COPPER MOUNTAIN COLLEGE 2021-2022

CALIFORNIA STATE UNIVERSITY (CSU)

М	IP	N	Completion and certification of CSU will permit a stud		•			
		transfer, to take additional lower-division general education courses. All courses must be completed with a grade of "C" or better.						
			CERTIFICATION: GE Certification means that CMC has verified that a student has completed lower-division requirements for the CSU system.					
			Certification is important, without certification students will be held to general education requirements specific to the CSU campus to which they					
			transfer. GE certification is not required for transfer. S		recommend prioritizing major preparation			
			classes over GE certification. See a Counselor for mor					
	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							
				IGUAGE COMMUNICATION AND CRITICAL THINKING				
	ı			rse from A1, A2, A3 (9 semester units)				
			A1 ORAL COMMUNICATION (1 course, 3 semester units): SP 001 Interpersonal Communication (3) SP 004 Public Speaking (3) SP 015 Intercultural Communication (3)					
			A2 WRITTEN COMMUNICATION (1 course, 3 semester units):					
	A3 CRITICAL THINKING (1 course 3 – semester units): ENG 001C Argumentation & Critical Thinking (3) (Effective Spring 2015) PHIL 010 General Logic (3) SOC 004 Sociological Analysis and Critical Thinking (3) SP 007 Decision-Making & Advocacy (3)							
			AREA B SCIENT	IFIC INQUIRY AND QUANTITATIVE REASONING				
			1 course f	rom B1, B2, B3 and B4 (9 semester units)				
			B1 PHYSICAL					
			A 001 Descriptive Astronomy (3) A 001L Descriptive Astronomy Lab (1) CH 001A General Chemistry (5)	CH 005 Bio-Organic Chemistry (4) CH 010A Organic Chemistry (5) (Effective Fall 2015) CH 010B Organic Chemistry (5) (Effective Fall 2015)	G 010 The Earth Sciences (4) GEOG 001 Physical Geography (3) PH 001 Introductory Physics (4)			
			CH 001B General Chemistry (5) CH 003 Introductory General Chemistry (4)	G 001 Physical Geology (4) G 005 Environmental Geology (4)	PH 004A Physics for Scientists & Engineers (4) PH 004B Physics for Scientists & Engineers (4) PH 004C Physics for Scientists & Engineers (4)			
			B2 LIFE		=			
			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) NR 001 <i>Conservation of Natural Resources</i> (3)			
	B3 LABORATORY Met with the completion of a laboratory course from B1 or B2. Courses with 4 or more units include a lab which meets this requirement							
			B4 MATHEMATICS/QUANTITATIVE REASONING MATH 001A Calculus (4)	MATH 002C Ordinary Differential Equations (4) (Effective Fall 2013)	MATH 012 Pre-Calculus (5) MATH 014 Statistical Methods (4)			
			MATH 001B Calculus (4) MATH 002A Multivariate Calculus (5) (Effective Fall 2014)	MATH 004 Discrete Structures (3) MATH 005 Trigonometry (4)	MATH 016 Mathematics for Elementary School Teachers (3) (Effective Spring 2015)			
			MATH 002B Linear Algebra (4) (Effective Fall 2014)	MATH 010 College Algebra (4)	SOC 003 Fundamentals of Statistics (4)			
AREA C ARTS & HUMANITITES Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units)								
			C1 ARTS					
			ART 003A Introduction to Two-Dimensional Design (3) ART 010 Introduction to Art (3) ART 033 History of Photography (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 Introduction to the Visual Arts of Non-western Cultures (3)	MUS 005 History of Rock 'N' Roll (3) MUS 010 Introduction to Music (3) TA 001 Introduction to Theatre (3) TA 002 Acting I (3)			
			ART 050 History of Western Art: Prehistory - Middle Ages (3)	the second continues (5)	1A 002 ACCING ((3)			

AREA C ARTS & HUMANITITES					
Minimum of 3 courses, with at least one course from C1, one course from C2, and the third course from C1 or C2 (9 semester units)					
M	IP	N	C2 HUMANITIES 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 18 th Century (3) ENG 011B Survey of English Literature: Romantic-Postmodernism (3) ONE ADDITIONAL COURSE FROM C1 OR C2	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) 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) SP 002 Oral Interpretation of Literature (3) (Effective Fall 2020) 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)
				A D SOCIAL & BEHAVIORAL SCIENCES	
				imum of 2 courses (6 semester units)	
			D0 – Sociology & Criminology 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) ^EGSJ 014 Introduction to Race and Ethnicity (3) SOC 001 Introduction to Sociology (3) SOC 002 Social Problems (3) ^SOC 014 Introduction to Race and Ethnicity (3) D1 – Anthropology & Archeology ANTH 002 Cultural Anthropology (3) ANTH 003 Archaeology: An Introduction to Prehistory (3) D2 – Economics ECON 001 Principles of Macroeconomics (3) ECON 002 Principles of Microeconomics (3) D3 – Ethnic Studies SOC 014 Introduction to Race and Ethnicity (3)	D4 – Gender Studies *PSY 010 Introduction to Marriage & Family (3) *SOC 010 Introduction to Marriage & Family (3) *SOC 010 Introduction to Marriage & Family (3) D5 – Geography GEOG 002 Cultural Geography (3) GEOG 007 World Regional Geography (3) (Effective Fall 2015) D6 – History ^EGSJ 020 Native American Studies (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) D7 – Interdisciplinary Social or Behavioral Science CD 010 Child Development (4) (Effective Fall 2010) CD 012 Child, Family, & Community (3) (Effective Fall 2012)	PSY 005 Behavioral & Social Science Research Methods (4) SP 015 Intercultural Communication (3) D8 – Political Science, Government and Legal Institutions CJ 001 Introduction to Criminal Justice (3) PS 001 Introduction to Government (3) PS 002 Introduction to Comparative Governments (3) PS 004 Introduction to International Relations (3) D9 – Psychology PSY 001 General Psychology (3) PSY 003 Developmental Psychology (3) PSY 005 Behavioral & Social Science Research Methods (4) PSY 012 Human Sexuality (3) (Effective Fall 2013) PSY 033 Personal & Social Adjustment (3) ^EGSJ 014 and SOC 014; EGSJ 020 and HIST 020 are comparable courses. Therefore, credit is awarded for only one course.
			AREA E LIFE	ELONG LEARNING AND SELF-DEVELOPMENT Minimum of 3 semester units.	
			CD 010 Child Development (4) (Effective Fall 2010) CD 044 Child Health, Safety, & Nutrition (3) (Effective Fall 2012) HS 001 Personal and Community Health (3) HS 013 General Nutrition (3)	KIN 001 Introduction to Kinesiology (3) (Effective Spring 2020) PHIL 013 Perspectives on Death & Dying (3) PSY 003 Developmental Psychology (3) ^PSY 010 Introduction to Marriage & Family (3) PSY 012 Human Sexuality (3)	PSY 033 Personal and Social Adjustment (3) ^SOC 010 Introduction to Marriage & Family (3) STDV 065 College and Personal Success (3) (Effective Fall 2013) ^PSY 010 and SOC 010 are comparable courses. Therefore, credit is awarded for only one course.
				AREA F ETHNIC STUDIES	
			4500 000 H H H 4 H 6 H (2)	Minimum of 3 semester units.	7000
^EGSJ 020 Native American Studies (3)			^EGSJ U20 Native American Studies (3)		IT 020 are comparable courses. s awarded for only one course.

CSU GRADUATION REQUIREMENTS - U.S. History & American Institutions

1 course from GROUP 1 and 1 course from GROUP 2
GROUP 1: PS 1 GROUP 2: HIST 17, 18

Chemistry ADT

Semester: FALL

Year:

COURSE	UNITS	COURSE	UNITS
CH 1A General Chemistry	Chemistry 5.00 CH 1B General Chemistry		5.00
BI 4 Elements of Biology	3.00	MATH 12 Pre-Calculus	6.00
ENG 3A College Composition	3.00	SP 4 Public Speaking	3.00
ART 3A 2-Demensional Design	3.00		
TOTAL UNITS	14.00	TOTAL UNITS	14.00
Semester: FALL Year:		Semester: SPRING Year:	
COURSE	UNITS	COURSE	UNITS
CH 10A Organic Chemistry	5.00	CH 10B Organic Chemistry	5.00
MATH 1A Calculus	4.00	MATH 1B Calculus	4.00
SP 7 Decision Making/ Advocacy	3.00	PH 4A Engineering Physics	4.00
TOTAL UNITS	12.00	TOTAL UNITS	13.00
Semester: FALL Year:		Semester: SPRING Year:	
COURSE	UNITS	COURSE	UNITS
MATH 2A Multivariate Calculus	5.00	HIST 17 U.S. History	3.00
PH 4B Engineering Physics	4.00	PS 1 Intro. to Government	3.00
PHIL 13 Death & Dying	3.00	SPAN 1 Elementary Spanish	5.00
PSY 33 Personal & Social Adjustment	3.00	EGSJ 020 Native American Studies	3.00
TOTAL UNITS	TOTAL UNITS	14.00	

Semester: SPRING

Year:

CHEMISTRY

A.S.-T DEGREE (X)

Description

The Associate in Science in Chemistry for Transfer, also called the Chemistry AS-T Degree, is designed to prepare students majoring in Chemistry for a seamless transfer with junior status to a CSU campus for completion of a baccalaureate degree in Chemistry. Upon successful completion of courses leading to the Chemistry AS-T Degree, the student will be able to demonstrate that they understand fundamental General and Organic Chemistry concepts, skills, and applications, sufficient to attain upper division status in Chemistry at any CSU institution.

This Chemistry AS-T degree requires students to meet both of the following requirements:

- 1. Completion of 60 semester units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-B); and
 - A minimum of 18 semester units in a major or area of emphasis. All courses in the major or area of emphasis must be completed with a grade of "C" or better.
- 2. Obtainment of a minimum grade point average of 2.0. There are no additional graduation requirements. Students are advised to consult with a counselor to verify transfer requirements.

Program Learning Outcomes

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

- 1. Develop a world view that incorporates the role of chemistry in modern society. (Maps to ILO 3 & 4.)
- 2. Integrate fundamental physical concepts and principles to other science disciplines (Maps to ILO 2 & 5.)
- 3. Solve novel, not previously seen, problems by employing analytical reasoning and physical concepts to formulate representative soluble chemical models. (Maps to ILO 2 & 5.)
- 4. Demonstrate proficiency in standard chemistry laboratory techniques commonly acquired in lower-division course work. (Maps to ILO 1 & 5.)
- 5. Collaboratively analyze representative chemical data using problem-solving learning and communicate findings in written and oral form. (Maps to ILO 1 & 5.)
- 6. Develop an awareness of the current limitations of chemistry and their own knowledge, detect pseudoscience, and demonstrate a strong work ethic, including integrity, a sense of responsibility, and team working skills. (Maps to ILO 1, 2, 3, 4, & 5.)

Degree Requirements:

Required courses		Credit Hours: (36 Required)	
CH001A	General Chemistry	5	
CH001B	General Chemistry	5	
CH010A	Organic Chemistry	5	
CH010B	Organic Chemistry	5	
PH004A	Physics for Scientists and Engineers	4	
PH004B	Physics for Scientists and Engineers	4	
MATH001A	Calculus	4	
MATH001B	Calculus	4	

Total: 36

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