2022-2023 Cochise College Catalog Addendum

THE PROVISIONS OF THIS CATALOG REFLECT INFORMATION AS OF THE DATE OF

PUBLICATION.NOTICE:

The contents of this addendum supersede the content specified in the 2022-2023 catalog where noted. Contents ofthe 2022-2023 catalog not revised in this addendum remain in effect. The unrevised content of the 2022-2023 catalog and the revised content of this addendum are valid for the 2022-2023 academic year.

Table of Contents

2022-2023 Academic Year

*For residence hall questions, please contact Cochise College Housing & Residential Life

SUMMER 2022

Eight-Week Session:	*May 31 - July 25*
Last day to add classes	May 30
Last day to change to withdraw or audit status	July 19
Grades due by noon	July 28
Financial Aid:	
Summer freeze date*	June 8
Summer disbursement date	June 9
Last day to accept summer financial aid applications	June 13
* Financial aid will not pay for classes added after this date.	
Holidays (no classes):	
Memorial Day	May 30
Juneteenth Observed	June 20
Independence Day Observed	July 4

Fall 2022

Police Academy 20-Week Semester	July 25-Dec 8
Flight 21-Week Semester	July 25-Dec 16
Flight & Police Academy freeze date*	August 2
Flight & Police Academy disbursement date	August 3
Convocation (offices closed)	August 15
Spring registration begins	November 1
16-Week Semester:	*Aug. 22 - Dec. 15*
Last day to add/drop wo/penalty	August 26
Tuition/Course liability begins	August 29
Last day to withdraw or change to audit status	December 2
Finals (including Saturday)	Dec. 9 - 15
Grades due by noon	December 21
First Eight-Week Session:	*Aug. 22 - Oct. 18*
Last day to add/drop wo/penalty	August 24
Tuition/Course liability begins	August 25
Last day to withdraw or change to audit status	October 12
Grades due by noon	October 21
Second Eight-Week Session:	*Oct. 24 - Dec. 15*
Last day to add/drop wo/penalty	October 26
Tuition/Course liability begins	October 27
Last day to withdraw or change to audit status	December 9

Grades due by noon	December 21
Financial Aid:	
16-week and First Eight-Week freeze date*	August 30
16-week and First Eight-Week disbursement date	August 31
Second Eight-Week freeze date*	November 1
Second Eight-Week disbursement date	November 2
* Financial aid will not pay for classes added after this date.	
Holidays (no classes):	
Labor Day	September 5
Columbus Day/Indigenous Peoples Day	October 10
Veterans Day Holiday Observed	November 11
Thanksgiving recess	Nov. 24 – Nov. 25
Winter break (all staff)	Dec. 26 - Jan. 6

Spring 2023

Police Academy 20-Week Semester	January 9-May 25
Flight 21-Week Semester	Jan 17 –June 9
Summer and Fall registration begins	April 10
Commencement	May 12
16-Week Semester:	*Jan. 17- May 11*
Last day to add/drop wo/penalty	January 20
Tuition/Course liability begins	January 23
Last day to withdraw or change to audit status	April 27
Finals (including Saturday)	May 4 - 10
Grades due by noon	May 15
First Eight-Week Session:	*Jan. 17 - March 10*
Last day to add/drop wo/penalty	January 18
Tuition/Course liability begins	January 19
Last day to withdraw or change to audit status	March 6
Grades due by noon	March 13
Second Eight-Week Session:	*March 20 – May 10*
Last day to add/drop wo/penalty	March 22
Tuition/Course liability begins	March 23
Last day to withdraw or change to audit status	May 5
Grades due by noon	May 15
Financial Aid:	
Police Academy freeze date*	January 17
Police Academy distribution date	January 18
Flight freeze date*	January 25
Flight disbursement date	January 26
16-Week and First Eight-Week freeze date*	January 25
16-Week and First Eight-Week disbursement date	January 26

Second Eight-Week Session freeze date*	March 28
Second Eight-Week Session disbursement date	March 29
* Financial aid will not pay for classes added after this date.	
Holidays (no classes):	
Martin Luther King Day	January 16
Lincoln/ Washington/Presidents' Day	February 20
Spring Break	March 13 - 17

Summer 2023

Summer business hours	May 15 - Aug. 11
Eight-Week Session	May 30-July 24
Last day to add/drop wo/penalty	June 2
Tuition/Course liability begins	June 5
Last day to change to withdraw or audit status	July 19
Grades due by noon	July 27
Financial Aid:	
Summer freeze date*	June 7
Summer disbursement date	June 8
Last day to accept summer financial aid applications	June 12
Financial aid will not pay for classes added after this date.	
Holidays (no classes):	
Memorial Day	May 29
Juneteenth Holiday	June 19
Independence Day	July 4

Services for Students

POLICIES

Veterans Administration Compliance

Procedure: 4019.2 Covered Individuals A covered individual is any individual who is entitled to educational assistance under chapter 31, Vocational Rehabilitation and Employment, or chapter 33, Post-9/11 GI Bill® benefits.

"GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA)."

Areas of Study

Aviation

Professional Pilot Technology - Associate of Applied Science (Major Code - PPT)

The Professional Pilot Technology Associate of Applied Science degree is certified under Part 141 by the Federal Aviation Administration (FAA certificate HR8S200Q) regulations. The program provides students with the knowledge, skills, and ratings necessary to become a professional pilot. Areas of study include single-engine, multi-engine, flight instructor, and airline transport. All ratings are offered, and students may enter the program with, or without, prior flight training or certificates. For those with prior training, placement in the flight portion of the program will depend upon a skills analysis when they enter the program. A normal course of study will progress from the private pilot certificate to an FAA-certificated Commercial Pilot, single and multi-engine rated.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Demonstrate the knowledge and skills needed to safely exercise the privileges and responsibilities of a commercial/instrument pilot acting as pilot-in-command of a multi-engine airplane.
- Demonstrate the knowledge and skills needed to pass the Commercial Pilot Certificate, multi-engine land rating, as outlined in the appropriate FAA Practical Test Standards and Federal Aviation Regulations.
- Identify aircraft design, engine design, airport and aviation support facilities, and the practical economics of airline operations as they support the air transportation industry.
- Apply knowledge of air traffic control (ATC) technology and terminology, career requirements, components, and the function of the National Airspace System and Terminal.
- Demonstrate an understanding of en route ATC facilities as they support the ATC system.
- Identify aviation ground operations, technical operations, flight operations, and system operations as they support airline operations and management.
- State highlights in the history of aviation from its very beginnings to current endeavors.
- Explain pilot psychology, physiology, human factors, aircraft technology, crew resource management, and accident review and investigation as they relate to aspects of aviation safety.

PREREQUISITE OR COREQUISITE

This program requires PFT 100 Introduction to Aviation (1 credit)

GENERAL EDUCATION REQUIREMENTS 18-19 CREDITS

Composition 6 credits

ENG 101	Composition	3
ENG 102	English Composition	3

Mathematics 3-4 credits

MAT 132	Applied Mathematics or higher (3-4 credits)	3-4

Liberal Arts 6 credits

Technology Literacy 3 credits

CIS 116	Computer Essentials	3
	OR	
CIS 120	Introduction to Information Systems	3

CORE CURRICULUM 43-52 CREDITS

PFT 101	Private Pilot Ground School	5
PFT 105	Crew Resource Management - Flight	2
PFT 111	Solo Flight Preparation	3.5
PFT 112	Cross-Country Navigation	1.5
PFT 113	Private Pilot Certification	1
PFT 121	Commercial Flight I	3
PFT 122	Aviation Weather	3
PFT 130	Commercial Pilot Ground School	5
PFT 131	Commercial Flight II	3
PFT 204	Instrument Rating Ground School	5
PFT 206	Aircraft Systems	3
PFT 214	Instrument Rating Flight I	3.5
PFT 215	Instrument Rating Flight II	1.5
PFT 218	Commercial Flight III	1

MULTI-ENGINE CONCENTRATION:

PFT 210	Multi-Engine Rating Ground School	1
PFT 211	Multi-Engine Rating Flight	1

OR

FLIGHT INSTRUCTOR CONCENTRATION

PFT 230	Flight Instructor - Fundamentals Ground School	3
PFT 231	Flight Instructor - Airplane Ground School	5
PFT 235	Flight Instructor - Airplane Stage I	1.5
PFT 236	Flight Instructor - Airplane Stage II	1.5

OR

AIRLINE CAREER CONCENTRATION

PFT 210	Multi-Engine Rating Ground School	1
PFT 211	Multi-Engine Rating Flight	1
PFT 230	Flight Instructor - Fundamentals Ground School	3
PFT 231	Flight Instructor - Airplane Ground School	5
PFT 235	Flight Instructor - Airplane Stage I	1.5
PFT 236	Flight Instructor - Airplane Stage II	1.5

ELECTIVES (AS NEEDED TO COMPLETE 64 CREDITS)

TOTAL DEGREE REQUIREMENTS 64-71 CREDITS

Health Sciences
Allied Health

Basic Behavioral Health Sciences - Certificate (Major Code - BHS)

The Basic Behavioral Health Sciences Certificate program is designed to provide students with a foundational study of human behavior and prepare them to assist, as part of a clinical team, in the care of individuals and families dealing with mental illness, comorbid medical conditions, and challenging behaviors. The program includes courses designed to provide students with the skills necessary to deliver essential behavioral health and social services.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Distinguish among the roles, functions, and responsibilities, of various mental health professions.
- Assess the comprehensive bio-psycho-social needs of diverse client populations in behavioral health and social service settings.
- Implement methods to resolve current symptoms and prevent future effects of burnout, traumatic stress, and compassion fatigue.
- Manage individual cases, as part of a multidisciplinary team, in a fashion that best serves the patient and simultaneously protects the practitioner.
- Develop, implement, and document treatment plans in collaboration with a multidisciplinary team.
- Evaluate and practice evidence-based behavioral health interventions using assessment and outcome measures.
- Demonstrate ethical interpersonal and communication skills important in establishing and maintaining relationships.

CORE CURRICULUM 13 CREDITS

BHS 150	Introduction to Behavioral Health and Social Services	3
BHS 151	Ethical, Legal and Professional Issues in Behavioral Health and Social Services	3
BHS 152	Applied Therapeutic Communication Skills	3
BHS 153	Case Management and Clinical Documentation	3
HLT 111	CPR and First Aid	1

TOTAL CERTIFICATE REQUIREMENTS 13 CREDITS

EKG Technician - Certificate (Major Code - EKGT)

This program will prepare the student to administer EKG examinations and report results to the treatment team. The program includes basic anatomy and physiology instruction, the cardiovascular system, medical terminology, cardiovascular medications and effects, patient care, EKG equipment operation and maintenance, interpretation of cardiac rhythm, patient record management, and professional standards and ethics.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Demonstrate foundational knowledge of health assessment, differential diagnosis, clinical pathways, medical documentation, ethical decision-making, and medical policies and procedures.
- Perform 12-lead torso placement EKGs.
- Interpret EKG results and notify the provider appropriately.
- Qualify to take the National Healthcareer Association Certification Exam, which leads to national certification.

CORE CURRICULUM 5 CREDITS

HLT 111	CPR and First Aid	🧪	1
HLT 124	EKG Technician	🧪	4

TOTAL CERTIFICATE REQUIREMENTS 5 CREDITS

Phlebotomy Technician - Certificate (Major Code - PTTC)

Phlebotomy Technicians are in demand. This certificate prepares the student to take a national certification examination by giving them the knowledge and skills necessary to perform phlebotomy techniques correctly and safely. Once the student has passed this examination, they obtain national certification as a Phlebotomy Technician.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Perform safe and accurate venipuncture and capillary puncture.
- Perform Clinical Laboratory Improvement Amendments (CLIA) Waived tests.
- Perform urinalysis and obtain throat and nasal specimens.
- Accurately record results in healthcare records.

- Qualify to take the National Healthcareer Association (NHA) Phlebotomy Technician Certification Examination.

CORE CURRICULUM 6 CREDITS

HLT 111	CPR and First Aid	⚗	1
HLT 125	Phlebotomy Technician		5

TOTAL CERTIFICATE REQUIREMENTS 6 CREDITS

First Responders

Communications Officer - Certificate (Major Code – COC)

This certificate is necessary due to the need for public safety dispatchers. The current hiring process is 6-12 months and requires substantial downtime between steps. The Communications Officer Certificate will greatly reduce that time requirement and provide qualified dispatchers in a six-week timeframe.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Collect, analyze, and interpret data for presentation.
- Articulate a comprehensive review of the public safety communications officer's duties, responsibilities, tasks, confidentiality parameters, and legal issues.
- Identify the different circumstances dispatchers and emergency response agencies communicate with the public.
- Utilize various dispatch equipment and programs.
- Understand the impact of wellness, stress management, professionalism, ethics, and self-determination on the dispatcher and the public.

CORE CURRICULUM 6 CREDITS

AJS 103   Communications Officer Training   6

TOTAL CERTIFICATE REQUIREMENTS 6 CREDITS

Industry and Career Technical Education

Automotive

Commercial Driver License Training - Certificate (Major Code - CDL)

The Commercial Driver License (CDL) program is designed to prepare the student to become an entry-level commercial truck driver. It provides the basic foundation of Arizona state CDL law, safe operating practices, vehicle control, and general driving.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Demonstrate competency in basic driving maneuvers, including backing skills.
- Demonstrate the necessary level of driving proficiency in road conditions to obtain a Commercial Driver License, Class A.
- Identify safe operating practices when performing a pre-trip inspection and citing safety hazards while driving.
- Interpret and apply US Department of Transportation (DOT) regulations necessary to obtain a Class A, CDL permit and license.

CORE CURRICULUM 12 CREDITS

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 CERTIFICATE REQUIREMENTS 12 CREDITS

Culinary Arts

Chef Patissier – Baker's Apprentice - Certificate (Major Code - BKRA)

The Chef Patissier – Baker's Apprentice Certificate provides training in the principles of professional baking, food and beverage control, and restaurant sanitation. It is intended for those with a background in cooking who wish to become an assistant baker and work in a bakery. ***Program deleted effective Spring 2023. No new students being admitted.***

Culinary Arts - Associate of Applied Science (Major Code - CUL)

The Culinary Arts Associate of Applied Science degree provides training in the culinary arts for the purpose of direct employment in the field of professional cooking as an assistant to the chef or to the food and beverage director. ***Program suspended effective Spring 2023. No new students being admitted.***

Sous Chef Apprentice - Certificate (Major Code - SCCA)

The Sous Chef Apprentice Certificate provides training in all areas of professional cooking including food and beverage control, restaurant sanitation, meat cutting, gourmet preparations, baking, and garde manger. It also provides field experience in restaurant and dining-service perations. ***Program deleted effective Spring 2023. No new students being admitted.***

Welding

Aerospace Welding Technology - Certificate (Major Code - AEWT)

The Aerospace Welding Technology Certificate prepares students for entry-level welding jobs in industries such as aviation, aerospace, motorsports, and exotic material fabrication. It provides the knowledge and skills required for certification under American Welding Society (AWS) or Military Standard (MIL-STD) welding codes.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Perform entry-level welding skills required in aerospace and automotive industries.
- Model appropriate safety procedures.
- Examine welds for discontinuities and defects using current visual inspection practices.
- Complete basic welding operations using appropriate gas tungsten arc welding processes on various metals based on the American Welding Society (AWS) D17.1 codebook.
- Determine corrective practices to repair defects in the weld.
- Establish foundational soft skills relevant to the industry.

CORE CURRICULUM 19 CREDITS

WLD 101	Welding Survey	4
WLD 105	Oxyacetylene Welding	3
WLD 201	Welding Code Interpretation of D17.1	1

WLD 203	Print Interpretation	4
WLD 209	Gas Tungsten Arc Welding🧪	3
WLD 219	Advanced GTAW - Hard Metals🧪	2
WLD 220	Advanced GTAW - Exotic Metals🧪	2

TOTAL CERTIFICATE REQUIREMENTS 19 CREDITS

Welding D1.1 SMAW - Certificate (Major Code - WSM)

The Welding D1.1 Shielded Metal Arc Welding (SMAW) certificate prepares students for entry-level welding jobs in the structural industry. It provides the knowledge and skills required for certification under the American Welding Society (AWS) D1.1 code.

Learning Outcomes

Students who successfully complete this program will be will be able to do the following:

- Perform entry-level welding skills required in the structural industry.
- Demonstrate safe work habits when operating welding equipment.
- Examine welds for discontinuities and defects using current visual inspection practices.
- Complete basic welding operations using the appropriate shielded metal arc welding process
- based on the American Welding Society (AWS) D1.1 codebook.
- Evaluate and repair defects in the weld.
- Establish foundational industry-relevant soft skills.

CORE CURRICULUM 17 CREDITS

Courses

WLD 101	Welding Survey🧪	4
WLD 105	Oxyacetylene Welding🧪	3
WLD 106	Basic Shield Metal Arc Welding🧪	3
WLD 200	Code Interpretation of D1.1	1
WLD 203	Print Interpretation	4
WLD 227	Advanced Shield Metal Arc Welding🧪	2

TOTAL CERTIFICATE REQUIREMENTS 17 CREDITS

Welding Motorsports - Certificate (Major Code - WMS)

The Welding Motorsports Certificate prepares students for entry-level careers in the motorsports industry. It provides the knowledge and skills required for certification under the American Welding Society (AWS) code.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Perform entry-level welding skills required in tube-related industries.
- Model appropriate safety procedures.
- Examine welds for discontinuities and defects using current visual inspection practices.
- Complete basic welding operations using appropriate gas tungsten arc welding processes on various materials based on the American Welding Society (AWS) D17.1 codebook.
- Determine corrective practices to repair defects in the weld.
- Establish foundational industry-related soft skills.

CORE CURRICULUM 22 CREDITS

Courses

AUT 101	Introduction to Automotive Technology	3
WLD 101	Welding Survey	4
WLD 105	Oxyacetylene Welding	3
WLD 201	Welding Code Interpretation of D17.1	1
WLD 203	Print Interpretation	4
WLD 209	Gas Tungsten Arc Welding	3
WLD 218	Advanced GTAW - Soft Metals	2
WLD 219	Advanced GTAW - Hard Metals	2

TOTAL CERTIFICATE REQUIREMENTS 22 CREDITS

Welding Pipe and Fitting - Certificate (Major Code - WPF)

The Welding Pipe and Fitting Certificate prepares students for entry-level welding jobs in the pipe industry. It provides the knowledge and skills required for certification under the American Petroleum Institute (API) and the American Society of Mechanical Engineers (ASME) standards/codes.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Perform entry-level welding skills required in pipe industries.
- Model appropriate safety procedures.
- Examine welds for discontinuities and defects using current visual inspection practices.
- Complete basic welding operations using the appropriate shielded metal arc welding process based on the American Petroleum Institute (API) 1104 standard and American Society of Mechanical Engineers (ASME) IX codebook.
- Determine corrective practices to repair defects in the weld.
- Establish foundational industry-relevant soft skills.

CORE CURRICULUM 23 CREDITS

Courses

WLD 101	Welding Survey	4
WLD 105	Oxyacetylene Welding	3
WLD 106	Basic Shield Metal Arc Welding	3
WLD 203	Print Interpretation	4
WLD 211A	Pipe Welding I	3
WLD 211B	Pipe Welding II	3
WLD 217	Introduction to Pipe Welding	3

TOTAL CERTIFICATE REQUIREMENTS 23 CREDITS

Welding Technology - Associate of Applied Science (Major Code - WLD)

The Welding Technology Associate of Applied Science degree is designed to prepare students to enter the workforce in almost any facet of the diverse field of welding technology. It addresses the needs of beginners as well as those of experienced welders looking to upgrade their skills and certifications.

Learning Outcomes

Students who successfully complete this program will be able to do the following:

- Perform entry-level welding skills required in the pipe, fabrication, and structural industries.
- Model appropriate safety procedures.
- Examine welds for discontinuities and defects using current visual inspection practices.
- Complete basic welding operations using appropriate shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux-cored arc welding (FCAW), gas tungsten arc welding (GTAW) based on the American Petroleum Institute (API) 1104 standard, the American Society of Mechanical Engineers (ASME) IX codebook, and the American Welding Society (AWS) D1.1 code.
- Determine corrective practices to repair defects in the welds.
- Interpret prints and welding symbols in the welding industry.
- Establish foundational industry-relevant soft skills.

GENERAL EDUCATION REQUIREMENTS 15-16 CREDITS

Composition 6 credits

ENG 101	Composition	3
ENG 102	English Composition	3
	OR	
COM 102	Essentials of Communication	3
	OR	
CIS 179	Applied Technical Writing	3

Mathematics 3 credits

MAT 132	Applied Mathematics	3
	or higher (3-4 credits)	

Liberal Arts 3 credits

Technology Literacy 3 credits

CIS 116	Computer Essentials	3
	OR	
CIS 120	Introduction to Information Systems	3

*ENG 102 is transferable to Arizona four-year institutions as a general education requirement.

**COM 102 is not transferable to Arizona four-year institutions as a general education composition requirement.

*** CIS 179 is not transferable to Arizona four-year institutions as a general education requirement.

CORE CURRICULUM 45 CREDITS

DFT 150	Fundamentals of AutoCAD	3
WLD 101	Welding Survey	4
WLD 105	Oxyacetylene Welding	3
WLD 106	Basic Shield Metal Arc Welding	3
WLD 108	Introduction to Pipe Welding	3
WLD 128	Gas Metal Arc Welding	3
WLD 200	Welding Code Interpretation of D1.1	1
WLD 201	Welding Code Interpretation of D17.1	1

WLD 203	Print Interpretation	4
WLD 209	Gas Tungsten Arc Welding	3
WLD 211A	Pipe Welding I	3
WLD 211B	Pipe Welding II	3
WLD 215	Welding Design and Fabrication	3
WLD 219	Advanced GTAW - Hard Metals	2
WLD 227	Advanced Shield Metal Arc Welding	2
WLD 228	Advanced Gas Metal Arc Welding	2
WLD 229	Advanced Flux-Cored Arc Welding	2

TOTAL DEGREE REQUIREMENTS 60-61 CREDITS

Courses

AJS Administration of Justice

AJS 204 *Elements of Intercultural Communication* (3): Course deleted effective spring, 2023.

BHS Behavioral Health and Social Services

BHS 150 *Introduction to Behavioral Health and Social Services* (4): This course offers a survey of the behavioral health and social services professions, including scope of practice and training requirements and exploration of employment opportunities in the field, and self-assessment/academic planning for a career in mental health. An overview of mental health disorders and first responder skills in a mental health crisis situation is taught during the course.

BHS 151 *Ethical, Legal and Professional Issues in Behavioral Health and Social Services* (3): This course teaches relevant ethical, legal, and professional issues inherent in the behavioral health and social services field, including expectations of and limitations on providers. Key areas in inquiry include boundaries and dual relationships, mandated reporting, confidentiality, scope of practice, beneficence and non-maleficence, rights and responsibilities, professional relationships, and credentialing/regulating agencies.

BHS 152 *Applied Therapeutic Communication Skills* (3): This course teaches the theory and practice of communication skills to establish and maintain effective helping relationships and enhance the therapeutic alliance. Emphasis on verbal communication, nonverbal communication, paraverbal communication, rapport building, empathetic and active listening skills, resolving interpersonal conflicts, appropriate feedback, and developing and maintaining professional relationships.

BHS 153 *Case Management and Clinical Documentation* (3): This course provides an overview and application of the principles, practices, and functions of case management in human services; case management service delivery and coordination for clients with psychological, developmental, psychiatric, and comorbid medical conditions; and documentation techniques necessary to maintain clinical records in a variety of behavioral healthcare settings.

BIO – Biology

BIO 181 *General Biology I (for majors)* (4): This course is a study of the structure and function of living things at the molecular, cellular, and organismic levels of organization. Topics include cell structure, metabolism, reproduction, genetics, and evolution.

BIO 182 *General Biology II* (4): This course is a continuation of general biology for majors. Topics include the evolution, biodiversity, and ecology of multicellular organisms. *This course is offered in the spring term only.*

CDL – Commercial Driver License

CDL 101 *Introduction to Arizona CDL* (3): This entry level CDL course is designed to introduce the student to different aspects of general knowledge for the trucking industry. Upon passing the Arizona Department of Transportation written exam, the student will receive an Instruction Permit

for training.

CDL 102 *Safe Operating Practices* (3): This course is designed to familiarize the student with the basic backing and driving skills needed to pass the Skills Test and Road Test for the AZ CDL license.

CDL 103 *Vehicle Control* (3): This course is designed to further the students' driving skills along with the review and practice of skills previously learned.

CDL 104 *General Driving and Testing* (3): This is the final course in the CDL certificate program. It is designed to provide final preparation for the student to pass the Arizona Commercial Driver License (CDL) exam.

ECE Early Childhood Education

ECE 160 *Early Childhood Growth and Development* (3): This course addresses growth and development from conception to middle childhood with implications for childcare providers and primary school teachers. Includes brain development, the role of genetics and environment, a variety of learning needs and unique personalities, collaboration, and public policy.

ENG English

ENG 101 *Composition* (3): This composition course is a study of and practice of the process of writing, methods of organization, and expository patterns. Students write a documented paper based on library and other sources.

ENG 101 L *Composition with Support Lab* (3): This composition course is a study of and practice in the process of writing, methods of organization, and expository patterns. Students write a documented paper based on library and other sources. Additionally, this course offers corequisite support, providing students with extended instruction in college-level composition. This course is equivalent to ENG 101 but includes the addition of corequisite support.

ESL – English as a Second Language

ESL 012 *ESL Reading I* (3): This course is an introduction to basic reading skills for beginning to high-beginning students whose native language is not English. The emphasis in this course is on vocabulary development, comprehension, and structure.

ESL 014 *ESL Writing I* (3): This course is an introduction to basic English writing skills for beginning to high-beginning students whose native language is not English. The emphasis in this course is on writing paragraphs about simple topics using specific tenses.

ESL 016 *ESL Oral Communication I* (3): This class is an introduction to oral communication skills in English for beginning to high-beginning students whose native language is not English. The emphasis in this course is on vocabulary, pronunciation, and basic listening and speaking skills.

ESL 022 *ESL Reading II* (3): This course is a continuation of basic reading skills and strategies for high-beginning to low-intermediate students whose native language is not English. The emphasis in this course is on vocabulary development, comprehension, and structure.

ESL 024 *ESL Writing II* (3): This course is a continuation of basic English writing skills and

strategies for high-beginning to low-intermediate students whose native language is not English. The emphasis in this course is on topic sentences, paragraph development, and organization.

ESL 026 *ESL Oral Communication II* (3): This course is a continuation of oral communication skills in English for high-beginning to low-intermediate students whose native language is not English. The emphasis in this course is on additional vocabulary, pronunciation, listening, and speaking skills.

ESL 032 *ESL Reading III (*3): This course is a review of reading skills and strategies for low-intermediate to intermediate students whose native language is not English. The emphasis in this course is on vocabulary development, comprehension, structure, and basic study skills.

ESL 034 *ESL Writing III* (3): This course is a review of English writing skills and strategies for low-intermediate to intermediate students whose native language is not English. The emphasis in this course is on multi-paragraph development leading to short essays with clearly stated theses.

ESL 036 *ESL Oral Communication III* (3): This course is a review of oral communication skills and strategies for low-intermediate to intermediate students whose native language is not English. The emphasis in this course is on more advanced vocabulary, pronunciation, and listening and speaking skills.

GEO Geography

GEO 121 *World Regional Geography* (3): This course explores major world geographical regions emphasizing human cultural adaptation to the physical habitat.

HLT Health Technology

HLT 111 *CPR and First Aid* (1): Training in cardiopulmonary resuscitation and basic first aid for healthcare providers in compliance with American Heart Association requirements. CPR and first aid cards for healthcare providers are awarded upon successful course completion.

HLT 124 *EKG Technician* (3): This course will prepare the learner to administer EKG examinations and report results to the treatment team. This course includes instruction in basic anatomy and physiology, the cardiovascular system, medical terminology, cardiovascular medications and effects, patient care, EKG equipment operation and maintenance, interpretation of cardiac rhythm, patient record management, and professional standards and ethics.

HLT 125 *Phlebotomy Technician* (3): Students who complete this course successfully will be able to perform safe and accurate venipuncture and capillary puncture and record results in healthcare records. Upon successful completion of this course, students are eligible to take the National Health Care Career Association (NHA) Phlebotomy Technician Certification Examination.

HLT 139 *Medical Assistant I* (8): This course teaches the concepts, skills, and terminology necessary for a medical assistant. Emphasis is on entry-level administrative skills and clinical functions required in a medical office, and on communication skills for patient care assessment. The laboratory portion of the course simulates various situations in which students learn the specific skills needed in a medical office.

HON Honors

HON 223 Leadership Development Studies (3): The course provides emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills. Through study, observation, and practical application, students will understand leadership theory and develop an awareness of the moral and ethical responsibilities of leadership.

WLD Welding

WLD 101 *Welding Survey* (4): This course is a practical application of major welding practices to include shield metal arc, gas metal arc, gas tungsten, oxyacetylene, brazing, and soldering processes. The course also covers welding metallurgy, weldment design and inspection, manufacturing of materials and safety.

WLD 108 *Introduction to Pipe Welding* (3): This course is a continued study of the shield metal arc welding process. Topics include safety, equipment care and operation, and welding rod and current selection. Students perform out-of-position welding of heavy steel plate in open root configuration in preparation for welding pipe to API 1104 standards. Additional topics include layout methods and the fitting and welding of various sizes and types of pipe.

WLD 211A *Pipe Welding I* (3): This course involves fitting and welding various sizes of pipe according to the standards of the American Welding Society (AWS) and the American Petroleum Institute (API). Students weld pipe using the shield metal arc welding (SMAW) process in preparation for certification through API 1104 standards.

WLD 211B *Pipe Fitting and Welding* (3): This course is an overview of the fitting and welding of various sizes of pipe according to the standards of the American Welding Society (AWS) and the American Petroleum Institute (API). Students weld pipe using the shield metal arc welding (SMAW) process.