Computer Information Systems

COPPER MOUNTAIN COLLEGE
2021-2022
ASSOCIATE DEGREE NON-TRANSFER

M	IP	N	
			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). **LEGEND:** *Courses without prerequisites are italicized* *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

AREA C1 NATURAL SCIENCES
3 Semester units minimum

		A 001 *Descriptive Astronomy* (3) A 001L Descriptive Astronomy Lab (1) ANTH 001 Introduction to Physical Anthropology (3) BI 004 *Elements of Biology* (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 *Physical Geology* (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)

AREA C2 SOCIAL & BEHAVIORAL SCIENCES
3 Semester units minimum

		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) ^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) 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 018 U.S. History from Reconstruction to Present (3) HIST 019 California History (3) ^HIST 020 Native American Studies (3) PHIL 013 *Perspectives on Death & Dying* (3) PS 001 Introduction to Government (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 *College and Personal Success* (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		
			3 Semester units minimum		
M	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 II (5) ASL 003* Intermediate 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' Roll* (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)

			AREA C4-LANGUAGE AND RATIONALITY
			1 course from A, 1 course from B
			A ENGLISH COMPOSITION (1 course 3 – semester units): ENG 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)

			AREA 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* *Elementary American Sign Language* (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 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 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) ^PSY 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) ^SOC 010 Introduction to Marriage & Family (3) ^SOC 014 Introduction to Race & Ethnicity (3) SPAN 001, 002 Elementary Spanish (5) (5) SP 001 Interpersonal Communication (3) SP 002 Oral 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 014 and EGSJ 014; PSY 10 and SOC 10 are comparable courses. Therefore, credit is awarded for only one course.

Computer Information Systems AA

Semester: Fall   Year:

COURSE	UNITS
CS 73 Intro to Comp. Sci.	3.00
CIS 70A Comp. Bus. Applications	3.00
NR 1 Conservation of Nat. Resources	3.00
ENG 3A College Composition	3.00
SOC 14 Intro to Race & Ethnicity	3.00
TOTAL UNITS	**15.00**

Semester: Spring   Year:

COURSE	UNITS
CIS 72D Excel I	3.00
CIS 74 Excel II	3.00
CS 86 Visual Basic I	3.00
MATH 40 Intermediate Algebra	4.00
CIS 62 Beginning Dreamweaver	1.50
CIS 63 Intermediate Dreamweaver	1.50
TOTAL UNITS	**16.00**

Semester: Fall   Year:

COURSE	UNITS
CIS 76B Word I	3.00
CIS 78B Word II	3.00
CIS 82C Web Publishing	3.00
CIS 30 Creating an e-Business	3.00
PHIL 12 Religions of the World	3.00
TOTAL UNITS	**15.00**

Semester: Spring   Year:

COURSE	UNITS
CIS 73C Access I	3.00
BUAC 10 Computer Accounting	3.00
PSY 33 Personal/Social Adjustment	3.00
BUMA 10 Intro to Business	3.00
TOTAL UNITS	**12.00**

COMPUTER INFORMATION SYSTEMS

The Computer Information Systems program encompasses a broad area of study which includes basic computer concepts, microcomputer business applications and computer science concepts. This program prepares students for entry-level positions. Software studies include the latest versions of Windows, the Microsoft Office Suite, Internet applications, desktop and Web publishing. Courses are designed to develop basic and advanced computer skills and to develop problem-solving strategies.

The certificate and A.S. degree require 27 and 60 units respectively, with an emphasis on microcomputer application courses which prepare student for immediate entry into the job market. The A.S. degree also requires 18 units of general education.

Program Student Learning Outcomes

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

1. Design and create solutions to a real world situation using the appropriate software. (Institutional SLOs: Information Competency)
2. Integrate text, graphics and color for designing, editing, and producing high-quality publications. (Institutional SLOs: Information Competency)
3. Analyze the goals, purpose, and mission of a website and develop design documents based on this analysis. (Institutional SLOs: Critical Thinking and Information Competency)
4. Design workflow process in the creation of real-world projects. (Institutional SLOs: Communication, Critical Thinking, and Information Competency)

Associate in Science in COMPUTER INFORMATION SYSTEMS
with emphasis on employment preparation

Dept./No.	Title	Units
Required Courses:		
CIS 070A	Computer Business Applications for Windows	3
CIS 076B	Word I	3
CIS 072D	Excel I	3
CIS 073C	Access Database Management	3
CIS 074	Excel II	3
CIS 078B	Word II	3
CS 073	Introduction to Computer Science	3
CS 086	Visual Basic Programming I	3

Restricted Electives - choose eighteen (18) units from the following:
BUAA 001, BUAC 010, BUAC 066, BUMA 010, CS 001, CS 003, CS 004, CS 005, CS 080, CS 087, CS 089, CS 089A, CIS 030, CIS 062, CIS 063, CIS 082C, CIS 082H, CIS 086 18

Required Courses		24
Restricted Electives		18
CMC General Education Requirement		18
MINIMUM DEGREE UNITS		60

Note: To ensure an individualized education plan, we strongly urge students to meet with an Academic Advisor before selecting courses from the subject areas listed above. Some course substitutions may be approved.
Advisors: K. Chlebik, J. Powell

Certificate of Achievement in COMPUTER INFORMATION SYSTEMS
with emphasis on employment preparation

Dept./No.	Title	Units
Required Courses:		
CIS 070A	Computer Business Applications for Windows	3
CIS 076B	Word I	3
CIS 072D	Excel I	3
CIS 073C	Access Database Management	3
CIS 074	Excel II	3
CIS 078B	Word II	3
CS 086	Visual Basic Programming I	3

Restricted Electives - choose six (6) units from the following:
BUAA 001, BUAC 066, BUMA 010, CS 001, CS 003, CS 004, CS 005, CIS 030, CIS 062, CIS 063, CIS 082C, CIS 082H 6

Required Courses		21
Restricted Electives		6
MINIMUM CERTIFICATE UNITS		27

Note: To ensure an individualized educational plan, we strongly urge students to meet with an Academic Advisor before selecting courses from the subject areas listed above. Some course substitutions may be approved.
Advisors: K. Chlebik, J. Powell