:. **3**

Overview of Supply Chain Principles with U.S.-Mexico Border Emphasis

Certificate

Major Code: CERT.LGS3

Contact: Entrepreneurial College (928) 314-9449

Program Purpose: To learn about supply chain principles emphasizing the U.S. - Mexico border.

Program Description: Students will gain knowledge and practical skills in logistics and supply chain management, focusing on the unique challenges and opportunities presented by the U.S. -Mexico border region. Students will gain an understanding of customs regulations, trade agreements, and cultural considerations that influence supply chain operations.

Required major courses:. **3**

    LGS 113 Overview of Supply Chain Principles with U.S. Mexico Border Emphasis 3

Total credits required for degree:. **3**

Business

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

Major Code: AAS.BUS

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **21**

    BUA 100 Survey of Business 3
    BUA 110 Business Math Applications. 3
    BUA 220 Legal Environment of Business 3
    BUA 295 Business Capstone Project 3
    ACC 100 Introduction to Accounting **OR**
    ACC 211 Financial Accounting 3
    CIS 120 Introduction to Computer
                 Information Systems **OR**
    CIS 105 Introduction to Business
                 Information Systems 3
    ECN 100 Principles of Economics **OR**
    ECN 250 Microeconomics. 3

Other departmental requirements:. **15**

Take at least 15 credits from one of the following emphases:

Customer Service Management

    BUA 109 Principles of Human Relations 3
    BUA 210 Customer Service Management. 3
    BUA 290 Business Communications 3
    MGT 250 Personnel Supervision 3
    MKT120 Principles of Sales. .3

Entrepreneurship

    ENT 100 Introduction to Entrepreneurship. 3
    ENT 200 Entrepreneurship Practicum 3
    ENT 220 Marketing the Entreprenuerial Venture 3
    ENT 240 Business Plan Development 3
    MKT 120 Principles of Sales .3

Financial Investments

    ACC 250 Financial Statement Analysis 3
    FIN 100 Stock Market Basics. 3

FIN 110 Mutual Fund Basics .3

FIN 140 Financial Markets and Institutions 3

FIN 150 Personal Finance 3

General Business

BUA 109 Principles of Human Relations 3

BUA 290 Business Communications 3

FIN 100 Stock Market Basics 1 3

MGT 135 Management Fundamentals 3

MKT 120 Principles of Sales .3

Logistics

LGS 101 Introduction to Logistics 3

LGS 103 Freight Claims and Contracts 3

LGS 105 Warehouse Management. 3

LGS 106 Transportation and Traffic Management . . .3

LGS 107 Introduction to Purchasing 3

Management

BUA 109 Principles of Human Relations 3

BUA 290 Business Communications 3

ENT 100 Introduction to Entrepreneurship 3

MGT 135 Management Fundamentals 3

MGT 250 Personnel Supervision **OR**

MGT 280 Leadership 3

Marketing

MKT 110 Principles of Marketing. 3

MKT 120 Principles of Sales .3

MKT 130 Principles of Digital Marketing. 3

MKT 140 Principles of Advertising. 3

MKT 150 Social Media Marketing 3

General education requirements: **22**

Written & Oral Communication (**ENG 101** or **107**
and one more course from the AAS GE Written and Oral
Communication categories- consult your advisor or see
requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning. 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas. 3

General electives (BUA 240 AI for Business recom-
mended) 2

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

Business Administrative Services

Certificate

Major Code: CERT.BUSAD

Contact: Business, Education and Social and
Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate basic
knowledge in office administrative services that will pre-
pare 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.

Required major courses:. **15**

BUA 100 Survey of Business 3

BUA 110 Business Math Applications. 3

BUA 210 Customer Service Management. 3

CIS 105 Introduction to Business
Information Systems .3

ACC 100 Introduction to Accounting OR 3

ACC 211 Financial Accounting 3

Other departmental requirements: **15**

Select at least 15 credits from the following courses:

BUA 109 Principles of Human Relations 3

BUA 290 Business Communications 3

CIS 121 Spreadsheet 3

CIS 131 Database*. 3

FIN 150 Personal Finance 3

MGT 250 Personnel Supervision 3

MKT 120 Principles of Sales .3

CIM 141 Keyboarding: Introduction **OR** 2

CIM 142 Keyboarding: Intermediate 2

Total credits required for certificate: **30**

*Course Prerequisite:
CIS 131 prerequisite: **CIS 105** or **CIS 120** and **MAT 81**
or approved higher math

Digital Marketing & E-Commerce

Certificate

Major Code: CERT.DME

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The purpose of this certificate is to prepare students with a basic knowledge and understanding of digital marketing and e-commerce and how to attract and engage customers through digital marketing channels like search and email, measure marketing performance through analytics and present insights, build e-commerce stores, analyze online performance, and grow customer loyalty.

Program Description: Students will get the knowledge and skills needed to create, attract, and engage customers through multiple digital channels. They will be able to analyze performance and grow their base.

Required major courses:. **4**

    DME 101 Digital Marketing & E-Commerce 4

Total credits required for degree:. **4**

Fashion Styling with Digital Influence

Certificate

Major Code: CERT.FDI

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: With the rise of social media's influence the landscape of fashion is shifting rapidly. Digital platform knowledge and skills are necessary for the growing need within the fashion industry.

Program Description: Students will develop the knowledge and skills to develop and promote a brand on social media platform.

Required major courses:. 13-**14**

Select one option:

Fashion Styling with Digital Influence

    FDI 100 Fashion Styling 1
    FDI 101 Image Consulting 1

    FDI 105 Creating Effective Content 3
    FDI 106 Building a Brand Through Digital Influence .3
    FDI 115 Data Insight and Fashion Analytics 3
    MKT 150 Social Media Marketing 3

Fashion Styling with Digital Influence and Global Experience

    FDI 100 Fashion Styling 1
    FDI 101 Image Consulting 1
    FDI 105 Creating Effective Content 3
    FDI 106 Building a Brand Through Digital Influence .3
    FDI 205 Exploration of Global Fashion 2-4
    MKT 150 Social Media Marketing 3

Total credits required for certificate: **13-14**

Fashion Retail Management with Emphasis on Merchandising and Buying

Certificate

Major Code: CERT.FRM

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: This program will help prepare the students to meet industry demands for trend spotting, and design knowledge.

Program Description: Fundamentals in fashion merchandising, buying and planning based on forecasting.

Recommended program prerequisite:

    MAT 142 College Mathematics with Applications . . 3

Required major courses:. 31

    FSH 100 Fashion History 2
    FSH 101 Universal Fashion Culture 2
    FSH 105 Fashion Pop Culture. 2
    MKF 100 Fashion Marketing and Digital Technology 3
    MKF 101 Fashion Business Principles 3
    MKF 102 Fashion Forcasting 2
    MKF 108 Retail Buying and Planning 3
    MKF 109 Visual Design and Merchandising 2

MKF 110 Global Marketing 3

MKF 112 Global Merchandising 3

MGT 135 Management Fundamentals 3

MGT 250 Personnel Supervision 3

Total credits required for certificate: 31

Hotel/Restaurant Management

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.HOTEL

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. 20

BUA 210 Customer Service Management. 3

BUA 220 Legal Environment of Business 3

CUL 141 Basic Culinary Arts 1. 3

CUL 143 ServSafe Prep and Exam 2

CUL 253 Food and Beverage Management 3

HRM 100 Introduction to Hospitality 3

HRM 220 Property Management 3

Other departmental requirements:. 3

ACC 211 Financial Accounting 3

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

General Electives - Complete enough credits to satisfy program requirements . . . .

Total credits required for degree:. 60

Marketing

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

Major Code: AAS.MKT

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate (1) foundational knowledge of Marketing, Sales, Digital Marketing, Social Media Marketing, Branding, Community Marketing/Public Relations, and Advertising that will prepare them to obtain an entry-level position within the field and (2) critical think-ing skills in AWC's General Education focus areas of English and Math.

Program Description: This degree is designed for students who are seeking a two-year program of study that prepares them to enter the marketing pro-fession in a wide range of positions across private, public, and non-profit sectors.

Required major courses: 21

MKT 110 Principles of Marketing. 3

MKT 120 Principles of Sales 3

MKT 130 Principles of Digital Marketing. 3

MKT 140 Principles of Advertising 3

MKT 150 Principles of Social Media Marketing 3

MKT 290 Integrated Marketing Communications
Capstone 3

MKT 295 Marketing Internship. 3

Other departmental requirements:. 12

BUA 100 Survey of Business 3

BUA 220 Legal Environment of Business 3

BUA 290 Business Communications. 3

CIS 105 Introduction to Business
Information Systems .3

General education requirements: 22

Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

Quantitative Reasoning **MAT 142** College Mathematics with Applications or approved higher level math 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas. 3

General electives -Select from the following courses . .9

    MKT 110 Principles of Marketing. 3

    MKT 120 Principles of Sales 3

    MKT 130 Principles of Digital Marketing. 3

    MKT 140 Principles of Advertising 3

Total credits required for degree:. 64

Organizational Leadership

Certificate

Major Code: CERT.ORGLD

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. 18

    BUA 100 Survey of Business. 3

    BUA 109 238 Principles of Human Relations 3

    BUA 290 Business Communications. 3

    MGT 135 Management Fundamentals 3

    MGT 280 Leadership 3

    BUA 210 Customer Service Management OR 3

    MGT 250 Personnel Supervision 3

Total credits required for certificate: 18

Project Management

Certificate

Major Code: CERT.PMT

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: This certificate is designed to prepare learners to enter the field of project management. Students will gain in-demand skills and engage in simulated real-world project management scenarios while building a foundation of knowledge, preparing them for an entry-level position in Project Management.

Program Description: An introduction to the field of project management in functional areas such as foundational project management, terminology, project initiation, defining and creating measurable project goals and deliverables, project evaluation, team development, effective communication, engaging in practices aligned with Agile project management, and in real-world scenario projects and activities, while building a foundation of knowledge, preparing them for an entry-level position in Project Management.

Required major courses:. 4

    PMT 101 Project Management 4

Total credits required for degree:. 4

Retail Management

Certificate

Major Code: CERT.RETMG

Contact: Business, Education and Social and

Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate an understanding of retail operations including skills in customer service, marketing, and basic store management. Completing this certificate will prepare students for entry-level positions in the retail industry.

Program Description: This program offers foundational training in key aspects of retail management. Designed for those looking to enter the retail industry or enhance their current skills, this program covers essential areas such as customer service, marketing, and basic store operations. Completing this certificate equips students with the necessary skills to begin a career in retail, preparing them for entry-level positions and future growth opportunities.

Required major courses:. **30**

   ACC 100 Introduction to Accounting 3
   BUA 109 Principles of Human Relations 3
   BUA 110 Business Math Applications. 3
   BUA 210 Customer Service Management. 3
   BUA 290 Business Communications. 3
   CIS 120 Introduction to Computer Information
           Systems. 3
   MGT 135 Management Fundamentals 3
   MGT 220 Principles of Retailing. 3
   MKT 110 Principles of Marketing. 3
   MKT 130 Principles of Digital Marketing. 3

Total credits required for certificate: **30**

Sports Management

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.SPMGT

Contact: Allied Health (928) 344-7552

Program Purpose: Graduates will learn basic skills in management and marketing. They will demonstrate critical thinking skills that will prepare them for an entry level position in the field or prepare them to transfer to a university to further pursue an education in the sports management field.

Program Description: This program prepares graduates with essential skills required for an entry level position in a variety of sports management fields.

Required major courses:. **21**

   ACC 100 Introduction to Accounting. 3
   CIS 120 Introduction to Computer
          Information Systems 3
   PED 102 Issues in Sports 3
   PEM 125 Foundations of Sports Management 3
   PEM 135 Sports Marketing. 3
   PEM 203 Sports Psychology 3
   SPC 215 Public Speaking 3

Arizona General Education Curriculum (AGEC): 32-35

   Written Communication (ENG 101 or 107 and ENG 102 or 108) 6
   Oral Communication 3-4
   Arts & Humanities 6-9
   Quantitative Reasoning 3-4
   Natural Sciences. 4-8
   Social and Behavioral Sciences (ECN 240 Principles of Macroeconomics and **ECN 250**
   Principles of Microeconomics) 6
   Institutions in the Americas **3**

General electives: **8**

Select 8 credits from the following courses:

   PED 120 Leisure and Quality of Life 3
   PEM 102 Emergency Procedures for Coaches. 2
   PEM 201 The Business of Athletic Coaching. 3
   PEM 204 Methods of Coaching Sports. 3

Total credits required for degree:. **61**

Paralegal Studies

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

Major Code: AAS.LEGAL

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **43**

>   **LAS 100** Introduction to Paralegalism. 3
>   **LAS 101** Introduction to Law 3
>   **LAS 109** Legal Procedures 4
>   **LAS 115** Criminal Trial Procedure. 3
>   **LAS 131** Legal Writing 3
>   **LAS 204** Business Law for Paralegals 3
>   **LAS 208** Probate 3
>   **LAS 211** Legal Research 3
>   **LAS 212** Insurance and Tort Law 3
>   **LAS 216** Real Estate Transactions. 3
>   **LAS 217** Family Law 3
>   **LAS 218** Administrative Law 3
>   **LAS 219** Bankruptcy. 3
>   **LAS 220** Legal Interviewing, Investigating,
>   and Report Writing 3

General education requirements: **22**

>   **Written & Oral Communication** (**ENG 101** or **107**
> and one more course from the AAS GE Written and Oral
> Communication categories- consult your advisor or see
> requirements in Self-Service) 6
>   **Arts & Humanities** 3
>   **Quantita**tive Reasoning. 3
>   **Natural Sciences** 4
>   **Social & Behavioral Sciences** 3
>   **Institutions in the Americas** 3

Total credits required for degree: **65**

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

>   **CIS 120** Introduction to Computer
>   Information Systems
>   **CIS 175** Computer Security
>   **LAS 221** Computerized Law Office
>   and Litigation Support
>   **LAS 222** Paralegal Internship 1

Paralegal Studies

Certificate

Major Code: CERT.LEGAL

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **22**

>   **LAS 101** Introduction to Law* 3
>   **LAS 109** Legal Procedures 4
>   **LAS 131** Legal Writing 3
>   **LAS 204** Business Law for Paralegals 3
>   **LAS 211** Legal Research 3
>   **LAS 220** Legal Interviewing, Investigating, and Report
>   Writing* 3
>   **LAS 221** Computerized Law Office and Litigation
>   Support 3

Total credits required for certificate: **22**

>   ***Course Prerequisite:**
>   **LAS 101** prerequisite: **ENG 100** or higher-level composition course
>   **LAS 220** prerequisite: **LAS 100**

Computers

Cloud Architecting

Certificate

Major Code: CERT.AWSCA

Contact: Reskilling & Technology Center (928) 317-7674

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 ser-

vices.

Required major courses:. **3**

    PIT 131 Amazon Web Services Cloud Architecting* 3

Total credits required for degree:. **3**

   *Course Prerequisite:
   PIT 131 prerequisite: PIT 130

Cloud Foundations

Certificate

Major Code: CERT.AWSCF

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses:. **2**

    PIT 130 Amazon Web Services Cloud Architecting . 2

Total credits required for degree:. **2**

Computer Information Systems

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

Major Code: AAS.CIS

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. **21**

    ACC 211 Financial Accounting 3
    BUA 100 Survey of Business 3
    CIS 105 Introduction to Business Information Systems 3
    CIS 260 Introduction to Operating Systems 3
    CIS 295 Structured Systems Analysis and Design. . . 3
    QBA 211 Quantitative Business Analysis. 3
    BUA 110 Business Application Concepts **OR**
    CIS 121 Spreadsheets. 3

Other departmental requirements:. **15**

Take at least 15 credits from one of the following emphases:

Programming

    CIS 131 Database. 3
    CIS 180 Computer Programming Logic. 3
    CIS 200 Computer Programming: Visual BASIC. . . . 4
    CIS 220 Computer Programming: C 4
    CIS 270 Networking Fundamentals 3

Security

    CIS 175 Computer Security. 3
    CIS 270 Networking Fundamentals 3
    CIS 271 Networking Administration. 3
    CIS 275 Fundamentals of Network Security 3
    CIS 272 Network Routing and Swtiching. 3

Web Development

    CIS 151 Web Design 1. 3
    CIS 154 Introduction to E-Commerce/E-Business . . 3
    CIS 180 Computer Programming Logic. 3
    CIS 200 Computer Programming: Visual BASIC . . . 4
    MKT 120 Principles of Sales 3

General Education Requirements **22**

> **Written Communication** (**ENG 101** or **107**) 6
>
> **Oral Communication** (Select one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service 3-4
>
> **Arts & Humanities** 3
>
> **Quantita**tive Reasoning 3
>
> **Natural Sciences** 4
>
> **Social & Behavioral Sciences** 3
>
> **Institutions in the Americas**. 3

General electives- Complete enough credits to meet program requirements

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

Computer Information Systems

Certificate

Major Code: CERT.CISYS

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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

Program Description: This program is for students seeking immediate entry-level employment in an office environment or computer industry.

Required major courses:. **12**

> **ACC 100** Introduction to Accounting 3
>
> **BUA 100** Survey of Business 3
>
> **BUA 110** Business Math Applications. 3
>
> **ENG 101** Freshman Composition I. 3

Other departmental requirements:. **20**

> **CIS 180** Computer Programming Logic 3
>
> **CIS 200** Computer Programming: Visual BASIC . . . 4
>
> **CIS 220** Computer Programming: C#. 4
>
> **CIS 260** Introduction to Operating Systems 3
>
> **CIS 295** Structured Systems Analysis and Design. . . 3
>
> **CIS 120** Introduction to Computer Information
>   Systems **OR**
>
> **CIS 105** Introduction to Business Information Systems 3

Total credits required for certificate: **32**

Computer Science

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CSCIE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: This Associate of Science degree focuses on the theoretical foundations and skill sets of computing, algorithms, and programming techniques, as applied to operating systems, programming, artificial intelligence, computer science and informatics.

Program Description: Focuses on computers, computing problems, software solutions, computer design, and graphical user interface design from a scientific perspective. Includes instruction in the principles of computational science, computing theory, computer system design, graphical user interface design, digital logic and software development.

Required major courses:. **23**

> **CSC 127B** Intro to Computer Science 2* 4
>
> **CSC 261** Linux/UNIX Operating Systems 3
>
> **MAT 227** Discrete Math*. 3
>
> **MAT 230** Calculus II with Analytic Geometry. 5
>
> **MAT 241** Calculus III with Analytic Geometry 4
>
> **CSC 127A** Intro to Computer Science 1 **OR**
>
> **EGR 123** Intro to Structured Programming* 4

Other departmental requirements:. **7**

Select one of the following emphasis and complete the required courses as listed for the chosen emphasis:

> **CSC 252** Computer Organization **OR**
>
> **CSC 253** Digital Logic. 3
>
> **CSC 210** Human Computer Interaction **OR**
>
> **CSC 215** Artificial Intelligence 4

Arizona General Education Curriculum (AGEC): 37-44

> **Written Communication** (**ENG 101** or **107** and **ENG 102** or **108**) 6
>
> **Oral Communication** 3-4
>
> **Arts & Humanities - PHI 103** Introduction to Logic 6-9
>
> **Quantitative Reasoning - MAT 220** Calculus I with Analytic Geometry OR approved higher level math . 5
>
> **Natural Sciences- PHY 121** and **PHY 131** University Physics I & II. 8
>
> **Social & Behavioral Sciences- ECN 250** Principles of Microeconomics 6-9
>
> **Institutions in the Americas**. 3

Total credits required for degree:. **67**

*Course Prerequisite:

CSC 127A prerequisite: **MAT 150** or **MAT 151** or approved higher level math

EGR 123 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

MAT 220 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

MAT 227 prerequisite: **MAT 150** or **MAT 151** or **MAT 187**

Computer Security

Certificate

Major Code: CERT.COMSE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Development and guidance for increased secure IT planning, implementation, management and operation.

Program Description: To increase awareness of Information Technology risks, vulnerabilities, and protection requirements for new and emerging technologies.

Required major courses:. **18**

    CIS 105 Introduction to Business Information Systems3
    CIS 175 Computer Security 3
    CIS 260 Introduction to Operating Systems 3
    CIS 270 Networking Fundamentals 3
    CIS 272 Network Routing and Switching. 3
    CIS 275 Fundamentals of Network Security. 3

Other departmental requirements:. **12**

    BUA 100 Survey of Business 3
    CIS 295 Structured Systems Analysis and Design . . 3
    QBA 211 Quantitative Business Analysis 3
    BUA 110 Business Math Applications OR 3
    CIS 121 Spreadsheets. . . . .

Total credits required for certificate: **30**

Cybersecurity

Certificate

Major Code: CERT.GYC

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: An introduction to the field of Cybersecurity which will teach learners how to identify common risks, threats, and vulnerabilities, as well as the techniques to mitigate them. This certificate will prepare learners for entry-level cybersecurity roles by allowing hands-on experience with industry recognized tools including Python, Linux and many other security tools like Security Information and Event Management (SIEM) programs.

Program Description: This certificate will prepare learners for entry-level cybersecurity roles by allowing hands-on experience with industry recognized tools and Security Information and Event Management (SIEM) programs.

Required major courses:. **4**

    PIT 110 Cybersecurity 4

Total credits required for degree:. **4**

Data Analytics

Certificate

Major Code: CERT.DATA

Contact: Reskilling & Technology Center (928) 317-7674

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

Program Description: Prepares students for an entry-level role in data analytics with a focus on spreadsheets, data cleansing, and analysis.

Required major courses:. **4**

    PIT 105 Google Data Analytics Professional 4

Total credits required for degree:. **4**

Fortinet Certified Fundamentals Cybersecurity

Certificate

Major Code: CERT.FCFC

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The program aims to provide individuals with the opportunity to acquire cybersecurity skills and knowledge that are in high demand in the industry. The program focuses explicitly on Fortinet network security technologies and offers training and certification courses related to the Fortinet Network Security Expert (NSE) certification.

Program Description: This program uses Fortinet network security technologies to provide students with hands-on lab experiences, enabling them to apply their theoretical knowledge in practical settings. The curriculum covers the fundamentals of operating the most common FortiGate features. This practical experience helps students develop a deeper understanding of network security concepts and enhances their ability to address cybersecurity challenges. It prepares students for an associate-level credential.

Required major courses:. **3**

    PIT 140 Fortinet Certified Fundamentals Cybersecurity3

Total credits required for degree:. **3**

Fortinet Certified Associate Cybersecurity

Certificate

Major Code: CERT.FCAC

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The program aims to allow individuals to acquire cybersecurity skills and knowledge that are in high demand in the industry. The program focuses explicitly on Fortinet network security devices, public cloud devices, VMs, and security operations devices. The certification courses are related to the Fortinet Network Security Expert (NSE) professional-level certification.

Program Description: This program uses Fortinet network security technologies This program uses Fortinet network security technologies to provide students with hands-on lab experiences, enabling them to apply their theoretical knowledge in practical settings. The curriculum covers secure networks and applications by deploying, managing, and monitoring Fortinet network security products, public cloud products, and security operations products. This practical experience helps students develop expertise in network security concepts and enhances their ability to address cybersecurity challenges. It prepares students for three professional-level credentials.

Required major courses:. **3**

    PIT 141 Fortinet Certified Associate Cybersecurity . . . 3

Total credits required for degree:. **3**

Fortinet Certified Professional Cybersecurity

Certificate

Major Code: CERT.FCPC

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The program aims to allow individuals to acquire cybersecurity skills and knowledge that are in high demand in the industry. The program focuses explicitly on Fortinet network security devices, public cloud devices, VMs, and security operations devices. The certification courses are related to the Fortinet Network Security Expert (NSE) professional-level certification.

Program Description: This program uses advanced Fortinet network security technologies to provide students with hands-on lab experiences, enabling them to apply their theoretical knowledge in practical settings. The curriculum covers designing, administering, monitoring, and troubleshooting Fortinet operational technology (OT) security solutions, security operations infrastructure, and Zero Trust Access (ZTA). This practical experience helps students develop expertise in network security concepts and enhances their ability to address cybersecurity challenges. It prepares students for five specialist-level credentials.

Required major courses:. **3**

PIT 142 Fortinet Certified Professional Cybersecurity . 3

Total credits required for degree:. 3

Fortinet Certified Solution Specialist Cybersecurity

Certificate

Major Code: CERT.FCSSC

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The program aims to allow individuals to acquire cybersecurity skills and knowledge that are in high demand in the industry. The program focuses explicitly on Fortinet network security devices, public cloud devices, VMs, and security operations devices. The certification courses are related to the Fortinet Network Security Expert (NSE) expert-level certification.

Program Description: This program uses expert Fortinet network security technologies to provide students with hands-on lab experiences, enabling them to apply their theoretical knowledge in practical settings. The curriculum covers expert knowledge of network security design, configuration, and troubleshooting for complex networks. This practical experience helps students develop expertise in network security concepts and enhances their ability to address cybersecurity challenges. It prepares students for the expert-level credential.

Required major courses:. .3

PIT 143 Fortinet Certified Solution Specialist Cybersecurity. 3

Total credits required for degree:. 3

Google IT/AWS Joint Certificate

Certificate

Major Code: CERT.GAWS

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: To provide students with an education in AWS cloud services, customer service, troubleshooting skills, and systems administration that will enable them to gain employment in IT.

Program Description: This certificate is designed to provide CTED learners with a working knowledge in troubleshooting, customer service, networking, operating systems, system administration, security, the fundamentals of building IT infrastructure on Amazon Web Services (AWS) and optimizing the use of AWS Cloud and how they fit into cloud-based solutions.

Required major courses:. 17

CIS 175 Computer Security 3
PIT 100 IT Support: Technical Support Fundamentals 2
PIT 101 IT Support: Computer Networking. 3
PIT 102 IT Support: Operating Systems 3
PIT 103 IT Support: System Administration. 2
PIT 104 IT Support: IT Security and
Google Certificate 2
PIT 130 Amazon Web Services Academy Cloud
Foundations. 2

Total credits required for certificate: 17

Informatics

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

Major Code: AAS.INFO

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. 32

CIS 105 Intro to Business Information Systems 3
CIS 170 Microcomputer Installation and Support. . . 3
CIS 175 Computer Security 3

CIS 260 Introduction to Operating Systems 3

CIS 270 Networking Fundamentals 3

CIS 271 Networking Administration 3

CIS 272 Network Routing and Switching. 3

CSC 127A Introduction to Computer Science 1. . . . 4

CSC 210 Human Computer Ineraction 4

CIS 180 Computer Programming Logic **OR**

EGR 123 Intro to Structured Programming 3

Other departmental requirements: **9-11**

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 3

Digital Design

CIS 231 Database Design and Program 3

GRA 101 Graphic Communications 1. 4

GRA 104 Digital Imaging 1 4

Software Development/Information Management

CSC 127B Introduction to Computer Science 2 . . . 4

CSC 215 Artifical Intelligence 4

CSC 252 Computer Organization. 3

System Administration

CIS 151 Web Design 1 3

CIS 231 Database Design and Program 3

CIS 295 Structured Systems Analysis and Design. . . 3

General Education Requirements **22**

Written Communication (**ENG 101** or **107**) 6

Oral Communication (Select one more course from the AAS GE Written and Oral Communication categories-consult your advisor or see requirements in Self-Service3-4

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

Total credits required for degree: **63**

Informatics-Cyber Operations

Certificate

Major Code: CERT.INFCO

Contact: Business, Education and Social and Behavioral Sciences (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 security.

Required major courses: **16**

CIS 105 Introduction to Business Information Systems 3

CIS 175 Computer Security 3

CIS 260 Introduction to Operating Systems 3

CIS 270 Networking Fundamentals 3

CSC 127A Introduction to Computer Science 1* . . . 4

Other program requirements: **16**

CIS 170 Microcomputer Installation & Support 3

CIS 271 Networking Administration 3

CIS 272 Network Routing and Switching. 3

CIS 275 Fundamentals of Network Security. 3

CSC 127B Introduction to Computer Science 2 . . . 4

Total credits required for certificate: **32**

*Course Prerequisite:

CSC 127A prerequisite: **MAT 150** or **MAT 151** or approved higher level math

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Informatics-Digital Design

Certificate

Major Code: CERT.INFDD

Contact: Business, Education and Social and Behavioral Sciences (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 digital design.

Required major courses: **16**

CIS 105 Introduction to Business Information Systems3

CIS 170 Microcomputer Installation & Support 3

CIS 175 Computer Security 3

CIS 260 Introduction to Operating Systems 3

CSC 127A Introduction to Computer Science 1* . . . 4

Other program requirements: **17**

CIS 180 Computer Programming Logic 3
CIS 231 Database Design and Program 3
CIS 271 Networking Administration 3
GRA 101 Graphic Communications 1 4
GRA 104 Digital Imaging 1 4

Total credits required for certificate: 33

> ***Course Prerequisite:**
> **CSC 127A** prerequisite: **MAT 150** or **MAT 151** or approved higher level math

Informatics- Software Development/Information Management

Certificate

Major Code: CERT.INFSD

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. 16

CIS 105 Introduction to Business Information Systems3
CIS 175 Computer Security 3
CIS 260 Introduction to Operating Systems 3
CIS 270 Networking Fundamentals 3
CSC 127A Introduction to Computer Science 1* . . . 4

Other program requirements:. 17

CIS 180 Computer Programming Logic 3
CIS 271 Networking Administration 3
CSC 210 Human Computer Interaction. 4
CSC 215 Artifical Intelligence 4
CSC 252 Computer Organization. 3

Total credits required for certificate: 33

> ***Course Prerequisite:**
> **CSC 127A** prerequisite: **MAT 150** or **MAT 151** or approved higher level math

Informatics-System Administration

Certificate

Major Code: CERT.INFSA

Contact: Business, Education and Social and Behavioral Sciences (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.

Required major courses:. 16

CIS 105 Introduction to Business Information Systems3
CIS 175 Computer Security 3
CIS 260 Introduction to Operating Systems 3
CIS 270 Networking Fundamentals 3
CSC 127A Introduction to Computer Science 1* . . . 4

Other program requirements:. 15

CIS 151 Web Design 1 3
CIS 180 Computer Programming Logic 3
CIS 231 Database Design and Program 3
CIS 270 Networking Fundamentals 3
CIS 295 Structured Systems Analysis and Design. . . 3

Total credits required for certificate: 31

> ***Course Prerequisite:**
> **CSC 127A** prerequisite: **MAT 150** or **MAT 151** or approved higher level math

IT Automation with Python

Certificate

Major Code: CERT.ITAP

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: With this certificate you will begin the process of programming code for operating systems and applications to replace repeatable pro-cesses and reduce manual intervention using Python Programming.

Program Description: Students will develop the knowledge and skills to automate common system administration tasks. They will also learn to use GIT and GITHUB as well as using configuration manage-ment tools.

Required major courses:. **4**

    PIT 109 IT Automation with Python 4

Total credits required for degree:. **4**

Networking

Certificate

Major Code: CERT.NETWK

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

Program Purpose: 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.

Program Description: 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

Required major courses:. **30**

    BUA 100 Survey of Business 3
    CIS 105 Introduction to Business Information Systems 3
    CIS 175 Computer Security 3
    CIS 260 Introduction to Operating Systems 3
    CIS 270 Networking Fundamentals 3
    CIS 271 Networking Administration 3
    CIS 272 Network Routing and Switching. 3
    CIS 275 Fundamentals of Network Security. 3
    CIS 295 Structured Systems Analysis and Design* . . 3
    QBA 211 Quantitative Business Analysis. 3

Total credits required for certificate: **30**

    ***Course Prerequisite:**
    CIS 295 prerequisite: CIS 180

Professional IT Support

Certificate

Major Code: CERT.PITS

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses:. **12**

    PIT 100 IT Support: Technical Support Fundamentals 2
    PIT 101 IT Support: Computer Networking. 3
    PIT 102 IT Support: Operating Systems 3
    PIT 103 IT Support: System Administration. 2
    PIT 104 IT Support: IT Security and
             Google Certificate 2

Total credits required for certificate: **12**

UX Design

Certificate

Major Code: CERT.UXD

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: UX designers combine market research, product development, strategy, and design to create seamless user experiences for products, services, and processes. They build a bridge to the customer, helping the company to better understand—and fulfill—their needs and expectations.

Program Description: User experience (UX) designers focus on the interaction that users have with products, like websites, apps, and physical objects. They make those everyday interactions useful, enjoyable, and accessible.

Required major courses:. **4**

    PIT 111 Project Management 4

Total credits required for degree:. **4**

Beginning Video Game Design

Certificate

Major Code: CERT.GAME

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The purpose of this program is to provide students, interested in video game design and technology, the opportunity to get a certificate to enter the workforce with the skills needed to create and design a video game.

Program Description: Provides graduates with the entry level skills needed for a specialized career in the video game design industry.

Required major courses:. **16**

    GME 100 Introduction to Design and Game History 3
    GME 101 Introduction to Programming Concepts. . 3
    GME 105 Introduction to Digital Arts 2
    GME 110 Computer Game Design 3
    GME 112 Sound Design 2
    GME 224 Special Project 3

Total credits required for certificate: **16**

Video Game Art Design

Certificate

Major Code: CERT.GAMET

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: This certificate would be a stackable certificate which provides additional gaming design/developmental knowledge to the Beginning Video Game Design Certificate.

Program Description: Provides graduates with the entry level skill needed for a career in video game art design. Students are familiarized with 2D and 3D animation, as well as, 3D character design. This certification expands on the skills learned in the Beginning Video Game Design certificate.

Required major courses:. **5**

    GME 130 Animation and Interactivity 2
    GME 132 Character Animation 3

Total credits required for certificate: **5**

Video Game Design and Development

Certificate

Major Code: CERT.GADD

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: The purpose of this program is to provide students, interested in video game design and technology, the opportunity to get a certificate to enter the workforce with the skills needed to create and design video games.

Program Description: This program provides graduates with the entry level skills needed for a specialized career in the video game design industry. Students will be familiarized with fundamental concepts of game history, sound design, digital arts, and programming concepts. This certificate also includes the specialized coursework in the following stackable certificates: Beginning Video Game Design, Video Game Art Design, Video Game Software Development, Video Game Sound Engineering, and Video Game Story Development.

Required major courses:. **36**

Beginning Video Game Design
    GME 100 Introduction to Design and Game History 3
    GME 101 Introduction to Programming Concepts. . 3
    GME 105 Introduction to Digital Arts 2
    GME 110 Computer Game Design 3
    GME 112 Sound Design 2
    GME 224 Special Project 3
Video Game Art Design
    GME 130 Animation and Interactivity 2
    GME 132 Character Animation 3
Video Game Software Development
    GME 120 Object Oriented
    Programming Fundamentals 2
One of the following:
    GME 122 Python Programming 3
    OR
    GME 124 Java Game Programming 3
Video Game Sound Engineering
    GME 141 Electronic Music 2
    GME 143 Studio Recording. 2
Video Game Story Development

GME 170 Digital Storytelling. 3

GME 172 Game Narrative Development 3

Total credits required for certificate: **36**

Video Game Software Development

Certificate

Major Code: CERT.GMEST

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: This certificate would be a stackable certificate which provides additional gaming design/developmental knowledge to the Beginning Video Game Design Certificate.

Program Description: Provides graduates with the entry level skill needed for a career in video game software development. Students are familiarized with object oriented programming and either Java or Python development language. This certification expands on the skills learned in the Beginning Video Game Design certificate.

Required major courses:. **5**

GME 120 Object Oriented Programming
      Fundamentals 2
One of the following:
GME 122 Python Programming. 3
OR
GME 124 Java Game Programming. 3

Total credits required for certificate: **5**

Video Game Sound Engineering

Certificate

Major Code: CERT.GMESD

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: Create new certificate (stackable) which provides additional gaming design/developmental knowledge to the Beginning Video Game Design Certificate.

Program Description: Provides graduates with the entry level skill needed for a career in Video Game Sound Engineering. Students are familiarized with studio recording techniques and electronic music composition. This certification expands on the skills learning in the Beginning Video Game Design certificate.

Required major courses:. **4**

GME 141 Electronic Music 2
GME 143 Studio Recording. 2

Total credits required for certificate: **4**

Video Game Story Development

Certificate

Major Code: CERT.GMESY

Contact: Reskilling & Technology Center (928) 317-7674

Program Purpose: This certificate would be a stackable certificate which provides additional gaming design/developmental knowledge to the Beginning Video Game Design Certificate.

Program Description: Provides graduates with the entry level skill needed for a career in video game story development. Students are familiarized with the techniques for creating impactful stories. This certification expands on the skills learned in the Beginning Video Game Design certificate.

Required major courses:. **6**

GME 170 Digital Storytelling. 3
GME 172 Game Narrative Development 3

Total credits required for certificate: **6**

EDUCATION

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

Early Childhood Education

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

Major Code: AAS.ECE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate (1) basic knowledge in early childhood education that will prepare them to obtain an entry-level position within the field and (2) competency in communication, critical thinking, quantitative analysis, and technological applications.

Program Description: This program is for students contemplating careers in early childhood education and for individuals employed in day care, Head Starts, at risk preschools, or other early childhood environments. Student must obtain TB test, a background and fingerprint check before entering any field placement.

Required major courses:. **33**

    ECE 200 Early Childhood Education 3
    ECE 205 Home, School and Community Relations. . 3
    ECE 208 Guiding Children's Behavior. 3
    ECE 210 Activities of Early Childhood Education. . . 3
    ECE 243 Early Childhood Development 3
    ECE 245 Early Childhood Special Education 3
    ECE 250 Language and Literacy Development 3
    ECE 260 Techniques for Observing/Assessing Children 3
    ECE 270 Early Childhood Internship. 4
    ECE 165 Health, Safety, and Nutrition
          for the Young Child. 3

OR *the following three courses:*

    ECE 101 Providing a Healthy Environment for
          Children in an Early Childhood Program . . 1
    ECE 103 Ensuring a Safe Environment for Children
          in an Early Childhood Program. 1
    ECE 111 Nutrition 1
    ECE 145 CDA Student Teaching-Vocational 2

OR *the following three courses:*

    ECE 166 Early Childhood Field Experience 1
    ECE 206 Early Childhood Field Experience 2
    ECE 211 Early Childhood Field Experience 3

Other departmental requirements:. **5**

    ECE Electives

General Education Requirements **22**

    Written Communication ENG 101 or **107** 6
    Oral Communication- **SPC 215** Public Speaking . . . 3
    Arts & Humanities- **ECE 265** Children's Literature . . 3
    Quantitative Reasoning 3
    Natural Sciences 4
    Social & Behavioral Sciences- **ECE 240** Child Growth
    and Development 3
    Institutions in the Americas. 3

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

Early Childhood Education

Certificate

Major Code: CERT.ECE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate a basic knowledge in early childhood education.

Program Description: For students who wish to have basic knowledge in early childhood education. The certificate can work with an existing degree in another area of education or related fields.

Required major courses:. **21-22**

    ECE 200 Early Childhood Education 3
    ECE 205 Home, School and Community Relations. . 3
    ECE 210 Activities of Early Childhood Education. . . 3
    ECE 212 Early Childhood Certificate Capstone 1
    ECE 243 Early Childhood Development 3
    ECE 245 Early Childhood Special Education 3
    ECE 165 Health, Safety, and Nutrition for the
          Young Child 3

OR *the following three courses:*

    ECE 101 Providing a Healthy Environment for
          Children in an Early Childhood Program

ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program

ECE 111 Nutrition

ECE 145 CDA Student Teaching-Vocational 2

OR *the following three courses:*

ECE 166 Early Childhood Field Experience 1

ECE 206 Early Childhood Field Experience 2

ECE 211 Early Childhood Field Experience 3

Total credits required for certificate: **21-22**

Education, Elementary

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.EDELM

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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

Program Description: Students planning to enter the field of elementary education may complete their first two years of study at AWC. It is recommended that education majors consult often with their Academic Advisors concerning the courses required for certification in Arizona and/or graduation from a state university with a bachelor's degree in education.

Required major courses: **22**

EDU 110 Introduction to Education 3

EDU 207 Education Practicum. 1

EDU 210 Cultural Diversity in Education. 3

EDU 222 Introduction to Special Education 3

EDU 275 Classroom Management 3

MAT 130 Math for Elementary Teachers 1 3

MAT 135 Math for Elementary Teachers 2 3

POS 221 Arizona Constitution and Government . . . 2

POS 222 National Constitution and Government . . 1

Other departmental requirements: 5

ECE 265 Children's Literature 3

EDU 200 Lesson Planning. 2

Arizona General Education Curriculum (AGEC): . . . **35**

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication -**SPC 215** Public Speaking . . . 3

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences- Select on Life Science and one Physical Science 4-8

Social & Behavioral Sciences- **ECE 240** Child Growth and Development and **GEO 105** World regional Geography. 6-9

Institutions in the Americas - **HIS 121** History of the United States to 1877 3

Total credits required for degree: **62**

Education, Elementary
(Early Childhood Education Emphasis)

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.EDECE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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

Program Description: Students planning to enter the field of education may complete their first two years of study at AWC. Students interested in working with children grade four and below, in an elementary setting, are encouraged to follow the prescribed and recommended lists of courses for certification in AZ and/or graduation from a state university with a degree in education.

Required major courses: **25**

ECE 265 Children's Literature 3

EDU 110 Introduction to Education 3

EDU 207 Education Practicum. 1

EDU 210 Cultural Diversity in Education. 3

EDU 222 Introduction to Special Education 3

EDU 275 Classroom Management 3

MAT 130 Math for Elementary Teachers I 3

MAT 135 Math for Elementary Teachers II. 3

POS 221 Arizona Constitution and Government 2

POS 222 National Constitution and Government . . .1

Other departmental requirements: **2**

EDU 200 Lesson Planning 2

Arizona General Education Curriculum (AGEC): . . . **35**

Written Communication (ENG 101 or **107** and **ENG 102** or **108**) 6

Oral Communication -**SPC 215** Public Speaking . . . 3

Arts & Humanities 6-9

Quantitative Reasoning .3-4

Sciences- Select on Life Science and one Physical Science 4-8

Social & Behavioral Sciences- **ECE 240** Child Growth and Development 6-9

Institutions in the Americas - **HIS 121** History of the United States to 1877 3

Total credits required for degree: **62**

Education (Secondary)

Associate in Arts (A.A.) degree

Pathway: TG/XR

Major Code: AA.EDSEC

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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

Program Description: Students planning to enter the field of secondary education may complete their first two years of study at AWC. It is recommended that education majors consult often with their Academic Advisors concerning the courses required for certification in Arizona and/or graduation from a state university with a bachelor's degree in education. Secondary education students also need to "double major" in the discipline they wish to teach in high school.

Required major courses: **12**

EDU 110 Introduction to Education 3

EDU 222 Introduction to Special Education 3

EDU 275 Classroom Management 3

POS 221 Arizona Constitution and Government . . . 2

POS 222 National Constitution and Government . . 1

Other departmental requirements: **17**

EDU 200 Lesson Planning 2

AND a minimum of 15 credits in one of the following subjects: BIO, CHM, ENG, GLG, HIS, MAT, PHY

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (ENG 101 or **107** and **ENG 102** or **108**) 6

Oral Communication -**SPC 215** Public Speaking . . . 3

Arts & Humanities 6-9

Quantitative Reasoning .3-4

Natural Sciences 4-8

Social & Behavioral Sciences- **ECE 240** Child Growth and Development 6-9

Institutions in the Americas - **HIS 121** History of the United States to 1877 3

Total credits required for degree: **61**

Family Childcare Child Development Associate (CDA)

Certificate

Major Code: CERT.CDAFA

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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.

Required major courses:. **22**

    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 1

    ECE 111 Nutrition 1

    ECE 114 Understand How Children Learn. 1

    ECE 117 Multicultural and Anti-Bias Curriculum . . . 1

    ECE 124 Creative Media. 1

    ECE 125 Dramatic Play 1

    ECE 128 Music and Creative Movement. 1

    ECE 134 Language Development of Infants and Toddlers. 1

    ECE 143 Professional Portfolio. 3

    ECE 145 CDA Student Teaching- Vocational 2

    ECE 152 Ages and Stages: Toddlerhood 1

    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 1

    ECE 107 The Child's Total Learning Environment **OR**

    ECE 139 Organization of Space, Materials, and Equipment for Infants and Toddlers 1

    ECE 121 Sciencing and Discovery **OR**

    ECE 126 Blocks 1

Total credits required for certificate: **22**

Family Childcare Education

Certificate

Major Code: CERT.FACHE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

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).

Required major courses:. **17**

    ECE 101 Providing a Healthy Environment for Children in an Early Childhood Program . . 1

    ECE 103 Ensuring a Safe Environment for Children in an Early Childhood Program . . 1

    ECE 104 Planned Arrangements and Schedules . . . 1

    ECE 106 Building Relationships with Parents. 1

    ECE 108 Guidance Principles 1

    ECE 111 Nutrition 1

    ECE 114 Understand How Children Learn. 1

    ECE 117 Multicultural and Anti-Bias Curriculum . . . 1

    ECE 124 Creative Media. 1

    ECE 125 Dramatic Play 1

    ECE 128 Music and Creative Movement. 1

    ECE 134 Language Development of Infants and Toddlers. 1

    ECE 152 Ages and Stages: Toddlerhood 1

    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 1

    ECE 107 The Child's Total Learning Environment **OR**

    ECE 139 Organization of Space, Materials, and Equipment for Infants and Toddlers 1

    ECE 121 Sciencing and Discovery **OR**

    ECE 126 Blocks 1

Total credits required for certificate: **17**

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

Certificate

Major Code: CERT.CDAIN

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in infant and toddler education that will prepare them to obtain an entry-level position within the field

Program Description: This program is designed for those individuals who wish to earn a Child Development Associate (CDA) credential in Infant and Toddler Education. The CDA training program follows the prescribed criteria set forth by the Council of Professional Recognition based in Washington, D.C. The CDA competencies for this program are as follows: (1) to establish and maintain a safe, healthy learning environment, (2) to advance physical and intellectual competence, (3) to support social and emotional development and to provide positive guidance, (4) to establish positive and productive relationships with families, (5) to ensure a well-run, purposeful program responsive to participant needs, and (6) to maintain a commitment to professionalism.

Required major courses:. **21**

ECE 101 Providing a Healthy Environment
for Children in an Early Childhood
Program. 1
ECE 103 Ensuring a Safe Environment for Children
in an Early Childhood Program. 1
ECE 106 Building Relationships with Parents. 1
ECE 109 Enhancing Family Involvement 1
ECE 111 Nutrition 1
ECE 117 Multicultural and Anti-Bias Curriculum . . . 1
ECE 130 Cognitive Development. 1
ECE 133 Developing Observation Skills:
Infant/Toddler Program 1
ECE 134 Language Development of Infants
and Toddlers 1
ECE 135 Guidance and Discipline for Infants
and Toddlers 1
ECE 136 Physical Development in Infancy. 1
ECE 137 Enhancing Social Competence of Infants
and Toddlers 1
ECE 138 Encouraging Trust and Autonomy
Leading to the Development of Positive
Self Concept of Infants and Toddlers 1
ECE 139 Organization of Space, Materials, and
Equipment for Infants and Toddlers 1

ECE 142 Recordkeeping Skills for Daily
Infant/Toddler Care Programs 1
ECE 152 Ages and Stages: Toddlerhood 1
ECE 143 Professional Portfolio. 3
ECE 145 CDA Student Teaching- Vocational 2

Total credits required for certificate: **21**

Infant and Toddler Education

Certificate

Major Code: CERT.INTOE

Contact: Business, Education and Social and Behavioral Sciences (928) 344-7689

Program Purpose: Graduates will demonstrate basic knowledge in infant and toddler education that will prepare them to obtain an entry-level position within the field.

Program Description: This 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).

Required major courses:. **16**

ECE 101 Providing a Healthy Environment
for Children in an Early Childhood
Program. 1
ECE 103 Ensuring a Safe Environment for Children
in an Early Childhood Program. 1
ECE 106 Building Relationships with Parents. 1
ECE 109 Enhancing Family Involvement 1
ECE 111 Nutrition 1
ECE 117 Multicultural and Anti-Bias Curriculum . . . 1
ECE 130 Cognitive Development. 1
ECE 133 Developing Observation Skills:
Infant/Toddler Program 1
ECE 134 Language Development of Infants
and Toddlers 1
ECE 135 Guidance and Discipline for Infants
and Toddlers 1
ECE 136 Physical Development in Infancy. 1

ECE 137 Enhancing Social Competence of Infants
and Toddlers 1

ECE 138 Encouraging Trust and Autonomy
Leading to the Development of Positive
Self Concept of Infants and Toddlers 1

ECE 139 Organization of Space, Materials, and
Equipment for Infants and Toddlers 1

ECE 142 Recordkeeping Skills for Daily
Infant/Toddler Care Programs 1

ECE 152 Ages and Stages: Toddlerhood 1

Total credits required for certificate: **16**

Preschool Center-Based Child Development Associate (CDA) Credential

Certificate

Major Code: CERT.CDAPR

Contact: Business, Education and Social and
Behavioral Sciences (928) 344-7689

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

Program Description: This is a highly individual-
ized, competency-based program taught primarily
on-site in early childhood settings where students
are working with children. The courses are orga-
nized 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 consul-
tation 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.

Required major courses:. 21

ECE 101 Providing a Healthy Environment for Children
in an Early Childhood Program. 1

ECE 103 Ensuring a Safe Environment for Children
in an Early Childhood Program. 1

ECE 104 Planned Arrangements and Schedules . . . 1

ECE 105 Techniques for Observing Children. 1

ECE 106 Building Relationships with Parents. 1

ECE 107 The Child's Total Learning Environment. . . 1

ECE 108 Guidance Principles 1

ECE 111 Nutrition 1

ECE 114 Understanding How Children Learn 1

ECE 117 Multicultural and Anti-Bias Curriculum . . . 1

ECE 124 Creative Media. 1

ECE 125 Dramatic Play 1

ECE 128 Music and Creative Movement. 1

ECE 153 Ages and Stages: The Preschool Years . . . 1

ECE 143 Professional Portfolio. 3

ECE 145 CDA Student Teaching-Vocational 2

Select one course from each of the following groups:

ECE 121 Sciencing and Discovery **OR**

ECE 126 Blocks 1

ECE 123 Literature for Preschool Children **OR**

ECE 129 Emerging Literacy. 1

Total credits required for certificate: **21**

Preschool Education

Certificate

Major Code: CERT.PRSCE

Contact: Business, Education and Social and
Behavioral Sciences (928) 344-7689

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

Program Description: This is a highly individualized,
competency-based program taught with a consolidat-
ed group of courses. Program requires for students to
be observed working with children in a preschool set-
ting. Students should meet all requirements for work-
ing 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).

Required major courses:. 16

ECE 101 Providing a Healthy Environment for Children
in an Early Childhood Program. 1

ECE 103 Ensuring a Safe Environment for Children

in an Early Childhood Program. 1

ECE 104 Planned Arrangements and Schedules . . . 1

ECE 105 Techniques for Observing Children. 1

ECE 106 Building Relationships with Parents. 1

ECE 107 The Child's Total Learning Environment. . . 1

ECE 108 Guidance Principles 1

ECE 111 Nutrition 1

ECE 114 Understanding How Children Learn 1

ECE 117 Multicultural and Anti-Bias Curriculum . . . 1

ECE 124 Creative Media. 1

ECE 125 Dramatic Play. 1

ECE 128 Music and Creative Movement. 1

ECE 153 Ages and Stages: The Preschool Years . . . 1

Select one course from each of the following groups:

ECE 121 Sciencing and Discovery **OR**

ECE 126 Blocks 1

ECE 123 Literature for Preschool Children **OR**

ECE 129 Emerging Literacy. 1

Total credits required for certificate: **16**

Physical Education

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.PHSED

Contact: Allied Health (928) 344-7552

Program Purpose: Graduates will demonstrate

Program Description: This program is designed for students with a desire to enter the field og education with an emphasis in Physical Education.

Required major courses:. **20**

BIO 181 General Biology 4

EDU 110 Introduction to Education 3

EDU 200 Lesson Planning* 2

EXW 101 Concepts of Kinesiology. 2

EXW 265 Exercise Science for Special Populations . 3

NTR 139 Personal Nutrition. 3

POS 221 Arizona Constitution and Government . . . 2

POS 222 National Constitution and Government . . 1

Department Electives:. **5**

Select 1 course from each of the following groups:

Group Exercise (Aerobics, T'ai Chi Chih, Yoga, Judo, Karate, Self-Defense)

Recreational Fitness (Golf, Swimming, Walking & Jogging, Scuba)

Sports (Baseball, Softball, Basketball, Football, Soccer, Volleyball)

Weight Training (Resistance Training)

Arizona General Education Curriculum (AGEC): . . **35**

Written Communication (ENG 101 or 107 and ENG 102 or 108) **6**

Oral Communication (**SPC 215** Public Speaking) . . 3

Arts & Humanities. *6-9*

Quantitative Reasoning *3-4*

Natural Sciences. . . . . (**BIO 201** Human Anatomy and Physiology I and **BIO 202** Human Anatomy and Physiology II). 8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

General electives: **5**

EXW 150 Nutrition for Exercise and Sports. 2

PEM 100 Introduction to PERS 3

Total credits required for degree:. **66**

***Course Prerequisite:**

EDU 200 prerequisite: EDU 207 or instructor permission

Healthcare & Public Safety

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

Healthcare

Community Health Worker

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

Major Code: AAS.COMHW

Contact: Allied Health (928) 344-7552

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.

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

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6
Oral Communication 3-4
Arts & Humanities 6-9
Quantitative Reasoning 3-4
Natural Sciences 4-8
Social & Behavioral Sciences 6-9
Institutions in the Americas. 3

General electives: 8

Total credits required for degree:. 60

*Course Prerequisite:
CHW 106 prerequisite: Admission into the Community Healthworker Program

Community Health Worker

Certificate

Major Code: CERT.COMHW

Contact: Allied Health (928) 344-7552

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.

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

Total credits required for degree:. **20**

    *Course Prerequisite:
    CHW 106 prerequisite: Admission into the Community Healthworker Program

Grief and Bereavement

Certificate

Pathway: CERT

Major Code: CERT.GAB

Contact: Allied Health (928) 344-7552

Program Purpose: The program fulfills a need in the state of Arizona to support mental health. NAMI reported that over 40% of adults in Arizona report the need for mental health support, and over 25% of those are unable to get the help they need. This has become a growing problem beginning after the pandemic, which brought feelings of grief to a lot of Arizonans with losses beyond the loss of loved ones.

Program Description: This program is designed to introduce students to the field of Thanatology and address basic principles of Thanatology. The program examines culturally relevant techniques for the support and assistance of the dying and bereaved. The certificate offers an interdisciplinary and scientific approach to the study of the dying and grieving processes; social attitudes towards death and loss;

suicide prevention education; and the social and psychological aspects of grief and bereavement.

Required major courses:. **10**

    AHE 170 Foundations of Grief and Bereavement . . 2
    AHE 171 Essential Topic in Grief and Bereavement 2
    AHE 172 Grief in Children and Teens 2
    AHE 173 Diversity in Grief and Bereavement 2
    AHE 174 Palliative and Hospice Care 2

Total credits required for degree:. **10**

Medical Assistant

Associate in Applied Science

Major Code: AAS.MDA

Contact: Allied Health (928) 344-7552

Program Purpose: This program will provide students with a working knowledge of front and back office skills to prepare the student for 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

Program Prerequisites:

    MAT 121 Intermediate Algebra or approved higher level math recommended
    Reading score of 219 or higher recommended

Required major courses:. **22**

    AHE 101 Medical Terminology* 3
    MDA 120 Medical Office 4
    MDA 121 Medical Technician 6
    MDA 241 Medical Assistant Externship 5
    AHE 119 The Basics of Body Structure and Function
    OR
    BIO 160 Intro to Human Anatomy and Physiology. . . 4

General Education Requirements **22**

    Written Communication (**ENG 101** or **107**) 6
    Oral Communication (Select one more course from the AAS GE Written and Oral Communication categories-consult your advisor or see requirements in Self-Service 3-4

Arts & Humanities 3

Quantitative Reasoning MAT 121 Mathematics for the Applied Sciences OR approved higher level math . . 3

Natural Sciences 4

Social & Behavioral Sciences PSY 101 Introduction to Psychology. 3

Institutions in the Americas. 3

General electives (complete enough courses to meet program requirements): . . . .

Total credits required for degree:. 60

  *Course Prerequisite:
  AHE 101 prerequisite: ENG 100

Medical Assistant

Certificate

Major Code: CERT.MDA

Contact: Allied Health (928) 344-7552

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

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.

Program Prerequisites:

  MAT 121 Intermediate Algebra or approved higher level math recommended
  Reading score of 219 or higher recommended

Required major courses:. 22

  AHE 101 Medical Terminology*. 3
  MDA 120 Medical Office 4
  MDA 121 Medical Technician 6
  MDA 241 Medical Assistant Exernship 5
  AHE 119 The Basics of Body Structure and Function
  OR
  BIO 160 Intro to Human Anatomy and Physiology. . 4

Total credits required for degree:. 22

  *Course Prerequisite:
  AHE 101 prerequisite: ENG 100

Medical Coding and Billing

Certificate

Major Code: CERT.MCB

Contact: Allied Health (928) 344-7552

Program Purpose: Prepares student for national certification and have the technical skills needed to enter the healthcare industry as an entry-level medical coder/biller.

Program Description: Students will learn the fundamentals of medical coding and billing and are prepared to take the Certified Professional Coder (CPC?) exam from the American Academy of Professional Coders (AAPC). Program topics include medical terminology; anatomy and physiology; introduction to computer systems; computer applications in healthcare technologies; health information management systems; reimbursement cycle management process; insurance plans; health law; HIPAA; diagnostic and procedural coding; coding compliance and auditing; physician and hospital billing; Medicare, Medicaid, and TRICARE. Students receive training on ICD-10-CM/PCS, CPT, and HCPCS code assignment.

Program Prerequisites:

  Admission into Medical Coding and Billing program
  Reading score of 219 or higher recommended

Required major courses:. 23

  AHE 101 Medical Terminology*. 3
  CIS 120 Introduction to Computer Information Systems 3
  MCB 100 Intro to Health Information Management 3
  MCB 130 Computer Applications and Healthcare Technologies 3
  MCB 160 Revenue Cycle Management Process, Compliance & Regulatory 3
  MCB 240 Medical Coding and Billing Training & CPC Certification Prep/Professional Practice 4
  AHE 119 The Basics of Body Structure and Function
  OR
  BIO 160 Intro to Human Anatomy and Physiology. . 4

Total credits required for certificate 23

  *Course Prerequisite:
  AHE 101 prerequisite: ENG 100

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:

1. Recognize the patient or designee as the source of control and full partner in providing compassionate and coordinated care based on respect for patient's preferences, values, and needs (Patient-Centered Care)

2. Function effectively within nursing and inter-professional teams, fostering open communication, mutual respect, and shared decision-making to achieve quality patient care (Teamwork & Collaboration)

3. Integrate best current evidence with clinical expertise and patient/family preferences and values for delivery of optimal health care (Evidence-Based Practice (EBP))

4. Use data to monitor the outcomes of care processes and use 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)

7. Practice accountability during delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles (Professionalism)

8. The Nurse of the Future will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes (Communication)

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

- 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 ***https://www.azwestern.edu/degrees-and-certificates/nursing.***

Additional information is available on the AWC website at ***https://www.azwestern.edu/degrees-and-certificates/nursing*** or by contacting the Department of Nursing.

Prerequisites:. **7**

To be completed prior to entrance into A.A.S. program; students enrolled in these courses use the Major Code: AAS.PRERN

    BIO 201 Anatomy and Physiology I*. 4

    ENG 101 Freshman Composition I **or ENG 107** First-Year Composition I (for Multilingual Writers). . . 3

Required major courses:. **45**

    BIO 202 Human Anatomy and Physiology II 4

    BIO 205 Microbiology*. 4

    FAS/PSY 238 Human Development 3

    NUR 117 Pharmacology with Clinical Calculations* . 2

    NUR 121 Nursing 1 8

    NUR 122 Nursing 2 8

    NUR 221 Nursing 3 8

    NUR 222 Nursing 4 8

Students must successfully pass designated standardized exams in order to progress to the next nursing course.

General education requirements: **14**

    Freshman Composition (ENG 101 or 107) (met in prerequisite)

    Freshman Composition (ENG 102 or 108). 3

    Mathematics (MAT 142 College Mathematics with Applications or approved higher level math) . 3

    Arts and Humanities 3

    Social and Behavioral Sciences (PSY 101 Introduction to Psychology) 3

    Physical and Biological Sciences (BIO 205 Microbiology) (met in major required courses)

    Additional Courses 2

Total credits required for degree:. **66**

    *Course Prerequisite:

    BIO 201 prerequisite: BIO 181 or pass an AWC pre-test

    BIO 205 prerequisite: BIO 181 or pass an AWC biology challenge exam and complete ENG 101 or 107

    NUR 117 prerequisite: Admission to Nursing Program

Nursing Assistant

Certificate

Major Code: CERT.NURAS

Contact: Allied Health (928) 344-7552

Program Purpose: Graduates will demonstrate basic knowledge as required of beginning nursing assistant practitioners.

Program Description: This course prepares the learner for taking the state examination to become a certified nursing assistant. The Arizona State Board of Nursing requires evidence of citizenship or nationality for state certification (CNA). Fingerprints needed to take the licensure exam.

Required major courses:

    AHE 130 Nursing Assistant* 5

    *Course Prerequisite:

    AHE 130 prerequisite: Admission to Nursing Assistant Program

Other departmental requirements:

In order to be eligible to apply for the AWC Nursing Assistant Program, the student must have the following:

- reading score of 80 or above on the Computerized Placement Test (CPT-R)

- 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:. **7**

    BIO 201 Anatomy and Physiology I*. 4

    ENG 101 Freshman Composition I. 3

Required major courses:. **36**

    BIO 202 Human Anatomy and Physiology II 4

    FAS/PSY 238 Human Development 3

    NUR 117 Pharmacology with Clinical Calculations* . 2

    NUR 121 Nursing 1 8

    NUR 122 Nursing 2 8

    PSY 101 Introduction to Psychology. 3

    NUR 221 Nursing 3*. 8

**A licensure topics tutorial is also required.

Total credits required for certificate: **43**

    *Course Prerequisite:

    BIO 201 prerequisite: BIO 181 or pass an
AWC pre-test

    NUR 117 prerequisite: Admission to Nursing Program

    NUR 221 corequisites: BIO 205 and ENG 102 or 108

    BIO 205 prerequisite: BIO 181 or pass an AWC
biology challenge exam and complete ENG 101 or 107

Phlebotomy Technician

Certificate

Major Code: CERT.PLB

Contact: Allied Health (928) 344-7552

Program Purpose: Prepares student to have the technical skills needed to enter the healthcare industry as an entry-level phlebotomist.

Program Description: Phlebotomy Technician program is designed to teach the knowledge in technical and procedural aspects of basic phlebotomy, including collection of blood specimens and venipuncture required to become a Phlebotomy technician. The Phlebotomy Technician program includes theory and hands-on instruction.

Program Prerequisites:

    Completed Phlebotomy Technician Program
Application

Required major courses:

    AHE 119 The Basics of Body Structure and Function   . **4**
    OR
    BIO 160 Introduction to Human Anatomy
    & Physiology **4**
    OR

    AHE 130 Nursing Assistant **5**

    PLB 101 Phlebotomy Technician Training **6**

Total credits required for certificate: **10-11**

Radiologic Technology

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

Major Code: AAS.RADTE

Contact: Allied Health (928) 344-7552

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........*25*

To be completed prior to application to the A.A.S program. Applicants must have a GPA of 2.5 or above, in the required prerequisite courses, to be eligible to apply to the Radiologic Technology Program.

General Education Prerequisites **22**

    Written and Oral Communication (ENG 101 or **107
and ENG 102 or 108)** 6

    Arts & Humanities 3

    Quantitative Reasoning- **MAT 142** College
Mathematics with Applications or approved higher
level math 3

Natural Sciences 4-8

BIO 160 Intro. to Anatomy and Physiology **OR**
BIO 201* and **BIO 202** Human Anatomy and
Physiology I &II)

Social & Behavioral Sciences- PSY 101 Introduction
to Psychology 3

Institutions in the Americas. 3

Major prerequisite

AHE 101 Medical Terminology. 3

Required major courses **57**

RAD 100 Introduction to Radiography and
Patient Care*. 2

RAD 105 Basic Radiographic Procedures 4

RAD 106 Intermediate Radiographic Procedures. . . 4

RAD 110 Patient Care in Imaging Technology. 3

RAD 115 Principles of Radiographic Imaging 1 3

RAD 120 Clinical 1 Medical Radiologic Technology 3

RAD 121 Clinical 2 Medical Radiologic Technology 3

RAD 122 Clinical 3 Medical Radiologic Technology 5

RAD 200 Radiographic Imaging Equipment 3

RAD 205 Advanced Radiologic Procedures. 4

RAD 207 Radiation Biology and Protection. 3

RAD 215 Principles of Radiographic Imaging 2 3

RAD 216 Radiologic Pathology 3

RAD 217 Advanced Medical Imaging. 2

RAD 220 Clinical 4 Medical Radiologic Technology 5

RAD 221 Clinical 5 Medical Radiologic Technology 5

RAD 225 Radiologic Technology Seminar 2

Total credits required for degree:. **82**

*Course Prerequisite:

BIO 201 prerequisite: BIO 181

RAD 100 prerequisite: Full acceptance into the
Radiologic Technology Program

*** Upon instructor approval RAD 101 and/or RAD 102 may
be used to satisfy one or more major and/or departmental
course requirements*

Exercise, Wellness and Nutrition

Associate in Arts (A.A.) degree

Pathway: AA/GR

Major Code: AA.EXWN

Contact: Allied Health (928) 344-7552

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 individu-
als 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.

Required major courses:. **20**

EXW 100 Health and Wellness 3

EXW 101 Concepts of Kinesiology and
Physical Education 3

EXW 212 Exercise Science 3

MAT 270 Applied Statistics 4

BIO 181 General Biology 4

NTR 201 Nutrition * 3

Department Electives:. **9**

Select 9 credits from one of the following emphases:

Fitness and Exercise

EXW 150 Nutrition for Exercise & Sports 2

EXW 210 Essentials of Personal Fitness Training. . 16

EXW 225 Exercise Physiology 3

EXW 265 Exercise For Special Populations. 3

EXW 275 Fitness Professional Practicum. 4

Health and Fitness

PEM 202 Sports Injury Management 3

PEM 208 Sports Injury Treatment. 3

PEM 210 Athletic Training Practicum 3

EXW 150 Nutrition for Exercise & Sports 2

EXW 265 Exercise For Special Populations. 3

NTR 205 Nutrition Through the Life Cycle 3

NTR 210 Nutrition & Disease. 3

Arizona General Education Curriculum (AGEC): . . **35**

**Written Communication (ENG 101 or 107 and ENG
102 or 108)** 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences BIO 201 Anatomy and Physiology I
and **BIO 202** Anatomy and Physiology II**)** 8

Social & Behavioral Sciences PSY 101 Introduction to Psychology and **FAS 238/PSY 238** Human Development 6

Institutions in the Americas 3

Total credits required for degree: **64**

Recommended for U of A: CHM 151 and CHM 152

*Course Prerequisite:
NTR 201 prerequisite: High school chemistry or **BIO 100** or **CHM 130**
EXW 275 Prerequisite: NTR 201, PEM 202, EXW 100, EXW 214, EXW 216, EXW 218, EXW 225

Personal Fitness Trainer

Certificate

Major Code: CERT.FTPR

Contact: Allied Health (928) 344-7552

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.

Required major courses: **16**

EXW 210 Essentials of Personal Fitness Training . . 16

Department Electives
(Select a minimum of 3 credits)**:** **3**

EXW 150 Nutrition for Exercise & Sports 2
EXW 245 Guidelines to Exercise Testing. 3
EXW 265 Exercise For Special Populations. 3

EXW 275 Fitness Professional Practicum. 4
NTR 201 Nutrition 3
NTR 205 Nutrition Through the Lifecycle 3
NTR 210 Nutrition and Disease 3
PEM 105 CPR First Aid & AED Training 1

Total credits required for certificate: **19**

Public Safety

Administration of Justice Studies

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ADMJU

Contact: Entrepreneurial College (928) 317-6452

Program Purpose: Graduates will demonstrate (1) basic knowledge in administration of justice studies that will prepare them to transfer to the university and (2) competency in communication, critical thinking, quantitative analysis, and technological applications.

Program Description: There is an ever increasing threat against the citizens of the United States at home and abroad. As a result, there is a need for individuals in the various agencies of local, state and federal government to combat this threat. The program will assist the community in meeting this need by providing students with a basic foundation in the administration of justice, homeland security, or corrections.

Required major courses: **18**

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

Other departmental requirements **12**

Select one of the following emphases:

Administration of Justice Studies (12 credits- except AJS 212, 241, 242, and 245)

AJS elective. 3

AJS elective. 3

AJS elective. 3

AJS elective. 3

Homeland Security

HLS 101 Introduction to Homeland Security. 3

HLS 107 Introduction to Cyber Terrorism 3

HLS 215 Critical Incident Management
for Public Safety 3

HLS 220 Border Security 3

Corrections

AJS 212 Juvenile Justice Procedures. 3

AJS 241 Institutional Corrections. 3

AJS 242 Community Corrections 3

AJS 245 Correctional Management and Supervision . .3

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG
102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning .3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

Total credits required for degree:. **62**

***Upon instructor approval AJS 105 may be used to satisfy
one or more major and/or departmental course require-
ments*

Customs and Border Protection Homeland Security

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.HLSPR

Contact: Public Safety Institute (928) 317-6452

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 con-
struct 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.

Required major courses:. **9**

AJS 101 Introduction to Administration of Justice . . 3

AJS 201 Crime Control Policies and Procedures . . . 3

AJS 225 Criminology 3

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (**ENG 101** or **107** and **ENG
102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning .3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

**General electives- Complete enough credits to meet
program requirements:**. . . . .

*(18 credits will be awarded, upon request, for HLS 101,
HLS 109, HLS 205, HLS 230, HLS 260, and AJS 220 after
presentation and verification of successfully completing the
USCBP (U.S. Customs & Border Protection) academy)*

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

Homeland Security

Certificate

Major Code: CERT.HLSC

Contact: Public Safety Institute (928) 317-6452

Program Purpose: Students will demonstrate (1)
basic knowledge in homeland security that will pre-
pare them to transfer into a pathway program at
Arizona western college in AJS/HLS program. And
continue to a state university and (2) competency in
communication, critical thinking, quantitative analy-
sis, and technological applications within homeland
security.

Program Description: The Homeland Security Certificate Program is designed to equip students within depth understanding of how to prepare and respond to disasters at the local, regional, national or international level. Students will also gain knowledge concerning the politics, policies, and theoretical basis regarding Homeland Security issues.

Required major courses:. **15**

   AJS 191 Terrorism/Counter Terrorism. 3
   HLS 101 Introduction to Homeland Security. 3
   HLS 107 Introduction to Cyber Terrorism 3
   HLS 215 Critical Incident Management
   for Public Safety 3
   HLS 220 Border Security 3

Total credits required for certificate: **15**

Cyber Criminology

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.CCI

Contact: Public Safety Institute (928) 317-6452

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 areas.

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.

Required major courses:. **15**

   CIS 154 Introduction to E-Commerce/E-Business . . 3
   CIS 171 Computer Forensics. 3
   CIS 175 Computer Security. 3
   CIS 275 Network Security 3

   CIS 120 Introduction to Computer Information
   Systems **OR**
   CIS 105 Introduction to Business Information Systems .3

Other departmental requirements:. **15**

   AJS 101 Introduction to Administration of Justice . . 3
   AJS 109 Substantive Criminal Law 3
   AJS 260 Procedural Criminal Law. 3
   AJS 275 Criminal Investigation 3
   HLS 107 Introduction to Cyberterrorism* 3

Arizona General Education Curriculum (AGEC): 32-35

   Written Communication (ENG 101 or **107** and **ENG
   102** or **108**) 6
   Oral Communication 3-4
   Arts & Humanities 6-9
   Quantitative Reasoning 3-4
   Natural Sciences 4-8
   Social & Behavioral Sciences-AJS 225 Criminology
   and **PSY 101 Introduction to Psychology** 6-9
   Institutions in the Americas. 3

Total credits required for degree:. **62**

*Course Prerequisite:

   HLS 107 prerequisite: basic understanding of
   computer systems and operations

*** Upon instructor approval AJS 105 may be used to satisfy
one or more departmental course requirements*

Detention Officer Training Academy

Certificate

Major Code: CERT.DET

Contact: Public Safety Institute (928) 317-6452

Program Purpose: Graduates will demonstrate basic knowledge in corrections that will prepare them for an entry-level position within the field.

Program Description: This program is an introduction to correctional operations: ethics and professionalism, communication, custody and control, conflict and crisis management, problem solving, officer integrity, hostage survival, riot control measures, defensive tactics, CPR/AED for first responders, medical and mental health issues, and field experience. Applicants must meet program acceptance requirements

Required major courses:. **16**

> **DET 160** Detention Officer Training Academy 1 . . 10
>
> **DET 260** Detention Officer Training Academy 2 . . . 6

Total credits required for certificate: **16**

Advanced Detention Officer Training

Certificate

Major Code: CERT.ADET

Contact: Public Safety Institute (928) 317-6452

Program Purpose: Graduates will demonstrate an advanced level of knowledge and skills in corrections to help their obtain employment and or a promotion within their field.

Program Description: This program is an advanced course of study in correctional operations, to include ethics and professionalism, correctional law, court-room and correctional facility security, crime scene management, conflict and crisis management, leader-ship and management, prisoner classification, special populations, restraint procedures and devices, and medical and mental health issues. Applicants must meet program acceptance requirements

Required major courses:. **8**

> **DET 262** Advanced Detention Officer Training 8

Total credits required for certificate: **8**

Law Enforcement Training Academy

Certificate

Major Code: CERT.LETA

Contact: Public Safety Institute (928) 317-6452

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 qualifica-tions 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.

Required major courses:. **24**

> **LET 160** LETA Academy 1* 12
>
> **LET 260** LETA Academy 2* 12

Total credits required for certificate: **24**

*Course Prerequisite:

> **LET 160** and **LET 260 prerequisite:** Student must be appointed to the Law Enforcement Training Academy either through the Open Enrollment Program or by an Arizona Law Enforcement Agency

Emergency Medical Services: Paramedic

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

Major Code: AAS.EMSPA

Contact: Public Safety Institute (928) 317-6452

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 every-thing 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 pro-gram in order to test for state and national certifica-tion. Criminal history self disclosure required.

Required major courses:. **45**

EMS 293 Paramedic Academy 1*. 15

EMS 294 Paramedic Academy 2 15

EMS 295 Paramedic Academy 3 15

General education requirements: **22**

Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

Total credits required for degree: **67**

*Course Prerequisite:

EMS 293 prerequisite: meet the requirements of the Arizona State Department of Human Service; have applied for and be accepted into the Paramedic Academy by the Director of EMS or the Medical Director of EMS

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

Emergency Medical Services: Paramedic

Certificate

Major Code: CERT.EMSPA

Contact: Public Safety Institute (928) 317-6452

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.

Required major courses: **45**

EMS 293 Paramedic Academy 1*. 15

EMS 294 Paramedic Academy 2 15

EMS 295 Paramedic Academy 3 15

Total credits required for certificate: **45**

*EMS 293 prerequisite: meet the requirements of the Arizona State Department of Human Service; have applied for and be accepted into the Paramedic Academy by the Director of EMS or the Medical Director of EMS

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

Fire Academy

Certificate

Major Code: CERT.FIREA

Contact: Public Safety Institute (928) 317-6452

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.

Required major course: **19**

FSC 112 Hazardous Materials Awareness & Operations 3

FSC 148 Fire Academy 1. 9

FSC 149 Fire Academy 2. 7

Other departmental requirements:

Admission and Selection Policy:

1. High school diploma or GED

2. Minimum age requirement of 18 years

3. Meet the medical requirements of NFPA 1582

4. Liability waiver

5. Meet physical fitness requirements

6. Permission of the Coordinator

Total credits required for certificate: **19**

Fire Science

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

Major Code: AAS.FIRSC

Contact: Public Safety Institute (928) 317-6452

Program Purpose: Graduates will demonstrate expertise in fire science at a level that prepares them for a supervisory position within the fire service.

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.

Required major courses:. **18**

    FSC 106 Principles of Fire and Emergency Services Safety and Survival 3

    FSC 151 Principles of Emergency Services 3

    FSC 152 Fundamentals of Fire Prevention 3

    FSC 153 Fire Behavior and Combustion 3

    FSC 201 Fire Protection Systems 3

    FSC 203 Building Construction 3

Other departmental requirements:. **20**

    Any FSC course 100 or higher

General Education Requirements **22**

    Written Communication (**ENG 101** or **107**) 6

    Oral Communication (Select one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service. 3-4

    Arts & Humanities 3

    Quantitative Reasoning 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas. 3

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

Basic Public Safety Dispatcher

Certificate

Major Code: CERT.BPSD

Contact: Public Safety Institute (928) 317-6452

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).

Required major courses:. **12**

    PSD 152 Basic Public Saftey Dispatcher 12

Total credits required for certificate: **12**

Science, Engineering, Agriculture, & Math

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

Science

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, pre-optometry, pre-pharmacy, and pre-veterinary) should also follow this program and consult with an Academic Advisor for the appropriate courses and sequences for their particular field. Students may also be interested in the A.S. degree in Environmental Sciences with Biology Emphasis.

Required major courses:. **20**

   BIO 181 General Biology (Majors) I 4
   BIO 182 General Biology (Majors) II 4
   BIO 205 Microbiology 4
Select one of the following sequences:
   PHY 111 College Physics I. 4
   PHY 112 College Physics II 4
OR
   BIO 201 Anatomy & Physiology I. 4
   BIO 202 Anatomy & Physiology II 4

Other departmental requirements:. **9**

   CHM 235 Organic Chemistry I 5
   MAT 270 Applied Statistics* 4

(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)

Arizona General Education Curriculum (AGEC): 37-38

   Written Communication ENG 101 or **107** and **ENG 102** or **108** 6
   Oral Communication 3-4
   Arts & Humanities 6-9
   Quantitative Reasoning MAT 151 College Algebra & **MAT 183** Plane trigonometry or
   MAT 187 Precalculus. 5-6
   Natural Sciences CHM 151 General Chemsitry I and **CHM 152** General Chemistry II. 8
   Social & Behavioral Sciences 6-9
   Institutions in the Americas. 3

Total credits required for degree:. **66**

   *Course Prerequisite:
   MAT 270 prerequisite: **MAT 142** or approved higher level math
   CHM 151 prerequisite: **MAT 150** or **MAT 151** or approved higher level math

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.

Required major courses:. **17**

    CHM 151 General Chemistry I* 4

    CHM 152 General Chemistry II 4

    CHM 235 Organic Chemistry I. 5

    CHM 236 Organic Chemistry II 4

Other departmental requirements:. **8**

    MAT 230 Calculus II with Analytic Geometry 5

    MAT 262 Introduction to Ordinary
           Differential Equations 3

Arizona General Education Curriculum (AGEC):. . . **37**

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning-**MAT 220** Calculus I with Analytic Geometry 5

    Natural Sciences- **PHY 121** & **PHY 131** University Physics I and II 8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas. 3

Total credits required for degree:. **62**

    ***Course Prerequisite:**

    CHM 151 prerequisite/corequisite: MAT 150 or **MAT 151** or approved higher level math

    MAT 220 prerequisite: MAT 150 and **MAT 183** or M**AT 151** and **MAT 183** or **MAT 187**

    PHY 121 prerequisite/corequisite: MAT 220/MAT 230

    PHY 131 prerequisite/corequisite: PHY 121 & **MAT 230**/**MAT 241**

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.

Required major courses:. **13**

    GLG 101 Introduction to Geology 1 (Physical) 4

    GLG 102 Introduction to Geology 2 (Historical) 4

    MAT 230 Calculus II with Analytic Geometry 5

Other departmental requirements:. **14**

Select a minimum of one of the following courses:

    GLG 225 Introduction to Paleontology 4

    GLG 240 Introduction to Field Methods 2

    PHY 121 University Physics I .4

    PHY 131 University Physics II*. 4

    Select additional courses from physics, chemistry, calculus, or geology in consultation with your faculty advisor. 10–12

(It is critical that the appropriate courses are chosen and that these are completed in proper sequence; you should review specific requirements of the university to which you wish to transfer)

Arizona General Education Curriculum (AGEC): . 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas. 3

General electives: **1**

Total credits required for degree: 60

*Course Prerequisite:

PHY 131 prerequisite/corequisite: PHY 121 and MAT 230/MAT 241

MAT 220 prerequisite: MAT 150 and MAT 183 or MAT 151 and MAT 183 or MAT 187

CHM 151 prerequisite: MAT 150 or MAT 151 or approved higher level math

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.

Required major courses: **17**

GLG 101 Introduction to Geology 1 (Physical) 4

GLG 102 Introduction to Geology 2 (Historical) 4

MAT 230 Calculus II with Analytic Geometry 5

PHY 111 College Physics I 4

Other departmental requirements: 12

GPH 213 Introduction to Climate Science 4

OCN 110 Oceanography Fiel Experiences 4

Select one of the following courses:

BIO 181 General Biology (Majors) 1 4

PHY 112 College Physics II 4

Arizona General Education Curriculum (AGEC): . . . 37

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning- **MAT 220** Calculus I with Analytics Geometry 5

Natural Sciences- **CHM 151** and **CHM 152** General Chemistry I & II 8

Social & Behavioral Sciences 6-9

Institutions in the Americas 3

Total credits required for degree: 66

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

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

Other departmental requirements: **19**

GLG 101 Introduction to Geology 1 (Physical). 4

GLG 102 Introduction to Geology 2 (Historical). . . . 4

GLG 240 Introduction to Field Methods
and Report Writing. 2

MAT 230 Calculus II with Analytic Geometry. 5

PHY 111 College Physics I* or higher. 4

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (ENG 101 or 107 and ENG
102 or 108) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

Total credits required for degree:. 60

*Course Prerequisite:

PHY 111 prerequisite: MAT 151 and MAT 183 or MAT
187 or approved higher level math

MAT 220 prerequisite: MAT 150 and MAT 183 or MAT
151 and MAT 183 or MAT 187

CHM 151 prerequisite: MAT 150 or MAT 151 or
approved higher level math

Biology Emphasis

Major Code: AS.ESBIO

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

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

Other departmental requirements:. 20

BIO 181 General Biology I 4

BIO 182 General Biology II 4

BIO 205 Microbiology 4

GPH 213 Intro to Climate Science 4

MAT 270 Applied Statistics 4

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (ENG 101 or 107 and ENG
102 or 108) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas. 3

Total credits required for degree:. 60

*Course Prerequisite:

MAT 220 prerequisite: MAT 150 and MAT 183 or MAT
151 and MAT 183 or MAT 187

CHM 151 prerequisite: MAT 150 or MAT 151 or
approved higher level math

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.

Required major courses:. 8

PHY 121 University Physics I 4

PHY 131 University Physics II. 4

Other departmental requirements:. 15

EGR 123 Introduction to Structured Programming * 3

MAT 230 Calculus II with Analytic Geometry. 5

MAT 241 Calculus III with Analytic Geometry 4

MAT 262 Introduction to Ordinary
Differential Equations 3

Arizona General Education Curriculum (AGEC): 32-35

Written Communication (ENG 101 or 107 and ENG
102 or 108) 6

Oral Communication 3-4

Arts & Humanities 6-9

Quantitative Reasoning 3-4

Natural Sciences. 4-8

Social & Behavioral Sciences 6-9

Institutions in the Americas 3

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

*Course Prerequisite:

EGR 123 prerequisite: Either **MAT 187** or both **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183**

Agriculture

AgriCommerce

Associate in Business (A.Bus.) degree

Pathway: ABUS/SR

Major Code: ABUS.AGCOM

Contact: Entrepreneurial College (928) 317-7107

Program Purpose: 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.

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.

Required major courses:. **18**

ACC 211 Financial Accounting 3

ACC 212 Managerial Accounting. 3

BUA 220 Legal Environment of Business 3

ECN 240 Principles of Macroeconomics 3

ECN 250 Principles of Microeconomics 3

QBA 211 Quantitative Analysis 3

Other departmental requirements:. **3**

AGB 230 Agricultural Business Management 3

Arizona General Education Curriculum (AGEC):. . . **35**

Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

Oral Communication -**SPC 110** Introduction to Speech. 3

Arts & Humanities- 6-9

Quantitative Reasoning - **MAT 212** Brief Calculus or approved higher level math 3

Natural Sciences- **PLS 100** Plant Science and **BIO 181** General Biology I. 8

Social & Behavioral Sciences - **PSY 101** Intoduction to Psychology. 6-9

Institutions in the Americas 3

General electives: **5**

AGS 296 Agricultural Internship. 1

PLS 211 Soils 4

Total credits required for degree:. **61**

*Course Prerequisites:

QBA 211 prerequisite: **MAT 150** or **MAT 151** or approved higher level math

MAT 212 prerequisite: MAT 150 or **MAT 151** or **MAT 187**

Agriculture, Occupational

Certificate

Major Code: CERT.AGOCC

Contact: Entrepreneurial College (928) 317-7107

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.

Required major courses:. **21-22**

AGB 230 Agricultural Business Management 3

ECN 250 Principles of Microeconomics 3

PLS 100 Plant Science 4

PLS 211 Soils. 4

BIO 181 General Biology I **OR**

GLG 101 Introduction to Geology 1 (Physical) 4

ACC 211 Financial Accounting **OR** 3

MAT 151 College Algebra: Standard 4

Other departmental requirements:. **12**

Select 12 credits from the following courses:

AGS 101 Agriculture - Solving the Problems
of the World 3

AGS 170 Agriculture - Basic Tractor Operations and
Safety 2

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 2

PLS 160 Alternative Crops of the Desert Southwest .3

PLS 200 Introduction to Integrated Pest Management 4

PLS 220 Crop Water Use, Evapotranspiration,
and Irrigation 3

PLS 230 Basic Crop Fertility .4

PLS 240 Plant Propagation .3

PLS 290 Vegetable Crop Production 4

Total credits required for certificate: **33-34**

*Course Prerequisites:
ANS 240 prerequisite: **ENG 101** or **ENG 107**

Agricultural Systems Management

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.AGSYS

Contact: Entrepreneurial College (928) 317-7107

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

Program Description: Students preparing for trans-
fer 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.

Required major courses:. **15**

AGB 230 Agriculture Business Management **OR** . . . 3
PLS 100 Plant Science 4
PLS 211 Soils. 4
PLS 241 Principles of Genetics 4

Other departmental requirements:. **10**

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

*Select the remaining credits from the following prefix: AGS,
ANS, PLS*

Arizona General Education Curriculum (AGEC): 36

**Written Communication (ENG 101 or 107 and ENG
102 or 108)** 6

Oral Communication 3-4

Arts & Humanities- AGS 101 Solving the Problems of
the World 6-9

Quantitative Reasoning - **MAT 151** College Algebra
or approved higher level math 4

Natural Sciences- BIO 181 & 182 General Biology I
and II. 8

Social & Behavioral Sciences - ECN 240
Macroeconomics and **ECN 250** Microeconomics. 6-9

Institutions in the Americas. 3

Total credits required for degree:. **61**

Animal Production

Associate in Arts (A.A.) degree

Pathway: AA/SR

Major Code: AA.ANPRO

Contact: Entrepreneurial College (928) 317-7107

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 sci-
ence, production, marketing, research and utilization
of animals and animal products in agriculture, enter-
tainment and companionship. It prepares students for
careers related to livestock agri-business, production
and management. A strong animal sciences cur-
riculum that includes genetics, nutrition and physiol-

ogy combined a business component that includes economics, marketing, and management to prepare graduates for all phases of the livestock industry.

Required major courses:. **15**

    ANS 100 Animal Industries 4

    ANS 130 Livestock Production and Management . . 3

    ANS 240 Feeds and Feeding 4

    PLS 211 Soils. 4

Other departmental requirements: **7**

    ACC 211 Financial Accounting 3

    MAT 270 Applied Statistics 4

Arizona General Education Curriculum (AGEC): 36

    Written Communication (ENG 101 or 107 and ENG 102 or 108) 6

    Oral Communication 3-4

    Arts & Humanities- AGS 101 Solving the Problems of the World 6-9

    Quantitative Reasoning - (MAT 151 College Algebra or approved higher level math. 4

    Natural Sciences- CHM 151 and 152 General Chemistry I and II 8

    Social & Behavioral Sciences - ECN 240 Macroeconomics and **ECN 250** Microeconomics . 6-9

    Institutions in the Americas 3

General electives: **8**

    PLS 100 Plant Science 4

    BIO 181 General Biology I 4

Total credits required for degree: **66**

Applied Agriculture

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

Major Code: AAS.AGBUS

Contact: Entrepreneurial College (928) 317-7107

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

Program Description: For students interested in agriculture, this program provides entry skills in agricul-

ture and some flexibility for choices in the agricultural area of interest.

Required major courses:. **25**

    ACC 211 Financial Accounting 3

    AGB 230 Agricultural Business Management 3

    BIO 181 General Biology I 4

    BIO 182 General Biology II 4

    PLS 100 Plant Science 4

    PLS 211 Soils. 4

    ECN 250 Principles of Microeconomics **OR**

    ACC 212 Managerial Accounting II 3

Other departmental requirements: **17**

Select at least 17 credits from the following courses:

    AGS 101 Agriculture - Solving the Problems of the World 3

    AGS 170 Agriculture - Basic Tractor Operations and Safety. 2

    AGS 201 Food Safety Practices and Management. . .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 160 Alternative Crops of the Desert Southwest .3

    PLS 200 Introduction to Integrated Pest Management 4

    PLS 230 Basic Crop Fertility 4

    PLS 240 Plant Propagation .3

    PLS 290 Vegetable Crop Production 4

C. General education requirements: **23**

General education requirements: **22**

    Written & Oral Communication (ENG 101 or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

    Quantitative Reasoning 3

    Natural Sciences- CHM 151 General Chemistry I. . 4

    Social & Behavioral Sciences 3

    Institutions in the Americas 3

Total credits required for degree: **64**

Crop Management

Certificate

Pathway: CERT

Major Code: CERT.CROPN

Contact: Entrepreneurial College (928) 317-7107

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.

Required major courses:. **19**

    PLS 100 Plant Science 4

    PLS 110 Chemical Applications Using Integrated Pest Management 2

    PLS 200 Introduction to Integrated Pest Management 4

    PLS 220 Crop Water Use, Evapotranspiration, and Irrigation 3

    PLS 230 Basic Crop Fertility. 3

    PLS 240 Plant Propagation. .3

Total credits required for degree:. **19**

Crop Production

Associate in Science (A.S.) degree

Pathway: AS/SR

Major Code: AS.CRPRO

Contact: Entrepreneurial College (928) 317-7107

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.

Required major courses:. **16**

    PLS 100 Plant Science 4

    PLS 211 Soils. 4

    PLS 241 Principles of Genetics 4

    PLS 290 Vegetable Crop Production. 4

Other departmental requirements **10**

Select 10 credits from the following prefix: AGS, ANS, PLS

Arizona General Education Curriculum (AGEC): 36

    Written Communication (ENG 101 or 107 and ENG 102 or 108) 6

    Oral Communication -SPC 110 Introduction to Speech Communications 3

    Arts & Humanities- AGS 101 Solving the Problems of the World 6-9

    Quantitative Reasoning - MAT 270 Applied Statistics 4

    Natural Sciences- CHM 151 & 152 General Chemistry I and II. 8

    Social & Behavioral Sciences - ECN 240 Macroeconomics and ECN 250 Microeconomics . . 6-9

    Institutions in the Americas. 3

General electives: **4**

    BIO 181 General Biology I 4

Total credits required for degree:. **66**

    *Course Prerequisite:
    CHM 151 prerequisite/corequisite: **MAT 150** or **MAT 151** or approved higher level math

Food Science and Safety

Certificate

Major Code: CERT.FSS

Contact: Entrepreneurial College (928) 317-7107

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.

Required major courses:. 16

    AGS 200 Food Safety Practices and Management. . .4

    AGS 220 Food Safety in Facilities 4

    PLS 100 Plant Science 4

    PLS 290 Vegetable Crop Production 4

Total credits required for certificate: 16

Soils

Associates in Science

Pathway: AS/SR

Major Code: AS.SOILS

Contact: Entrepreneurial College (928) 317-7107

Program Purpose: To meet the needs of the agricultural 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.

Required major courses:. 18

    ENV 230 Foundations of Environmental Science:
        Humans and the Environment 4

    GEO 105 World Regional Geography 3

    PLS 211 Soils 4

    PLS 230 Basic Crop Fertility .3

    PLS 100 Plant Science **OR**

    ENV 101 Environmental Science 4

Other departmental requirements: 8

    GLG 101 Introduction to Geology 1 (Physical). 4

    GLG 110 Environmental Geology 4

Arizona General Education Curriculum (AGEC): 35

    Written Communication (ENG 101 or 107 and ENG 102 or 108) 6

    Oral Communication. 3

    Arts & Humanities. 6-9

    Quantitative Reasoning 3

Natural Sciences- CHM 151 & 152
General Chemistry I and II. 8

Social & Behavioral Sciences - ECN 240
Macroeconomics and ECN 250 Microeconomics . . 6-9

Institutions in the Americas. 3

Total credits required for degree:. 61

    *Course Prerequisite:

    CHM 151 prerequisite: **MAT 150** or **MAT 151** or approved higher level math

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Engineering & Math

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.

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!

Required major courses:. **7**

    EGR 123 Introduction to Structured Programming. . **3**

    EGR 188 Fundamentals of Engineering Design. . . . **4**

Other departmental requirements:. **20**

    MAT 230 Calculus II with Analytic Geometry **5**

    MAT 241 Calculus III with Analytic Geometry **4**

    MAT 262 Introduction to Ordinary Differential Equations. **3**

    PHY 121 University Physics I **4**

    PHY 131 University Physics II. **4**

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences CHM 151 General Chemistry I. . . **4**

    Social & Behavioral Sciences 6-9

    Institutions in the Americas. 3

General electives: **1**

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

    *Course Prerequisite:

    EGR 123 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

    MAT 220 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

    CHM 151 prerequisite: **MAT 150** or **MAT 151** or approved higher level math

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.

Required major courses:. **17**

    MAT 220 Calculus I with Analytic Geometry* **5**

    MAT 230 Calculus II with Analytic Geometry. **5**

    MAT 241 Calculus III with Analytic Geometry **4**

    MAT 262 Introduction to Ordinary Differential Equations **3**

Arizona General Education Curriculum (AGEC): 32-35

    Written Communication (**ENG 101** or **107** and **ENG 102** or **108**) 6

    Oral Communication 3-4

    Arts & Humanities 6-9

    Quantitative Reasoning 3-4

    Natural Sciences 4-8

    Social & Behavioral Sciences 6-9

    Institutions in the Americas. 3

General electives: **11**

Consult with your or academic or faculty advisor for additional departmental courses which may be part of the bachelor's degree in which you wish to enroll.

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

    *Course Prerequisite:

    MAT 220 prerequisite: **MAT 150** and **MAT 183** or **MAT 151** and **MAT 183** or **MAT 187**

Technology, Trades, & Food Science

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

Technology

Basic Geospatial Technology

Certificate

Major Code: CERT.BGST

Contact: Public Safety Institute (928) 317-6452

Program Purpose: This certificate is designed to prepare students for employment in the geospatial workforce.

Program Description: The certificate provides students with the knowledge and skills necessary to gain an entry level technical position in GIS.

Required major courses:. **4**

    GST 101 Introduction to Geospatial Technology . . . 2
    GST 102 Spatial Analysis. 2

Total credits required for certificate: **4**

Advanced Geospatial Technology

Certificate

Major Code: CERT.AGST

Contact: Public Safety Institute (928) 317-6452

Program Purpose: To create additional educational opportunities for persons with existing training and experience in the geospatial technology field.

Program Description: The certificate provides continuing students additional training in geospatial technology.

Required major courses:. **4**

    GST 103 Data Acquisition and Management. 2
    GST 104 Cartographic Design. 2

Total credits required for certificate: **4**

Drone Operations and Imaging

Certificate

Major Code: CERT.DRONE

Contact: Public Safety Institute (928) 317-6452

Program Purpose: This certificate is designed to prepare students to successfully operate drones.

Program Description: The Drone Operations and Imaging provides students with knowledge and skills in aviation fundamentals, aviation safety and FAA regulations, and the ability to collect and process imagery data for analysis.

Required major courses:. **3**

    DRN 101 Pilot Ground School and Flight Training 1.5
    DRN 102 Image Acquisition and Analysis 1.5

Total credits required for certificate: **3**

Basic Air Conditioning and Refrigeration Service Technician

Certificate

Major Code: CERT.BACT

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **20**

    ACR 101 Air Conditioning and Refrigeration 1 3

    ACR 102 Air Conditioning and Refrigeration 2 3

    ACR 103 Electrical Motors, Circuits and Controls . . 3

    ACR 112 Control Systems. 3

    ACR 113 Heating Technology 3

    TEC 100 Core Curriculum Introductory Craft Skill . . 5

Total credits required for certificate: **20**

Air Conditioning and Refrigeration

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

Major Code: AAS.AIRCR

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **27**

    ACR 101 Air Conditioning and Refrigeration 1 3

    ACR 102 Air Conditioning and Refrigeration 2 3

    ACR 103 Electrical Motors, Circuits and Controls . . 3

    ACR 112 Control Systems. 3

    ACR 113 Heating Technology 3

    ACR 201 Air Conditioning and Refrigeration 3 3

    ACR 202 Air Conditioning and Refrigeration 4 3

    ACR 212 Heat Load Calculations and Duct Design . 3

    ACR 213 Light Commercial Systems 3

Other departmental requirements:. **15**

    ECT 105 Basic Electricity. 3

ENG 110 Technical Writing 3

ENT 100 Introduction to Entrepreneurship 3

TEC 165 Employee and Occupational Safety 3

Select a minimum of 3 credits from the following courses:

    WLD 104 Techniques in Flux Core Arc Welding

    WLD 105 Techniques in Oxyacetylene Welding and Cutting

    WLD 106 Techniques in Shielded Metal Arc Welding

    WLD 109 Techniques in Gas Metal Arc Welding

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

    Quantitative Reasoning. 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas. 3

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

Air Conditioning and Refrigeration

Certificate

Major Code: CERT.AIRCR

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **38**

ACR 101 Air Conditioning and Refrigeration 1 3

ACR 102 Air Conditioning and Refrigeration 2 3

ACR 103 Electrical Motors, Circuits and Controls . . 3

ACR 112 Control Systems 3

ACR 113 Heating Technology 3

ACR 201 Air Conditioning and Refrigeration 3 3

ACR 202 Air Conditioning and Refrigeration 4 3

ACR 212 Heat Load Calculations and Duct Design . 3

ACR 213 Light Commercial Systems 3

TEC 100 Core Curriculum Introductory Craft Skills . . 5

TEC 165 Employee and Occupational Safety 3

Other departmental requirements: **3**

WLD 104 Techniques in Flux Core Arc Welding 3

WLD 105 Techniques in Oxyacetylene
Welding/Cutting 3

WLD 106 Techniques in Shielded Metal Arc Welding3

WLD 109 Techniques in Gas Metal Arc Welding . . . 3

Total credits required for certificate: **38**

Heating, Ventilation, & Air Conditioning(HVAC) Helper 1

Certificate

Major Code: CERT.HELP1

Contact: Entrepreneurial College (928) 344-7752

Program Purpose: This certificate will provide graduates with the basic knowledge in air conditioning and refrigeration to enable them to obtain an entry level position in the field.

Program Description: This program provides an introduction to air conditioning and refrigeration, covering essential tools, materials, and system components. Emphasis is placed on understanding the relationship and function of each part within HVAC systems. The advanced portion delves into various refrigerants, metering devices, and sealed systems, along with theory, installation practices, and service procedures for hermetic and semi-hermetic systems, including compressor replacement. Ample hands-on experience reinforces these skills.

Required major courses: **6**

ACR 101 Air Conditioning and Refrigeration 1 3

ACR 102 Air Conditioning and Refrigeration 2 3

Total credits required for certificate: **6**

Automotive Brakes and Suspension

Certificate

Major Code: CERT.AUTBR

Contact: Entrepreneurial College (928) 344-7752

Program Purpose: Graduates will demonstrate basic knowledge in automotive brakes and suspension that will prepare them to obtain an entry-level position within the field.

Program Description: Successful completion of the required courses for this certificate signifies to potential or current employers that the student has completed the steps necessary in obtaining an entry level position as a general or specialized technician.

Required major courses: **16**

AUT 120 Automotive Suspension 6

AUT 125 Automotive Brakes 4

AUT 200 Automotive Electrical Systems 6

Total credits required for certificate: **16**

Automotive Computer Fundamentals, Engine Performance, and Diagnostics

Certificate

Major Code: CERT.AUTCD

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses: **14**

    AUT 200 Automotive Electrical Systems 6

    AUT 209 Auto Engine Performance and Diagnosis . 5

    AUT 215 Automotive Computer Testing. 3

Total credits required for certificate: **14**

Automotive Electrical and Air Conditioning Systems

Certificate

Major Code: CERT.AUTAC

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses: **13**

    AUT 200 Automotive Electrical Systems 6

    AUT 215 Automotive Computer Testing. 3

    AUT 252 Automotive Air Conditioning Systems . . . 4

Total credits required for certificate: **13**

Automotive Power Trains

Certificate

Major Code: CERT.AUTPT

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses: **13**

    AUT 101 Theory of Engine Operation 4

    AUT 133 Automotive Power Trains. 3

    AUT 200 Automotive Electrical Systems 6

Total credits required for certificate: **13**

Automotive Technology

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

Major Code: AAS.AUTOT

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses: **40**

    AUT 101 Theory of Engine Operation 4

    AUT 120 Automotive Suspension 6

    AUT 125 Automotive Brakes 4

    AUT 133 Automotive Power Trains. 3

    AUT 200 Automotive Electrical Systems 6

    AUT 209 Auto Engine Performance and Diagnosis . 5

    AUT 215 Automotive Computer Testing. 3

    AUT 220 Automotive Hybrid Fundamentals 2

    AUT 252 Automotive Air Conditioning Systems . . . 4

    ENG 110 Technical Writing 3

Other departmental requirements: **3**

Select a minimum of 3 credits from the following courses:

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

DFT 100 AutoCAD 1 - Drafting. 3

ECT 105 Basic Electricity 3

TEC 165 Employee and Occupational Safety 3

WLD 106 Techniques in Shielded Metal Arc Welding3

WLD 109 Techniques in Gas Metal Arc Welding 3

Cooperative Education course

General education requirements: **22**

Written & Oral Communication (**ENG 101** or **107**
and one more course from the AAS GE Written and Oral
Communication categories- consult your advisor or see
requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

Total credits required for degree: **65**

Automotive Technology

Certificate

Major Code: CERT.AUTOT

Contact: Entrepreneurial College (928) 344-7752

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 techni-
cian. Student will be able to apply for and take the
Automotive Service Excellence (ASE) certification
examinations.

Required major courses: **37**

AUT 101 Theory of Engine Operation 4

AUT 120 Automotive Suspension 6

AUT 125 Automotive Brakes 4

AUT 133 Automotive Power Trains. 3

AUT 200 Automotive Electrical Systems 6

AUT 209 Auto Engine Performance and Diagnosis . 5

AUT 215 Automotive Computer Testing. 3

AUT 220 Automotive Hybrid Fundamentals 2

AUT 252 Automotive Air Conditioning Systems . . . 4

Other departmental requirements: **3**

Select 3 credits from the following courses:

AUT 100 Basic Service and Systems 3

AUT 135 Automatic Transmissions. 5

AUT 211 Automotive Emissions Control Systems . . .3

AUT 261 Special Projects 3

TEC 165 Employee and Occupational Safety 3

Total credits required for certificate: **40**

Drafting CAD Technology

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

Major Code: AAS.DFT

Contact: Entrepreneurial College (928) 344-7752

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) criti-
cal thinking skills in AWC's General Education focus
areas.

Program Description: This program prepares gradu-
ates 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 develop-
ment in the use of computer assisted drafting (CAD).

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

Other departmental requirements: **3**

CIS 120 Introduction to Computer
Information Systems 3

General education requirements: **22**

Written & Oral Communication (**ENG 101** or **107**
and one more course from the AAS GE Written and Oral
Communication categories- consult your advisor or see
requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

Total credits required for degree: **64**

Drafting CAD Technology

Certificate

Major Code: CERT.DFT

Contact: Entrepreneurial College (928) 344-7752

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) criti-
cal thinking skills in AWC's General Education focus
areas.

Program Description: This program prepares gradu-
ates 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 develop-
ment in the use of computer assisted drafting (CAD).

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 (Spring) . 4

DFT 201 Construction Graphics 1 4

DFT 202 Construction Graphics 2 (Spring) 4

DFT 203 AutoCAD 3 - Drafting 3 4

DFT 204 AutoCAD 4 - Drafting 4 4

DFT 208 Revit 3 Revit MEP (Mechanical,
Electrical, Plumbing) - Drafting 4

DFT 209 Revit 4 Revit Structural - Drafting 4

Total credits required for certificate **39**

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

Automation

Certificate

Major Code: CERT.AUTM

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Graduates will demonstrate (1)
understanding of electricity both AC and DC, (2) prin-
ciples and applications of control circuits and (3) the
skills and knowledge in the architecture and program-
ming of the programmable logic controllers (PLC) and
how to troubleshoot them.

Program Description: The program will take the stu-
dent from basic electricial theory to alternating and
direct current circuits , control circuits utilizing relay
logic and advancing to the operation, programming
and troubleshooting of the programmable logic con-
trollers. Upon completion the student will be ready
for entry level position in the automated manufactur-
ing field.

Required major courses: **14**

ECT 105 Basic Electricity 3

ECT 110 AC/DC Circuits 4

ECT 210 Control Circuits* 4

ECT 230 Programmable Logic Controllers 3

Prerequisite for ECT 210 (ECT 205) is not required for this certificate.

Total credits required for certificate: **14**

Basic Electrical

Certificate

Major Code: CERT.BELEC

Contact: Entrepreneurial College (928) 785-4175

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.

Required major courses:. **23**

    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

Total credits required for certificate: **23**

Basic Power Generation

Certificate

Major Code: CERT.POGEN

Contact: Entrepreneurial College (928) 785-4175

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

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Required major courses:. **4**

    ECT 240 Power Generation Operation, Maintance & Repair. 4

Total credits required for certificate: **4**

Broadband Fiber Optic Technician

Certificate

Major Code: CERT.BBFO

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Prepare students for employment as a Broadband Fiber Optic Technician.

Program Description: This certificate prepares the student for a career as an entry-level telecommunications technician specializing in fiber optics. Students will learn to install, terminate, test, and troubleshoot single-mode and multimode fiber optic cabling systems in a variety of building foundations.

Required major courses:. **3**

    ECT 150 Broadband Fiber Optics 3

Total credits required for certificate: **3**

Broadband Fiber Optic Technician and Apprenticeship

Certificate

Major Code: CERT.BBFA

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Allows students to gain knowledge and skills pertaining to broadband fiber optics while simultaneously working as a Broadband Fiber Optics Technician apprentice.

Program Description: This certificate prepares the student for a career as an entry-level telecommunications technician specializing in fiber optics. Students will learn to install, terminate, test, and troubleshoot single-mode and multimode fiber optic cabling systems in a variety of building foundations while working in the filed as a Broadband Fiber Optics Technician apprentice.

Required major courses:. **9**

CTM 123 Building Construction Methods 1 3

ECT 105 Basic Electricity. 3

ECT 150 Broadband Fiber Optics. 3

Total credits required for certificate: **9**

Electrical for Manufacturing

Certificate

Major Code: CERT.ECTMG

Contact: Entrepreneurial College (928) 785-4175

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

Required major courses:. **10**

ECT 105 Basic Electricity. 3

ECT 210 Control Circuits. 4

ECT 230 Programmable Logic Controllers 3

Total credits required for certificate: **10**

Electrical Technology

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

Major Code: AAS.ELECT

Contact: Entrepreneurial College (928) 785-4175

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.

Required major courses:. **23**

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

Other departmental requirements: **21**

ACR 103 Electrical Motors, Circuits, and Controls . . 3

CTM 105 Blueprint Reading for Construction 3

CTM 110 Construction Estimating 3

CTM 230 Construction Management
    Field Operations 3

DFT 100 AutoCAD 1 - Drafting 3

ENT 100 Introduction to Entrepreneurship 3

TEC 165 Employee and Occupational Safety 3

General education requirements: **22**

Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

Total credits required for degree: **66**

Electrical Technology

Certificate

Major Code: CERT.ECT

Contact: Entrepreneurial College (928) 785-4175

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.

Required major courses:. **23**

    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

Other departmental requirements:. **9**

    ACR 103 Electrical Motors, Circuits, and Controls . . 3
    DFT 100 AutoCAD 1 - Drafting 3
    TEC 165 Employee and Occupational Safety 3

Total credits required for certificate: **32**

Electrical Technology Apprenticeship

Certificate

Major Code: CERT.ECTAP

Contact: Entrepreneurial College (928) 785-4175

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.

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
    ECT 225 Load Calculations 3
    TEC 100 Core Curriculum Introductory Craft Skills. . 5

Total credits required for certificate: **39**

    ***Course** Prerequisite:
    ECT 220 prerequisite: ECT 110 and ECT 115

Electronics Technician

Certificate

Major Code: CERT.ETECH

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Advanced electronics and test technology certification training designed to mitigate current skill gaps and serve as an opportunity for career/advancement in electronic technologies fields.

Program Description: This program provides graduates with the essential skills required of an entry level employee in the electronics manufacturing and testing industries.

Required major courses:. **8**

    ECT 120 Electronics and Test Technology I 4
    ECT 121 Electronics and Test Technology II 4

Total credits required for certificate: **8**

Electronics Instrumentation

Certificate

Major Code: CERT.ECTIN

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Electronics instrumentation certification training designed to mitigate current skill gaps and serve as an opportunity for career/advancement in instrumentation and testing fields.

Program Description: This program provides graduates with the essential skills required of an entry level employee in the electronics manufacturing and testing industries.

Required major courses:. **8**

    ECT 122 Electronics Instrumentation I 4
    ECT 123 Electronics Instrumentation II 4

Total credits required for certificate: **8**

Fundamentos de Electricidad

Certificate

Major Code: CERT.ECTSP

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Spanish speaking 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

Required major courses:. **15**

    ECT 105 Basic Electricity. 3
    ECT 110 AC/DC Circuits 4
    ECT 115 National Electrical Code 3
    TEC 100 Core Curriculum Introductory Craft Skills . . 5

Total credits required for certificate: **15**

Solar Panel Installation Level 1

Certificate

Major Code: CERT.SOLIN

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Graduates will demonstrate basic knowledge in the installation of both residential and commercial photovoltaic panels preparing them to sit for the North American Board of Certified Energy Practitioners (NABCEP) PV Entry Level Examination.

Program Description: Students enrolled in this program using a nationally developed curriculum will develop knowledge and skills to successfully install photovoltaic panels. The student will gain a basic understanding of electrical theory, wiring to proper code requirements, proper safety and panel mounting, panel positioning and tie-in to the commercial grid. Students will have the skills necessary to enter the workforce as an entry level solar panel installer.

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

Total credits required for certificate: **31**

Solar Photovoltaic Installation

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

Major Code: AAS.SOLPV

Contact: Entrepreneurial College (928) 785-4175

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.

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
    SLR 105 Intro to Solar Photovoltaics 1 3
    SLR 110 Intro to Solar Photovoltaics 2 3
    TEC 100 Core Curriculum Introductory Craft Skills . . 5

Other departmental requirements: 11

    ECT 205 Fixtures and Installation 4

    ECT 210 Control Circuits 4

    MFG 195 Materials Science and Metallurgy 3

General education requirements: 22

    Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

    Quantitative Reasoning 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas 3

Total credits required for degree: 64

Energy Optimization Technician

Certificate

Major Code: CERT.EOT

Contact: Entrepreneurial College (928) 314-9435

Program Purpose: To equip students with a solid understanding of optimization techniques and their practical applications in energy systems. It focuses on teaching students how to enhance the efficiency of energy systems, reduce operational costs, and optimize resource allocation.

Program Description: Introducing students to the principles of optimization and their applications in energy systems. Topics include fundamental optimization techniques, modeling of energy systems, and solving key decision-making problems in electric power and energy markets. Students will learn how to apply these techniques to improve efficiency, reduce costs, and optimize resource allocation within energy markets.

Required major courses: 4

    EOT 100 Energy Optimization Technology 4

Total credits required for certificate: 4

Electric Vehicle (EV) Safety

Certificate

Major Code: CERT.EVS

Contact: Entrepreneurial College (928) 314-9435

Program Purpose: To equip students with foundational knowledge and skills for entry-level careers in electric vehicle maintenance, installation, and infrastructure support, emphasizing sustainability and clean energy solutions.

Program Description: These courses provide a comprehensive introduction to electric vehicles and their charging systems, covering key technologies, components, economic aspects, and hands-on labs with a focus on battery technology, powertrains, safety, and the installation and troubleshooting of EV charging infrastructure.

Required major courses: 3

    EVT 100 Fundamentals of Electrical Technology for Electric Vehicles 1

    EVT 101 Introduction to Electric Vehicles 2

Total credits required for certificate: 3

Electric Vehicle (EV) Technician Level 2

Certificate

Major Code: CERT.EVT

Contact: Entrepreneurial College (928) 314-9435

Program Purpose: To prepare students for advanced roles in electric vehicle diagnostics, motor systems repair, and comprehensive troubleshooting, enabling them to support the growing demand for skilled EV technicians.

Program Description: These courses offers an in-depth study of EV motors, focusing on DC and AC systems, maintenance, repair practices, and hands-on labs to equip students

Require major courses: 10

    EVT 100 Fundamentals of Electrical Technology for Electric Vehicles 1

    EVT 101 Introduction to Electric Vehicles 2

EVT 102 EV Charging Systems and Infrastructure . . 3

EVT 150 Advanced EV Motors and Powertrains. . . . 4

Total credits required for certificate: 10

Industrial Technology

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

Major Code: AAS.INDST

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. 18

DFT 100 AutoCAD 1- Drafting. 3

ECT 105 Basic Electricity. 3

ENG 110 Technical Writing 3

TEC 165 Employee and Occupational Safety 3

WLD 104 Techniques in Flux Corel Arc Welding . . . 3

Select one course from the automotive (AUT) area 3

Other departmental requirements:. 18

Select 14 credits from the following prefixes:

ACR, AUT, CTM, DFT, ECT, MFG, PCT, SLR, TEC, and **WLD**

General education requirements: 22

Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas 3

General electives: 2

Total credits required for degree:. 60

Basic Manufacturing

Certificate

Major Code: CERT.BASMG

Contact: Entrepreneurial College (928) 785-4175

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.

Required major courses:. 9

MFG 185 Quality Control and Inspection 3

MFG 195 Materials Science and Metallurgy 3

MFG 201 Machinery/Indust. Valve & Pump, Maintenance Repair 3

Total credits required for certificate: 9

Basic Manufacturing CAD-CAM Certificate

Major Code: CERT.BCAM

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: To prepare the student for entry level employment as a CNC machine operator with basic understanding of the preparation, principles and standards used in Computer Aided Drafting (CAD) along with the fundamental operative skills associated with Computer Aided Manufacturing (CAM) in the use of CNC Milling machines.

Program Description: The course of study will provide students with experiential learning leading to a basic understanding of the preparation, principles and standards used in Computer Aided Drafting (CAD) along with the fundamental operative skills associated with Computer Aided Manufacturing (CAM) and the use of CNC Milling machines.

Required major courses:. **6**

    CNC 101 CNC Machine Operator 3
    DFT 100 AutoCAD 1- Drafting 3

Total credits required for certificate: **6**

Advanced Manufacturing CAD-CAM

Certificate

Major Code: CERT.ACDCM

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: To provide understanding for applications in computer aided drafting (CAD) for graphical communications, sketching, 3D design, 3D printing and parametric modeling in conjunction with computer aided manufacturing (CAM) applications for CNC Milling operations

Program Description: Students will gain understanding and skill in the use of CAD related platforms such as AutoCAD, Solidworks applications for creation of parts drawings, designs, and parametric modeling for use in 3D printing applications associated with computer aided manufacturing for CNC Milling operations.

Required major courses:. **9**

    CNC 201 Computer Numerical Controlled Machine
           Setup* 3
    DFT 100 AutoCAD 1- Drafting. 3
    DFT 180 CAD working with Solid Works. 3

Total credits required for certificate: **9**

    *Course Prerequisite:
    CNC 201 prerequisite: CNC 101

Manufacturing

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

Major Code: AAS.MFG

Contact: Entrepreneurial College (928) 785-4175

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

Required major courses:. **42-44**

    CNC 101 CNC Machine Operator 3
    CNC 201 Computer Aided Programming for CNC
           Machines 3
    DFT 100 AutoCad 1- Drafting. 3
    DFT 180 CAD with Solidworks 3
    ECT 105 Basic Electricity 3
    ECT 210 Control Circuits. 4
    ECT 230 Programmable Logic Controllers 3
    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 109 Techniques in Gas Metal Arc Welding 3
    WLD 201 Automation for metals Joining
           and Severing Processes 4
    TEC 125 10-Hour Construction Card **OR**. 1
    TEC 165 Employee and Occupational Safety 3

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107**
and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6
    Arts & Humanities 3

Quantitative Reasoning 3

Natural Sciences 4

Social & Behavioral Sciences 3

Institutions in the Americas. 3

Total credits required for degree: **64-66**

Manufacturing

Certificate

Major Code: CERT.MFG

Contact: Entrepreneurial College (928) 785-4175

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

Program Description: 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

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Required major courses:. **48-50**

CNC 101 CNC Machine Operator 3

CNC 201 Computer Aided Programming for CNC
      Machines 3

DFT 100 AutoCad 1- Drafting. 3

DFT 180 CAD with Solidworks 3

ECT 105 Basic Electricity 3

ECT 210 Control Circuits. 4

ECT 230 Programmable Logic Controllers 3

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 109 Techniques in Gas Metal Arc Welding 3

WLD 123 Manufacturing/Welding Technology Survey3

WLD 127 Welder Certification and Code Application .6

TEC 125 10-Hour Construction Card OR. 1

TEC 165 Employee and Occupational Safety 3

Total credits required for certificate: **48-50**

Manufacturing-Automation for Metals Joining and Severing Processes

Certificate

Major Code: CERT.MFGA

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: Graduates will demonstrate fundamental quality control, inspection, basic tool operations, use of an oxy-fuel torch, and welding processes applicable to manufacturing plant maintenance and repairs.

Program Description: This certificate will provide graduates with the knowledge and skills to engage in quality control, inspections, basic tool operations, use of an oxy-fuel torch, and welding processes applicable to manufacturing plant maintenance and repairs.

Required major courses:. **10**

MFG 185 Quality Control and Inspection 3

WLD 109 Techniques in Gas Metal Arc Welding . . . 3

WLD 201 Automation for metals Joining
      and Severing Processes 4

Total credits required for certificate: **10**

Materials Processes in Manufacturing

Certificate

Major Code: CERT.MPM

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: To provide students a course of study leading to a capstone experience two hundred level course related to " Materials Processes in Manufacturing". The new certificate represents an opportunity for studies inclusive of a number of core manufacturing courses, while providing opportunity for students to pursue manufacturing materials and process applications outside of becoming a maintenance technician or CNC operator.

Program Description: Students will complete required courses for OSHA safety, welding, quality control, inspection, materials science in preparation for the capstone course where students along with

their faculty will identify and complete a experiential and research driven study of materials processes in manufacturing. The student will organize a capstone portfolio of student learning outcomes and present it as a requirement of the two hundred level course

Required major courses:. **10**

    MFG 185 Quality Control and Inspection 3

    MFG 195 Materials Science and Metallurgy 3

    MFG 225 Thermal Conditioning Processes for
            Manufacturing Materials. 4

Other departmental requirements:. **6**

    TEC 165 Employee and Occupational Safety 3

    WLD Any Welding Course 3

Total credits required for certificate: **16**

Basic Plumbing

Certificate

Major Code: CERT.BPLMB

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses:. **14**

    PCT 105 Introduction to Plumbing Technology 3

    PCT 115 Plumbing Drain, Waste,
            and Venting Systems 3

    PCT 205 Plumbing Water Supply
            and Distribution Systems 4

    PCT 210 Plumbing Fixture and Appliance Installation4

Total credits required for certificate: **14**

Plumbing

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

Major Code: AAS.PLMB

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses:. **14**

    PCT 105 Introduction to Plumbing Technology 3

    PCT 115 Plumbing Drain, Waste, and
            Venting Systems 3

    PCT 205 Plumbing Water Supply and
            Distribution Systems 4

    PCT 210 Plumbing Fixture and Appliance Installation 4

Other departmental requirements:. **21**

    ACR 101 Air Conditioning and Refrigeration 1 3

    CTM 110 Construction Estimating* 3

    CTM 230 Construction Management
            Field Operations* 3

    DFT 100 AutoCAD 1 - Drafting 3

    ECT 105 Basic Electricity. 3

    ENT 100 Introduction to Entrepreneurship 3

    TEC 165 Employee and Occupational Safety 3

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities 3

    Quantitative Reasoning 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas. 3

General electives (enough to meet total credits): . . .

Total credits required for degree:. 60

*Course Prerequisite:
CTM 110 prerequisite: CTM 105
CTM 230 prerequisite: CTM 105

Plumbing Technology

Certificate

Major Code: CERT.PLMB

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses:. 14

> **PCT 105** Introduction to Plumbing Technology 3
> **PCT 115** Plumbing Drain, Waste, and
> Venting Systems 3
> **PCT 205** Plumbing Water Supply and
> Distribution Systems 4
> **PCT 210** Plumbing Fixture and
> Appliance Installation 4

Other departmental requirements:. 6

> **ACR 101** Air Conditioning and Refrigeration 1 3
> **ECT 105** Basic Electricity. 3

Total credits required for certificate: 20

Welding

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

Major Code: AAS.WELDT

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. 30

> **MFG 185** Quality Control and Inspection 3
> **MFG 195** Materials Science and Metallurgy 3
> **WLD 105** Techniques in Oxyacetylene Welding
> and Cutting. 3
> **WLD 106** Techniques in Shielded Metal
> Arc Welding 3
> **WLD 108** Techniques in Gas Tungsten Arc Welding 3
> **WLD 109** Techniques in Gas Metal Arc Welding . . . 3
> **WLD 123** Manufacturing/Welding
> Technology Survey. 3
> **WLD 124** Arc Welding Processes and
> Power Sources. 3
> **WLD 125** Welding Design, Layout, and Fabrication 3
> **WLD 224** Technical Specialized Welding Process . . 3

Other departmental requirements:. 15

> **DFT 100** AutoCAD 1 - Drafting 3
> **ECT 105** Basic Electricity. 3
> **ENG 110** Technical Writing 3
> **TEC 165** Employee and Occupational Safety 3
> **WLD 104** Techniques in Flux Core Arc Welding. . . . 3

General education requirements: **22**

    Written & Oral Communication (ENG 101 or 107 and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6

    Arts & Humanities. 3

    Quantitative Reasoning 3

    Natural Sciences 4

    Social & Behavioral Sciences. 3

    Institutions in the Americas 3

Total credits required for degree:. **67**

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

Major Code: CERT.WELDG

Contact: Entrepreneurial College (928) 344-7752

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

Program Description: see entry above under Welding (A.A.S.)

Required major courses:. **34**

    MAT 106 Mathematics for Welders 3

    WLD 105 Techniques in Oxyacetylene
             Welding/Cutting 3

    WLD 106 Techniques in Shielded Metal
             Arc Welding 3

    WLD 108 Techniques in Gas Tungsten
             Arc Welding 3

    WLD 109 Techniques in Gas Metal Arc Welding . . . 3

    WLD 123 Manufacturing/Welding
             Technology Survey. 3

    WLD 124 Arc Welding Processes and
             Power Sources. 3

    WLD 125 Welding Design, Layout, and
             Fabrication 3

    WLD 127 Welder Certification and
             Code Application 6

    WLD 201 Introduction to Robotic Welding 4

Other departmental requirements: **12**

    DFT 100 AutoCAD 1 - Drafting 3

    MFG 185 Quality Control and Inspection 3

    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: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **16**

    MAT 106 Mathematics for Welders 3

    WLD 104 Techniques in Flux Core Arc Welding. . . . 3

    WLD 109 Techniques in Gas Metal Arc Welding . . . 3

    WLD 125 Welding Design Layout and Fabrication. . 3

    WLD 201 Introduction to Robotic Welding 4

Other departmental requirements: **3**

    DFT 100 AutoCAD 1 - Drafting 3

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: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **22**

> **MAT 106** Mathematics for Welders 3
> **WLD 105** Techniques in Oxyacetylene
>   Welding/Cutting 3
> **WLD 106** Techniques in Shielded Metal Arc Welding 3
> **WLD 125** Welding Design, Layout, and Fabrication 3
> **WLD 127** Welder Certification and Code Application 6
> **WLD 201** Introduction to Robotic Welding* 4

Other departmental requirements:. **3**

> **DFT 100** AutoCAD 1- Drafting. 3

Total credits required for certificate: **25**

> ***Course Prerequisite:***
> **WLD 201** prerequisite: WLD 109

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

> **ENT 240** Business Plan Development

Welding Entry Level 1

Certificate

Major Code: CERT.WLDEL

Contact: Entrepreneurial College (928) 344-7752

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:. **25**

> **MAT 106** Mathematics for Welders 3
> **WLD 104** Techniques in Flux Core Arc Welding. . . . 3
> **WLD 105** Techniques in Oxyacetylene
>   Welding/Cutting 3
> **WLD 106** Techniques in Shielded Metal Arc Welding 3
> **WLD 108** Techniques in Gas Tungsten Arc Welding 3
> **WLD 109** Techniques in Gas Metal Arc Welding . . . 3
> **WLD 125** Welding Design Layout and Fabrication. . 3
> **WLD 201** Introduction to Robotic Welding 4

Other departmental requirements:. **6**

> **WLD 127** Welder Certification and Code Application 6

Total credits required for certificate: **31**

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

> **ENT 240** Business Plan Development
>
> **WLD 128** Welder Certification and Code Application-
>   Open Root

Welding for Manufacturing-Basic

Certificate

Major Code: CERT.WLDMB

Contact: Entrepreneurial College (928) 344-7752

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

Required major courses:. **10-12**

> **MFG 185** Quality Control and Inspection 3
> **WLD 106** Techniques in Shielded Metal Arc Welding 3
> **WLD 109** Techniques in Gas Metal Arc Welding . . . 3

TEC 125 10-Hour OSHA Construction Card 1

OR

TEC 165 Employee and Occupational Safety 3

Total credits required for certificate: **10-12**

Welding for Manufacturing-Advanced

Certificate

Major Code: CERT.WLDMA

Contact: Entrepreneurial College (928) 344-7752

Program Purpose: Graduates will demonstrate fundamental quality control, inspection, basic tool operations, use of an oxy-fuel torch, and welding processes applicable to manufacturing plant maintenance and repairs.

Program Description: Graduates will demonstrate fundamentals of materials science, metallurgy; safety and the fundamentals of welding project management, creation of bills of materials and use of blueprints for project production; the fundamentals of Flux Core Arc Welding (FCAW) welding process for carbons steel for fabrication and repairs; the fundamentals of Gas Tungsten Arc Welding (GTAW) welding process for carbons steel, aluminum, and stainless steel for fabrication and repairs; and the fundamentals of welding design and fabrication applicable to manufacturing, fabrication, and repairs.

Required major courses:. **12**

MFG 195 Material Science and Metallurgy 3
WLD 104 Techniques in Flux Core Arc Welding. . . 3
WLD 108 Techniques in Gas Tungsten Arc Welding .3
WLD 125 Welding Design, Layout and Fabrication . 3

Total credits required for certificate: **12**

Trades

Basic Carpentry

Certificate

Major Code: CERT.BCARP

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **17**

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

Total credits required for certificate: **17**

Carpentry

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

Major Code: AAS.CARP

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses:. **17**

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

Other departmental requirements: **24**

    ACR 101 Air Conditioning and Refrigeration 1 3

    CTM 110 Construction Estimating 3

    CTM 230 Construction Management
           Field Operations 3

    DFT 100 AutoCAD 1- Drafting. 3

    ECT 105 Basic Electricity. 3

    ENT 100 Introduction to Entrepreneurship 3

    TEC 165 Employee and Occupational Safety 3

    WLD 106 Techniques in Shielded Metal Arc 3

General education requirements: **22**

    Written & Oral Communication (ENG 101 or **107
    and one more course from the AAS GE Written and
    Oral Communication categories- consult your advi-
    sor or see requirements in Self-Service)** 6

    Arts & Humanities 3

    Quantitative Reasoning 3

    Natural Sciences 4

    Social & Behavioral Sciences 3

    Institutions in the Americas 3

Total credits required for degree: **63**

Carpentry

Certificate

Major Code: CERT.CARPT

Contact: Entrepreneurial College (928) 344-7752

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.

Required major courses: **17**

    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

Other departmental requirements: **15**

    ACR 101 Air Conditioning and Refrigeration 1 3

    DFT 100 AutoCAD 1- Drafting. 3

    ECT 105 Basic Electricity. 3

    TEC 165 Employee and Occupational Safety 3

    WLD 106 Techniques in Shielded Metal Arc 3

Total credits required for certificate: **32**

Commercial Driver's License

Certificate

Major Code: CERT.CDL

Contact: Entrepreneurial College (928) 344-7752

Program Purpose: The Commercial Driver's License (CDL) Occupational Certificate Program is designed to equip individuals with the essential skills and knowledge required to obtain a commercial driver's license and pursue a successful career in the transportation and logistics industry. This comprehensive program covers both theoretical and practical aspects of commercial driving, ensuring participants are well-prepared for the challenges of the road.

Program Description: The certificate will allow completers to enhance their theoretical and practical aspects of commercial driving, ensuring participants are well-prepared for the challenges of the road.

Required major courses: **12**

    CDL 101 Introduction to Arizona CDL 3

    CDL 102 Safe Operating Practices 3

    CDL 103 Vehicle Control. 3

    CDL 104 General Driving and Testing. 3

Total credits required for certificate: **12**

Construction Trades Management

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

Major Code: AAS.CTM

Contact: Entrepreneurial College (928) 344-7752

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

Program Description: Provides graduates with the essential skills required of an entry level employee in the construction trades industry. This program is certified with the National Association of Home Builders through the Home Builders Institute and encompasses the National Skills Standards for the Construction Trades.

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 3
    TEC 100 Core Curriculum Introductory Craft Skills . . 5

Other departmental requirements:. 19

    ACR 101 Air Conditioning and Refrigeration 1 3
    DFT 100 AutoCAD 1 - Drafting 3
    DFT 102 AutoCAD 1 - Drafting 4
    ECT 105 Basic Electricity. 3
    ECT 115 National Electrical Code 3
    TEC 165 Employee and Occupational Safety 3

General education requirements: 22

    Written & Oral Communication (ENG 101 or 107 and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6
    Arts & Humanities 3
    Quantitative Reasoning 3
    Natural Sciences 4
    Social & Behavioral Sciences 3
    Institutions in the Americas. 3

Total credits required for degree:. 61

Flooring Installation Technician-

Resilient

Certificate

Major Code: CERT.FITR

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: This program provides graduates with the essential skills required of an entry level employee in resilient flooring installation.

Program Description: Introduces students to the types of flooring and installation procedures used in the resilient flooring processes. Topics covered include resilient flooring types, moisture identification, cutting, adhesives and grout, dead zone and floating floors, and measuring and estimating.

Required major courses:. 2

    FLR 102 Flooring Installation Technician - Resilient . 2

Total credits required for certificate: 2

Flooring Installation Technician-Tile

Certificate

Major Code: CERT.FLR

Contact: Entrepreneurial College (928) 785-4175

Program Purpose: This program provides graduates with the essential skills required of an entry level employee in tile installation.

Program Description: Provides instruction in the principles and practices of tile flooring installation. Emphasis is placed on the acquisition of knowledge and skills in the areas of safety, tools, substrate prep, layout, tile cutting, mortar and grout application. A modeled real world lab environment is utilized to reinforce and apply learned skills and techniques.

Required major courses:. 2

    FLR 101 Flooring Installation Technician - Tile. 2

Total credits required for certificate: 2

Foundations of Construction

Certificate

Major Code: CERT.FNDC

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses: **12**

    CTM 105 Blueprint Reading for Construction 3
    ORI 101 Strategies for Success 3
    ORI 105 Decision Making 1
    TEC 100 Core Curriculum Introductory Craft Skills . . 5

Total credits required for certificate: **12**

Masonry

Certificate

Major Code: CERT.MAS

Contact: Reskilling & Technology Center (928) 317-7674

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.

Required major courses: **14**

    MAS 120 Introduction to Masonry 2
    MAS 121 Tools and Materials 3
    MAS 123 Masonry Blueprint Reading
             and Building Codes 2
    MAS 129 Hod Carrier 3

    ORI 101 Strategies for Success 3
    ORI 105 Decision-Making 1

Total credits required for certificate: **14**

Food Science

Culinary Arts

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

Major Code: AAS.CULAR

Contact: Entrepreneurial College (928) 317-7107

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).

Required major courses: **42**

    CUL 141 Basic Culinary Arts 1 3
    CUL 143 ServSafe Prep and Exam 2
    CUL 144 Menu Planning 1
    CUL 146 Saucier & Meat Fabrication 3
    CUL 147 Baking 1 3
    CUL 149 Garde Manger 1 3
    CUL 241 Basic Culinary Arts 2 3
    CUL 247 Baking 2 3
    CUL 249 Garde Manger 2 3
    CUL 251 Catering 3
    CUL 253 Food & Beverage Management 3
    CUL 258 Advanced Cuisine 5
    CUL 259 Field Experience 7

General education requirements: **22**

    Written & Oral Communication (**ENG 101** or **107** and one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service) 6
    Arts & Humanities 3
    Quantitative Reasoning 3

Natural Sciences- **PLS 108** Plants and People 4

Social & Behavioral Sciences. 3

Institutions in the Americas. 3

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

Culinary Arts Level 1

Certificate

Major Code: CERT.CUL1

Contact: Entrepreneurial College (928) 317-710

Program Purpose: To prepare students for an intro-duction to the culinary arts industry.

Program Description: Stackable certificates will allow students to obtain different levels of culinary experi-ence to enter the workforce

Required major courses:. **17**

    CUL 141 Basic Culinary Arts 1. 3

    CUL 143 ServSafe Prep and Exam 2

    CUL 146 Saucier & Meat Fabrication. 3

    CUL 147 Baking 1. 3

    CUL 149 Garde Manger 1 3

    CUL 253 Food & Beverage Management 3

Total credits required for certificate: **17**

Culinary Arts Level 2

Certificate

Major Code: CERT.CUL2

Contact: Entrepreneurial College (928) 317-710

Program Purpose: Graduates will demonstrate an advanced level of knowledge in culinary arts that will prepare them to obtain a position within the field.

Program Description: Designed to prepare the student for a career in food service in restaurants, resorts, catering, hospitals, cruise ships, television shows, and food processing companies. Students will develop creative food preparation and presentation.

Required major courses:. **25**

    CUL 144 Menu Planning 1

    CUL 241 Basic Culinary Arts 2 3

CUL 247 Baking 2 3

CUL 249 Garde Manger 2 3

CUL 251 Catering. 3

CUL 258 Advanced Cuisine. .5

CUL 259 Field Experience. 7

Total credits required for certificate: **25**

Culinary Arts with a Focus in Entrepreneurship

Certificate

Major Code: CERT.CAENT

Contact: Entrepreneurial College (928) 317-710

Program Purpose: Graduates will demonstrate basic knowledge in culinary arts and good business prac-tices that will enable them to operate their own cater-ing 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, determin-ing the target market and developing a marketing strategy as well as developing skills in food prepara-tion and plate and buffet presentation.

Required major courses:. **31**

    CUL 141 Basic Culinary Arts 1. 3

    CUL 143 ServSafe Prep and Exam 2

    CUL 146 Saucier & Meat Fabrication. 3

    CUL 147 Baking 1. 3

    CUL 149 Garde Manger 1 3

    CUL 253 Food & Beverage Management 3

    CUL 259 Field Experience. 7

    MGT 250 Personnel Supervision 3

    NTR 139 Personal Nutrition **OR**

    NTR 201 Nutrition 3

Other departmental requirements:. **9**

    ENT 100 Introduction to Entrepreneurship 3

    ENT 220 Marketing the Entrepreneurial Venture . . . 3

    ENT 240 Business Plan Development. 3

Total credits required for certificate: **40**

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
AET	Aeronautics
AGB	Agricultural Business Management
AGS	Agricultural Science
AHE	Allied Health
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
BHS	Behavioral Health Science
BIO	Biology
BUA	Business Administration
CDL	Commercial Driver's License
CHM	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
CTM	Construction Trades Management
CUL	Culinary Arts
DET	Detention Officer Training
DFT	Drafting
DME	Digital Marketing & E-Commerce
DNC	Dance
DRN	Drones
EAP	English for Academic Purposes
ECE	Early Childhood Education
ECN	Economics

ECT	Electrical Construction Trades
EDU	Education
EGR	Engineering
EMS	Emergency Medical Services
ENG	English
ENT	Entrepreneurial Education
ENV	Environmental Science
EOT	Energy Optimization Technology
ESL	English as a Second Language
EVT	Electric Vehicle Technology
EXW	Exercise and Wellness
FAS	Family Sciences
FDI	Fashion Digital Influence
FIN	Finance
FLR	Flooring Installation Technician
FRE	French
FSC	Fire Science
FSH	Fashion
GEO	Geography
GER	German
GLG	Geology
GME	Video Game Design
GPH	Physical Geography
GRA	Computer Graphics
GST	Geospatial Technology
HIS	History
HLS	Homeland Security
HON	Honors
HRM	Hotel/Restaurant Management
JRN	Journalism
LAS	Paralegal Studies
LET	Law Enforcement Training
LGS	Logistics
MAS	Masonry
MAT	Mathematics
MCB	Medical Coding & Billing
MDA	Medical Assistant
MFG	Manufacturing

MGT	Management
MKF	Marketing of Fashion
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
PMT	Project Management
POS	Political Science
PSY	Psychology
PSD	Public Safety Dispatch
QBA	Quantitative Business Analysis
RAD	Radiologic Technology
REL	Religious Studies
SEI	Structured English Immersion
SLR	Solar
SLT	Second Language Teaching
SOC	Sociology
SPA	Spanish
SPC	Speech Communications
SSC	Student Success Course
TEC	Technology
THE	Theatre
TRB	Tribal Languages
TVP	Television Production
WED	Wellness Education
WLD	Welding

Guide to Course Terminology

Course Credit, Frequency of Offering, and Mode of Instruction

Some of the listed courses may not be offered this year, or in sequence, based on budget considerations or student interest. The fact that a course is listed does not guarantee that it will be offered; consult the appropriate AWC Class Schedule.

All course descriptions within the catalog identify the number of credits, the number of contact hours per week for lecture/demonstration and, if applicable, laboratory, recitation, or clinical time. This information follows the course title. See the "Key to Reading Course 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: SUN#

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 or ENG 107 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** Combines on-campus and in-person instruction with an online component where students complete coursework within a flexible time frame. These courses are usually listed as meeting once a week but there is work to be done online for the remainder of the time.

- **Linked** The instructor teaches on one campus and the class is live via Zoom on additional campuses simultaneously.

- **Online** Classes are delivered completely online. Students complete coursework within a flexible time frame with due dates for specific assignments and exams. Courses are on Canvas platform only.

  Zoom Classes are delivered completely virtually. Students attend live, scheduled lectures remotely via Zoom.

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 differ-

ence 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

exp ....field 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.

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.

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

lec, lab, rec, clin	credit	required minutes	clock hours
1 lec	1	800	
1 lab	.5	800	
1 exp	.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
EMS, LET, LMT	1		37.5 hours

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: *Division Chair and instructor approval*

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

189 Cooperative Education/ Internship

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/ Internship

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 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 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 SUN⊕ 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 SUN⊕ 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

ACC 260 Accounting Ethics

3 cr, 3 lec

College-level course that provides an in-depth exploration of the basic concepts, principles, and procedures related to ethical considerations in accounting. It aims to equip students with a foundational understanding of ethical practices in the field of accounting, emphasizing the recording of business transactions and the development of external accounting reports. Designed to meet the needs of students pursuing accountancy as a major, this course also caters to students with other business disciplines, ensuring a solid ethical foundation for their future studies and professional endeavors.

ACR 101 Air Conditioning and Refrigeration 1

3 cr, 2 lec, 2 lab

Introduction to the field of air conditioning and refrigeration, use of hand tools, materials, and related nomenclature of the component parts of a system and their relationship to and function within the system are stressed.

NOTE: Concurrent enrollment in ACR 103 highly recommended

ACR 102 Air Conditioning and Refrigeration 2

3 cr, 2 lec, 2 lab

Introduces the student to the theory of refrigerants, stressing pressure and temperature relations; the safety aspect in handling refrigerants is also covered. The refrigeration cycle and basic servicing procedures are covered to include the use of gauges, removing and adding refrigerants, as well as leak detection.

PRE: ACR 101

ACR 103 Electrical Motors, Circuits, and Controls

3 cr, 1.5 lec, 3 lab

An advanced course of study involving the various types of HVAC electri-

cal controls and motors, wiring diagrams, and Ohm's Law.

NOTE: *Concurrent enrollment in ACR 101 highly recommended*

ACR 112 Control Systems

3 cr, 2 lec, 2 lab

The theory, installation practices, and servicing of control systems.

PRE: *ACR 103*

ACR 113 Heating Technology

3 cr, 2 lec, 2 lab

The theory, installation practices, and servicing of heating systems including the study of equipment sizing, equipment selection, energy conservation, natural gas, propane, electric heating systems and the study of alternative fuels.

PRE: *ACR 103*

ACR 201 Air Conditioning and Refrigeration 3

3 cr, 1.5 lec, 3 lab

An advanced course of study into the various types of air conditioning and refrigeration systems in use today. The reasons for the development of various types of systems, including the identification, selection, and applications related to these types of systems will be covered. Hands-on experience in maintaining these varied units will be included.

PRE: *ACR 101*

ACR 202 Air Conditioning and Refrigeration 4

3 cr, 1.5 lec, 3 lab

An advanced course of study involving the theory, installation practices, and servicing of heat pumps and light commercial refrigeration systems.

PRE: *ACR 102*

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*

AET 107 Private Pilot Ground School

3 cr, 2 lec, 1 lab

Ground school in preparation for the Federal Aviation Administration (FAA) Private Pilot Certificate written examination. Includes aerodynamics, airplane systems, airports, airspace, communications, Federal Air Regulations, navigation, airplane performance, flight planning, and flight physiology. Requires passing a written exam similar to the FAA Private Pilot written exam

AET 119 Pre-Aviation Flight Simulation

3 cr, 2 lec, 1 lab

Introduction to flying and basic flight operations via simulation. Includes basic flight maneuvers, traffic patterns, departures, approaches, and emergency procedures under simulated flight conditions. Students will review regulations, cross-country flight planning, weight

and balance, performance and limitations, human factors, chart use, night operations, navigation systems, and aeronautical decision making. At the end of this course, students will be able to take the Federal Aviation Administration's Private Pilot written exam.

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 100 Introduction to Sustainability

3 cr, 3 lec

The goal of this class is to understand the origins, major concepts, and current issues of sustainability in local and global agriculture; to include economic, environmental and social aspects of sustainability in agroecosystems. We will evaluate the environmental impact of conventional agriculture and the solutions that sustainable agriculture provides. We will also examine the economic and social issues in agriculture and different pathways to increase profitability and social equity for agriculturists. You will come to understand the major role that sustainability plays in our lives and our environment.

AGS 101 Agriculture- Solving the Problems of the World/GE

3 cr, 3 lec

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 102 Introduction to Precision Agriculture

3 cr, 3 lec, 1 lab

This course will give students an introduction to precision agriculture as it relates to field crop production. Students will learn about the agronomy and technology of variable rate technology. The course will highlight the economic and

environmental benefits of precision agriculture, as well as examine components of it, including soil and crop variability, global positioning systems, machinery automation, spatial analysis, unoccupied aerial vehicles (UAVs), and satellite imagery. The course will bring together these elements to allow students to evaluate precision agriculture services. This is the foundation course in the Precision Agriculture Certificate.

AGS 170 Basic Tractor Operations and Safety
2 cr, 1.25 lec, 1 lab

This course involves selection, maintenance, adjustment, and safe operation of tractors and implements used in agriculture.

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*

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 or approved higher level course*

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 119 The Basics of Body Structure and Function
4 cr, 3 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.

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 135 Overview of Movement Therapies
2 cr, 1 lec, .5 lab

Survey of health, exploration of mind-body-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 170 Foundations of Grief and Bereavement

2 cr, 2 lec

This course introduces death, dying, grief, and bereavement. The topics to be covered in this course include the dying process; grief and mourning and end-of-life decision making.

AHE 171 Essential Topics on Death and Loss

2 cr, 2 lec

This course discusses complicated grief, helping the bereaved after special losses individual spiritual needs; boundaries; self-care for the caregiver; confidentiality; and clinical ethics.

PRE: *AHE 170*

AHE 172 Grief in Children and Teens

2 cr, 2 lec

Examine the reactions of children and teens to death and grief and the strategies for communicating with families of terminally ill children/teens.

PRE: *AHE 170*

AHE 173 Diversity in Grief and Bereavement

2 cr, 2 lec

This course offers a broad multicultural approach to death, dying and bereavement across the lifespan.

PRE: *AHE 170*

AHE 174 Palliative and Hospice Care

2 cr, 2 lec

This course will explore the history, theory and practice of hospice and palliative care. The course will also examine communication with healthcare providers, families and caretakers.

PRE: *AHE 170*

AHE 201 Human Pathophysiology

4 cr, 4 lec

Pathophysiological processes in humans as a foundation for the understanding of alterations in health. Survey of major disease processes of the human body systems. Includes terminology, causes, signs, symptoms, diagnosis, treatment, and special considerations. Information: This course is a prerequisite for the concurrent Associate Degree/Baccalaureate Degree Nursing program through Arizona Western College and Northern Arizona University.

PRE: *BIO 201 and BIO 202*

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.

AJS 101 SUN# 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.

Recommended: *ENG 90*

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 recommended*

AJS 123 Ethics and Criminal Justice/GE

3 cr, 3 lec

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.

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.

Recommended: ENG 90

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.

Recommended: ENG 90

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.

Recommended: ENG 90.

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.

Recommended: ENG 90

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 recommended

AJS 212 Juvenile Justice Procedures

3 cr, 3 lec

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

Recommended: ENG 90

AJS 225 Criminology/GE

3 cr, 3 lec

Studies deviance, society's role in defining behavior, theories of criminality, the economic, social, and psychological impact of crime, and the relationships between statistics and crime victimization.

AJS 230 Police Function

3 cr, 3 lec

Examines the theories of procedures and methods of operations of public police with emphasis on discretionary powers. Career opportunities and current trends in law enforcement.

NOTE: AJS 101 recommended; ENG 90 recommended

AJS 240 Correction Function

3 cr, 3 lec

Examines the history and development of correctional theories and institutions.

NOTE: AJS 101 recommended; 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.

Recommended: ENG 90

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 recommended; 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, experi-ments and research on community interaction.

PRE: *AJS 101*

Recommended: ENG 90

AJS 275 Criminal Investigation
3 cr, 3 lec

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

Recommended: ENG 90

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.

Recommended: ENG 90

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 104 Human and Animal Interrelationships from Domestication to Present
3 cr, 3 lec

Evaluation of interrelationships between humans and animals from ancient to modern times, including evolution through domestication of animals in Europe and the New World

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*

ANS 241 Principles of Genetics/ GE
4 cr, 3 lec, 3 lab
Same as PLS 241

Genetic principles of inheritance in plants and animals and their significance in agriculture and biology will be discussed. Topics include the physical basis of heredity in families and populations; introduction to chromosome biology; the molecular basis for gene expression; and modern genetic engineering tools used in animal and plant systems.

ANT 100 Introduction to Anthropology/GE
3 cr, 3 lec
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

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/GE
3 cr, 3 lec

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

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 SUN# ART 1101 Survey of World Art 1/GE
3 cr, 3 lec

A survey history of Western European art from Paleolithic to the late Gothic period along with primitive art from non-Western sources.

ARH 142 SUN# ART 1102 Survey of World Art 2/GE
3 cr, 3 lec

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 SUN# 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 SUN# ART 1115 Basic Design, 3 Dimensional
3 cr, 2 lec, 4 lab

Survey of the visual elements: line, shape, value, texture, and color and the organizing principles of design: rhythm, repetition, variety, balance, dominance, proportion/scale as they relate to the third dimension. Emphasizes fundamental concepts, composition, and technical skill in relation to specific topics, materials, and techniques.. The basics of relief, modeling, carving, and assembling, will be explored. 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
2 cr, 1 lec, 2 lab

An Introduction to the principles and practices of gallery management and art installation. Students will learn the processes of organizing exhibitions, including curatorial practices and exhibition design. Practical skills such as handling and preparation of artwork, lighting, and wall text will be covered. Multiple venues will be utilized, including Milepost Nine and Yuma Art Center Galleries.

ART 111 SUN# 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 197 Art of Memoir

1 cr, 1 lec

This course provides students the opportunity to explore memoir as an integrated genre that pairs writing and pictorial art exercises. Students develop memoir composition techniques through short readings, discussion, writing exercises, and variety of visual media.

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 exploration with relief, intaglio, and monoprinting processes. Screenprinting may also be explored. Emphasis on developing color images through various intermediate techniques.

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 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*

ASL 101 American Sign Language 1/GE

4 cr, 6 lec

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/GE

4 cr, 6 lec

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/GE

4 cr, 6 lec

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 four-year institutions.

PRE: ASL 102

ASL 202 Intermediate American Sign Language 2/GE

4 cr, 6 lec

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/GE

4 cr, 3 lec, 3 lab

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/GE

4 cr, 3 lec, 3 lab

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 diagnos-

tic 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

BHS 101 Introduction to Behavioral Health & Communication Skills

2 cr, 2 lec

This course is designed to introduce the student to the behavioral health field, including effective communication skills. Topics include the behavioral health care system in Southern Arizona, customer service, ethics, boundaries, engagement, managing complex needs, court-ordered treatment and service plans, and effective communication skills and techniques.

BHS 102 Behavioral Health Skills & Safety Lab

2 cr, 1 lec, 2 lab

In a lab setting, this course introduces the fundamental clinical techniques and safety measures performed by a behavioral healthcare specialist on-site. It covers facility, environmental, and patient safety as well as clinical and observational procedures such as vital signs and point of care testing. Observation and documentation of patients' behavior and physical condition are also included.

BHS 103 Case Documentation

1 cr, 1 lec

Maintaining clinical records in various community behavioral health settings necessitates using observation and documentation procedures. Therefore, terms, technical forms, and legal concerns in case reports are included. Also included is an overview of the sorts of clinical cases that behavioral health personnel encounter throughout the continuum of care, such as substance abuse and mental health problems.

BHS 104 Behavioral Health Clinical Experience

2 cr, 4 lab

Introduction to working in the behavioral health sector; observation of professionals performing direct care or services for individuals receiving behavioral health treatment; professionalism in the behavioral health field; and application of care giving principles through hands-on practice. The course also includes patient interactions, case documentation, clinical procedures, and safety procedures. There is a focus on developing collaborative relationships with other members of the treatment team as well as developing basic assessment and intervention skills. In addition, the course will provide students with a basic understanding of caregiving principles, and will allow them to apply these principles through live patient interactions.

PRE: BHS 102

BHS 105 Clinical Behaviors

2 cr, 2 lec

Overview of primary clinical behaviors frequently encountered by behavioral health personnel due to mental illnesses, substance use, violence or abuse, and grief or bereavement. This course covers a range of drug use problems, such as classifications of drugs, addiction theories, cultural views, and treatment techniques. The course also addresses domestic violence, including historical and contemporary causes and community resources, and information on dealing with the bereaved and others who have experienced traumatic loss.

BHS 106 Personal Well-Being & Basic Care Coordination

3 cr, 3 lec

The purpose of building human resilience and well-being is to prevent burnout, traumatic stress, and compassion fatigue for social services and mental health professionals, healthcare providers, emergency first responders, and other relationship-intense occupations. This course will

cover the causes, symptoms, and effects of traumatic stress, burnout, compassion fatigue, and additional work-related stress with a focus on enhancing the quality of life and improving a healthy lifestyle by incorporating evidenced-based practices in psychological and emotional resilience training, cognitive behavioral therapy, mindfulness, positive psychology, prevention, peer support, and self-care, including nutrition, exercise, and sleep. The course will also include a basic overview of the principles, practices, and functions of case management in human services and the various resources within the state, region, and local community.

BIO 100 Biology Concepts/GE

4 cr, 3 lec, 2 lab, 1 rec

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 109 Natural History of the Southwest

4 cr, 3 lec, 3 lab

Study of the common plants and animals of the Southwest including their distribution, adaptation, behavior, and ecology.

BIO 160 Introduction to Human Anatomy and Physiology/GE

4 cr, 3 lec, 3 lab

Biology 160 is a study of the structure and function of the human body. This course is designed for students who desire a one-semester course in Anatomy and Physiology. The primary aim of this course is to provide students with an introductory experi-

ence that equips them to proficiently navigate the terminology, technology, and interconnected concepts within the field of anatomy and physiology, empowering students to apply this acquired knowledge within their designated academic pursuits. This course incorporates both lectures and laboratory experiences, guiding students through an exploration of the human body, organized conceptually by organ systems. This approach aims to reinforce comprehension of fundamental concepts in anatomy and physiology, as well as their implications for human health and disease.

NOTE: *ENG 101 (or equivalent) is highly recommended.*

This course is NOT intended to serve as a replacement for the two-semester A&P series (BIO 201 & BIO 202)

BIO 181 SUN# BIO 1181 General Biology (Majors) I/GE

4 cr, 3 lec, 3 lab

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 SUN# BIO 1182 General Biology (Majors) II/GE

4 cr, 3 lec, 3 lab

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 SUN# BIO 2201 Human Anatomy and Physiology I/GE

4 cr, 3 lec, 3 lab

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

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

BIO 202 SUN# BIO 2202 Human Anatomy and Physiology II/GE

4 cr, 3 lec, 3 lab

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

PRE: *BIO 201*

BIO 205 SUN# BIO 2205 Microbiology/GE

4 cr, 3 lec, 4 lab

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 and 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

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.

PRE: *MAT 71 or appropriate score on the Computerized Placement Test (CPT) allowing enrollment in MAT 81 or approved higher level math*

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 240 AI for Business

3 cr, 3 lec

This course provides students with a working understanding of Artificial Intelligence (AI) technology and its effective integration into business systems.

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 Written Composition,
- 3 credits from Quantitative Reasoning,
- at least 9 credits from the remaining General Education categories (Oral Communications, Arts & Humanities, Social & Behavioral, Natural Sciences, Institutions of the Americas).

CDL 101 Introduction to Arizona CDL

3 cr, 3 lec

This entry level CDL course is designed to introduce the student to different aspects of general knowledge for the trucking industry. In addition to becoming proficient at the Entry Level Driver's Training (ELDT) theoretic Instruction outlined in Part 380, app A of the Federal Motor Carrier Safety Regulations (FMCSR), the student will be prepared to take and pass the General Knowledge, Air-Brakes, and Combinations written exams at an Arizona Motor Vehicle Division location. Upon passing the Arizona Department of Transportation written exams, the student will receive a Commercial Learner's Permit (CLP) for training.

PRE: *Students must be 18 years of age. and have a/an:*

- Valid, Arizona state-issued, driver license.
- Recent negative drug screen.
- DOT physical administered by a DOT authorized doctor.
- Background check (background check must ensure that the applicant is employable). Arizona Motor Vehicle Division check.

CDL 102 Safe Operating Practices
3 cr, 3 lec

This course focuses on developing the necessary basic backing and driving skills needed to pass the Skills test and Road test for the AZ CDL license. This course builds upon the knowledge gained in CDL-101.This course covers the following:

- Pre-trip, Enroute, Post-trip Inspections
- Seat adjustment
- Mirrors
- Putting the truck in motion
- Safe stopping
- Continuation of the Pre-trip Inspection
- Backing procedures - Straight line backing, offset back/left, 45 / 90 degree Alley docking, and parallel parking (conventional)
- Coupling and Uncoupling

PRE: *CDL 101*

CDL 103 Vehicle Control
3 cr, 3 lec

This is a comprehensive course that focuses on developing the necessary vehicle control skills for students to safely operate commercial vehicles. Students will learn proper techniques for controlling commercial vehicles, including steering, shifting gears, braking, and accelerating. The course will cover topics such as vehicle dynamics, weight distribution, and handling hazardous driving situations.

PRE: *CDL 102 and student must:*

Possess a DOT Medical Card, Arizona State-Issued Driver's License and Commercial Learner's Permit.

Have a negative DOT drug screen, and enrolled in the Federal Motor Carrier Safety Administration (FMCSA) Drug and Alcohol Clearing House.

Have completed Hours of Service requirements outlined in 49 CFR 395.8.

CDL 104 General Driving and Testing
3 cr, 6 lab

This course in the CDL certificate program is designed to provide final preparation for the student to pass the Arizona Commercial Driver License (CDL) exam. This exam must be passed before the student can become employed as a professional truck driver. The course will provide students with an in-depth review of all topics covered in previous courses including vehicle control, vehicle inspections, backing maneuvers, hazardous situations, and driving in various traffic conditions. In addition, the course will provide guidance on how to properly prepare for and take the three-part CDL test consisting of the pre-trip inspection, backing Maneuver skills, and General Drive test.

PRE: CDL 103

CHM 130 SUN✦ CHM 1130
Fundamental Chemistry/GE
4 cr, 3 lec, 3 lab

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 SUN✦ CHM 1151
General Chemistry I/GE
4 cr, 3 lec, 3 lab

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 or COREQ: *MAT 150 or MAT 151 or higher*

CHM 130 is highly recommended for students who have limited previous experience in chemistry.

NOTE: *Certain Associate of Science (A.S.) degrees require CHM 151 and CHM 152*

CHM 152 SUN✦ CHM 1152
General Chemistry II/GE
4 cr, 3 lec, 3 lab

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 SUN✦ 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 SUN✦ 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 con-

tinuation 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
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 program

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 healthcare 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 105 SUN# CIS 1120 Introduction to Business Information Systems
3 cr, 3 lec, 1 lab

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

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

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

Introduction to microcomputers and microcomputer repair and upgrades including troubleshooting computers, and implementing efficient system repair practices.

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.

CIS 271 Networking Administration

3 cr, 2 lec, 2 lab

This course is designed to give the student the ability to have an in-depth 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 120 or CIS 105

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 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 120 or CIS 105

NOTE: CIS 131 or other database course or experience strongly recommended and CIS 180 or other computer programming course or experience strongly recommended

CNC 101 CNC Machine Operator

3 cr, 2 lec 3 lab

Basic principles and operator skills associated with the operation of a CNC milling machine.

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 Culinary Arts 1

3 cr, 1.5 lec, 3 lab

Basic principles of food selection & preparation in a commercial kitchen.

CUL 143 ServSafe Prep and Exam

2 cr, 2 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 cr, 1.5 lec

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 Saucier and Meat Fabrication

3 cr, 1.5 lec, 3 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 or COREQ: *CUL 141 and CUL 143*

CUL 147 Baking 1

3 cr, 1.5 lec, 3 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 or COREQ: *CUL 141 and CUL 143*

CUL 149 Garde Manger 1

3 cr, 1.5 lec, 3 lab

History and customs, serving styles and preparation techniques of cold foods with an emphasis on practical cooking experiences.

PRE or COREQ: *CUL 141 and CUL 143*

CUL 241 Basic Culinary Arts 2

3 cr, 1.5 lec, 3 lab

Continuing basic principles of food selection and preparation in a commercial kitchen. Additional hands-on application of professional culinary skills.

PRE: *CUL 146*

CUL 247 Baking 2

3 cr, 1.5 lec, 3 lab

Continuing 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. Emphasis on more advanced techniques, decorating, and candy making.

PRE: *CUL 147*

CUL 248 Practical Restaurant Introduction

5 cr, 1.5 lec, 7 lab

Preparation techniques of foods unique to restaurant line stations with emphasis on practical cooking experiences, front of the house and back of the house service standards, station setup and plate presentations.

PRE: *CUL 141, CUL 143, CUL 146, and CUL 241*

CUL 249 Garde Manger 2

3 cr, 1.5 lec, 3 lab

Continuing history and customs, serving styles and preparation techniques of cold foods with emphasis on practical cooking experiences. Advanced garde techniques including pates, terrines, and sausages.

PRE: *CUL 149*

CUL 251 Catering

3 cr, 1.5 lec, 3 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, CUL 143, CUL 146, CUL 147, CUL 149, and CUL 253*

CUL 253 Food and Beverage Management

3 cr, 2.5 lec, 2 lab

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.

PRE or COREQ: *CUL 141 and CUL 143*

CUL 258 Advanced Cuisine

5 cr, 1.5 lec, 7 lab

Laboratory experience in applying principles of food preparation to produce a variety of food products from American, Regional, and International Cuisine for consumers as well as development of skills in knife, tool, and equipment use, cleaning and maintenance.

PRE: CUL 143 and CUL 241

CUL 259 Field Experience

7 cr, 14 exp

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, CUL 143, CUL 146, CUL 147, CUL 149, CUL 253

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

DME 101 Digital Marketing & E-Commerce

4 cr, 3 lec, 2 lab

This course focuses on the skills that employers are seeking, including email marketing, designing, and running an online store, social media marketing, and marketing analytics.

This course is Open Entry/Open Exit (OE/OE).

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 1A

1 cr, 2 lab

Native Hawaiian dance, Hula, for cultural, personal, social, and fitness benefits. **CR/NC**

DNC 72 Native Hawaiian Dance 1B

1 cr, 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, 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, 2 lab

Intermediate level Native Hawaiian dance, Hula, to include oli, chanting. **CR/NC**

PRE: DNC 73

DNC 125 Dance History

3 cr, 3 lec

A survey history of Dance from Ancient Egypt to Baroque France along with non-Western dance forms.

PRE: ENG 101

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

DNC 160 Modern Dance I

2 cr, 1 lec, 2 lab

Introduction to contemporary and traditional forms and movement styles of Modern dance. Emphasizes development of technical and aesthetic skills.

DNC 161 Modern Dance II

2 cr, 1 lec, 2 lab

Intermediate level of Modern dance. Emphasizes conceptual development through moderately sophisticated level of performance and choreography.

DNC 170 Dance Experiences for Children
2 cr, 1 lec, 2 lab

Introduction to the theory and practice of teaching a variety of dance forms to school-aged children, including but not limited to creative, folk, ballet, and jazz. Emphasizes the basic elements of dance--space, time, and energy—in the preparation of age-appropriate lesson plans. Includes community field experience to diversify experiences in dance instruction.

DNC 180 Improvisation I
2 cr, 1 lec, 2 lab

Improvisation is the exploration of creative physical impulse. Course emphasizes innovative physical response through solo, partner and group exploration. Dancers will practice impulse-driven creativity through movement tasks and challenges. Course material will encourage risk-taking, active physical "listening" and bold choice-making for maximum growth and self-actualization as a developing mover, choreographer, or director. Discussions and assignments on current trends in the dance world will inform the physical work in the studio. This course is a prerequisite for Composition I.

DNC 225 Dance History II
3 cr, 3 lec

A survey history of Dance from Ancient Egypt to Baroque France along with non-Western dance forms.

PRE: *DNC 125*

DNC 240 Dance Production
3 cr, 2 lec, 4 lab

An introduction to the technology, equipment and practices of technical production as they relate to dance performances. Emphasizes developing and applying critical analysis and design aesthetic to lighting, staging and music for dance productions.

DNC 260 Dance Composition I
3 cr, 2 lec, 4 lab

This course introduces students to:

- Process: Methods for making; ways of seeing
- Research: Mining for form and content
- Design: Thoughtful layering of findings for communicative choreographies

PRE: *DNC 180*

DNC 261 Dance Composition II
3 cr, 2 lec, 4 lab

Intermediate-level investigation into the choreographic processes of dance. Emphasizes skill development using principles of composition and artistry to create and develop context, integrate technology, and relate to other art forms. Through collective ensemble work created and performed by the class, students will discuss and practice various processes for inspiration and movement creation, including working in a dance studio, choreographic editing, use of choreographic tools, and choreographic structures.

PRE: *DNC 260*

DNC 270 Dance Pedagogy
3 cr, 3 lec

This course if designed for majors with an interest in public dance education or studio instruction. Introduces the principles, techniques, philosophies, and methodologies of dance pedagogy. Includes exposure to dance in multiple settings, tools, resources, and mini-teaching experiences.

PRE: *DNC 131, 150, 160, and 170*

DNC 280 Improvisation II
3 cr, 1 lec, 2 lab

Improvisation II is a more in-depth exploration of creative physical impulse. Emphasis on innovative physical response through solo, part-

ner and group exploration. Dancers will practice impulse-driven creativity through movement tasks and challenges. Course material will encourage risk-taking, active physical "listening" and bold choice-making for maximum growth and self-actualization as a developing mover, choreographer, or director. Discussions and assignments on current trends in the dance world will inform the physical work in the studio.

PRE: *DNC 180*

DNC 290 Dance Health and Wellness
3 cr, 3 lec

In-depth study of how the human body functions during dance movement, causes, treatment methods, and prevention of dance related injuries. Emphasis on understanding anatomically sound methods of dance training for injury prevention.

PRE: *ENG 101*

DRN 101 Pilot Ground School and Flight Training
1.5 cr, 1 lec, 1 lab

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.

DRN 102 Image Acquisition and Analysis
1.5 cr, 1 lec, 1 lab

This course is designed to develop image analysis skills to create 3-D visualizations for 3-D modeling.

PRE: *DRN 101*

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 93 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*

EAP 94 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*

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 111 Nutrition in the Early Childhood Setting

1 cr, .5 lec, 1 exp

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 exp

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 exp

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 121 Sciencing and Discovery

1 cr, .5 lec, 1 exp

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 123 Literature for Preschool Children

1 cr, .5 lec, 1 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 exp

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 142 Recordkeeping Skills for Daily Infant/Toddler Care Programs

1 cr, .5 lec, 1 exp

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 exp

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 child-care setting

ECE 145 CDA Student Teaching—Vocational

2 cr, 1 lec, 2 exp

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 152 Ages and Stages: Toddlerhood

1 cr, .5 lec, 1 exp

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 exp

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 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 exp

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 childcare workers.

PRE: *ECE 165*

COREQ: *ECE 206*

ECE 206 Early Childhood Field Experience 2

1 cr, 2 exp

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*

COREQ: *ECE 211*

NOTE: *ECE 211 not required as a COREQ if student has completed ECE 145 successfully. ECE 145 is equivalent to ECE 166, 206, and 211*

ECE 211 Early Childhood Field Experience 3

1 cr, 2 exp

Continuing opportunity to work in an early childhood setting.

PRE: *ECE 165 and ECE 166 and ECE 200 and fingerprinting and CPR training*

ECE 212 Early Childhood Education Certificate Capstone

1 cr, 2 exp

Supervised student teaching in a pre-school 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/GE

3 cr, 3 lec

Overview of human growth and development from conception to early adolescence, incorporating independent observation of children and personal investigation into child-related issues.

ECE 243 Early Childhood Development

3 cr, 3 lec

Exploration of the development of young children between the ages of birth and 8 years old. The course will include 32 hours of directed observation of children birth through 8 years.

PRE: *ECE 208 and ECE 240*

ECE 245 Early Childhood Special Education

3 cr, 3 lec

Introduction to the area of early childhood special education focusing on gathering information about at-risk, delayed or disabled children.

PRE: *ECE 240 or FAS 238 or PSY 238*

NOTE: *ECE 243 suggested co-requisite for degree seekers*

ECE 250 Early Childhood Language and Literacy

3 cr, 2 lec, 2 exp

Focus on the process of language and literacy development in the child: birth through eight years.

PRE: *ECE 200 and ECE 240*

ECE 260 Techniques for Observing and Assessing Children

3 cr, 2 lec, 2 exp

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 200 and ECE 240*

ECE 265 Children's Literature/GE

3 cr, 2.5 lec, 1 exp

Language and literacy processes and the ways in which literature enriches child development.

ECE 270 Early Childhood Education Internship

4 cr, 8 exp

Capstone course which provides the student with directed participation in an appropriate early childhood setting.

PRE: *ECE 200, ECE 205, ECE 208, ECE 210 and ECE 243*

ECN 100 Introduction to Economics

3 cr, 3 lec

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 SUN🅂 ECN 2201 Principles of Macroeconomics/GE

3 cr, 3 lec

Analysis of general levels of output, employment, income, and prices. Includes money and banking, national income accounting, economic growth, fiscal and monetary policy.

PRE: *ENG 101 eligibility and MAT 142 eligibility*

ECN 250 SUN🅂 ECN 2202 Principles of Microeconomics/GE

3 cr, 3 lec

Analysis of price determination and income distribution in a free enterprise economy. Detailed study of supply and demand, allocation of resources by individual firms, and application to the American economics system.

PRE: *ENG 101 eligibility and MAT 142 eligibility*

ECT 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: *TEC 100*

ECT 115 National Electric Code

3 cr, 3 lec

Study of the National Electrical Code (NEC), including local ordinances.

ECT 120 Electronics and Test Technology I

4 cr, 3 lec, 3 lab

This course provides an introduction to basic electronic and testing principles.

ECT 121 Electronics and Test Technology II

4 cr, 3 lec, 3 lab

This course provides students with essential skills in developing electronics systems.

PRE: *ECT 120*

ECT 122 Electronics Instrumentation I

4 cr, 3 lec, 3 lab

This course provides students with essential skills in data acquisition instrumentation.

PRE: *ECT 121*

ECT 123 Electronics Instrumentation II

4 cr, 3 lec, 3 lab

This course provides students with essential skills in data acquisition systems.

PRE: *ECT 122*

ECT 150 Broadband Fiber Optic

3 cr, 2 lec, 2 lab

Coursework covers topics such as fiber optics theory and principles, broadband technologies, installation, and termination techniques, and splicing and repair procedures. Students will also gain hands-on experience using industry-standard equipment.

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 troubleshooting, 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

3 cr, 1 lec, 3 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.

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.

COREQ: 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, 2 exp

Field experience in an elementary or secondary school.

PRE: EDU 222

EDU 210 Cultural Diversity in Education

3 cr, 3 lec

This introductory course examines the relationship of cultural values to the formation of the child's self-concept and learning styles. Also incorporated will be an examination of the roles of prejudice, stereotyping, and cultural incompatibilities in education. In addition to regular class attendance, ten (10) hours of classroom observation is required.

PRE: EDU 110

EDU 222 Introduction to Special Education

3 cr, 3 lec

Introduces the future teacher to the study of special needs children with emphasis on factors relating to current practices, identification and characteristics of the exceptional child. In addition to regular class attendance, ten (10) hours of classroom observation is required.

PRE: EDU 110

EDU 249 The Community College for Associate Faculty

1 cr, 1 lec

A survey of the philosophy, history, organization, functions, and funding of Arizona Western College. Emphasis will be placed on analysis of the institution, instructional systems, and resources for associate faculty. **CR/NC**

EDU 250 The Community College

3 cr, 3 lec

A survey of the philosophy, history, organization, and funding of the American community college. Emphasis will be placed on analysis of student development, instructional systems, current issues, and future trends.

EDU 275 Classroom Management and Instructional Planning

3 cr, 3 lec

Provides students with the knowledge and skills enabling them to have a well-disciplined and managed classroom which maximizes learning and instructional time. Also provides information and practice to assist students in planning, writing, teaching, and evaluating effective standard- based, age-appropriate lessons.

PRE: EDU 222

NOTE: In addition to regular class attendance, 10 hours (K-12) of classroom observation and participation are required

EDU 280 Teaching Practicum

1 cr, 2 lab

Supervised field experience in an elementary school.

PRE: EDU 210 and EDU 222

COREQ: EDU 275

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 problem-solving through structured programming techniques, use of application specific programs, and logical thought process in programming.

PRE: Either MAT 187 or both MAT 151 and MAT 183

EGR 188 SUN⊕ 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.

EGR 291 Thermodynamics

3 cr

Energy and entropy concepts, applications; first and second law principles, applications to processes and cycles.

PRE: *MAT 241 or MAT 262, CHM 151 and PHY 121*

COREQ: *PHY 131*

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 152 Basic Emergency Medical Technician

12 cr, 30 lec (393 hours), 3.5 lab (47 hours)

Intensive study of all techniques of emergency care currently considered as responsibilities of the Emergency Medical Technician. Development of skills in recognizing signs and symptoms of illness and injury, and proper procedures of emergency care. Study of anatomy, physiology, triage, patient assessment, and stabilization of patients.

PRE: 1) Appropriate reading score 2) Student must submit application and must fulfill requirements of Arizona Department of Health Services before being accepted into the Arizona Western College EMT Program. 3) Applicant needs to be at least 18 years of age.

EMS 293 Paramedic Academy 1

15 cr, 33 lec (450 hours), 8 lab (113 hours)

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, 20 lec (263 hours), 11 lab (150 hours), 6 clin (225 hours)

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, 20 lec (263 hours), 11 lab (150 hours), clin 6 (225 hours) 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. **OE/OE**

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 judge-

ments 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 SUN⊕ ENG 1101 Freshman Composition I/GE

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 101 is the transferable equivalent of ENG 107.

ENG 102 SUN⊕ ENG 1102 Freshman Composition II/GE

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. ENG 102 is the transferable equivalent of ENG 108.

PRE: ENG 101 or 107

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

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 107 is the transferable multilingual equivalent of ENG 101.

ENG 108 First-Year Composition II (for Multilingual Writers)/GE

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. ENG 108 is the transferable multilingual equivalent of ENG 102.

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/GE

3 cr, 3 lec

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 back-grounds, literary genres, characterization, poetic imagery, and writers.

ENG 180 Literature of the American West/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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 Sociolinguistics

3 cr, 3 lec

The study of the components of the English Language; this will include phonetics, phonology, morphology, semantics, and syntax, with a focus on their sociolinguistic implications for power dynamics.

PRE: *ENG 101 or 107*

ENG 216 Persuasive Writing on Public Issues/GE

3 cr, 3 lec

This advanced interdisciplinary writing course emphasizes major contemporary public issues. In this course, students 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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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 US Multiethnic Lit Survey/GE

3 cr, 3 lec

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/GE

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

Representative comedies, histories, and tragedies are analyzed. Shakespeare's life and times will be studied in some detail.

PRE: *ENG 101 or 107*

ENG 265 Women Writers/GE

3 cr, 3 lec,

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

A course in the techniques of writing creative nonfiction, taught through exercises, the critiquing of students' original nonfiction, and readings in contemporary nonfiction.

ENG 291 Fiction Writing/GE

3 cr, 3 lec

A course in the techniques of fiction writing, taught through exercises, the critiquing of students' original fiction, and readings in contemporary fiction.

ENG 292 Poetry Writing/GE

3 cr, 3 lec

A course in the techniques of poetry writing, taught through exercises, the critiquing of students' original poetry, and readings in contemporary poetry.

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/GE

4 cr, 3 lec, 2 lab, 1 rec

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*

EOT 100 Energy Optimization Technology

4 cr, 3 lec, 2 lab

This course introduces students to the principles of optimization and their applications in energy systems. Topics include fundamental optimization techniques, modeling of energy systems, and solving key decision-making problems in electric power and energy markets. Students will learn how to apply these techniques to improve efficiency, reduce costs, and optimize resource allocation within energy markets.

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 91 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

ESL 92R Reading and Writing 2
6 cr, 6 lec

Reading and Writing 2 incorporates integrated language instruction with an emphasis on reading and writing skills as well as vocabulary development. Students will be exposed to a variety of thematic readings that lead to extended written discourse.

PRE: ESL 91R or a proficient entrance score on the ESL placement exam

ESL 92S Structure 2

6 cr, 6 lec

Structure 2 incorporates integrated English language instruction with an emphasis on low-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: *ESL 91B or ESL 91S or a proficient entrance score on the ESL placement exam*

ESL 93A Structure 3A

3 cr, 3 lec

Structure 3A incorporates integrated language instruction with an emphasis on intermediate level grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: *ESL 92B or 92S or a proficient entrance score on the ESL placement exam*

ESL 93B Structure 3B

3 cr, 3 lec

Structure 3B incorporates integrated language instruction with an emphasis on intermediate level grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: *ESL 93A or a proficient entrance score on the ESL placement exam*

ESL 93D Intermediate Conversation

3 cr, 3 lec

Intermediate communication skills with emphasis on oral communication and pronunciation in social situations.

NOTE: *Reading and writing skills in the student's native language required*

ESL 93F Reading and Writing 3A

3 cr, 3 lec

This course is designed to develop fluency in reading and writing for intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in paragraphs using appropriate grammatical structures.

PRE: *ESL 92R or 92G or a proficient entrance score on the ESL placement exam*

ESL 93G Reading and Writing 3B

3 cr, 3 lec

This course is designed to develop fluency in reading and writing for intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in paragraphs using appropriate grammatical structures.

PRE: *ESL 93F or 92R or a proficient entrance score on the ESL placement exam*

ESL 93S Structure 3

6 cr, 6 lec

Structure 3 incorporates integrated language instruction with an emphasis on intermediate level grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully, and communicatively.

PRE: *ESL 92B or ESL 92S or a proficient entrance score on the ESL placement exam*

ESL 94A Structure 4A

3 cr, 3 lec

Structure 4 incorporates integrated language instruction with an emphasis on high-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: *ESL 93B or 93S or a proficient entrance score on the ESL placement exam*

ESL 94B Structure 4B

3 cr, 3 lec

Structure 4 incorporates integrated language instruction with an emphasis on high-intermediate grammatical concepts. Students will be exposed to a variety of grammatical concepts and be given the opportunity to use these concepts manipulatively, meaningfully and communicatively.

PRE: *ESL 94A or a proficient entrance score on the ESL placement exam*

ESL 94F Reading and Writing 4A

3 cr, 3 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: *ESL 93R or 93G or a proficient entrance score on the ESL placement exam*

ESL 94G Reading and Writing 4B

3 cr, 3 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: *ESL 93R or 94F or a proficient entrance score on the ESL placement exam*

ESL 94L Cultural Communication

3 cr, 3 lec

This course incorporates integrated language instruction with an emphasis on aural/oral and reading skills. Students will be exposed to a variety of themes. They will then be given the opportunity to use these themes manipulatively, meaningfully, and communicatively to improve listening, speaking and reading abilities.

PRE: *Eligibility for ESL Level 3 or higher*

ESL 94R Reading and Writing 4

6 cr, 6 lec

This course is designed to develop reading and writing skills for intermediate to upper intermediate ESL students. Emphasis will be placed on improving students' vocabulary development, reading strategies and written organizational skills in multi-paragraph essays using appropriate grammatical structures.

PRE: *ESL 93R or 93G or a proficient entrance score on the ESL placement exam*

ESL 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*

EVT 100 Fundamentals of Electric Technology with a focus on Electric Vehicles

1 cr, .75 lec, .5 lab

Electrical systems and components critical to electric vehicle (EV) technology are the focus of this course. Students will learn foundational principles of electricity and circuits through both theoretical study and hands-on laboratory work.

EVT 101 Introduction to Electric Vehicles

2 cr, 1 lec, 2 lab

Electric vehicles (EVs) are composed of key components such as batteries, powertrains, and charging systems, all of which are introduced in this course. Students will gain foundational knowledge through both theoretical instruction and hands-on exercises, preparing them for further studies in EV technology.

EVT 102 EV Charging Stations and Power Electronics

3 cr, 2 lec, 2 lab

EV charging stations and electrical systems supporting them are the focus of this course. Students will engage in hands-on labs to learn about the installation, safety, and troubleshooting of AC and DC charging systems.

PRE or COREQ: *EVT 100 and EVT 101*

EVT 150 EV Motors, Maintenance and Repairs

4 cr, 2 lec, 4 lab

Electric vehicle motors and powertrains are explored in-depth in this course, with emphasis on maintenance and repair. Students will gain practical experience diagnosing and troubleshooting both DC and AC motor systems used in EVs.

PRE or COREQ: EVT 100, EVT 101, and EVT 102

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, vitamins, 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.

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*

FAS 101 Family Culture & Structure/GE

3 cr, 3 lec

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 160 Close Relationships/GE

(same as SOC 160)

3 cr, 3 lec

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/GE

3 cr, 3 lec

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.

FAS 238 Human Development/GE

(same as PSY 238)

3cr, 3 lec

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.

FDI 100 Fashion Styling

1 cr, 1 lec

Introduction to the genres and techniques of fashion styling. Identify the needs and vision of the clients. Help designers and brands tell their stories. Developing concept drawings from cultural references and assembling compelling outfits to create fashion imagery. Putting the foundations of personal, product, and editorial styling into practice.

FDI 101 Image Consulting

1 cr, 1 lec

This course will provide foundational knowledge for image consulting and the various avenues within the industry, client relations and consulting, foundational understanding of the industry, designers, and services. Through course instruction, students will also gain familiarity with body types and facial characteristics as they relate to clothing and beauty services.

FDI 105 Creating Effective Content

3 cr, 3 lec

Learn to conduct a brand audit to identify the brand's pillars, tone, imagery, and personality to create a clear brand voice for social media. Discern how to put those ideas into practice for an effective social media strategy.

FDI 106 Building a Brand Through Digital Influence

3 cr, 3 lec

This course will examine social media platforms, publisher tools, and personal branding and marketing agencies. Evaluation of brand-driven marketing and communication strategy.

FDI 115 Data Insight and Fashion Analytics

3 cr, 3 lec

Discern how to quantify consumer sentiment on fashion apparel before implementing financial strategies to maximize revenue and margin.

FDI 205 Exploration of Global Fashion

2-4 cr, 2-4 lec

This course will allow students with a sufficient academic background who wish to investigate and/or expand their knowledge of the fashion industry in an international environment and receive a global perspective on industry practices and methods. This learning experience is designed to allow students opportunities such as but not limited to taking courses at other institutions, internships, or independent studies.

PRE: FDI 100, FDI 101, FDI 105, FDI 106, FDI 115, and instructor permission

NOTE: Students will be responsible for all academic and institutional fees, travel, lodging, and personal experiences, including but not limited to required textbooks and other program-specific materials.

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 Basics

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*

FLR 101 Flooring Installation Technician- Tile

2 cr, 1 lec, 2 lab

Provides instruction in the principles and practices of tile flooring installation. Emphasis is placed on the acquisition of knowledge and skills in the areas of safety, tools, substrate prep, layout, tile cutting, mortar and grout application. A modeled real world lab environment is utilized to reinforce and apply learned skills and techniques.

FLR 102 Flooring Installation Technician- Resilient

2 cr, 1 lec, 2 lab

This course introduces students to the types of flooring and installation procedures used in the resilient flooring processes. Topics covered include resilient flooring types, moisture identification, cutting, adhesives and grout, dead zone and floating floors, and measuring and estimating.

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 SUN# FRE 1101 Elementary French 1/GE

4 cr, 6 lec

Basic communication skills with emphasis on oral skills and elementary grammar. Students are exposed to the culture and traditions of French speaking countries. Fulfills the first semester foreign language requirement at most four-year institutions.

FRE 102 SUN# FRE 1102 Elementary French 2/GE

4 cr, 6 lec

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 SUN# FRE 2201 Intermediate French 1/GE

4 cr, 6 lec

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 SUN# FRE 2202 Intermediate French 2/GE

4 cr, 6 lec

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 106 Fire Safety and Survival

3 cr, 3 lec

Course introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavior change throughout the emergency services.

FSC 108 Occupational Safety and Health for Emergency Services

3 cr, 3 lec

Course introduces the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk and hazard evaluation and control procedures for emergency service organizations.

FSC 109 Hazardous Materials Chemistry

3 cr, 3 lec

Course provides basic chemistry relating to the categories of hazardous materials including recognition, identification, reactivity, and health hazards encountered by emergency services.

FSC 110 Hazardous Materials I Awareness

1 cr, 1 lec

Course will provide the emergency responder with the ability to identify emergency scenes that may potentially involve hazardous materials, actions that are required to identify the presence of hazardous materials, and the steps necessary to take appropriate initial action. This course meets the objectives for First Responder-Awareness Level as specified by the National Fire Protection Association.

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

3 cr, 2 lec, 1.5 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 148 Fire Academy 1

9 cr, 6 lec, 6 lab

Knowledge and practical skills necessary for certification as an entry-level Firefighter I. FSC 148 is the prerequisite for admission to FSC 149. Successful completion of FSC 148 and FSC 149 qualifies the student to sit for the Firefighter I and II certification examination conducted by the Office of the Arizona State Fire Marshall.

PRE: *High school diploma or GED. Meet the minimum written test requirements. Minimum age requirement of 18 years. Meet the medical requirements of NFPA 1582. Complete a liability waiver. Meet the minimum physical fitness requirements. Permission of the Academy Coordinator or Public Safety Institute Director*

FSC 149 Fire Academy 2

7 cr, 5 lec, 5 lab

Knowledge and practical skills necessary for certification as an entry-level firefighter II. Successful completion qualifies the student to sit for the Firefighter I and II certification examination conducted by the Office of the Arizona State Fire Marshall.

PRE: *FSC 148*

FSC 151 Principles of Emergency Services

3 cr, 3 lec

Course provides an overview to fire protection and emergency services; career opportunities in fire protection and related fields; culture and history of emergency services; fire loss analysis; organization and function

of public and private fire protection services; fire departments as part of local government; laws and regulations affecting the fire service; fire service nomenclature; specific fire protection functions; basic fire chemistry and physics; introduction to fire protection systems; introduction to fire strategy and tactics; life safety initiatives.

FSC 152 Fundamentals of Fire Prevention
3 cr, 3 lec

Course provides fundamental knowledge relating to the field of fire prevention. Topics include: history and philosophy of fire prevention; organization and operation of a fire prevention bureau; use and application of codes and standards; plans review; fire inspections; fire and life safety education; and fire investigation.

FSC 153 Fire Behavior and Combustion
3 cr, 3 lec

Explores the theories and fundamentals of how and why fires start, spread, and are controlled.

FSC 155 Fire Investigation 1
3 cr, 3 lec

Course is intended to provide the student with the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the firesetter, and types of fire causes.

***PRE:** FSC 153*

FSC 173 Fire and Emergency Services Administration
3 cr, 3 lec

Course introduces the student to the organization and management of a fire and emergency services department and the relationship of government agencies to the fire ser-

vice. 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*

FSH 100 Fashion History

2 cr, 2 lec

An exploration of the evolution of fashion throughout time, traced through garment development and creations from ancient times to current day garment production and style. A direction of cultural, historical fashion and silhouettes throughout time and current modern-day adaptations.

FSH 101 Universal Fashion Culture

2 cr, 2 lec

Gain a deeper understanding of the role of fashion from a universal perspective and its global impact as an industry.

FSH 105 Fashion Pop Culture

2 cr, 2 lec

Introduction to pop culture and the impact on fashion and style, exploring different genres, and where style and fashion were impacted by political, historical, media, and social media.

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/GE

3 cr, 3 lec

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 SUN⊕ GER 1101 Elementary German 1

4 cr, 6 lec

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 SUN⊕ GER 1102 Elementary German 2

4 cr, 6 lec

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 SUN⊕ GER 2201 Intermediate German 1

*4 cr, 6 lec C*A continuation of GER 102, with an emphasis on oral communication and reading for comprehension. Writing and oral grammar exercises are integrated to develop and reinforce intermediate speaking skills. The traditions and cultures of German-speaking countries and modern day topics provide a conversational approach to learning German. Fulfills the third semester foreign language requirements at most four-year institutions.

PRE: *GER 102 or 2 years of high school German*

GER 202 SUN⊕ GER 2202 Intermediate German 2

4 cr, 6 lec

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 SUN# GLG 1101 Introduction to Geology 1 (Physical)/GE

4 cr, 3 lec, 2 lab, 1 rec

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)/GE

4 cr, 3 lec, 2 lab, 1 rec

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/GE

4 cr, 3 lec, 2 lab, 1 rec

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.

PRE or COREQ: *GME 101*

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 C#. 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 hands-on 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 electronic 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/GE
4 cr, 3 lec, 2 lab, 1 rec

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

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

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, printing issues, typography, researching a graphic design project, preparing thumbnail sketches, preparing roughs and comps., encouraging productive client communications, and more.

GRA 102 Graphic Communications 2
4 cr, 3 lec, 2 lab

This course (the second semester continuation of GRA 101) will provide an overview of traditional 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
2 cr, 2 lec, 1 lab

Introduction to the fundamentals of Geospatial Technology.

GST 102 Spatial Analysis

2 cr, 2 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

2 cr, 2 lec, 1 lab

This course addresses the interpretation and understanding of a variety of data formats available in Geographic Information Systems (GIS).

PRE: *GST 101*

GST 104 Cartographic Design

2 cr, 2 lec, 1 lab

This course introduces fundamental cartographic concepts.

PRE: *GST 101*

HIS 110 World History to 1500/GE

3 cr, 3 lec

Topics related to political, economic, social and cultural history of the world from its earliest beginnings to 1500.

HIS 111 World History Since 1500/GE

3 cr, 3 lec

Topics related to political, economic, social and cultural history of the world from 1500 to the present.

HIS 121 History of the United States to 1877/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

This course is a survey of American history from Reconstruction to the present.

HIS 220 History of Arizona/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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.

HIS 240 Western Civilization 1/GE

3 cr, 3 lec

Topics related to the ancient Middle East, Greeks and Romans, the medieval world, the Renaissance, and the Reformation.

HIS 241 Western Civilization 2/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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.

Recommended: *ENG 90.*

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.

Recommendeded: *ENG 90.*

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*

Recommended: *ENG 90.*

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.*

Recommendeded: *ENG 90.*

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 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 220 Border Security
3 cr, 3 lec

A comprehensive overview of border security, focusing on the strategic context and evolving challenges in managing borders. The course covers key concepts such as the flow of people, goods, money, and information across borders, and the impact of globalization on traditional border management paradigms.

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.*

Recommendeded: *ENG 90.*

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.*

Recommendeded: *ENG 90.*

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 housekeeping and technical areas of building maintenance in the hospitality

industry with emphasis on support systems and energy conservation. Principles of management including planning, staffing, organizing, delegating, and evaluating as they apply to the housekeeping and engineering departments of a property will be discussed.

JRN 100 Introduction to Mass Communications/GE

3 cr, 3 lec

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 SUN# 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*

LET 160 LETA Academy 12

cr, 443 hours 16lec 16lab

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 13lec 19lab

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.

LGS 111 Basic Logistics

3 cr, 3 lec

In this introductory Logistics course, we will explore the backbone of global trade. This course encompasses the three major building blocks of logistics networks: transportation, warehousing, and inventory. After completing this course, students will be able to differentiate the advantages and disadvantages of different modes of transportation. Students will understand what goes into designing and setting up a warehousing facility. Finally, they will be able to select the options that enable students to develop logistics networks that minimize costs and deliver top customer service.

LGS 112 Foundational Planning, Procurement, and Service Operations

3 cr, 3 lec

Provides foundational insights of key elements of logistics with a focus on sales operations, demand forecasting, replenishment planning, manufacturing services, sourcing strategies, and transaction execution.

LGS 113 Overview of Supply Chain Principles with U.S.-Mexico Border Emphasis

3 cr, 3 lec

Provides the essential knowledge and practical skills in logistics and supply chain management, focusing on the unique challenges and opportunities presented by the U.S.–Mexico border region. Students will gain an understanding of customs regulations, trade agreements, and cultural considerations that influence supply chain operations.

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)

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 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 SUN✿ MAT 1142 College Mathematics with Applications/GE

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/GE

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 SUN✿ MAT 1151 College Algebra: Standard/GE

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 183 Plane Trigonometry/GE

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 SUN✿ MAT 1187 Precalculus/GE

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 SUN✿ MAT 2212 Brief Calculus/GE

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/GE

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 SUN✿ MAT 2220 Calculus I with Analytic Geometry/GE

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 and MAT 183 or MAT 151 and MAT 183 or MAT 187*

NOTE: *Credit cannot be received in both MAT 212 and MAT 220*

MAT 227 Discrete Mathematics/ GE

3 cr, 3 lec G, H

An introduction to formal proof techniques, propositional logic, set theory, relations and functions, combinatorics, elementary number theory, graph theory, algorithms, and applications.

PRE: *MAT 150 MAT 151 or MAT 187*

MAT 230 SUN✿ MAT 2230 Calculus II with Analytic Geometry/GE

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 SUN✿ MAT 2241 Calculus III with Analytic Geometry/GE

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/GE

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 ⟨SUN⟩ MAT 2262 Introduction to Ordinary Differential Equations/GE

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 ⟨SUN⟩ MAT 1160 Applied Statistics/GE

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 240 Medical Coding and Billing Training and CPC Certification Prep/Professional Practice

4 cr, 4 lec, 1 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 through AAPC's curriculum. 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.

This course will also 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: *AHE 101, CIS 120 and BIO 160 or AHE 119*

PRE or COREQ: *MCB 100, MCB 130 and MCB 160*

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 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: AHE 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 241 Medical Assistant Externship
5 cr, 1 lec, 12 Clinical

Practicum in administrative and clinical medical assisting. Application of administrative duties, procedures, clinical skills, procedures, and knowledge derived from medical assisting courses.

PRE: MDA 120 and MDA 121

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, 2 lec, 3 lab

Procedures associated with hydraulic, pneumatic and mechanical actuated valves and electrical motor driven pumps for diagnostics, repair and parts replacement utilized in industrial settings. A study in the use of systematic preventative and reliability maintenance methods associated with the operation of such equipment in the manufacturing environment to reduce failure of mechanical systems components and maintain operational readiness.

MFG 225 Thermal Conditioning Processes for Manufacturing Materials
4 cr, 2 lec, 3 lab

Course of experiential study in thermal conditioning processes for manufacturing materials. Student will select an area of interest as a topic of study to include i.e. ceramics, polymers, ferrous and non-ferrous materials in manufacturing. Use of thermal process applications related to casting, conditioning, forming and joining process applications. Students

in cooperation with their professor will research and review a variety of thermal conditioning processes for materials conditioning i.e. fluidized beds, austempering, molten salt baths, cryogenic, or other emerging processes. As appropriate examine related transient liquid phase (TLP) and or fusion joining processes used in advanced manufacturing. Research topics to organize a portfolio of student learning outcomes that will include data on the effects of thermal conditioning of materials, effects of thermal joining on the heat effected zone (HAZ) of the material(s). Process techniques used to achieve repeatable outcomes of hardness, and alloy distribution in effected thermally treated materials. Student research may include the use of non-metallic adhesives, and other emerging hybrid process technologies as alternates to thermal processes in manufacturing. Introductory discussion of historically used materials, joining process, and related safety practices will be included to provide the student with sufficient point of reference so as to recognize the technological differences that separates traditional thermal materials treatment and joining processes from advanced ones.

PRE: any Welding (WLD) course and MFG 195

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.

MKF 100 Fashion Marketing and Digital Technology

3 cr, 3 lec

This course focuses on marketing in the global fashion industry. Topics include research, analysis, market segmentation, target customer identification, the marketing mix, strategic planning, brand strategy and positioning, customer relationships, social media, mobile marketing, and online analytics and new technologies.

MKF 101 Fashion Business Principles

3 cr, 3 lec

Explore and apply various forecast research methods in preparation for developing, planning, purchasing, or merchandising apparel lines and collections

MKF 102 Fashion Forecasting

2 cr, 2 lec

Explore and apply various forecast and research methods in preparation for developing, planning, purchasing, or merchandising for digital, media, and physical retail environments. Identifying how trends are created and learning about cyclical fashion, exploring the relationship between the consumer and Fashion Forecasting.

MKF 108 Retail Buying & Planning

3 cr, 3 lec

Explore and apply various forecast research methods in preparation for developing, planning, purchasing, or merchandising apparel lines and collections.

MKF 109 Visual Design and Merchandising

2 cr, 2 lec

Knowledge and skill development in creating showrooms or retail store window/interior displays. Visual techniques of store planning, mannequin dressing, alternate form design, and display space conceptualization and implementation. Knowledge of space manipulation and color palates. Integrating the vision with the merchandise and target audience.

MKF 110 Global Marketing

3 cr, 3 lec

Introduction to the research techniques and implementation strategies practiced in global marketing by the fashion and related industries.

MKF 112 Global Merchandising

3 cr, 3 lec

Examine the multiple merchandising practices used around the world in fashion apparel companies--both retail and wholesale.

MKT 110 Principles of Marketing

3 cr, 3 lec

In this course, students will gain a comprehensive overview of the principles, methodologies, and challenges associated with formulating an integrated, customer-centric marketing strategy aimed at achieving organizational objectives.

MKT 120 Principles of Sales

3 cr, 3 lec

In this course, students will learn about the sales process and its connection to marketing. It aims to develop the skills necessary for success in professional selling. Students will examine both inside and outside sales across various organizational settings. Through real-world scenarios, they will analyze customer needs to build value-added relationships and drive organizational revenue.

MKT 130 Principles of Digital Marketing

3 cr, 3 lec

In this course, students will explore the fundamental concepts, strategies, and tools used to effectively market products and services in the digital landscape. Students will examine the digital ecosystem, including SEO, SEM, and content marketing, as well as social media, mobile, and email marketing. Additionally, students will use data to measure campaign performance and inform decision-making, as well as explore the latest innovations in digital marketing, including AI and influencer marketing.

PRE: MKT 110

MKT 140 Principles of Advertising

3 cr, 3 lec

In this course, students will learn how to develop effective advertising campaigns. They will explore consumer behavior to understand what drives purchasing decisions and develop skills in brand strategy, creative development, and media planning. Additionally, students will gain practical experience in campaign design and management and the use of analytics to measure campaign success.

PRE: MKT 110

MKT 150 Social Media Marketing
3 cr, 3 lec

In this course, students will learn the fundamentals of social media marketing, including its history, evolution, and significance in the marketing landscape. The course will cover content creation and curation to attract and retain audiences, strategies for audience engagement, and the planning, launching, and managing of social media campaigns. Students will also learn to measure success using analytics tools, familiarize themselves with social media management resources, and understand the ethical and legal considerations involved.

PRE: *MKT 110*

MKT 160 Community Marketing and Public Relations
3 cr, 3 lec

In this course, students will learn the importance of building strong relationships with local communities, local partners, and stakeholders. This involves learning effective communication strategies, event planning, and community engagement techniques to support public, private, and non-profit marketing. They will also learn the importance of cause marketing, brand reputation management, crisis communication, and grant-writing. Additionally, students will explore the use of social media and digital platforms to foster community connections and promote positive public perception.

PRE: *MKT 110*

MKT 170 Branding and Storytelling
3 cr, 3 lec

In this course, students will learn how to craft compelling brand narratives that resonate with target audiences. The course will cover various storytelling techniques and platforms, including digital media, to enhance brand communication. Students will also learn to analyze and leverage cultural and social trends to create relevant and impactful brand stories.

PRE: *MKT 110*

MKT 210 Internantional Marketing
3 cr, 3 lec

In this course, students will learn to navigate the complexities of marketing on an international scale. They will explore key concepts such as market entry strategies, global market research, and the impact of cultural, economic, and legal differences on marketing practices. The course will cover the development and implementation of global marketing strategies, including product adaptation, pricing, distribution, and promotional tactics tailored to diverse markets. Students will also gain insights into managing global brands, understanding competitive dynamics, and leveraging digital marketing tools to reach international audiences.

PRE: *MKT 110*

MKT 220 Marketing Research
3 cr, 3 lec

In this course, students will explore various research methodologies, including qualitative and quantitative approaches, and understand how to collect and analyze data from multiple sources. The course will cover the use of tools and techniques for data analysis, enabling students to interpret findings and make data-driven decisions. Additionally, students will learn to manage research projects, including working with external suppliers and presenting their findings effectively.

PRE: *MKT 110*

MKT 290 Integrated Marketing Communications Capstone
3 cr, 3 lec

This capstone course aims to provide students with a comprehensive understanding of advertising, public relations, corporate communications, and sales promotions, emphasizing the media's role in integrated marketing communications (IMC) strategies. The curriculum focuses on developing the comprehensive planning, research, and creative skills necessary to achieve IMC objectives.

PRE: *MKT 110, MKT 120, MKT 130, MKT 140, and MKT 150*

MKT 295 Marketing Internship
3 cr, 3 lec

In this internship, students gain practical experience with applying their comprehensive marketing knowledge in real-world scenarios, such as conducting market research, developing marketing strategies, and executing campaigns.

PRE: *MKT 290*

MUS 50/60 Preparatory Applied
1 cr, .5 lec 1 lab
2 cr, 1 lec 2 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 commu-

nity 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/GE

3 cr, 3 lec

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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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: MUS 143A or MUS 145A and instructor permission required

MUS 144B Brass Instrument-Horn 1B

1 cr, .5 lec 1lab

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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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 lec 2 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.

PRE: instructor permission required

MUS 145B Brass Instrument-Horn 1A

2 cr, 1 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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.

PRE: MUS 143A or MUS 145A and instructor permission required

MUS 146B Brass Instrument-Horn 1B

2 cr, 1 lec 2 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 lec 2lab

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 lec 2 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 lec 2 lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the baritone horn or eupho-nium. 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, .5 lec 1 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1lab

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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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 lec 2 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 and instructor permission required

MUS 165D String Instrument-String Bass 1A

2 cr, 1 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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 ⬛ **MUS 2222 Dictation and Sight Reading 2A**

1 cr, 3 lab

A continuation of MUS 111.

COREQ: *MUS 291*

MUS 212 ⬛ **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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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, .5 lec 1 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: *MUS 144A or MUS 146A and instructor permission required*

MUS 243B Brass Instrument- Horn 2A

1 cr, .5 lec 1 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, .5 lec 2 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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: MUS 243A or MUS 245A and instrument permission required

MUS 244B Brass Instrument-Horn 2B

1 cr, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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 lec 2 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.

PRE: MUS 144A or MUS 146A and instructor permission required

MUS 245B Brass Instrument-Horn 2A

2 cr, 1 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 243D or MUS 245D and instructor permission required

MUS 246E Brass Instrument-Euphonium 2B

2 cr, 1 lec 2 lab

This is applied music, an individual one-hour per week lesson designed to develop college-level performing skills on the baritone horn or eupho-nium. 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, .5 lec 1 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 lab

This is applied music, an individual half-hour per week lesson designed to develop college-level perform-ing 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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 lec 2 lab

This is applied music, an individual one-hour per week lesson designed to develop college-level perform-ing 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 lec 2 lab

This is applied music, an individual one-hour per week lesson designed to develop college-level perform-ing 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 lec 2 lab

This is applied music, an individual one-hour per week lesson designed to develop college-level perform-ing 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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- Saxophone 2B
1 cr, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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- Saxophone 2B
2 cr, 1 lec 2 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 lec 2 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 lec 2 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 lec 2 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 lec 2 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, .5 lec 1 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, .5 lec 1 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 lec 2 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 lec 2 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 SUNⓈ MUS 2222 Theory 2A

3 cr, 3 lec

A continuation of MUS 191. This is a continuation of Theory 1 that includes a study of chromatic harmony and an investigation of twentieth century techniques in relation to traditional practices.

COREQ: *MUS 211*

MUS 292 SUNⓈ MUS 2223 Theory 2B

3 cr, 3 lec

A continuation of MUS 192.

PRE: *MUS 291*

COREQ: *MUS 212*

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 195 Exploring Professions in Nutrition & Wellness

1 cr, 1 lec

Introduction to a variety of career opportunities within the field of nutrition and wellness.

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, BIO 100, CHM 130, or approved higher level BIO or CHM*

NTR 205 Nutrition Through the Lifecycle

3 cr, 3 lec

The study of special nutritional needs, physiology and health concerns throughout the principle stages of the

life cycle- pregnancy, lactation, infancy, childhood, adolescence, adulthood, older adulthood.

PRE: NTR 201

NTR 210 Nutrition and Disease

3 cr, 3 lec

The fundamentals of nutrition needs for common & uncommon health conditions/diseases including lifestyle variations. Review of Nutrition Care Process (NCP), scope of practice, screening for nutritional risk, assessment of dietary needs, medical nutrition therapy interventions, modified diets, meal planning, and menu writing.

PRE: NTR 201

NUR 117 Pharmacology with Clinical Calculations

2 cr, 2 lec

Introduction to the concepts of calculations for medication administration and pharmacotherapeutics. Establishes a knowledge base that allows the learner to apply these concepts to patient care and education. Integrated within this course are the core competencies of patient-centered care, teamwork and collaboration, evidence-based practice (EBP), quality improvement (QI), safety, informatics and technology, professionalism, communication, leadership, and system-based practice.

PRE: Admission to Nursing Program

NUR 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) 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, 5 lec, 9 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/GE

4 cr, 3 lec, 2 lab, 1 rec

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, test-taking strategies, note-taking, time management, goal setting, learning styles, technology, values clarification, community involvement, and effective communication. The course will encourage students to examine their own behaviors, expectations, and attitudes to help them exercise more effective strategies for success.

ORI 102 First Course

1 cr, 1 lec

An online orientation designed to prepare individuals for taking online courses: basic computer tools, online library resources, World Wide Web navigation, search engines, Blackboard, email, discussion boards, chat rooms, file organization, time management, and effective communication techniques.

ORI 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 102 Emergency Procedures for Coaches

2 cr, 1.5 lec, 1 lab

Students will be able to administer first aid and cardiopulmonary resuscitation, to improve personal judgment in cases of accident or illness, develop the ability to render aid in time of emergency, and create an emergency action plan.

PEM 105 CPR First Aid & AED Training

1 cr, 1 lec, 1 lab

This course incorporates the latest science and teaches students to recognize and care for various first aid emergencies such as burns, cuts injuries to the head, neck & back, heat & cold emergencies & how to respond to cardiac & breathing emergencies. Students successfully completing this course will receive a 2 year certification from the American Red Cross.

PEM 115 Mental Conditioning 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. **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 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 109 Sambaerobics

2 cr, 1 lec, 2 lab

The course will introduce the beginning techniques of Brazilian samba dancing. Students will practice samba for elongated periods of time, elevating heart rate to produce positive aerobic effects.

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 112 Team Building Conditioning for Varsity Sports

3 cr, 2 lec, 2 lab

This course is designed for collegiate athletes focusing on fundamental concepts and basic team building to enhance athletic performance.

NOTE: Collegiate Athlete Member only

PER 113 Strength and Conditioning Training

3 cr, 2 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. **R**

NOTE: *Collegiate Athlete Member only*

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

3 cr, 2 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**

NOTE: *Collegiate Athlete Member only*

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 118 Resistance Training for Varsity Sports

3 cr, 2 lec, 2 lab

The collegiate athlete will apply the skills and understanding of resistance training to enhance sport performance. Athlete will develop a structural foundation and understanding of muscle groups.

NOTE: *Collegiate Athlete Member only*

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 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 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 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 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 maximum muscular endurance, strength, and power and hypertrophy gains. **R**

PRE: PER 170 and PER 171

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

PER 296 Advanced Tactical Applications for Soccer

1 cr, 1 lec, 1 lab

Students will engage in the sport of soccer in a format designed to create competitive play more so than recreational.

PHI 101 SUN# **PHI 1101 Introduction to Philosophy/GE**

3 cr, 3 lec

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 SUN# **PHI 1103 Introduction to Logic/GE**

3 cr, 3 lec

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 SUN# **PHI 1105 Introduction to Ethics/GE**

3 cr, 3 lec

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.

PHI 210 Philosophy of Science/GE

3 cr, 3 lec

A philosophical investigation into the nature of scientific inquiry and methodology: Topics include the definition of science, the realist/antirealist debate, the limits of science, the relationship between science and religion, and the nature, formation, use, and confirmation of scientific laws and theories.

PRE: *ENG 101 or 107*

PHI 220 Medical Ethics/GE

3 cr, 3 lec

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

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.

PHI 240 Ancient Philosophy/GE

3 cr, 3 lec

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.

PHI 257 Social and Political Philosophy

(same as POS 257)

3 cr, 3 lec

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.

PHY 111 SUN# **PHY 1111 College Physics I/GE**

4 cr, 4 lec, 2 lab

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 SUN# **PHY 1112 College Physics II/GE**

4 cr, 4 lec, 2 lab

Introduction to electricity and magnetism, optics, and modern physics.

PRE: *PHY 111*

PHY 121 ⓢⓤⓝ PHY 1121
University Physics I/GE
4 cr, 4 lec, 2 lab

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 ⓢⓤⓝ PHY 1131
University Physics II/GE
4 cr, 4 lec, 2 lab

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.

PRE: None

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.

PRE: None

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.

PRE: None

PIT 104 IT Support: IT Security and Google Certificate
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 105 Google Data Analytics Professional
4 cr, 3 lec, 2 lab

Introduction to the practices and processes of data analytics.

PIT 109 GIT Automation with Python
4 cr, 3 lec, 2 lab

This asynchronous, beginner-level course is designed to provide IT professionals with in-demand skills, such as Python, Git, and IT automation, to advance their careers. This program consists of six modules in topics such as Python, Python interaction with operating system, Git and GitHub, troubleshooting and debugging techniques, configuration management and the cloud, and automating real-world tasks with Python. Open Entry/Open Exit.

PIT 110 Cybersecurity
4 cr, 3 lec, 2 lab

An introduction to the field of Cybersecurity which will teach learners how to identify common risks, threats, and vulnerabilities, as well as the techniques to mitigate them. This course will prepare learners for entry-level cybersecurity roles by allowing hands-on experience with industry recognized tools including Python, Linux and many other security tools like Security Information and Event Management (SIEM) programs. Open Entry/Open Exit

PIT 111 User Experience (UX) Design
4 cr, 3 lec, 2 lab

This course is designed to prepare learners for a career in the high-growth field of UX Design. Students will gain in-demand skills preparing them for entry-level jobs in UX Design. Open Entry/Open Exit

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

PIT 140 Fortinet Certified Fundamentals Cybersecurity

3 cr, 2 lec, 2 lab

This course is designed to equip students with practical skills in network security using Fortinet technologies. Through hands-on lab exercises, students will apply their theoretical knowledge in real-world scenarios, gaining valuable experience in operating the most common FortiGate features. Students will build on a solid foundation in network security concepts, enabling them to address cybersecurity challenges effectively. Students will learn how to configure and manage FortiGate devices, implement firewall policies, establish secure virtual private networks (VPNs), and conduct network monitoring and analysis. By the end of the course, students will have developed a deeper understanding of network security principles and best practices. Students will possess the skills necessary to protect critical network infrastructure and be well-prepared to pursue the associate-level credential by passing the Network Security Expert (NSE) Associate exam.

PIT 141 FortinetCertified Associate Cybersecurity

3 cr, 2 lec, 2 lab

This comprehensive course leverages Fortinet network security technologies to provide students with immersive, hands-on lab experiences, allowing them to apply their theoretical knowledge in practical settings. Students will learn how to secure networks and applications, encompassing the deployment, management, and monitoring of Fortinet network security products, public cloud products, and security operations products. Students will gain extensive practical experience in implementing and maintaining secure network infrastructures and learn how to configure advanced firewall policies, secure remote access through virtual private networks (VPNs), implement secure web applications, and utilize advanced threat protection mechanisms. Additionally, students will explore security operations practices, including vulnerability management, incident response, and security event analysis. By engaging with Fortinet technologies in real-world scenarios, students will develop expertise in network security concepts and acquire the skills necessary to address complex cybersecurity challenges. The course prepares students for three professional-level credentials and equips them with the knowledge and practical experience required for success in advanced network security. Students will possess the skills necessary to protect critical network infrastructure and be well-prepared to pursue the professional-level credential by passing the Network Security Expert (NSE) Professional exam.

PRE: PIT 140

PIT 142 Fortinet Certified Professional Cybersecurity

3 cr, 2 lec, 2 lab

This dynamic course utilizes advanced Fortinet network security technologies to offer students immersive, hands-on lab experiences, fostering the application of theoretical knowledge in practical settings. Students will gain comprehensive practical experience implementing and managing advanced network security solutions. Students will focus on designing, administering, monitoring, and troubleshooting Fortinet operational technology (OT). Students will learn how to design secure OT networks, configure and monitor security operations infrastructure, and implement Zero Trust Access (ZTA) frameworks. Additionally, students will explore advanced topics such as threat intelligence, advanced threat protection, and network segmentation. Students will possess the skills necessary to be well-prepared to pursue the specialist-level credential by passing the Network Security Expert (NSE) Solutions Specialist exam.

PRE: PIT 141

PIT 143 Fortinet Certified Solution Specialist Cybersecurity

3 cr, 2 lec, 2 lab

This course leverages expert-level Fortinet network security technologies to offer students immersive, hands-on lab experiences, allowing them to apply their theoretical knowledge in practical settings. Students will focus on network security design, configuration, and troubleshooting for complex networks. Students will gain extensive experience in handling intricate network security challenges. They will learn advanced techniques for designing and implementing comprehensive security architectures, configuring complex network security policies, troubleshooting intricate network security issues, and exploring topics such as advanced threat protection, network segmentation, and security event analysis. Students will develop expertise in network security concepts by actively engaging with Fortinet technologies in real-world scenarios. Students will possess the skills necessary to be well-prepared to pursue the expert-level credential by passing the Network Security Expert (NSE) Expert exam.

PRE: PIT 142

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: Completed Phlebotomy Technician Program Checklist Application

PRE/COREQ: AHE 119 or AHE 130 or BIO 160

PLS 100 Plant Science/GE

4 cr, 3 lec, 3 lab

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 108 Plants and People/GE

4 cr, 3 lec, 2 lab, 1 rec

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.

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/GE

4 cr, 3 lec, 3 lab

Fundamental principles of soil science, the origin, nature and classification of soils, the chemical, physical and biological properties in relation to growth and nutrition, and problems of saline soils.

PRE: *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 221 Irrigation Calculations and Application

3 cr, 3 lec, 1 lab

To introduce calculations and application of the management and operation of on-farm irrigation systems, including, but not limited to, pressurized systems like micro irrigation and sprinklers, irrigation scheduling, climate monitoring, and chemigation.

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 241 Principles of Genetics/GE

4 cr, 3 lec, 3 lab
Same as ANS 241

Genetic principles of inheritance in plants and animals and their significance in agriculture and biology will be discussed. Topics include the physical basis of heredity in families and populations; introduction to chromosome biology; the molecular basis for gene expression; and modern genetic engineering tools used in animal and plant systems.

PLS 290 Vegetable Crop Production

4 cr, 3 lec, 3 lab

A practical approach to commercial vegetable production. Deals with the principles, economics, and production practices of principle vegetable crops grown in the Southwest.

PRE: *MAT 121 or approved higher level math recommended*

PMT 101 Project Management

4 cr, 3 lec, 2 lab

An introduction to the field of project management in functional areas such as foundational project management, terminology, project initiation, defining and creating measurable project goals and deliverables, project evaluation, team development, effective

communication, engaging in practices aligned with Agile project management and in real-world scenario projects and activities, while building a foundation of knowledge, preparing them for an entry-level position in Project Management. Open Entry/ Open Exit

POS 100 Introduction to Politics/ GE

3 cr, 3 lec

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 SUN# POS 1110 American Politics/GE

3 cr, 3 lec

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 SUN# POS 1120 World Politics/GE

3 cr, 3 lec

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/ GE

3 cr, 3 lec

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 SUN# POS 2204 Introduction to Comparative Politics/GE

3 cr, 3 lec

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

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.

PSY 101 SUN# PSY 1101 Introduction to Psychology/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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/GE
(same as SOC 170)

3 cr, 3 lec

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, confidence 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)/GE

3 cr, 3 lec

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.

PSY 270 Social Psychology

3 cr, 3 lec

Explores the combined areas of psychology and sociology, with emphasis on the reciprocal interaction of individuals and their groups. Areas covered include methods of social research, basic psychological factors, social attitudes, communication, society and culture, and small groups.

PRE: *PSY 101 or SOC 101*

PSY 280 Behavior Modification

3 cr, 3 lec

Pavlovian classical conditioning, instrumental and operant conditioning, motivation, ABCs of behavior, relapse prevention models, behavioral change models, self-behavior change analysis, token economies, and cognitive-behavioral techniques for enhancing change and preventing relapse.

PSY 281 Abnormal Psychology

3 cr, 3 lec

This course is an undergraduate level introduction to the concepts of abnormality, mental health and mental illness. It serves as an introduction to the concepts of normality and abnormality in a cultural context. It also covers current diagnostic categorizations of abnormality and treatment of mental illness along with historical perspectives on these diagnoses and treatments. It does not train students in diagnosis or intervention. Abnormal psychology examines the causes, diagnosis, assessment, treatment, and possible prevention of mental disorders; including historical and current theoretical perspectives, classification systems, cultural perspectives and ethical issues.

PRE: *PSY 101*

PSY 290 Introduction to Research Methods in the Social Sciences/GE
SUN# PSY 2290

4 cr, 4 lec, 1 lab

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: *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 SUNY **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

This course introduces the fundamentals of radiologic science, the radiologic technology program, and the 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

4 cr, 3 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

4 cr, 3 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

The radiographer's role in providing patient care in all patient populations is examined.

PRE: RAD 100 and current enrollment in the Radiologic Technology program

COREQ: RAD 105 and RAD 115 and RAD 120

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

Provides an opportunity for practical application of theory on patients in a clinical setting. Concepts of team practice, patient-centered clinical practice, and professional development are practiced, examined, and evaluated. Focuses on patient care and assessment and competent performance of radiologic procedures. Imaging performed under appropriate supervision of a qualified radiographer.

PRE: RAD 100

COREQ: RAD 105 and RAD 110 and RAD 115

RAD 121 Clinical 2 Medical Radiologic Technology

3 cr, 18 clin

Continued clinical practice to further develop, apply, reinforce, and integrate concepts and theories in the performance of radiologic procedures. Concepts of team practice, patient-centered clinical practice, and professional development are practiced, examined, and evaluated. Focuses on patient care and assessment and competent performances of radiologic procedures. Imaging performed under appropriate supervision of a qualified radiographer. Introduction to the interoperative environment.

PRE: RAD 120

COREQ: RAD 106 and RAD 215

RAD 122 Clinical 3 Medical Radiologic Technology

5 cr, 30 clin

Continued clinical practice to further develop, apply, reinforce, and integrate concepts and theories in the performance of radiologic procedures. Concepts of team practice, patient-centered clinical practice, and professional development are practiced, examined, and evaluated. Focuses on patient care and assessment and competent performance of radiologic procedures. Imaging performed under appropriate supervision of a qualified radiographer.

PRE: *RAD 121*

RAD 200 Radiographic Imaging Equipment

3 cr, 3 lec

Provides a foundation for understanding digital imaging technology, digital imaging receptors, digital technique, image acquisition and post-processing enhancement. Best practices in digital radiography and radiation safety in the digital environment will be stressed.

PRE: *RAD 215*

RAD 205 Advanced Radiologic Procedures

4 cr, 3 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: *BIO 160 OR BIO 201 and BIO 202*

RAD 207A 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 OR BIO 201 and BIO 202.

RAD 217 Advanced Medical Imaging

2 cr, 2 lec

Introduction to advanced imaging modalities.

PRE: *RAD 200*

RAD 220 Clinical 4 Medical Radiologic Technology

5 cr, 30 clin

Continued clinical practice to further develop, apply, reinforce, and integrate concepts and theories in the performance of radiologic procedures. Concepts of team practice, patient-centered clinical practice, and professional development are practiced, examined, and evaluated. Focuses

on patient care and assessment and competent performance of radiologic procedures. Imaging performed under appropriate supervision of a qualified radiographer.

PRE: *RAD 122*

COREQ: *RAD 200 and RAD 205*

RAD 221 Clinical 5 Medical Radiologic Technology

5 cr, 30 clin

Continued clinical practice to further develop, apply, reinforce, and integrate concepts and theories in the performance of radiologic procedures. Concepts of team practice, patient-centered clinical practice, and professional development are practiced, examined, and evaluated. Focuses on patient care and assessment and competent performance of radiologic procedures. Imaging performed under appropriate supervision of a qualified radiographer.

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*

REL 201 Comparative World Religion/GE

3 cr, 3 lec

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.

REL 210 Introduction to the Old Testament (Hebrew Bible)

3 cr, 3 lec

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

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

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.

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.

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 SUNY SOC 1101 Introduction to Sociology/GE

3 cr, 3 lec

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/GE

(same as FAS 160)

3 cr, 3 lec

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/GE

(same as PSY 170)

3 cr, 3 lec

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/GE

3 cr, 3 lec

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 SUNY SOC 2215 Racial and Ethnic Relations/GE

3 cr, 3 lec

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 SUN⊕ SPA 1101 Elementary Spanish 1/GE

4 cr, 6 lec

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 SUN⊕ SPA 1102 Elementary Spanish 2/GE

4 cr, 6 lec

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 SUN⊕ SPA 2201 Intermediate Spanish 1/GE

4 cr, 6 lec

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 SUN⊕ SPA 2202 Intermediate Spanish 2/GE

4 cr, 6 lec

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

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

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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

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/GE

3 cr, 3 lec

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

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/GE

3 cr, 3 lec

The history of Mexican Americans, covering the Mesoamerican civilizations to the present time.

SPC 110 SUN⊕ COM 1100 Introduction to Speech Communications/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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 SUN⊕ COM 2271 Group Communication/GE

3 cr, 3 lec

This course provides students with theory and practice of communication as applied to various large and small group contexts.

SSC 101 Student Success Course

1 cr, 1 lec

Exploration of transfer, career, and college success strategies for first-year AWC students. Includes exploration of majors and related career(s), learning strategies, academic and financial planning, and the keys to fostering academic success, degree completion, and transfer..

PRE: None

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 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.

PRE: None

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.

PRE: None

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/GE

3 cr, 3 lec

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/GE

3 cr, 3 lec

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 intended 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 preparation of a program production plan.

TVP 160 Television Studio Operations 2
3 cr, 2 lec, 3 lab

Enables students to improve the methods and techniques of the operation of television production equipment and to implement the preparation and completion of a message or program for television broadcasting.

TVP 170 TV Control Room Operation
3 cr, 2 lec, 2 lab

Introduces students to the operations of a television control room. It will provide a foundation for students in all phases of control room use including directing, technical directing, Chyron operation, audio console use, and video tape playback. The course involves students in hands-on training in all facets of control room operations.

PRE: *TVP 125*

TVP 225 Television Production 2
3 cr, 2 lec, 2 lab

Involves extensive and advanced theory and techniques of television production in studio and field settings. Course emphasizes individual responsibility for design and implementation of television projects.

PRE: *TVP 125*

TVP 250 Video Post Production
3 cr, 2 lec, 2 lab

Familiarizes students with theory and principles of editing and the use of a non-linear editing systems. It gives students the opportunity to perform the functions of an editor using a computer-based non-linear editing system.

PRE: *TVP 125 and TVP 225*

UAS 100 Introduction to Unmanned Aerial Systems
3 cr, 3 lec

This course is a survey of Unmanned Aerial Systems (UAS), covering the foundations of unmanned aerial systems.

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 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 122 Meditation and Wellness
2 cr, 2 lec

Introduction to meditation methods and their relationship to wellness.

WED 202 Introduction to Health Coaching
4 cr, 4 lec

This course is designed to provide students with a comprehensive understanding of principles and processes involved in wellness coaching.

WED 212 Stress Management
2 cr, 1 lec, 2 lab

Causes and effects of stress and potential solutions to stress-related problems.

WED 225 Professional Skills: Ethics of a Health & Wellness Coach

4 cr, 4 lec

This course provides an in-depth ity, professional boundaries, and the legal responsibilities of being a health coach.

WLD 102 Welding Sculpture Work

3 cr, 1 lec, 4 lab

Fundamental theory and practice associated with oxy fuel welding, shielded metal arc welding, and gas metal arc welding processes used to fabricate a welded sculpture.

WLD 103 Blacksmithing and Ornamental Iron Work

3 cr, 1 lec, 4 lab

Basic concepts of ornamental iron fabrication and related blacksmithing techniques used to shape metal. Course will include history of ornamental ironwork through lab activities, internet, and traditional sources of information. Students will be able to choose from a number of projects and forge them to completion.

WLD 104 Techniques in Flux Core Arc Welding

3 cr, 1 lec, 4 lab

Skills and techniques necessary for industrial practice of Flux Core Arc Welding.

WLD 105 Techniques in Oxyacetylene Welding and Cutting

3 cr, 2 lec, 2 lab

Industrial practices of oxyacetylene welding, brazing, soldering, surfacing, and cutting.

WLD 106 Techniques in Shielded Metal Arc Welding

3 cr, 2 lec, 2 lab

Industrial practices of the shielded metal arc welding process.

WLD 108 Techniques in Gas Tungsten Arc Welding

3 cr, 2 lec, 2 lab

Industrial practices of gas tungsten arc (TIG-Heliarc) welding.

WLD 109 Techniques in Gas Metal Arc Welding

3 cr, 2 lec, 2 lab

Industrial practices of gas metal arc (MIG-Wirefeeders) welding (GMAW).

WLD 123 Manufacturing/ Welding Technology Survey

3 cr, 2 lec, 3 lab

Career development in manufacturing/welding technology. Emphasis on manufacturing, welding, technical vocabulary, materials, industry standards, specifications, industrial safety, technical drawings, basic physical metallurgy, equipment, and codes.

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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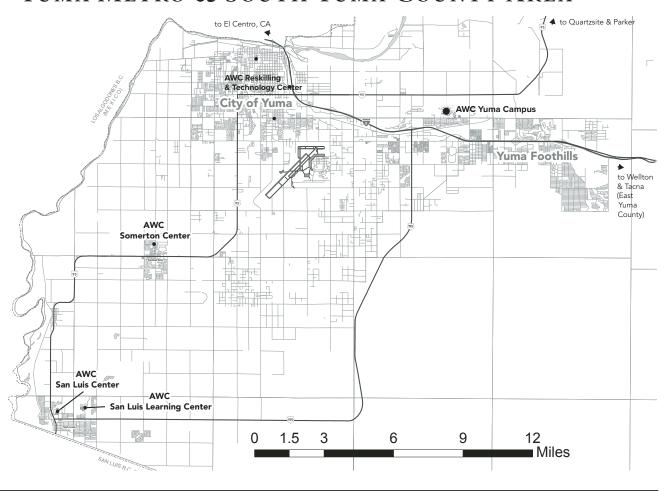
Campus Maps/Centers

Yuma Metro & South Yuma County Area

to El Centro, CA

to Quartzsite & Parker

LOS ALGODONES B.C. (MEXICO)

AWC Reskilling
& Technology Center

City of Yuma

AWC Yuma Campus

Yuma Foothills

to Wellton
& Tacna
(East
Yuma
County)

AWC
Somerton Center

Somerton

AWC
San Luis Center

AWC
San Luis Learning Center

San Luis

SAN LUIS R.C.

0	1.5	3	6	9	12

Miles

East Yuma County Area

Wellton

to Gila Bend

to Yuma

AWC Manufacturing
Training Center

La Paz Area

0 1.5 3   6   9   12
Miles

to Lake Havasu

AWC Parker Learning Center

Parker

Bouse

**AWC
Quartzsite
Learning Center** Quartzsite

to Yuma

Campus Map

to Highway 95

AWC
(928) 317-6000

NAU-Yuma
(928) 317-6000

UA Yuma Academic Center
(928) 271-9560

ASU@Yuma
(928) 263-8529

Emergency Phone Location 🕾 911
In case of EMERGENCY,
push the button—you will automatically be connected to Campus Police.

E Adobe Ridge Road

AWC Loop Road

Ridge Drive

Avenue 8E

North

Otondo Loop Road

Mary A. Otondo Elementary School

Campus Police

formerly TF

24th Street

Castle Dome Middle School

3C	College Community Center (Schoening Conference Center)	**ES**	Educational Services	**PSI**	Public Safety Institute
AB	Art Building	**F**	Fountain	**SC**	Student Success Center (Math & Writing Centers)
AC	Academic Complex	**GA**	Garces Dorm	**SF**	Charlie Dine Softball Field
AF	Athletics Facility	**GH**	Greenhouse Complex	**SO**	Soccer Field
AL	Agriculture Research Lab	**GY**	Gymnasium (The House)	**SR**	NAU Research & Education
AS	Agriculture and Science	**HC**	Heating and Cooling	**T2**	Technology 2 (Welding)
AT	Amphitheater	**KEYS**	KEYS Building (TRIO KEYS Program)	**T3**	Technology 3 (Auto Mechanics & Print Services Lab)
BA	Business Administration	**KI**	Kino Dorm	**T4**	Technology 4 (Computer Graphics)
BF	Kammann Baseball Field	**LA**	Liberal Arts	**TH**	Theater
C 2–5	Cottages 2–5	**LETA**	Law Enforcement Training Academy		Handicap Parking
CD	Child Development Learning Lab	**LR**	Shadle Learning Resources (Academic Library)		Single-use Restrooms (3C, AB, EB, CIE, MAC, SR)
CIE	Center for Instructional Excellence	**MAC**	Matador Activity Center		Exercise Area (AC)
CT	Construction Trades (Construction, HVAC)	**MU**	Music		Charging Stations
DA	DeAnza Dorm	**P1–17**	Parking Lots		
DS	District Services (Campus Police)	**PO**	Pool		
EB	Engineering Building	**PS**	Postal Services		

Campus Centers

Other AWC centers and locations

In addition to the many services provided on the Yuma campus, 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 at a variety of locations. AWC provides local access to college courses and degree programs throughout the two-county area at the following centers and locations.

Yuma County AWC Centers and other Locations
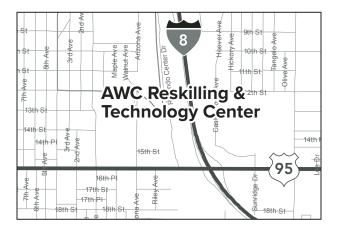
Reskilling & Technology Center

1351 S. Redondo Center Drive
Yuma, AZ 85365
(928) 317-6150

www.azwestern.edu/continuinged

Located near Historic Downtown Yuma, the Reskilling & Technology 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

East Yuma County

Wellton Manufacturing Training Center
28851 County 12ᵗʰ Street
Wellton, AZ 85356
(928) 785-4175

AWC has a Learning Center in Wellton. This center offers classes supporting General Education, Adult Basic Education, and English as a Second Language. The center features the latest technology including video conferencing and computer labs. Classes are taught in person and via Interactive Television Network (ITN). For more information, call the East Yuma County Coordinator at (928) 785-4175.

South Yuma County
(San Luis and Somerton)

San Luis Learning Center
1340 8th Ave.
San Luis, AZ 85349
(928) 314-9449
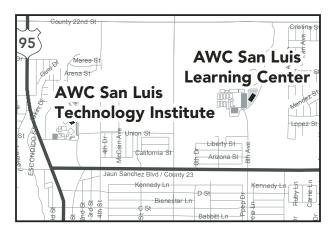
San Luis Technology Institute
1135 N. Main Street
San Luis, AZ 85349
(928) 314-9438
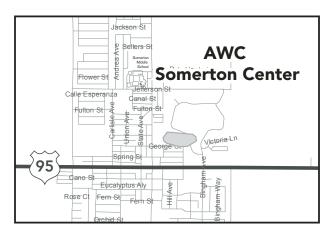
Somerton Center (in the Somerton Middle School)
1011 N. Somerton Avenue
Somerton, AZ 85350
(928) 314-9464

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.

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.

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

Freedom Christian Academy
11750 S. Mesa Dr.
Yuma, Arizona 85367

Harvest Prep Academy
350 E. 18th St.
Yuma, Arizona 85364

PPEP Tec Charter High School
850 San Luis PLaza Dr.
San Luis, AZ 85349

San Luis High School
1250 N. 8th Ave.
San Luis, AZ 85349

Somerton High School
1093 Jefferson St.
Somerton, AZ 85350

Campus Centers

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

Yuma County Sheriff's Office

141 South 3rd Avenue
Yuma, AZ 85365

Yuma High School

400 S. 6th Ave
Yuma, AZ 85364

La Paz County AWC Centers and other Locations

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.

La Paz County Sheriff's Office

1109 Arizona Avenue
Parker, AZ 85344

Parker High School
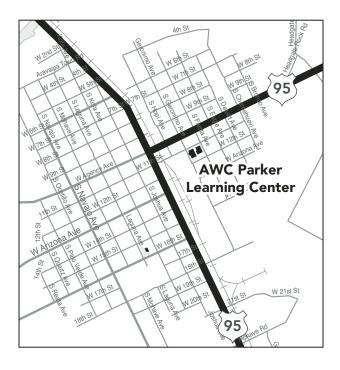
1600 S. Kofa Ave
Parker, AZ 85344

Quartzsite Fire Station

70 Tyson Street
Quartzsite, AZ 85346

Salome High School

67488 Salome Rd.
Salome, AZ 85348

Comprehensive Index

Comprehensive Index

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Notes

Notes

NOTES

www.azwestern.edu