

COPPER MOUNTAIN COLLEGE
2021-2022
ASSOCIATE DEGREE NON-TRANSFER

M	IP	N	<p>The pattern below meets the associate general education degree requirements for graduation from Copper Mountain College. A total of 60 degree applicable units, including major requirements and General Education requirements are required for the Associate Degree. At least a 2.0 (“C”) grade point average is required in all courses applicable to the associate degree. All courses that count toward the Associate Degree major or area of emphasis must be satisfactorily completed with grades of A, B, C, or P. (Title 5, 55063).</p> <p>LEGEND: <i>Courses without prerequisites are italicized</i> *Courses that appear in multiple areas below, can only be counted in one area. +Transfer credit may be limited by UC, CSU or both. Consult with a counselor. M = Met/Completed IP = In Progress N = Need to Complete</p>		
			AREA C1 NATURAL SCIENCES 3 Semester units minimum		
			A 001 <i>Descriptive Astronomy</i> (3) A 001L <i>Descriptive Astronomy Lab</i> (1) ANTH 001 <i>Introduction to Physical Anthropology</i> (3) BI 004 <i>Elements of Biology</i> (3) BI 004L <i>Elements of Biology Lab</i> (1) BI 005 <i>Molecular & Cellular Biology</i> (5) (Effective Fall 2013) BI 006 <i>Biology of Organisms</i> (5) (Effective Fall 2013)	BI 015 <i>General Microbiology</i> (5) BI 022 <i>Human Anatomy</i> (4) BI 023 <i>Human Physiology</i> (5) CH 001A <i>General Chemistry</i> (5) CH 001B <i>General Chemistry</i> (5) CH 003 <i>Introductory General Chemistry</i> (4) G 001 <i>Physical Geology</i> (4)	G 005 <i>Environmental Geology</i> (4) G 010 <i>The Earth Sciences</i> (4) GEOG 001 <i>Physical Geography</i> (3) NR 001 <i>Conservation of Natural Resources</i> (3) PH 001 <i>Introductory Physics</i> (4) PH 004A <i>Physics for Scientists & Engineers</i> (4) PH 004B <i>Physics for Scientists & Engineers</i> (4) PH 004C <i>Physics for Scientists & Engineers</i> (4)
			AREA C2 SOCIAL & BEHAVIORAL SCIENCES 3 Semester units minimum		
			ANTH 002 <i>Cultural Anthropology</i> (3) ANTH 003 <i>Archaeology: An Introduction to Prehistory</i> (3) CD 010 <i>Child Development</i> (4) (Effective Fall 2010) CD 012 <i>Child, Family, & Community</i> (3) (Effective Fall 2012) ^CD 074 <i>Living and Teaching in a Diverse Society</i> (3) (Effective Fall 2021) CJ 001 <i>Introduction to Criminal Justice</i> (3) CJ 002 <i>Criminal Law</i> (3) (Effective Spring 2011) CJ 010 <i>Juvenile Delinquency</i> (3) (Effective Spring 2011) CJ 032 <i>Introduction to Criminology</i> (3) (Effective Spring 2011) ECON 001 <i>Principles of Macroeconomics</i> (3) ECON 002 <i>Principles of Microeconomics</i> (3) ^EGSJ 014 <i>Introduction to Race and Ethnicity</i> (3) ^EGSJ 020 <i>Native American Studies</i> (3) ^EGSJ 074 <i>Living and Teaching in a Diverse Society</i> (3)	GEOG 002 <i>Cultural Geography</i> (3) GEOG 007 <i>World Regional Geography</i> (3) (Effective Fall 2015) HS 001 <i>Personal and Community Health</i> (3) HS 013 <i>General Nutrition</i> (3) HIST 003 <i>History of World Civilizations I</i> (3) HIST 004 <i>History of World Civilizations II</i> (3) HIST 017 <i>U.S. History Through Reconstruction</i> (3) HIST 018 <i>U.S. History from Reconstruction to Present</i> (3) HIST 019 <i>California History</i> (3) ^HIST 020 <i>Native American Studies</i> (3) PHIL 013 <i>Perspectives on Death & Dying</i> (3) PS 001 <i>Introduction to Government</i> (3) PS 002 <i>Introduction to Comparative Governments.</i> (3)	PS 004 <i>Introduction to International Relations</i> (3) PSY 001 <i>General Psychology</i> (3) PSY 003 <i>Developmental Psychology</i> (3) PSY 012 <i>Human Sexuality</i> (3) (Effective Fall 2013) PSY 033 <i>Personal & Social Adjustment</i> (3) SOC 001 <i>Introduction to Sociology</i> (3) SOC 002 <i>Social Problems</i> (3) *SOC 010 <i>Introduction to Marriage & Family</i> (3) ^SOC 014 <i>Introduction to Race and Ethnicity</i> (3) STDV 65 <i>College and Personal Success</i> (3) (Effective Fall 2018) ^ CD 074 and EGJS 074; HIST 020 and EGJS 020; SOC 014 and EGJS 014 are comparable courses. Therefore, credit is awarded for only one course.

AREA C3 HUMANITIES			
3 Semester units minimum			
M	IP	N	
			<p>ART 003A <i>Introduction to Two-Dimensional Design</i> (3)</p> <p>ART 010 <i>Introduction to Art</i> (3)</p> <p>ART 033 <i>History of Photography</i> (3)</p> <p>ART 050 <i>History of Western Art: Prehistory - Middle Ages</i> (3)</p> <p>ART 051 <i>Western Art History: Renaissance to Contemporary</i> (3)</p> <p>ART 052 <i>History of Art: Modern to Contemporary Art with a Global Perspective</i> (3)</p> <p>ART 053 <i>Intro to the Visual Arts of Non-western Cultures</i> (3)</p> <p>ASL 001* <i>Elementary American Sign Language I</i> (5)</p> <p>ASL 002* <i>Elementary American Sign Language II</i> (5)</p> <p>ASL 003* <i>Intermediate American Sign Language I</i> (4)</p> <p>ASL 004* <i>Intermediate American Sign Language II</i> (4)</p>
			<p>ENG 001B <i>Composition & Literature</i> (3)</p> <p>ENG 010A <i>American Literature I</i> (3)</p> <p>ENG 010B <i>American Literature II</i> (3)</p> <p>ENG 011A <i>Survey of English Literature: Old English to 18th Century</i> (3)</p> <p>ENG 011B <i>Survey of English Literature: Romantic-Postmodernism</i> (3)</p> <p>ENG 012A <i>World Literature I: Beg-1650</i> (3)</p> <p>ENG 012B <i>World Literature II: The Modern World (1650-Present)</i> (3)</p> <p>HIST 003* <i>History of World Civilizations I</i> (3)</p> <p>HIST 004* <i>History of World Civilizations II</i> (3)</p> <p>HIST 017* <i>U.S. History Through Reconstruction</i> (3)</p> <p>HIST 018* <i>U.S. History from Reconstruction to Present</i> (3)</p>
			<p>MUS 005 <i>History of Rock 'N' Roll</i> (3)</p> <p>MUS 010 <i>Introduction to Music</i> (3)</p> <p>PHIL 006 <i>Introduction to Philosophy</i> (3)</p> <p>PHIL 008 <i>Philosophy from Ancient Times to the Renaissance</i> (3)</p> <p>PHIL 012* <i>Religions of the World</i> (3)</p> <p>PHIL 013 <i>Perspectives on Death & Dying</i> (3)</p> <p>PHIL 014 <i>Introduction to Ethics</i> (3)</p> <p>SPAN 001 <i>Elementary Spanish</i> (5)</p> <p>SPAN 002* <i>Elementary Spanish</i> (5)</p> <p>SPAN 003* <i>Intermediate Spanish</i> (4)</p> <p>SPAN 004* <i>Intermediate Spanish</i> (4)</p> <p>TA 001 <i>Introduction to Theatre</i> (3)</p> <p>TA 002 <i>Acting I</i> (3)</p>
AREA C4-LANGUAGE AND RATIONALITY			
1 course from A, 1 course from B			
			A ENGLISH COMPOSITION (1 course 3 – semester units): ENG 003A <i>College Composition</i> (3)
			B COMMUNICATION, MATHEMATICS, AND CRITICAL THINKING (1 course 3 – semester units): MATH 040 <i>Intermediate Algebra</i> (4) or higher; BUMA 012 <i>Personal Finance</i> (3)
AREA C5 TRADITIONS AND CULTURES			
Minimum of 3 semester units.			
			<p>ANTH 001 <i>Introduction to Physical Anthropology</i> (3)</p> <p>ANTH 002 <i>Cultural Anthropology</i> (3)</p> <p>ART 010 <i>Introduction to Art</i> (3)</p> <p>ASL 001,002* <i>Elementary American Sign Language</i> (5)(5)</p> <p>ASL 003, 004* <i>Intermediate American Sign Language</i> (4)(4)</p> <p>^CD 074 <i>Living and Teaching in a Diverse Society</i> (3) (Effective Fall 2021)</p> <p>CJ 005A <i>Community & the Justice System</i> (3)</p> <p>ENG 001B <i>Composition & Literature</i> (3)</p> <p>ENG 010A <i>American Literature I</i> (3)</p> <p>ENG 010B <i>American Literature II</i> (3)</p> <p>ENG 011A <i>Survey of English Literature: Old English to 18th Century</i> (3)</p> <p>ENG 011B <i>Survey of English Literature: Romantic Through Postmodernism</i> (3)</p> <p>ENG 012A <i>World Literature I: Beginnings Through 1650</i> (3)</p>
			<p>ENG 012B <i>World Literature II: The Modern World (1650-Present)</i> (3)</p> <p>^EGSJ 014 <i>Introduction to Race and Ethnicity</i> (3)</p> <p>^EGSJ 020 <i>Native American Studies</i> (3)</p> <p>^EGSJ 074 <i>Living and Teaching in a Diverse Society</i> (3)</p> <p>GEOG 002 <i>Cultural Geography</i> (3)</p> <p>HS 001 <i>Personal & Comm. Health</i> (3)</p> <p>HIST 003 <i>History of World Civilizations I</i> (3)</p> <p>HIST 004 <i>History of World Civilizations II</i> (3)</p> <p>HIST 019 <i>California History</i> (3)</p> <p>^HIST 020 <i>Native American Studies</i> (3)</p> <p>MUS 005 <i>History of Rock 'N' Roll</i> (3)</p> <p>PHIL 006 <i>Introduction to Philosophy</i> (3)</p> <p>PHIL 012 <i>Religions of the World</i> (3)</p> <p>PHIL 013 <i>Perspectives on Death & Dying</i> (3)</p> <p>PHIL 014 <i>Introduction to Ethics</i> (3)</p>
			<p>PS 004 <i>Introduction to International Relations</i> (3)</p> <p>PSY 01 <i>General Psychology</i> (3)</p> <p>^PSY 010 <i>Introduction to Marriage and Family</i> (3)</p> <p>PSY 012 <i>Human Sexuality</i> (3)</p> <p>PSY 033 <i>Personal and Social Adjustment</i> (3) (Effective Fall 2018)</p> <p>SOC 001 <i>Introduction to Sociology</i> (3)</p> <p>SOC 002 <i>Social Problems</i> (3)</p> <p>SOC 004 <i>Sociological Analysis & Critical Thinking</i> (3)</p> <p>^SOC 010 <i>Introduction to Marriage & Family</i> (3)</p> <p>^SOC 014 <i>Introduction to Race & Ethnicity</i> (3)</p> <p>SPAN 001, 002 <i>Elementary Spanish</i> (5) (5)</p> <p>SP 001 <i>Interpersonal Communication</i> (3)</p> <p>SP 002 <i>Oral Interpretation of Literature</i> (3)</p> <p>SP 015 <i>Intercultural Communication</i> (3)</p> <p>And all Languages other than English courses</p> <p>^ CD 074 and EGJS 074; HIST 020 and EGSJ 020; SOC 014 and EGSJ 014; PSY 10 and SOC 10 are comparable courses. Therefore, credit is awarded for only one course.</p>

Fire Technology AA

Semester: Fall

Year:

COURSE	UNITS
FIRE 1	3.00
FIRE 3	3.00
EMR 1	3.00
CIS 70A	3.00
ENG 3A	3.00
TOTAL UNITS	15.00

Semester: Spring

Year:

COURSE	UNITS
FIRE 4	3.00
FIRE 5	3.00
MATH 40	4.00
SP 4	3.00
HS 13	3.00
TOTAL UNITS	16.00

Semester: Fall

Year:

COURSE	UNITS
FIRE 61	3.00
FIRE 6	3.00
PHIL 13	3.00
PHIL 14	3.00
NR 1	3.00
TOTAL UNITS	15.00

Semester: Spring

Year:

COURSE	UNITS
FIRE 2	3.00
FIRE 7	3.00
FIRE 8	3.00
SOC 14	3.00
FIWE 82	3.00
TOTAL UNITS	15.00

FIRE TECHNOLOGY

Copper Mountain College offers courses in the Fire Technology field that will count toward a certificate or Associate of Science Degree. These courses are designed for students who plan to transfer to a four-year institution, gain employment in the fire service, or as a refresher for those individuals currently employed in any area of the fire service. The approved list of courses include those that meet the National Fire Academy Fire & Emergency Service Higher Education (FESHE) core curriculum requirements and include those accredited by the California Fire Service Training and Educational System for State Board of Fire technology certification.

Program Student Learning Outcomes

Upon successful completion of this program students will be able to:

1. Upon completion of the Fire Technology Program, the student will identify minimum qualifications and entry-level skills for fire fighter hiring. The student will be able to describe the following elements: application process; written exam process; physical agility exam, oral interview, chief’s interview; background investigation; and fire fighter probationary process. Students will identify fire service history, culture and diversity. (Institutional SLOs: Personal Development)
2. Upon completion of the Fire Technology Program, the student will demonstrate the ability to analyze, appraise and evaluate fire and emergency incidents and identify components of emergency management and fire fighter safety including: Size-up, report on conditions, Incident Command System; RECEO; 10 Standard Firefighting Orders; 18 Situations that Shout “Watch Out”; and common factors associated with injuries and line of duty deaths. (Institutional SLOs: Communication, Critical Thinking, and Personal Development)
3. Upon completion of the Fire Technology Program, the student will be able to identify and comprehend laws, regulations, codes and standards that influence fire department operations, and identify regulatory and advisory organizations that create and mandate them, especially in the areas of fire prevention, building codes and ordinances, and firefighter health and safety. (Institutional SLOs: Information Competency)
4. Upon completion of the Fire Technology Program the student will be able to analyze the causes of fire, determine extinguishing agents and methods, differentiate the stages of the fire and fire development, and compare methods of heat transfer. (Institutional SLOs: Critical Thinking)
5. Upon completion of the Fire Technology Program, the student will be able to calculate flow requirements for fire apparatus, diagram a pump and plumbing schematic for fire apparatus, and apply mathematic formulae to hydraulics problems. (Institutional SLOs: Critical Thinking)
6. Upon completion of the Fire Technology Program, the student will identify and describe the apparatus used in the fire service, and the equipment and maintenance of fire apparatus and equipment. (Institutional SLOs: Personal Development)
7. Upon completion of the fire technology program, the student will identify and describe common types of building construction and conditions associated with structural collapse and firefighter safety. (Institutional SLOs: Critical Thinking)
8. Upon completion of the Fire Technology Program the student will differentiate between fire detection and fire suppression systems. Student will design and diagram a wet and dry fire protection system, and identify alarm system components and their operations. (Institutional SLOs: Critical Thinking)

ASSOCIATE IN SCIENCE IN FIRE TECHNOLOGY

with emphasis on employment preparation

CERTIFICATE OF ACHIEVEMENT IN FIRE TECHNOLOGY

with emphasis on employment preparation

Dept./No.	Title	Units
Required Courses:		
FIRE 001	Fire Protection Organizations	3
FIRE 002	Fire Prevention	3
FIRE 003	Fire Protection Equipment and Systems	3
FIRE 004	Building Construction for Fire Protection	3
FIRE 005	Fire Behavior and Combustion	3
FIRE 007	Principles of Fire and Emergency Services Safety & Survival	3
EMT 084	Emergency Medical Technician I or	
EMR 001	Emergency Medical Responder	3-6.5
Select at least thirteen (13) units from the following:		
FIRE 006, FIRE 008, FIRE 010, FIRE 058, FIRE 061, FIRE 081, FIRE 084, FIWE 080 - 083		13
Select at least eight (8) units from the following:		
BI 022, BI 023, CH 003, CIS 070A, CJ 003, PHIL 013, SP 004		8
Total Units for the Major		42
CMC General Education Requirement		18
MINIMUM DEGREE UNITS		60
Advisor:	J. Brakebill	

Dept./No.	Title	Units
Required Courses:		
FIRE 001	Fire Protection Organizations	3
FIRE 002	Fire Prevention	3
FIRE 003	Fire Protection Equipment and Systems	3
FIRE 004	Building Construction for Fire Protection	3
FIRE 005	Fire Behavior and Combustion	3
FIRE 007	Principles of Fire and Emergency Services Safety & Survival	3
EMT 084	Emergency Medical Technician I or	
EMR 001	Emergency Medical Responder	3-6.5
Select at least six (6) units from the following:		
FIRE 006, FIRE 008, FIRE 010, FIRE 058, FIRE 061, FIRE 081, FIRE 084, FIWE 080 - 083		6
Select at least three (3) units from the following:		
BI 022, BI 023, CH 003, CIS 070A, CJ 003, PHIL 013, SP 004		3
MINIMUM CERTIFICATE UNITS		30
Advisor:	J. Brakebill	

Students must complete the required courses for their major. General education units, transferable electives, and total degree units will vary for each student. Some considerations include the courses (and their respective units) chosen to complete a general education area or transferable elective, and if required courses for your major also count toward a general education area. Please see your academic counselor to help you reach your education goals. 95