COPPER MOUNTAIN COLLEGE 2021-2022 ASSOCIATE DEGREE NON-TRANSFER

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

				AREA C3 HUMANITITES	
Λ				3 Semester units minimum ENG 001B Composition & Literature (3)	MUS 005 History of Rock 'N' Roll (3)
	IP	N	 ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 033 History of Photography (3) ART 050 History of Western Art: Prehistory - Middle Ages (3) ART 051 Western Art History: Renaissance to Contemporary (3) ART 052 History of Art: Modern to Contemporary Art with a Global Perspective (3) ART 053 Intro to the Visual Arts of Non-western Cultures (3) ASL 001* Elementary American Sign Language I (5) ASL 002* Elementary American Sign Language I (4) ASL 004* Intermediate American Sign Language II (4) 	 ENG 001B Composition & Literature (3) ENG 010A American Literature I (3) ENG 010B American Literature II (3) ENG 011A Survey of English Literature: Old English to 18th Century (3) ENG 011B Survey of English Literature: Romantic-Postmodernism (3) ENG 012A World Literature I: Beg-1650 (3) ENG 012B World Literature II: The Modern World (1650-Present) (3) HIST 003* History of World Civilizations I (3) HIST 004* History of World Civilizations II (3) HIST 017* U.S. History Through Reconstruction (3) HIST 018*U.S. History from Reconstruction to Present (3) 	 MUS 005 History of Rock N Roli (3) MUS 010 Introduction to Music (3) PHIL 006 Introduction to Philosophy (3) PHIL 008 Philosophy from Ancient Times to the Renaissance (3) PHIL 012* Religions of the World (3) PHIL 013 Perspectives on Death & Dying (3) PHIL 014 Introduction to Ethics (3) SPAN 001 Elementary Spanish (5) SPAN 002* Elementary Spanish (5) SPAN 003* Intermediate Spanish (4) SPAN 004* Intermediate Spanish (4) TA 001 Introduction to Theatre (3) TA 002 Acting I (3)
			AR	EA C4-LANGUAGE AND RATIONALITY	
				1 course from A, 1 course from B	
			A ENGLISH COMPOSITION (1 course 3 – semester units): EN	G 003A College Composition (3)	
			B COMMUNICATION, MATHEMATICS, AND CRITICAL	THINKING (1 course 3 – semester units): MATH 040 Intermediate	Algebra (4) or higher; BUMA 012 Personal Finance (3)
			A	REA C5 TRADITIONS AND CULTURES	
				Minimum of 3 semester units.	
			 ANTH 001 Introduction to Physical Anthropology (3) ANTH 002 Cultural Anthropology (3) ART 010 Introduction to Art (3) ASL 001,002* <i>Elementary American Sign Language</i> (5)(5) ASL 003, 004* Intermediate American Sign Language (4)(4) ^CD 074 Living and Teaching in a Diverse Society (3) (Effective Fall 2021) CJ 005A Community & the Justice System (3) ENG 01B Composition & Literature (3) ENG 010B American Literature I (3) ENG 010B American Literature II (3) ENG 011A Survey of English Literature: Old English to 18th Century (3) ENG 011B Survey of English Literature: Romantic Through Postmodernism (3) ENG 012A World Literature I: Beginnings Through 1650 (3) 	 ENG 012B World Literature II: The Modern World (1650-Present) (3) ^EGSJ 014 Introduction to Race and Ethnicity (3) ^EGSJ 020 Native American Studies (3) ^EGSJ 074 Living and Teaching in a Diverse Society (3) GEOG 002 Cultural Geography (3) HS 001 Personal & Comm. Health (3) HIST 003 History of World Civilizations I (3) HIST 004 History of World Civilizations II (3) HIST 019 California History (3) ^HIST 020 Native American Studies (3) MUS 005 History of Rock 'N' Roll (3) PHIL 006 Introduction to Philosophy (3) PHIL 012 Religions of the World (3) PHIL 013 Perspectives on Death & Dying (3) PHIL 014 Introduction to Ethics (3) 	 PS 004 Introduction to International Relations (3) PSY 01 General Psychology (3) APSY 010 Introduction to Marriage and Family (3) PSY 012 Human Sexuality (3) PSY 033 Personal and Social Adjustment (3) (Effective Fall 2018) SOC 001 Introduction to Sociology (3) SOC 002 Social Problems (3) SOC 004 Sociological Analysis & Critical Thinking (3) ASOC 010 Introduction to Marriage & Family (3) ASOC 011 Introduction to Race & Ethnicity (3) SPAN 001, 002 Elementary Spanish (5) (5) SP 001 Interpretation of Literature (3) SP 015 Intercultural Communication (3) And all Languages other than English courses
					^ CD 074 and EGJS 074; HIST 020 and EGSJ 020; SOC 0 and EGSJ 014; PSY 10 and SOC 10 are comparable courses. Therefore, credit is awarded for only one courses.

Automotive Technology

Semester:	Year:	
COURSE		UNITS
AUTO 4 Principles of Auto Te	ech	4.00
AUTO 20 Auto Electrical Sys	5. I	4.00
AUTO 18 Engine Performan	ce I	4.00
AUTO 36 Auto Brake System	าร	4.00
ENG 3A College Composition	on	3.00
TOTAL	UNITS	19.00

Semester: Year:	
COURSE	UNITS
AUTO 35 Steering, Susp., Align.	4.00
AUTO 21 Auto Electrical Sys. II	4.00
AUTO 29 Engine Performance II	4.00
BUMA 12 Personal Finance	3.00
TOTAL UNITS	15.00

Semester: Year:	
COURSE	UNITS
AUTO 44 Auto Engine Repair	4.00
AUTO 65 Manual Tans & axles	4.00
AUTO 28 Intro to Hybrid & Elec. Fuels	4.00
PSY 33 Personal& Social Adjustmetn	3.00
NR 1 Conservation of Natural Resource	3.00
TOTAL UNITS	18.00

Semester:	Year:	
COURSE	UNITS	
AUTO 60	4.00	
BUMA 10 Intro to Business	4.00	
Phil 014 Intro to Ethnics	3.00	
HS 1 Health	3.00	
TOTAL U	UNITS 14.00	

AUTOMOTIVE TECHNOLOGY

The Automotive Technology Program curriculum is designed to meet the requirements and standards set forth by the NSE Education Foundation and to provide the automotive student with a solid foundation in the fundamentals of state of the art automotive systems theory and repair practices. This approach is intended to provide the student with the minimum training necessary to gain an entry-level position within the automotive service and/or repair industry.

Associate in Science in AUTOMOTIVE TECHNOLOGY

with emphasis on employment preparation

Program Student Learning Outcomes

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

- 1. Identify the components, perform service on, and describe the construction features, theory and/or operating principles related to the eight general automotive areas of ASE certification.* (Institutional SLOs: Information Competency) *Dependent upon restrictive electives chosen.
- 2. Use various automotive test equipment: to diagnose vehicle component failures, determine the logical cause of the failure through complete and accurate analysis (either mechanical or electrical), evaluate and discuss findings, prepare a written estimate of needed system repairs, estimate the related costs, and perform and verify correct repairs in all eight general automotive areas of ASE certification.* (Institutional SLOs: Communication Skills, Critical Thinking, and Information Competency) *Dependent upon restrictive electives chosen.
- 3. Utilize applicable vehicle service information to locate pertinent procedures and specifications related to the inspection, service, diagnosis, repair, adjustment of all automotive systems, and document the services. (Institutional SLOs: Information Competency)
- 4. Demonstrate proper use and safety practices associated with common automotive technician hand tools, precision measuring tools, power equipment, standard automotive laboratory equipment, and repair and service associated with electrical, hydraulic and mechanical systems. (Institutional SLOs: Information Competency)
- 5. Work independently and in groups to diagnose, service, repair, and maintain vehicles. (Institutional SLOs: Personal Development)
- 6. Exhibit professionalism, sensitivity, tact, integrity, and appropriate communication skills when handling customer/co-worker needs, complaints, questions, and special challenges. (Institutional SLOs Personal Development, Ethics, Communication Skills)

Dept. /No.	Title	Units					
Required Courses:							
AUTO 004	Principles of Automotive Technology						
AUTO 018	Engine Performance I	4					
AUTO 020	Automotive Electrical Systems I						
AUTO 021	Automotive Electrical Systems II	4					
AUTO 029	Engine Performance II						
AUTO 035	Automotive Steering, Suspension and Alignmer						
AUTO 036	Automotive Brake Systems						
AUTO 044	Automotive Engine Repair	4					
AUTO 045	Automatic Transmissions and Transaxles						
AUTO 065	Manual Transmissions & Transaxles	4					
AUTO 028	Introduction to Hybrid & Electric Vehicle Techno	ology					
AUTO 078	Hybrid and Alternative Fuel Vehicles	3-4					
BUMA 010	Introduction to Business	3					
Restricted Electives - choose at least three (3) units from the							
following:							
AUTO 027, <mark>AUTO 060,</mark> CIS 070A, AUTO 045 or AUTO 065, and							
AUTO 028 or AUTO 078							
Required Courses							
Restricted Electives							
CMC Genera	al Education Requirement	18					
	DEGREE UNITS	63					
Advisor:	P. Friedt						