

# Colorado Early Colleges Fort Collins

COURSE CATALOG

2023-2024



## Course Offerings | Fall 2023

CECFC offers a variety of courses designed to meet our students' needs. All courses are semester-long and offered on-campus between the hours of 7:50 a.m. and 3:30 p.m. **Although we work hard to finalize the schedule in a timely manner, course offerings and times are subject to change.** Courses designated with no numbers or numbers to 99 are college prep courses; courses designated with numbers above 1000 are college courses.

### ENGLISH

Latin American Literature & Film  
LIT/COMP 060—Fundamental English  
LIT/COMP 060.2—Fundamental English  
LIT/COMP 090—Foundational College Prep English I  
LIT/COMP 095—Comprehensive College Prep English  
LIT/COMP 099—Cumulative College Prep English  
Screenwriting  
ENG 1021—English Composition I  
ENG 1022—English Composition II  
ENG 2021 – Creative Writing  
COM 1150—Public Speaking  
COM 1250—Interpersonal Communication  
LIT 1015 – Intro to Literature

### MATH

MAT 060A—Pre-Algebra (Semester 1)  
MAT 060B—Pre-Algebra (Semester 2)  
MAT 090A—Algebra I (Semester 1)  
MAT 090B—Algebra I (Semester 2)  
Geometry  
Geometry A- (Semester 1)  
Geometry B- (Semester 2)  
Applied Geometry  
Personal Finance  
MAT 099—Algebra II  
MAT 1340—College Algebra  
MAT 1440—Pre-Calculus  
MAT 2410—Calculus I  
MAT 2420—Calculus II

### SCIENCE

Biology A (Micro) with Lab  
Biology B (Macro) with Lab  
Chemistry A with Lab  
Earth and Space Science with Lab  
Physical Science with Lab  
Science Olympiad  
BIO 1005—Science of Biology with Lab  
CHE 1011—Introduction to Chemistry I with Lab  
GEY 1111—Physical Geology with Lab

### SOCIAL SCIENCE AND HUMANTIES

Civics  
Geography  
Global Studies I  
ANT 1001 – Cultural Anthropology

HIS 1120—The World: 1500 to Present  
HIS 1210—US History to Reconstruction  
PHI 1012—Ethics  
PSC 1025—American State and Local Government  
PSY 1002—General Psychology II  
PSY 2440—Human Growth and Development

### WORLD LANGUAGES

French I  
Latin I  
Mandarin Chinese I  
Spanish I  
Spanish III

### VISUAL ARTS

Art Foundations I  
Art Foundations II  
Textiles I  
Textiles II  
Textiles III  
Yearbook  
Intro to Film  
ART 1110—Art Appreciation  
ART 1201—Drawing I  
ART 1202—Drawing II  
ART 1002—Visual Concepts 2-D Design  
ART 1703—Ceramics I

### PERFORMING ARTS

Guitar I  
Guitar II  
Concert Choir  
Cantabile Choir  
Band  
Jazz Band  
Orchestra  
Theater  
MUS 1020 – Music Appreciation  
MUS 1023—Survey of World Music  
MUS 1031—Piano I  
MUS 1032—Piano II

### PHYSICAL EDUCATION

Functional Fitness  
Intro to Weightlifting

### COLLEGE AND CAREER READINESS



Career Pathways  
Work-Based Learning

**CAREER AND TECHNICAL ED**

Robotics 1A  
Robotics 2  
Drone Basics  
Introduction to Innolab  
Woodworking I  
Woodworking II  
Emergency Safety Training  
Principles of Engineering  
BUS 2016 — Legal Environment of Business  
BUS 2017—Business Communication Writing

**COMPUTER SCIENCE**

Computer Science Foundations  
Certification Lab  
PC Apps  
PC Apps Lab  
CIS 1018—Introduction to PC Applications

**SUPPORT CLASSES**

Student Success  
Resource  
English Language Development

**STUDENT LIFE**

Student Government  
Wolf Pack



## Course Offerings | Spring 2024

CECFC offers a variety of courses designed to meet our students' needs. All courses are semester-long and offered on-campus between the hours of 7:50 a.m. and 3:30 p.m. *Although we work hard to finalize the schedule in a timely manner, course offerings and times are subject to change.* Courses designated with no numbers or numbers to 99 are college prep courses; courses designated with numbers above 1000 are college courses.

### ENGLISH

LIT/COMP 060.2—Fundamental English  
LIT/COMP 090—Foundational College Prep English 1  
LIT/COMP 095—Comprehensive College Prep English  
LIT/COMP 095 Lab  
LIT/COMP 099—Cumulative College Prep English  
Screenwriting  
ENG 1021—English Composition I  
ENG 1022—English Composition II  
ENG 2021—Creative Writing  
COM 1150—Public Speaking  
COM 1250—Interpersonal Communication

### MATH

MAT 060—Pre-Algebra  
MAT 090A—Algebra I (Semester 1)  
MAT 090B—Algebra I (Semester 2)  
MAT 090—Algebra I  
Geometry  
Geometry IA (Semester 1)  
Geometry IB (Semester 2)  
Applied Geometry B  
MAT 099—Algebra II  
Math Content Lab 099  
Personal Finance  
Applied Math – Work Keys  
Financial Awareness – Work Keys  
MAT 1260 — Introduction to Statistics  
MAT 1340—College Algebra  
Math Content Lab College Algebra  
MAT 1440—Pre-Calculus  
MAT 2410—Calculus I  
MAT 2420—Calculus II  
MAT 2431—Calculus III/Engineer Applications

### SCIENCE

Biology A (Micro) with Lab  
Biology B (Macro) with Lab  
Chemistry B with Lab  
Physical Science with Lab  
Earth and Space Science with Lab  
Science Olympiad  
ANT 1005 – Biological Anthropology with Lab  
BIO 1005—Science of Biology with Lab  
CHEM 1011—Introduction to Chemistry I with Lab  
GEY 1112—Historical Geology with Lab  
GEY 1135—Environmental Geology with Lab

### SOCIAL SCIENCE AND HUMANITIES

Civics  
Geography

Global Studies II  
CRJ 1010—Introduction to Criminal Justice  
HIS 1120—The World: 1500 to Present  
HIS 1220—U.S. History Since Civil War  
PHI 1012—Ethics  
PHI 2018—Environmental Ethics  
PHI 2020—Philosophy of Death and Dying  
PSC 1025—American State and Local Government  
PSY 100I—General Psychology I  
PSY 2221—Social Psychology

### COLLEGE AND CAREER READINESS

Career Pathways  
BUS 2017—Business Communication Writing Work-Based Learning

### WORLD LANGUAGES

French II  
Latin II  
Mandarin Chinese II  
Spanish II

### VISUAL ARTS

Art Foundations I  
Art Foundations II  
Art Foundations III  
Textiles I  
Textiles II  
Textiles III  
Adobe Cert Lab w/ Photography  
Yearbook  
ART 1110—Art Appreciation  
ART 1201—Drawing I  
ART 1202—Drawing II  
ART 1003—Visual Concepts 3-D Design  
ART 1703—Ceramics  
ART 1704—Ceramics II

### PERFORMING ARTS

Guitar I  
Cantabile Choir  
Concert Choir  
Orchestra  
Band  
Jazz Band  
Musical Theater  
Tech Theater  
MUS 1020—Music Appreciation  
MUS 1023— Survey of World Music  
MUS 1031—Piano I  
MUS 1032—Piano II

**CAREER AND TECHNICAL ED**

Robotics 1B  
Robotics 2  
Woodworking I  
Woodworking II  
CRJ 1010—Introduction to Criminal Justice  
Small Engine Repair  
Intro Into Innolab

**COMPUTER SCIENCE**

Certification Lab  
PC Apps  
PC Apps Lab  
CIS 1018—Introduction to PC Applications

**PHYSICAL EDUCATION**

Team Sports  
Intro to Weightlifting

**SUPPORT CLASSES**

Student Success  
Resource  
English Language Development

**STUDENT LIFE**

Student Government  
Wolf Pack



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**\*Note about offerings:**

*Not every class is offered every semester. The courses described below are for reference only and may not be currently available. Semester course offerings are subject to change based on student interest and instructor availability. Please refer to the above list for courses offered this semester and/or talk to your advisor with any concerns. CECFC is committed to providing course variety each semester.*

**\*College vs. College Prep credits:**

- 1.0 credit college course= 0.5 college prep level credit*
- 2.0 credit college course= 0.5 college prep level credit*
- 3.0 credit college course= 1.0 college prep level credit*
- 4.0 credit college course= 1.5 college prep level credits*
- 5.0 credit college course= 2.0 college prep level credits*



## Graduation Requirements

### HIGH SCHOOL REQUIREMENTS

The CEC Governing Board has established the following graduation requirements for all students. The minimum requirement of 20 credits in the categories listed below will result in a high school diploma. All students must earn an associate degree, postsecondary credential, or at least 60+ college credits in addition to meeting the high school graduation requirements to be awarded a CEC diploma:

**English:**

- 4 credits

**Math:**

- 3 credits

**Science:**

- 2 credits
  - Laboratory classes in science must meet both process and content standards.
  - Required classes must be natural/physical science courses including but not limited to biology, chemistry, physics, astronomy, geology, and environmental science.
  - Completion of an Associate of Applied Science degree waives this requirement.

**Social Sciences:**

- 2 credits
  - Social Science credit includes the satisfactory completion of a civics/government course that encompasses information on both the history and culture of the United States and State of Colorado (C.R.S 22-1-104).
  - Students (beginning with Class 2027) must also take a course that incorporates the new academic standards on Holocaust and Genocide studies as states in Colorado Law (HB20-1336).

**Academic Electives:**

- 9 credits
  - Electives include the fine arts, technology, career and technical education, capstone, independent study, work-based learning, physical education, and core content electives in English, math, science, social studies, and world languages.
  - World language is highly encouraged for any student planning on applying to a four-year university. Students may also pursue the attainment of a Seal of Biliteracy at graduation in accordance with Colorado Senate Bill 17-123.
  - Electives must include a minimum of one .5 credit college/career readiness course, which is a graduation requirement, unless waived by the Head of School. The successful completion of a 1000 level college course in English and math satisfies HEAR requirements and thus meets CEC graduation requirements only in English and math regardless of credits.

The Individual Career and Academic Plan (ICAP) will set out a course of study for each student based on completion of all requirements for graduation. Students are required to participate in and successfully complete the requirements and goals of the ICAP process. Full-time students transferring from other educational programs must meet CEC's graduation requirements to be awarded a CEC high school diploma.

Graduates must demonstrate, at a minimum, College and Career Readiness in English and math through one or more of the following approved options found on the [Menu of College and Career-Ready Demonstrations Fact Sheet](#). Further guidance on postsecondary credentials and the Menu of Options can be found in the "CEC Guidance on Postsecondary Credentials and Menu of Options" document.



### **Exceptional Students**

Regardless of whether the course work for a student with an IEP is aligned with the Colorado Academics Standards or Extended Evidence Outcomes, CEC will provide accommodations to enable the student receiving special education services to reach the same standards as students without disabilities. However, CEC will not modify any standard that any student must demonstrate in college or career readiness on the Graduation Guidelines Menu of Options in the areas of English or math.





## FRCC Associates of Arts: Degree Requirements

<b>Natural &amp; Physical Science</b> <i>(7 semester credits) Take two course. Credits over 7 will be applied to electives</i>				<b>Communications</b> <i>(3 credits) Take one course</i>	
ANT 1005 (4)	BIO 2104 (4)	GEO 1011 (4)	PHY 2111 (5)	COM 1150 (3)	
ANT 2315 (4)	BIO 2108 (4)	GEO 1012 (4)	PHY 1111 (5)	COM 1250 (3)	
AST 1110 (4)	BIO 2121 (4)	GEY 1111 (4)	AST 1160 (3)	COM 2300 (3)	
AST 1120 (4)	BIO 2124 (4)	GEY 1112 (4)	ENV 1010 (3)		
BIO 1004 (4)	CHE 1005 (5)	GEY 2111 (4)	GEO 1060 (3)		
BIO 1005 (4)	CHE 1011 (5)	MET 1050 (4)	GEY 1108 (3)		
BIO 1111 (4)	CHE 1012 (5)	PHY 1105 (4)	SCI 1105 (3)	<b>English</b>	
BIO 1112 (4)	CHE 1111 (5)	PHY 1107 (4)		<i>(6 semester credits) Take one pair.</i>	
BIO 2101 (4)	CHE 1112 (5)	PHY 1111 (5)		ENG 1021 (3)	
BIO 2102 (4)	ENV 1111 (4)	PHY 1112 (5)		ENG 1022 (3)	
<b>Arts &amp; Humanities</b> <i>(6 semester credits) Take any two courses from two different categories</i>					
ART 1110 (3)	THE 1005 (3)	LIT 2002 (3)	PHI 1011 (3)	ENG 1031 (3)	
ART 1111 (3)	THE 1008 (3)	LIT 2005 (3)	PHI 1012 (3)	ENG 1022 (3)	
ART 1112 (3)	THE 2011 (3)	LIT 2011 (3)	PHI 1013 (3)	<b>Mathematics</b>	
ART 1113 (3)	THE 2012 (3)	LIT 2012 (3)	PHI 1014 (3)	<i>(3 semester credits) Credits over 3 will be applied to electives</i>	
COM 1300 (3)	THE 2015 (3)	LIT 2022 (3)	PHI 1015 (3)	MAT 1220 (3)	MAT 2410 (5)
DAN 1050 (3)	HUM 1003 (3)	LIT 2025 (3)	PHI 1016 (3)	MAT 1230 (3)	MAT 2420 (5)
ENG 2021 (3)	HUM 1015 (3)	LIT 2046 (3)	PHI 2005 (3)	MAT 1240 (4)	MAT 2430 (4)
MUS 1020 (3)	HUM 1021 (3)	LIT 2055 (3)	PHI 2013 (3)	MAT 1260 (3)	MAT 2431 (5)
MUS 1021 (3)	HUM 1022 (3)	LIT 2058 (3)	PHI 2014 (3)	MAT 1340 (4)	MAT 2520 (4)
MUS 1022 (3)	HUM 1023 (3)	LIT 2059 (3)	PHI 2018 (3)	MAT 1420 (3)	MAT 2540 (3)
MUS 1023 (3)	LIT 1015 (3)	LIT 2068 (3)	PHI 2020 (3)	MAT 1440 (5)	MAT 2562(4)
MUS 1025 (3)	LIT 2001 (3)				
<b>Social and Behavioral Sciences</b> <i>(6 semester credits) Take any two courses from two different categories</i>					
Economics & Political Systems		Human Behavior, Culture, or Social frameworks			
ECO 1001 (3)	GEO 1005 (3)	ETH 2000 (3)	SOC 1001 (3)	<b>History</b>	
ECO 2001 (3)	GEO 1006 (3)	JOU 1005 (3)	SOC 1002 (3)	<i>(3 semester credits) Take one course</i>	
ECO 2002 (3)	ANT 1001 (3)	PSY 1001 (3)	SOC 2005 (3)	HIS 1110 (3)	HIS 2120 (3)
ECO 2011 (3)	ANT 1004 (3)	PSY 1002 (3)	SOC 2007 (3)	HIS 1120 (3)	HIS 2125 (3)
ECO 2045 (3)	ANT 1003 (3)	PSY 2771 (3)	SOC 2016 (3)	HIS 1210 (3)	HIS 2130 (3)
PSC 1025 (3)	ANT 1208 (3)	PSY 2105 (3)	SOC 2018 (3)	HIS 1220 (3)	HIS 2135 (3)
PSC 2005 (3)	ANT 2115 (3)	PSY 2107 (3)	SOC 2020 (3)	HIS 1310 (3)	HIS 2140 (3)
PSC 1050 (3)	ANT 2125 (3)	PSY 2221 (3)	SOC 2031 (3)	HIS 1320 (3)	HIS 2145 (3)
PSC 2025 (3)	ANT 2550 (3)	PSY 2222 (3)	SOC 2037 (3)	HIS 1320 (3)	HIS 2200 (3)
	COM 1250 (3)	PSY 2440 (3)	WST 2000 (3)	HIS 2000 (3)	HIS 2210 (3)
	COM 2220 (3)	PSY 2440 (3)	WST 2100 (3)	HIS 2005 (3)	HIS 2300 (3)
	COM 2300 (3)	PSY 2441 (3)	WST 2200 (3)	HIS 2015 (3)	HIS 2310 (3)
	CRJ 1010 (3)	PSY 2552 (3)	WST 2300 (3)	HIS 2110 (3)	HIS 2500 (3)
<b>Subtotal (OC, ENG, MAT, HIS, SC, N&amp;PS, A/H, S/B): 37 credits required</b>				HIS 2115 (3)	HIS 2610 (3)
<b>Additional Electives</b> <i>(23 semester credits) Electives selected from the Approved Electives List</i>				<b>Student Choice</b>	
_____ _____ _____ _____ _____				<i>(3 semester credits) One additional course from Arts &amp; Humanities, History, or Social and Behavioral Sciences</i>	
				_____	
				_____	
				_____	
				<b>Total: 60 credits needed for AA Degree</b>	

## FRCC Associates of Science: Degree Requirements

<b>Social and Behavioral Sciences</b> <i>(6 semester credits) Take any two courses from two different categories</i>					<b>History</b> <i>(3 semester credits) Take one course</i>	
Economics & Political Systems	Geography	Human Behavior, Culture, or Social Frameworks			HIS 1110 (3)	HIS 2120 (3)
					HIS 1120 (3)	HIS 2125 (3)
ECO 1001 (3)	GEO 1005 (3)	ANT 1001 (3)	PSY 1001 (3)	SOC 2005 (3)	HIS 1210 (3)	HIS 2130 (3)
ECO 2001 (3)	GEO 1006 (3)	ANT 1004 (3)	PSY 1002 (3)	SOC 2007 (3)	HIS 1220 (3)	HIS 2135 (3)
ECO 2002 (3)		ANT 1003 (3)	PSY 2771 (3)	SOC 2016 (3)	HIS 1310 (3)	HIS 2140 (3)
ECO 2011 (3)		ANT 1208 (3)	PSY 2105 (3)	SOC 2018 (3)	HIS 1320 (3)	HIS 2145 (3)
ECO 2045 (3)		ANT 2115 (3)	PSY 2107 (3)	SOC 2020 (3)	HIS 1320 (3)	HIS 2200 (3)
PSC 1025 (3)		ANT 2125 (3)	PSY 2221 (3)	SOC 2031 (3)	HIS 2000 (3)	HIS 2210 (3)
PSC 2005 (3)		ANT 2550 (3)	PSY 2222 (3)	SOC 2037 (3)	HIS 2005 (3)	HIS 2300 (3)
PSC 1050 (3)		COM 1250 (3)	PSY 2440 (3)	WST 2000 (3)	HIS 2015 (3)	HIS 2310 (3)
PSC 2025 (3)		COM 2220 (3)	PSY 2440 (3)	WST 2100 (3)	HIS 2110 (3)	HIS 2500 (3)
		COM 2300 (3)	PSY 2441 (3)	WST 2200 (3)	HIS 2115 (3)	HIS 2610 (3)
		CRJ 1010 (3)	PSY 2552 (3)	WST 2300 (3)	<b>Science &amp; Math Electives</b> <b>(8 semester credits) Additional elective credits must be selected from the approved math and science electives list below.</b>	
		ETH 2000 (3)	SOC 1001 (3)	Or an additional History class		
		JOU 1005 (3)	SOC 1002 (3)			
<b>Natural &amp; Physical Science</b> <i>(12 semester credits) Take one pair of lab courses in sequence and an additional N&amp;PS lab course. Credits over 12 will be applied to elective category.</i>				<b>Communications</b> <i>(3 credits) Take one course</i>		
AST 1110 (4)	GEO 1011 (4)	ANT 1005 (4)	CHE 1012 (5)	COM 1150 (3)	ANT 1005 (4)	GEO 1011 (4)
AST 1120 (4)	GEO 1012 (4)	ANT 2315 (4)	CHE 1111 (5)	COM 1250 (3)	AST 1110 (4)	GEO 1012 (4)
		AST 1110 (4)	CHE 1112 (5)	COM 2300 (3)	AST 1120 (4)	GEO 1060 (4)
BIO 1111 (4)	GEY 1111 (4)	AST 1120 (4)	ENV 1111 (4)		BIO 1005 (4)	GEY 1111 (4)
BIO 1112 (4)	GEY 1112 (4)	BIO 1004 (4)	GEO 1011 (4)	<b>English</b> <i>(6 semester credits) Take one pair.</i>	BIO 1111 (4)	GEY 1112 (4)
		BIO 1005 (4)	GEO 1012 (4)		BIO 1112 (5)	GEY 1135 (4)
BIO 2101 (4)	PHY 1111 (5)	BIO 1111 (5)	GEY 1111 (4)		BIO 2101 (4)	GEY 2205 (3)
BIO 2102 (4)	PHY 1112 (5)	BIO 1112 (5)	GEY 1112 (4)	ENG 1021 (3)	BIO 2102 (4)	GEY 2028 (3)
		BIO 2101 (4)	GEY 1135 (4)	ENG 1022 (3)	BIO 2014 (4)	MAT 1240 (4)
CHE 1111 (5)	PHY 2111 (5)	BIO 2102 (4)	MET 1050 (4)		BIO 2108 (5)	MAT 1260 (3)
CHE 1112 (5)	PHY 2112 (5)	BIO 2014 (4)	PHY 1105 (4)	ENG 1022 (3)	BIO 2121 (5)	MAT 1320 (4)
		BIO 2108 (5)	PHY 1107 (4)	ENG 2001 (3) or	BIO 2124 (4)	MAT 1340 (4)
		BIO 2121 (5)	PHY 1111 (5)	HIS 2765 (3)	CHE 1011 (5)	MAT 1440 (4)
		BIO 2124 (4)	PHY 1112 (5)		CHE 1012 (5)	MAT 1420 (3)
		CHE 1005 (5)	PHY 2111 (5)	<b>Mathematics</b> <i>(3 semester credits) Credits over 3 will be applied to electives</i>	CHE 1111 (5)	MAT 1440 (5)
		CHE 1011 (5)	PHY 2112 (5)		CHE 1112 (5)	MAT 2410 (5)
<b>Arts &amp; Humanities</b> <i>(6 semester credits) Take any two courses from two different categories</i>						CSC 1019 (3)
Arts & Humanities	Literature	Ways of thinking	Foreign Language	MAT 1340 (4)	CSC 1060 (4)	MAT 2430 (4)
ART 1110 (3)	HUM 1003 (3)	PHI 1011 (3)	ASL 2221 (3)	MAT 1440 (4)	CSC 1061 (4)	MAT 2431 (5)
ART 1111 (3)	HUM 1015 (3)	PHI 1012 (3)	ASL 2222 (3)	MAT 1420 (3)	CSC 2017 (3)	MAT 2520 (4)
ART 1112 (3)	HUM 1021 (3)	PHI 1013 (3)	FRE 2011 (3)	MAT 1440 (5)	CSC 2025 (4)	MAT 2540 (3)
ART 1113 (3)	HUM 1022 (3)	PHI 1014 (3)	FRE 2021 (3)	MAT 2410 (5)	CSC 2030 (3)	MAT 2562(4)
DAN 1050 (3)	HUM 1023 (3)	PHI 1015 (3)	GER 2011 (3)	MAT 2420 (5)	CSC 2033 (3)	MET 1050 (4)
MUS 1020 (3)	LIT 1015 (3)	PHI 1016 (3)	GER 2012 (3)	MAT 2430 (4)	CSC 2034 (4)	PHY 1105 (4)
MUS 1021 (3)	LIT 2001 (3)	PHI 2005 (3)	ITA 2011 (3)	MAT 2431 (5)	CSC 2036 (3)	PHY 1107 (4)
MUS 1022 (3)	LIT 2002 (3)	PHI 2013 (3)	ITA 2012 (3)	MAT 2520 (4)	CSC 2040 (3)	PHY 1111 (5)
MUS 1023 (3)	LIT 2005 (3)	PHI 2014 (3)	JPN 2011 (3)	MAT 2540 (3)	CSC 2041 (3)	PHY 1112 (5)
MUS 1025 (3)	LIT 2011 (3)	PHI 2018 (3)	JPN 2012 (3)	MAT 2562(4)	CSC 2046 (3)	PHY 2111 (5)
THE 1005 (3)	LIT 2012 (3)	PHI 2020 (3)	RUS 2011 (3)		CSC 2052 (3)	PHY 2112 (5)
THE 1008 (3)	LIT 2022 (3)		RUS 2012 (3)		CSC 2065 (4)	SCI 1055 (4)
THE 2011 (3)	LIT 2025 (3)		SPA 2011 (3)		ENV 1111 (4)	SCI 1056 (4)
THE 2012 (3)	LIT 2046 (3)		SPA 2012 (3)			SCI 1105 (3)
THE 2015 (3)	LIT 2055 (3)				<b>Electives</b> <b>(13 semester credits) Additional 13 credits of electives from the Approved Electives List.</b>	
	LIT 2058 (3)					
	LIT 2059 (3)					
	LIT 2068 (3)					
<b>Total: 60 semester credits for an AS Degree</b>						



## AIMS Associates of Arts: Degree Requirements

<b>Natural &amp; Physical Science</b>				<b>Additional Required Course</b>	
<i>(7 semester credits) Take two course. Credits over 7 will be applied to electives</i>				<i>(3 credits) Take one course</i>	
AGY 2140 (4)	BIO 2101 (4)	CHE 1112 (5)	MET 1050 (4)	COM 1150 (3)	
ANT 1005 (4)	BIO 2102 (4)	ENV 1111 (4)	PHY 1105 (4)	COM 1250 (3)	
ANT 2315 (4)	BIO 2104 (4)	GEO 1011 (4)	PHY 1111 (5)	CIS 1018 (3)	
AST 1110 (4)	BIO 2121 (4)	GEO 1012 (4)	PHY 1112 (5)		
AST 1120 (4)	CHE 1005 (5)	GEY 1111 (4)	PHY 2111 (5)		
BIO 1005 (4)	CHE 1011 (5)	GEY 1112 (4)	SCI 1055 (4)		
BIO 1111 (4)	CHE 1012 (5)	GEY 1135 (4)	SCI 1056 (4)		
BIO 1112 (4)	CHE 1111 (5)			<b>Written Communication</b>	
				<i>(6 semester credits) Take 2 courses</i>	
<b>Arts &amp; Humanities</b>				ENG 1021 (3)	
<i>(6 semester credits) Take any two courses from two different categories</i>				ENG 1022 (3)	
ART 1110 (3)	HUM 1003 (3)	LIT 2025 (3)	FRE 2011 (3)	ENG 1031 (3)	
ART 1111 (3)	HUM 1015 (3)	LIT 2046 (3)	FRE 2021 (3)		
ART 1112 (3)	HUM 1021 (3)	LIT 2055 (3)	GER 2011 (3)		
ART 1113 (3)	HUM 1022 (3)	PHI 1011 (3)	GER 2012 (3)		
ENG 2021 (3)	HUM 1023 (3)	PHI 1012 (3)	ITA 2011 (3)	<b>Mathematics</b>	
MUS 1020 (3)	LIT 1015 (3)	PHI 1013 (3)	ITA 2012 (3)	<i>(3 semester credits) Credits over 3 will be applied to electives</i>	
MUS 1021 (3)	LIT 2001 (3)	PHI 1014 (3)	JPN 2011 (3)		
MUS 1022 (3)	LIT 2005 (3)	PHI 1016 (3)	JPN 2012 (3)	MAT 1220 (3)	
MUS 1023 (3)	LIT 2011 (3)	PHI 2013 (3)	RUS 2011 (3)	MAT 1230 (3)	
MUS 1025 (3)	LIT 2012 (3)	PHI 2014 (3)	RUS 2012 (3)	MAT 1240 (4)	
THE 1005 (3)	LIT 2021 (3)	PHI 2018 (3)	SPA 2011 (3)	MAT 1260 (3)	
THE 2011 (3)	LIT 2022 (3)	PHI 2020 (3)	SPA 2012 (3)	MAT 1340 (4)	
THE 2012 (3)				MAT 1400 (4)	
<b>Social and Behavioral Sciences</b>				MAT 2410 (5)	
<i>(6 semester credits) Take any two courses from two different categories</i>				MAT 2420 (5)	
AGE 1102 (3)	AGR 2160 (3)	JOU 1005 (3)	PSY 2331 (3)	MAT 2430 (4)	
ECO 1001 (3)	ANT 1001 (3)	PSY 1001 (3)	PSY 2333 (3)	MAT 2431 (5)	
ECO 2001 (3)	ANT 1001 (3)	PSY 1002 (3)	SOC 1001 (3)	MAT 2520 (4)	
ECO 2002 (3)	ANT 1003 (3)	PSY 2771 (3)	SOC 1002 (3)	MAT 2560 (3)	
GEO 1005 (3)	ANT 2115 (3)	PSY 2105 (3)	SOC 2005 (3)		
GEO 1006 (3)	ANT 2550 (3)	PSY 2107 (3)	SOC 2015 (3)		
PSC 1025 (3)	ANT 2115 (3)	PSY 2221 (3)	SOC 2016 (3)		
PSC 2005 (3)	COM 1250 (3)	PSY 2222 (3)	SOC 2018 (3)	<b>History</b>	
PSC 1050 (3)	COM 2220 (3)	PSY 2440 (3)	SOC 2031 (3)	<i>(3 semester credits) Take one course</i>	
PSC 2025 (3)	COM 2300 (3)	PSY 2441 (3)	SOC 2037 (3)	HIS 1110 (3)	HIS 2110 (3)
ETH 2000 (3)	CRJ 1010 (3)	PSY 2552 (3)	WST 2000 (3)	HIS 1120 (3)	HIS 2115 (3)
<b>Additional Electives</b>				HIS 1210 (3)	HIS 2130 (3)
<i>(26 semester credits) Electives selected from the Approved Electives List</i>				HIS 1220 (3)	HIS 2135 (3)
_____	_____	_____	_____	HIS 1310 (3)	HIS 2145 (3)
_____	_____	_____	_____	HIS 1320 (3)	HIS 2200 (3)
_____	_____	_____	_____	HIS 2015 (3)	HIS 2310 (3)
_____	_____	_____	_____		
_____	_____	_____	_____		
				<b>Total: 60 credits needed for AA Degree</b>	



## AIMS Associates of Science: Degree Requirements

<b>Natural &amp; Physical Science</b>				<b>Additional Math and Science Electives</b>	
<i>(8 semester credits) Take two courses in sequential order, at least one with required lab. Credits over 7 will be applied to electives</i>				<i>(26 semester credits) Electives selected from the AS Approved Electives list</i>	
AGY 2140 (4)	BIO 2101 (4)	CHE 1112 (5)	PHY 1105 (4)	AGE 1102 (3)	CSC 1061 (4)
ANT 1005 (4)	BIO 2102 (4)	ENV 1111 (4)	PHY 1111 (5)	AGE 2105 (3)	CSC 2036 (4)
ANT 2315 (4)	BIO 2104 (4)	GEO 1011 (4)	PHY 1112 (5)	AGE 2018 (3)	CSC 2037 (4)
AST 1110 (4)	BIO 2121 (4)	GEO 1012 (4)	PHY 2111 (5)	AGE 2110 (3)	CSC 2046 (3)
AST 1120 (4)	CHE 1005 (5)	GEY 1111 (4)	PHY 2112 (5)	AGR 2160 (3)	ENV 1111 (4)
BIO 1005 (4)	CHE 1011 (5)	GEY 1112 (4)	SCI 1055 (4)	ANT 1005 (4)	GEO 1011 (4)
BIO 1111 (4)	CHE 1012 (5)	GEY 1135 (4)	SCI 1056 (4)	ANT 2315 (4)	GEO 1012 (4)
BIO 1112 (4)	CHE 1111 (5)	MET 1050 (4)		ASC 1100 (3)	GEY 1111 (4)
<b>Arts &amp; Humanities</b>				ASC 2105 (3)	GEY 1112 (4)
<i>(6 semester credits) Take any two courses from two different categories</i>				ASC 2130 (3)	GEY 1135 (4)
ART 1110 (3)	HUM 1003 (3)	LIT 2025 (3)	FRE 2011 (3)	AST 1110 (4)	HLT 1101 (4)
ART 1111 (3)	HUM 1015 (3)	LIT 2046 (3)	FRE 2021 (3)	AST 1120 (4)	HLT 1060 (4)
ART 1112 (3)	HUM 1021 (3)	LIT 2055 (3)	GER 2011 (3)	BIO 1111 (4)	HLT 2102 (4)
ART 1113 (3)	HUM 1022 (3)	PHI 1011 (3)	GER 2012 (3)	BIO 1112 (4)	HLT 2160 (4)
ENG 2021 (3)	HUM 1023 (3)	PHI 1012 (3)	ITA 2011 (3)	BIO 2101 (4)	MAT 1260 (3)
MUS 1020 (3)	LIT 1015 (3)	PHI 1013 (3)	ITA 2012 (3)	BIO 2102 (4)	MAT 1340 (4)
MUS 1021 (3)	LIT 2001 (3)	PHI 1014 (3)	JPN 2011 (3)	BIO 2104 (4)	MAT 1400 (4)
MUS 1022 (3)	LIT 2005 (3)	PHI 1016 (3)	JPN 2012 (3)	BIO 2116 (4)	MAT 1420 (3)
MUS 1023 (3)	LIT 2011 (3)	PHI 2013 (3)	RUS 2011 (3)	CHE 1111 (5)	MAT 2410 (5)
MUS 1025 (3)	LIT 2012 (3)	PHI 2014 (3)	RUS 2012 (3)	CHE 1112 (5)	MAT 2420 (5)
THE 1005 (3)	LIT 2021 (3)	PHI 2018 (3)	SPA 2011 (3)	CHE 2111 (5)	MAT 2430 (4)
THE 2011 (3)	LIT 2022 (3)	PHI 2020 (3)	SPA 2012 (3)	CHE 2112 (5)	MAT 2520 (4)
THE 2012 (3)				CIS 1018 (3)	MAT 2540 (3)
<b>Social and Behavioral Sciences</b>				COM 1150 (3)	MET 1050 (4)
<i>(6 semester credits) Take any two courses from two different categories</i>				COM 1250 (3)	PHY 1105 (4)
AGE 1102 (3)	PSC 2020 (3)	PSY 1001 (3)	PSY 2331 (3)	COM 2300 (3)	PHY 1111 (5)
ECO 1001 (3)	ETH 2000 (3)	PSY 1002 (3)	PSY 2333 (3)	CSC 1019 (3)	PHY 1112 (5)
ECO 2001 (3)	AGR 2160 (3)	PSY 2771 (3)	SOC 1001 (3)	CSC 1060 (4)	PHY 2112 (5)
ECO 2002 (3)	ANT 1001 (3)	PSY 2105 (3)	SOC 1002 (3)		
GEO 1005 (3)	ANT 1003 (3)	PSY 2107 (3)	SOC 2005 (3)		
GEO 1006 (3)	ANT 2115 (3)	PSY 2221 (3)	SOC 2015 (3)	<b>History</b>	
PSC 1011 (3)	ANT 2550 (3)	PSY 2222 (3)	SOC 2016 (3)	<i>(3 semester credits) Take one course</i>	
PSC 1025 (3)	COM 1250 (3)	PSY 2440 (3)	SOC 2018 (3)	HIS 1110 (3)	HIS 2110 (3)
PSC 2005 (3)	COM 2300 (3)	PSY 2441 (3)	SOC 2031 (3)	HIS 1120 (3)	HIS 2115 (3)
PSC 1050 (3)	CRJ 1010 (3)	PSY 2552 (3)	WST 2000 (3)	HIS 1210 (3)	HIS 2130 (3)
PSC 2025 (3)	JOU 1005 (3)			HIS 1220 (3)	HIS 2135 (3)
<b>Additional Required Course</b> <i>(3 credits) Take one course</i>	<b>Written Communication</b> <i>(6 semester credits) Take one pair.</i>	<b>Mathematics</b> <i>(3 semester credits) Credits over 3 will be applied to electives</i>		HIS 1310 (3)	HIS 2145 (3)
		MAT 1220 (3)	MAT 2410 (5)	HIS 1320 (3)	HIS 2200 (3)
COM 1150 (3)	ENG 1021 (3)	MAT 1230 (3)	MAT 2420 (5)	HIS 2015 (3)	HIS 2310 (3)
COM 1250 (3)	ENG 1022 (3)	MAT 1240 (4)	MAT 2430 (4)		
CIS 1018 (3)	or	MAT 1260 (3)	MAT 2520 (4)		
	ENG 1022 (3)	MAT 1340 (4)	MAT 2560 (3)	<b>Total: 60 credits needed for AS Degree</b>	
	ENG 1031 (3)	MAT 1400 (4)			



# Course Descriptions

## ENGLISH

### **Latin American Literature & Film**

**Description:** Latin American literature and film serves as an interdisciplinary gateway course for the high school student interested in broadening their global knowledge of literature, offering an introduction to issues and themes that shape contemporary Latin American society and culture today and its relationship to the United States and the world at large. Latin American Literature and Film introduces students to major literary topics and themes within a variety of Latin American nations and cultures.

**Prerequisites:** ENG095

**Designation:** College Prep

**Credits:** 0.5

### **Literature and Composition 060—Fundamentals**

**Description:** This course focuses on developing a strong foundation in both reading and writing related skills in addition to academic skills such as organization and holding oneself accountable for quality and timely work. The focus will be on communicating in a clear, structured way both verbally and through written work as well as understanding communication from others. This communication will be practiced in many different modes focusing on the various ways reading, writing, listening, and speaking occur in our world.

**Prerequisites:** Placement based on NWEA MAP score, NextGen ACCUPLACER score, and/or teacher recommendation.

**Designation:** College Prep

**Credits:** 0.5

### **Literature and Composition 060.2—Fundamentals Semester 2**

**Description:** This course is a continuation of the 060 class with a focus on fundamental skills. This course is designed to support students in a way that sets them up for success in college prep courses at CEC. 060.2 emphasizes reading strategies for both fiction and nonfiction texts, writing and communicating clearly for a variety of audiences and purposes, and overall academic skills like organization, accountability, and time management.

**Prerequisites:** Composition and Literature 060; teacher recommendation

**Designation:** College Prep

**Credits:** 0.5

### **Literature and Composition 090—Foundational College Prep English 1**

**Description:** This course provides an intensive introduction to college prep English work by establishing a foundation of skills needed for all reading and writing at CEC. Students will practice analytical reading skills in a variety of genres including short stories, poems, novels, and nonfiction. The focus will be on close reading, where students use specific passages from the text to develop and support their interpretations of literary works as well as recognize how texts function as a whole and the conventions of using communication in different settings. Students will focus on the devices used to achieve their own writing purposes and appeal to their audiences by composing various types of essays and learning the conventions and expectations of the typical college essay. Students will be challenged to grow not only in their reading and composition capabilities but also as students and individuals pursuing their individual pathways in life through various reading, writing, and discussion activities.

**Prerequisites:** Placement based on NWEA MAP score, NextGen ACCUPLACER score, OR successful completion of 060/060.2.



**Designation:** College Prep

**Credits:** 1.0

### **Literature and Composition 095-Comprehensive College Pre English**

**Description:** This course provides a comprehensive overview of all college prep English skill sets. Students will be challenged to analyze and evaluate texts at a more advanced level to prepare for college-level reading tasks and to articulate, in both speech and writing, interpretations of poems, short stories, novels, and plays. They will also practice writing skills including a focus on the sentence level as well as making intentional decisions to compose various genres of writing effectively. Students will focus on conducting research and thinking critically about how to gather, process, and use information to become thoughtful, productive citizens in the modern world.

**Prerequisites:** NWEA MAP scores, ACCUPLACER scores, and/or COMP and LIT 090

**Designation:** College Prep

**Credits:** 1.0

### **Literature and Composition 099—Cumulative College Prep English**

**Description:** This course is a culmination of all college prep skill sets and is designed to assist students in becoming independently capable of college communication tasks and critical thinking. Students will be asked to refine their critical reading, analysis, and evaluation abilities with various fiction and nonfiction texts. They will also perfect writing skills including a focus on the sentence level as well as making intentional decisions to compose various genres of writing effectively. Students will focus their semester on a passion project which will serve as a capstone at the conclusion of college prep English coursework.

**Prerequisites:** LIT/COMP 095; teacher recommendation

**Designation:** College Prep

**Credits:** 1.0

### **Screenwriting**

**Description:** This course is an English elective where student learn how to write screenplays and writing for film. It will be a workshop environment that builds on skills they've learned in their English classes.

**Prerequisites:** Recommended L/C 095 or higher

**Designation:** College Prep

**Credits:** 0.5

### **ENG 1021—English Composition I**

**Description:** Emphasizes the planning, writing, and revising of composition, including the development of critical and logical thinking skills. This course includes a wide variety of compositions that stress analytical, evaluative, and persuasive/argumentative writing.

**Prerequisites:** ACCUPLACER score and teacher recommendation

**Designation:** Front Range Community College

**Credits:** 3.0 College Credits/1.0 High School

### **ENG 1022—English Composition II**

**Description:** This course introduces the student to the fundamental features of academic inquiry, reinforces student knowledge of source material and MLA format, and assists the student in becoming a stronger and more confident writer, arguer, thinker, and citizen. Students will draw on the knowledge and skills gained in ENG121 and refine the drafting and revising process, progressing along the continuum that began in 121.

**Prerequisites:** ENG 1021

**Designation:** Front Range Community College



**Credits:** 3.0 College/1.0 High School

### **ENG 2021—Creative Writing**

**Description:** Teaches techniques for creative writing. Explores imaginative uses of language through creative genres (fiction, poetry, and other types of creative production such as drama, screenplays, graphic narrative, or creative nonfiction) with emphasis on the student's own unique style, subject matter, and needs.

**Prerequisites:** Lit/Comp 095

**Designation:** College Prep

**Credits:** 0.5

### **COM 1150—Public Speaking**

**Description:** Combines the basic theories of communication with public speech performance skills. Emphasis is on speech preparation, organization, support, audience analysis, and delivery.

**Prerequisites:** NGW score

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **COM 1250—Interpersonal Communication**

**Description:** Examines the communication involved in interpersonal relationships occurring in family, social, and career situations. Relevant concepts include self-concept, perception, listening, nonverbal communication, and conflict.

**Prerequisites:** COMP 095

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **LIT 1015—Introduction to Literature**

**Description:** The purpose of Literature 1015 is to provide students with a general overview of literature. Lit 1015 asks students to read and analyze at a level that is consistent with deeper understanding of the material and its broader purpose in society. It also asks students to articulate how such literature is created and why an author would choose specific devices to create meaningful effects for his audience. To gain this understanding over a broad spectrum, students will be asked to read multiple genres including fiction, drama, and poetry. Overall, students should use this class as an opportunity not just to learn about literature but to see how literature applies to society at large and why literature can serve such an important role in the general fabric of what a society becomes.

**Prerequisites:** NGW Score

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School



## MATH

### **MAT 060—Pre-Algebra**

**Description:** This course's content includes vocabulary, properties, operations, applications of real numbers (i.e., fractions, decimals, signed numbers), and algebraic expressions. It also covers the solution of basic first-degree equations, associated word problems, graphing on coordinate plane, and introduction of systems.

**Prerequisites:** Placement based on NextGen ACCUPLACER score and/or teacher recommendation.

**Designation:** College Prep

**Credits:** 0.5

### **Geometry**

**Description:** This course covers the following skills:

- Perform geometric transformations (reflection, rotation, translation, dilation) and find symmetry.
- Determine relationships between figures (such as similarity and congruence) in terms of rigid motions and similarity transformations.
- Explain properties of plane figures
- Execute proofs of geometric theorems and use coordinates to prove geometric theorems.
- Model with geometry and create geometric constructions (with compass and straightedge)
- Find measurements of plane figures (such as area, perimeter, and angle measure) and three-dimensional solids (such as volume and surface area).
- Apply theorems about circles, including arc lengths and areas of sectors.
- Utilize tools for analyzing and measuring right triangles, general triangles, and complex shapes (such as the Pythagorean Theorem, trigonometric ratios, and the Laws of Sines and Cosines).
- Use algebra to formulate and solve equations arising from geometric situations.
- Calculate probability (independence and conditional probability, compound events, expected value, and permutations and combinations).

**Prerequisites:** Pre-Algebra

**Designation:** College Prep

**Credits:** 1.0

### **Geometry A**

**Description:** This course covers the first half of the skills listed under the "Geometry" course and is paired with Geometry B which covers the second half of the skill set.

**Prerequisites:** Pre-Algebra

**Designation:** College Prep

**Credits:** 0.5

### **Geometry B**

**Description:** This course covers the second half of the skills listed under the "Geometry" course and should be taken after "Geometry A".

**Prerequisites:** Geometry A

**Designation:** College Prep

**Credits:** 0.5

### **Applied Geometry A/B**





**Description:** This course is paired with a Geometry course to focus on learning the same concepts but in an application format. Students will spend this second hour of the course in the Innolab working on hands-on projects that directly apply the geometry skill sets learned that week. Geometry begins the exploration of math as an art. In this course, students will learn to identify and construct various geometric figures and prove theorems associated with them. Principles of reasoning will be learned to aid in making conjectures and proving theorems, as well as applications of those theorems in a Euclidean geometry setting. To allow students to begin to appreciate some of the subtle beauties of mathematics, the course will explore concepts through real-world applications within the construction industry.

**Co-Requisite:** Geometry A/B

**Designation:** College Prep

**Credits:** 0.5

### **MAT 090A—Algebra I A (Semester 1)**

**Description:** This course spans two semesters to better grasp the Algebra I content. 090A covers the following:

- Represent linear and exponential relationships using graphs, tables, equations, and contexts.
- Manipulate expressions to solve problems by factoring, distributing, multiplying polynomials, and expanding exponential expressions.
- Analyze the slope of a line graphically, numerically, contextually, and algebraically.
- Solve equations and systems of equations using a variety of strategies.
- Represent arithmetic and geometric sequences.
- Investigate square root, cube root, absolute value, piecewise-defined, step, and simple inverse functions.
- Use function notation.
- Analyze two-variable data and explain the differences between association and causation and interpret correlation in context.

**Prerequisites:** MAT 060

**Designation:** College Prep

**Credits:** 0.5

### **MAT 090B—Algebra I B (Semester 2)**

**Description:** This course spans two semesters to better grasp the Algebra I content. 090B covers the following:

- Represent linear, quadratic, and exponential relationships using graphs, tables, equations, and contexts.
- Manipulate expressions to solve problems by factoring, distributing, multiplying polynomials, and expanding exponential expressions.
- Analyze the slope of a line graphically, numerically, contextually, and algebraically.
- Solve inequalities and systems of inequalities using a variety of strategies.
- Represent arithmetic and geometric sequences and use exponential models to solve problems.
- Investigate square root, cube root, absolute value, piecewise-defined, step, and simple inverse functions.
- Compare distributions of one-variable data

**Prerequisites:** MAT 090A

**Designation:** College Prep

**Credits:** 0.5

### **MAT 099—Algebra II**

**Description:** This course's content includes the vocabulary, systems, relations and functions, rational expressions and equations, inequalities, radical and complex numbers, and quadratic equations.

**Prerequisites:** Algebra I A&B; Geometry

**Designation:** College Prep



**Credits:** 1.0

### **Math Content Lab 099**

**Description:** Supports skill development necessary for success within Algebra II

**Co-Requisite:** MAT 099

**Designation:** College Prep

**Credits:** 0.5

### **Personal Finance**

**Description:** Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

**Prerequisites:** This course is designed for 11th and 12th grade students

**Designation:** College Prep

**Credits:** 1.0

### **Applied Math – Work Keys**

**Description:**

- Numeracy
- Measurement, Fractions, Percent & Decimal
- Rates, Ratios & Proportions
- Geometric Calculations
- Statistical Concepts
- Graphs, Charts, Tables
- Diagrams, Gauges, Flowcharts
- Dashboards, Scatter Plots

**Co-Requisite:** Teacher recommendation

**Designation:** College Prep

**Credits:** 0.5

### **Financial Awareness – Work Keys**

**Description:**

- Checking & Savings Accounts
- Budgeting
- Credit Cards
- Loans
- Insurance
- Financial Planning
- Investing

**Co-Requisite:** Teacher recommendation

**Designation:** College Prep

**Credits:** 0.5

### **MAT 1340—College Algebra**

**Description:** Focuses on a variety of functions and the exploration of their graphs. Topics include equations and inequalities, operations on functions, exponential and logarithmic functions, linear and non-linear systems, and an introduction to conic sections. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.



**Prerequisites:** MAT 099 and ACCUPLACER  
**Designation:** Front Range Community College  
**Credits:** 4.0 College/1.5 High School

### **Math Content Lab College Algebra**

**Description:** Supports skill development necessary for success within College Algebra.  
**Co-Requisite:** MAT 1340  
**Designation:** College Prep  
**Credits:** 0.25

### **MAT 1260—Introduction to Statistics**

**Description:** Introduces descriptive and inferential statistics, with an emphasis on critical thinking and statistical literacy. Topics include methods of data collection, presentation and summarization, introduction to probability concepts and distributions, and statistical inference of one and two populations. This course uses real world data to illustrate applications of a practical nature.  
**Prerequisites:** Algebra II and Accuplacer  
**Designation:** Front Range Community College  
**Credits:** 3.0 College/1.0 High School

### **MAT 1440—Pre-Calculus**

**Description:** Extends algebraic concepts and explores the subject of trigonometry. Topics include polynomial, rational, logarithmic, and exponential functions, trigonometric and inverse trigonometric functions and their graphs, trigonometric identities, and applications. This course provides essential skills for Science, Technology, Engineering, and Math (STEM) pathways.  
**Prerequisites:** MAT 1340  
**Designation:** Front Range Community College  
**Credits:** 5.0 College/2.0 High School

### **MAT 2410—Calculus I**

**Description:** Introduces single variable calculus and analytic geometry. Includes limits, continuity, derivatives, and applications of derivatives as well as indefinite and definite integrals and some applications.  
**Prerequisites:** MAT 1420 OR MAT 1440  
**Designation:** Front Range Community College  
**Credits:** 5.0 College/2.0 High School

### **MAT 2420—Calculus II**

**Description:** Continues the study of single variable calculus which will include techniques of integration, analytic geometry, improper integrals, convergence of infinite numerical series and power series. This is a statewide Guaranteed Transfer course in the GT-MA1 category.  
**Prerequisites:** MAT 2410  
**Designation:** Front Range Community College  
**Credits:** 5.0 College/2.0 High School

### **MAT 2431—Calculus III/Engineering Applications**

**Description:** Focuses the traditional subject matter of multivariable Calculus with an additional emphasis on word problems and problem solving. Topics include vectors, vector-valued functions, partial derivatives, analytic



geometry, multiple integrals, line integrals, Stokes', Divergence Theorems and Green's Theorems, and applications. A graphing calculator is required for this course.

**Prerequisites:** MAT 2420

**Designation:** Front Range Community College

**Credits:** 5.0 College/2.0 High School



## SCIENCE

### **Biology A (Micro) with Lab**

**Description:** During this course students will practice cooperative, inquiry and project-based learning in the study of molecular and cellular biology including biochemistry, cell structure and function, the metabolic process of respiration and photosynthesis, cellular reproduction and the basic concepts of genetics. Laboratory experiences will encourage scientific thinking by following procedures, collecting, and analyzing data.

**Prerequisites:** MAT 060

**Designation:** College Prep

**Credits:** 0.5

### **Biology B (Macro) with Lab**

**Description:** Students will explore large scale systems of biology: Ecology and Evolution. Students will examine how these systems interact and the processes that shape our environments. During this course students will practice cooperative, inquiry and project-based learning in the study of environmental and evolutionary biology. Laboratory experiences will encourage scientific thinking by collecting and analyzing data.

**Prerequisites:** Biology A (Micro)

**Designation:** College Prep

**Credits:** 0.5

### **Chemistry A with Lab**

**Description:** Chemistry A is the first semester of a year-long course in Chemistry. During this course, students will practice cooperative, inquiry and self-guided learning in the study of matter including matter and change, measurements, atomic theory, chemical bonding, nomenclature, and chemical reactions. The course will be structured around a mix of lectures, group activities and labs. These activities will include working in small groups to provide the opportunity to reinforce the lecture material through various visual presentations and descriptions and receive help from the instructor. Laboratory experiences will encourage scientific thinking by following procedures, collecting, and analyzing data and writing lab reports. Homework will emphasize the concepts being studied in class and provide opportunities for the student to use source material, including the textbook, to master the material. Successful completion of Chemistry A is the prerequisite for Chemistry B. This course sequence will prepare the student for higher level science courses including college biology and college-level general chemistry. The two-semester sequence is strongly recommended for any student planning to pursue a science or engineering degree.

**Prerequisites:** Geometry and MAT 090A OR Alg 1 and concurrently enrolled in Geometry

**Designation:** College Prep

**Credits:** 0.5

### **Chemistry B with Lab**

**Description:** Chemistry B is the second semester of a year-long course in Chemistry. During this course, students will practice cooperative, inquiry and self-guided learning in the study of matter including chemical reactions, stoichiometry, states of matter, the gas laws, properties of water and solutions, thermochemistry, acid-base chemistry, and nuclear chemistry. The course will be structured around a mix of lectures, group activities and labs. These activities will include working in small groups to provide the opportunity to reinforce the lecture material through various visual presentations and descriptions and receive help from the instructor. Laboratory experiences will encourage scientific thinking by following procedures, collecting, and analyzing data and writing lab reports. Homework will emphasize the concepts being studied in class and provide opportunities for the student to use



source material, including the textbook, to master the material. Successful completion of Chemistry A and concurrent enrollment in Algebra II or higher are the prerequisite for Chemistry B. This course sequence best prepares the student for higher level science courses including college biology and college-level general chemistry and is strongly recommended for any student seeking an Associate of Science degree or Bachelor of Science degree.

**Prerequisites:** Continuing progress in math sequence; Chemistry A with C or better

**Designation:** College Prep

**Credits:** 0.5

### **Physical Science with Lab**

**Description:** This course is designed to help students develop the skills and abilities necessary to be successful in science classes. The course will do so through the study of scientific measurement, data analysis focusing on chemistry and physics. Students will learn both general problem solving and laboratory techniques, as well as specific concepts from each field, throughout several lectures and laboratory assignments in each section. Students will leave the course with a set of tools for future science classes as well as an indication of which sciences most appeal to their interests.

**Prerequisites:** MAT 060

**Designation:** College Prep

**Credits:** 1.0

### **Earth and Space Science with Lab**

**Description:** The Earth and Space Science course is a course focusing on the study of space, geologic structures and forces, the waters on our planet, and the atmospheric forces that shape our world. Students will explore the Earth's spheres including the geosphere, hydrosphere, cryosphere, atmosphere, and the cycles of the Earth. Students will learn scientific inquiry, geologic time, space exploration, the solar system, and the universe.

**Prerequisites:** MAT 060

**Designation:** College Prep

**Credits:** 1.0

### **Science Olympiad**

**Description:** Students will explore the 23 events of Science Olympiad. Students will learn topics ranging from Chemistry to Astronomy, Anatomy to Structural Engineering. You will meet these challenges through hands-on problem solving, careful study, and thinking outside the box in preparation for competition.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **ANT 1005 - Biological Anthropology with Lab**

**Description:** Focuses on the study of the human species and related organisms, and examines principles of genetics, evolution, anatomy, classification, and ecology, including a survey of human variation and adaptation, living primate biology and behavior, and primate and human fossil evolutionary history. This is a statewide Guaranteed Transfer course in the GT-SC1 category.

**Prerequisites:** CCR 092 (ENG 0092) or CCR 093 (ENG 0093) or CCR 094 (ENG 0094) or ENG 121 (ENG 1021) or higher

**Designation:** Front Range Community College

**Credits:** 4 High School/1.0 High School



### **BIO 1005—Science of Biology with Lab**

**Description:** Examines the basis of biology in the modern world and surveys the current knowledge and conceptual framework of the discipline. Explores biology as a science, a process of gaining new knowledge, and the impact of biological science on society. This course includes laboratory experience. Designed for non-science majors. This course is one of the Statewide Guaranteed Transfer courses. GT-SC1.

**Prerequisites:** College English Readiness: Equivalent testing score or enrollment in or completion of ENG090 or higher. College Math Readiness: Equivalent testing score or enrollment in or completion of MAT0250 or higher.

**Designation:** Front Range Community College

**Credits:** 4.0 College/1.0 High School

### **CHEM 1011—Introduction to Chemistry I with Lab**

**Description:** Introduction to Chemistry I is a 5-credit course designed for non-science majors, students in occupational and health programs, and students with no chemistry background. Topics covered include the study of measurements, atomic theory, chemical bonding, nomenclature, stoichiometry, solutions, acids and bases, gas laws, and condensed states. Laboratory experiments will demonstrate the above concepts qualitatively and quantitatively. This course is one of the Statewide Guaranteed Transfer courses, GT-SC1. This course will also help students develop problem-solving techniques and gain a greater appreciation of the impact science has on our daily lives.

**Prerequisites:** College English Readiness: Equivalent testing score or enrollment in or completion of ENG090 or higher. College Math Readiness: Equivalent testing score or enrollment in or completion of MAT0250 or higher.

**Designation:** Front Range Community College

**Credits:** 5.0 College/2.0 High School

### **GEY 1111—Physical Geology with Lab**

**Description:** Introduces the major topics of geology. Course content encompasses Earth's materials, structure, and surface landforms. Geologic time and the geologic processes responsible for Earth's internal and external features are covered. This course includes laboratory experience.

**Prerequisites:** College English Readiness: Equivalent testing score or enrollment in or completion of ENG090 or higher. College Math Readiness: Equivalent testing score or enrollment in or completion of MAT0250 or higher.

**Designation:** Front Range Community College

**Credits:** 4.0 College/1.5 High School

### **GEY 1112—Historical Geology with Lab**

**Description:** Covers the development of Earth through the vast span of geologic time. Emphasis is on the investigation and interpretation of sedimentary rocks and features, the record of ancient environments, fossil life forms, and physical events in Earth's history within the framework of plate tectonics. This course includes laboratory experience.

**Prerequisites:** GEY 1111

**Designation:** Front Range Community College

**Credits:** 4.0 College/1.5 High School

### **GEY 1135—Environmental Geology with Lab**

**Description:** Environmental Geology introduces the subject of geology as it relates to human activities. Geologic hazards such as floods, landslides, earthquakes, and volcanoes are investigated. Mineral, energy, soil and water resources are discussed in terms of their geologic formation and identification, usage by society and associated environmental impacts. Land use issues, waste and pollution are also examined.



**Prerequisites:** College English Readiness: Equivalent testing score or enrollment in or completion of ENG090 or higher. College Math Readiness: Equivalent testing score or enrollment in or completion of MAT0250 or higher.

**Designation:** Front Range Community College

**Credits:** 4.0 College/1.5 High School





## SOCIAL SCIENCE AND HUMANITIES

### Geography

**Description:** This course examines how climate and resources impact the movement and development of human societies. We will take a regional approach, studying how interactions between humans and their environment have impacted the characteristics of major world regions. Students will also learn to use geographic tools and resources to analyze Earth's human systems and physical features to investigate and address geographic issues.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 1.0

### Global Studies I

**Description:** Students engage in a course centered around the idea/concept: of How Societies deal with change. This will be seen through the lens of History and the Political movements in Europe, South America, Africa, and Asia post WW2. Via Geography through the lens of natural disasters such as Tsunami's, Droughts, and Volcanic eruptions. Economics via the concepts of the Business cycle and what nations do to make corrections to it. As well as making use of Populations, The State, Economic Systems, Culture, and Social Structures. Using an inquiry-based process and case study approach, spanning a variety of specific regions and time periods, this course will provide a broad way of thinking about both Geography, Economics and World History, as well as develop the skills necessary for further success in high school social studies.

**Prerequisites:** Comp/Lit 090 or higher recommended

**Designation:** College Prep

**Credits:** 1.0

### Global Studies II

**Description:** Students engage in a course centered around the idea/concept: of How Societies deal with change. This will be seen through the lens of History and the Political movements in Europe, South America, Africa, and Asia post WW2. Via Geography through the lens of natural disasters such as Tsunami's, Droughts, and Volcanic eruptions. Economics via the concepts of the Business cycle and what nations do to make corrections to it. As well as making use of Populations, The State, Economic Systems, Culture, and Social Structures. Using an inquiry-based process and case study approach, spanning a variety of specific regions and time periods, this course will provide a broad way of thinking about both Geography, Economics and World History, as well as develop the skills necessary for further success in high school social studies.

**Prerequisites:** Comp/Lit 090 or higher recommended

**Designation:** College Prep

**Credits:** 1.0

### Civics

**Description:** Students will study the history and civil government of the United States and of the state of Colorado. Topics include the history and contents of the Constitution, the functions of the three branches of government, structure of Colorado's government, and key events in Colorado history. Students will also discuss current events at the national and local levels.

**Prerequisites:** Comp/Lit 090 or higher recommended

**Designation:** College Prep

**Credits:** 1.0

### ANT 1001 – Cultural Anthropology



**Description:** Examines the study of human cultural patterns, including communications, including communication, economics systems, social and political organizations, religion, healing systems, and cultural change. This is a statewide Guaranteed Transfer course in the GT-SS# category.

**Prerequisites:** Accuplacer or ENG095

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **HIS 1120—The World: 1500-Present**

**Description:** Explores peoples, groups, ideas, institutions, and trends that have shaped World History from 1500 to the present. Reflects the multiple perspectives of gender, class, religion, and ethnic groups in a broad global sense. Focuses on the common denominators among all people. This approach goes beyond political borders to provide a better appreciation for different cultures. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in this discipline.

**Prerequisites:** COMP/LIT 095

**Designation:** Front Range Community College

**Credits:** 3.0

### **HIS 1210-U.S History 1500s to 1865 (Pre Colombian to the Civil War)**

**Description:** Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, race, sexuality, between the period of the Pre-Colombian Era to the American Civil War. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline using primary and secondary sources related to US History.

**pre-requisites:** COMP/LIT 095

**Designation:** Front Range Community College

**Credits:** 3.0

### **HIS 1220—US History Since the Civil War**

**Description:** Explores events, trends, peoples, groups, cultures, ideas, and institutions in United States History, including the multiple perspectives of gender, class, and ethnicity, between the period of the American Civil War and the present. Focuses on developing, practicing, and strengthening the skills historians use while constructing knowledge in the discipline.

**Prerequisites:** COMP/LIT 095

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **CRJ 1010—Introduction to Criminal Justice**

**Description:** Introduces students to the basic components of the criminal justice system in the United States. Concepts of crime, perspectives and views of crime, crime data, theory, victimization, and law are discussed. Particular attention to the criminal justice process, interaction and conflict between criminal justice agencies, and current criminal justice issues are examined.

**Prerequisites:** COMP/LIT 095

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PHI 1012—Ethics**

**Description:** Examines human life, experience, and thought to discover and develop the principles and values for pursuing a more fulfilled existence. This course examines ethical theories designed to both justify moral



judgments, as well as apply these ethical theories to a selection of personal and social issues in the world today. This is a statewide Guaranteed Transfer course in the GT-AH3 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PHI 2018 – Environmental Ethics**

**Description:** Analyzes theories of the value of the natural world. Topics may include the relation between scientific and moral principles; theories of the moral worth of persons, animals, plants, and other natural objects; historical, religious, and cultural influences on conceptions of nature; alternative accounts of human relationships and responsibilities to nature; and the connection between moral and political values and economic policies. This is a statewide Guaranteed Transfer course in the GT-AH3 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PHI 2020 – Philosophy of Death and Dying**

**Description:** Explores the major philosophical questions surrounding death and dying, the metaphysical arguments for and against the existence of the soul, life after bodily death, the major ethical theories and their relation to issues of physician-assisted suicide, care for the dying, the grieving process, death as expressed in aesthetics and contemporary society, as well as the existential contributions concerning meaning of life and the meaning of death. This is a statewide Guaranteed Transfer course in the GT-AH3 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PSC 1025—American State and Local Government**

**Description:** Emphasizes the structure and function of state, county, and municipal governments including their relations with each other and with national government. Includes a study of Colorado government and politics. This is a statewide Guaranteed Transfer course in the GT-SS1 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PSY 1001—General Psychology I**

**Description:** Focuses on the scientific study of behavior including motivation, emotion, physiological psychology, stress and coping, research methods, consciousness, sensation, perception, learning and memory.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **PSY 1002—General Psychology II**

**Description:** Focuses on the scientific study of behavior including cognition, language, intelligence, psychological assessment, personality, abnormal psychology, therapy, life span development, sex, gender, sexuality, and social psychology. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School



**PSY 2440—Human Growth/Development**

**Description:** Examines human development from conception through death, emphasizing physical, cognitive, emotional, and psychosocial factors.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

**PSY 2221- Social Psychology**

**Description:** Focuses on the behavior of humans in a wide variety of social settings and the social influences humans have on each other in those settings. This is a statewide Guaranteed Transfer course in the GT-SS3 category.

**Prerequisites:** LIT/COMP 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College Credit/1.0 High School



## COLLEGE AND CAREER READINESS

### **Wolf Connection**

**Description:** Wolf Connection is designed to help students discover their unique place at CECFC and to provide the tools needed for a successful transition into high school. Students will connect with staff and peer mentors to discuss and improve various skills, including organization, study skills, effective communication, conflict resolution, and ethical use of technology. Additionally, students will create measurable short and long-term goals for academic success.

**Prerequisites:** Required for all 9th graders and recommended for new 10th graders

**Designation:** College Prep

**Credits:** 0.25

### **Student Success**

**Description:** Student Success is a support class designed to help students to be successful in their other courses and at CECFC. Students will meet with a small group and have individual check in time with a mentor to work on the following: tracking and prioritizing work, establishing healthy academic habits, structuring a productive work environment, and specific academic support and/or tutoring when applicable.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.25

### **Career Pathways**

**Description:** Students will explore career pathways through three approaches in this course. The first is identifying the strengths, values, and interests the student has. From there, students will learn about different career “clusters” that exist and choose an area that matches best with what they currently know about themselves. Through the vehicle of “Professional Learning Communities” and industry specific mentors, students will further explore careers and long-term skill sets needed to be successful. The last component is a passion project related to these identified skill areas and strengths that students will continue to adapt as a final project that brings them one step closer to understanding their potential career journey as well as developing “professional skills” necessary postgraduation to be successful in college and/or career.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 1 Credit

### **Work-Based Learning**

**Description:** Internships, Paid Work, On the Job Training, or Apprenticeships that align with ICAP goal. Students must complete a minimum of 25 work experience within the semester. Students are required to meet weekly with the WBL Coordinator.

**Prerequisites:** Complete Work-Based Learning Contract

**Designation:** College Prep

**Credits:** 0.25 per 25 hours of work experience

### **BUS 2016- Legal Environments of Business**

**Description:** Focuses on legal statutes that regulate business and consumers. This course examines the legal entities of business organizations including formation, governance, and applications. The techniques of commercial



transactions and negotiations will be developed with business entities for the successful promotion of commerce. Corporate responsibility, its role in ethical decision-making, and its application of law and regulation will be analyzed.

**Prerequisites:** Lit/Comp 095 or higher recommended)

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

**BUS 2017—Business Communication An**

**Description:** Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

**Prerequisites:** Lit/Comp 095 or higher recommended

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

## WORLD LANGUAGES

### French I

**Description:** French I is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice and perspectives of the Francophone world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other speakers of French-(Interpersonal mode); reading, listening and viewing as a receptive process in which comprehension is developed-(Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information-(Presentational mode). Students communicate in real-life contexts where grammar and vocabulary are integrated according to various real-life situations in which they are required to function. Many of these tasks also connect to other content areas. Through the language learning process, students develop an understanding of how their own language is structured and how their own culture has unique aspects. Emphasis is placed on the use of French in the classroom as well as on the use of authentic materials to learn about the culture.

**Prerequisites:** COMP/LIT 060

**Designation:** College Prep

**Credits:** 1.0

### French II

**Description:** French II is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice and perspectives of the Francophone world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other speakers of French-(Interpersonal mode); reading, listening and viewing as a receptive process in which comprehension is developed-(Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information-(Presentational mode). This course builds on grammar and vocabulary learned in French I, where students learned to communicate in the present indicative, to include communication in imperative, future and past tenses.

**Prerequisites:** French I

**Designation:** College Prep

**Credits:** 1.0

### Mandarin Chinese I

**Description:** This is a beginner Chinese class focused on learning Chinese culture and simple words for greetings, names, family members, numbers, days, dates, time, directions, weather, food, cloth, transportation, etc.

**Prerequisites:** COMP/LIT 060

**Designation:** College Prep

**Credits:** 1.0

### Mandarin Chinese II

**Description:** This is a second level Chinese class focused on daily communications. Students will learn how to express their needs, opinions, comments, etc.

**Prerequisites:** Mandarin Chinese I

**Designation:** College Prep

**Credits:** 1.0

### **Spanish I**

**Description:** Spanish I is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice, and perspectives of the Spanish-speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other Spanish speakers (Interpersonal mode); reading, listening, and viewing as a receptive process in which comprehension is developed (Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information (Presentational mode). Students communicate in real-life contexts where grammar and vocabulary are integrated according to various real-life situations in which they are required to function. Many of these tasks also connect to other content areas. Through the language learning process, students develop an understanding of how their own language is structured and how their own culture has unique aspects. Emphasis is placed on the use of Spanish in the classroom as well as on the use of authentic materials to learn about the culture. An important component of this course is the use of Spanish beyond the classroom in order to apply it in the real world.

**Prerequisites:** COMP/LIT 060

**Designation:** College Prep

**Credits:** 1.0

### **Spanish II**

**Description:** Spanish II is a semester long course that focuses on the development of students' communicative competence and their understanding of the cultural products, practice, and perspectives of the Spanish-speaking world. Communicative competence is divided into three modes: speaking and writing as an interactive process in which students learn to communicate with other Spanish speakers (Interpersonal mode); reading, listening, and viewing as a receptive process in which comprehension is developed (Interpretive mode); and speaking and writing in a presentational context in which students are focused on organization of thoughts and awareness of their audience when delivering information (Presentational mode). Students communicate in real-life contexts where grammar and vocabulary are integrated according to various real-life situations in which they are required to function. Many of these tasks also connect to other content areas. Through the language learning process, students develop an understanding of how their own language is structured and how their own culture has unique aspects. Emphasis is placed on the use of Spanish in the classroom as well as on the use of authentic materials to learn about the culture. An important component of this course is the use of Spanish beyond the classroom in order to apply it in the real world.

**Prerequisites:** Spanish I

**Designation:** College Prep

**Credits:** 1.0

### **Spanish III**

**Description:** Spanish III is a semester long course that will focus on various topics such as art, music, literature, etc. in order to comprehend, respect and appreciate the Hispanic World. Students will continue to develop their proficiency in speaking, listening, writing and reading by reviewing content they learned in Spanish I and II, as well as learning new vocabulary and grammatical structures. The course will implement the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of tasks to understand written and spoken passages, to communicate with others through informal/formal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. The course will also touch on the importance of foreign languages as a career and will provide students with the opportunity to explore those options as with translation techniques, interpretation projects, etc. The





course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Prerequisites:** Spanish II

**Designation:** College Prep

**Credits:** 1.0

### **Latin I**

**Description:** Description: Latin 1 (fall semester) is a robust course that covers a thorough traditional college-prep first year Latin syllabus. Students gain a foundation in basic Latin and Roman history, civilization, mythology, and culture, exploring all topics listed on the [www.nle.org](http://www.nle.org) Beginning Latin Exam (formerly Latin I Exam) syllabus in significant depth. Students prepare to take the National Latin Exam (Beginning Level) and are eligible to attend the annual Colorado and National Junior Classical League conventions. Students also take the National Roman Civilization Exam and the National Classical Etymology Exam contests as part of this course.

**Prerequisites:** COMP/LIT 060

**Designation:** College Prep

**Credits:** 1.0

### **Latin II**

**Description:** Latin 2 (spring semester) is a robust course that covers a thorough traditional college-prep second year Latin syllabus. Students solidify their foundation in basic Latin and Roman history, civilization, mythology, and culture, and expand their knowledge of Latin vocabulary and grammar. Students take the National Latin Exam (Beginning Level) and are eligible to attend the annual Colorado and National Junior Classical League conventions. Students also take the National Latin Vocabulary Exam contest and may opt to take the National Pegasus or Medusa Mythology Exam contests as part of this course.

Prerequisite: Latin 1 or passing the Latin 1 final exam.

**Prerequisites:** COMP/LIT 060, Latin I

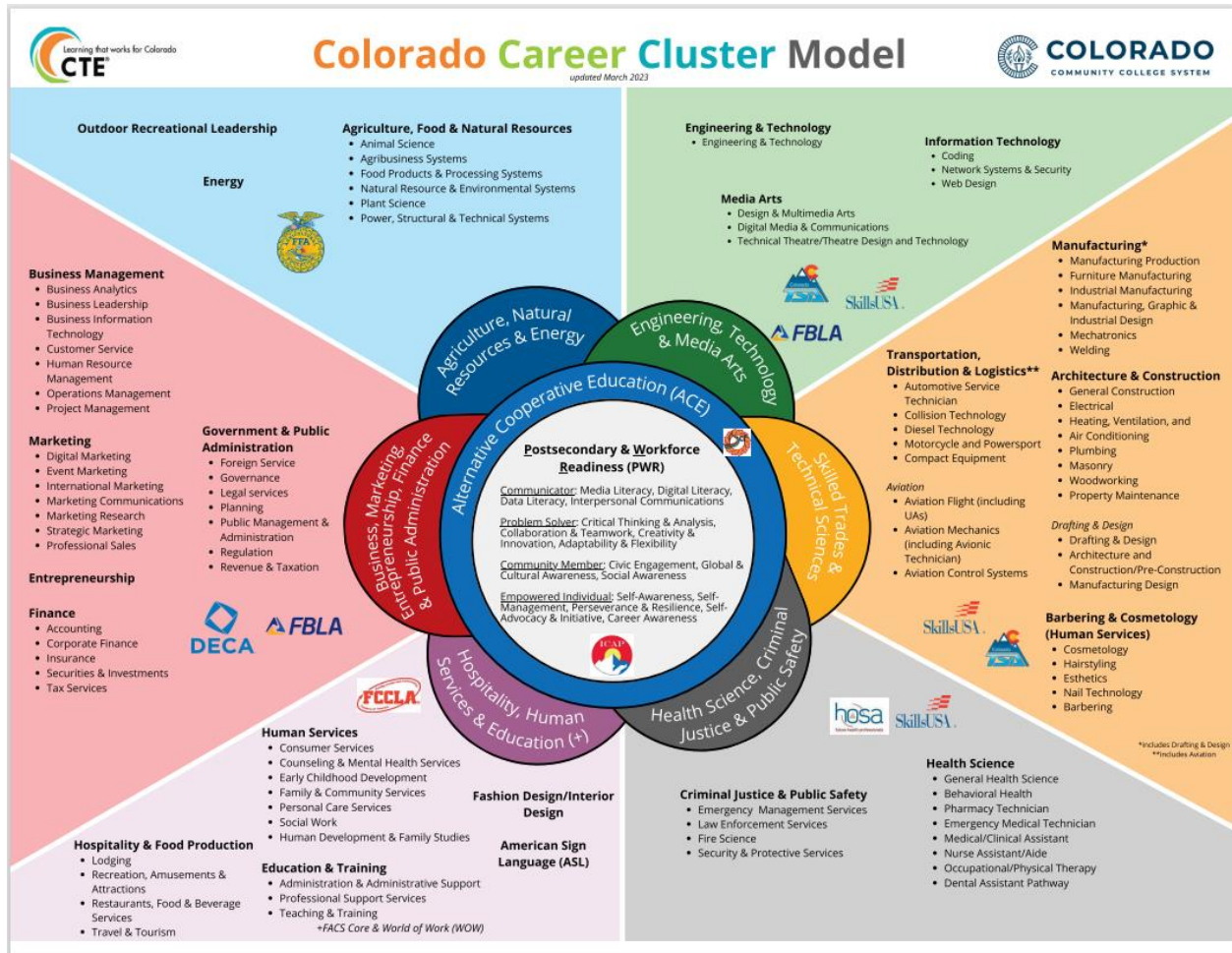
**Designation:** College Prep

**Credits:** 1.0

# CAREER AND TECHNICAL EDUCATION PATHWAYS

## What is a CTE Program?

Career and technical education (CTE) consists of programs teaching specific career skills to students in middle school, high school, and post-secondary institutions. In Colorado CTE is split into 17 career clusters that meet the criteria of being high-wage, high skill, and high-demand careers. CECFC has CTE programs in STEM, Construction, Art, Information Technology, and Business.



## Structure of a CTE Program

CTE programs consist of a sequence of courses that are designed to teach students the skills they need to be successful academically and in the workplace in that career cluster. All programs have a sequence of four courses that students can take while at CECFC. All our programs start with a class that focuses on career exploration, includes the opportunity to earn industry certifications, and has an associated student organization. Most programs level 4 course is a capstone project or work-based learning experience that exposes students to working that industry. Programs are guided by an advisory board made up of industry, education partners and other stakeholders.



## CAREER AND TECHNICAL EDUCATION COURSES

### **Principles of Engineering**

**Description:** Introduction to Engineering is designed to introduce students to the STEM cluster for students interested in learning more about careers in engineering and technology. This course covers basic skills required for engineering and technology fields of study. Upon completion of this course, students are able to identify and explain the steps in the engineering design process. They can evaluate an existing engineering design, use fundamental sketching and engineering drawing techniques, complete simple design projects using the engineering design process, and effectively communicate design solutions to others.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **Applied Geometry A/B**

**Description:** This course is paired with a Geometry course to focus on learning the same concepts but in an application format. Students will spend this second hour of the course in the Innolab working on hands-on projects that directly apply the geometry skill sets learned that week. Geometry begins the exploration of math as an art. In this course, students will learn to identify and construct various geometric figures and prove theorems associated with them. Principles of reasoning will be learned to aid in making conjectures and proving theorems, as well as applications of those theorems in a Euclidean geometry setting. To allow students to begin to appreciate some of the subtle beauties of mathematics, the course will explore concepts through real-world applications within the construction industry.

**Prerequisites:** ?

**Designation:** College Prep

**Credits:** 0.5

### **Robotics 1A**

**Description:** Robotics & Automated Systems is an applied course for students who wish to explore how robots and automated systems are used in industry. Upon completion of this course, students will have an understanding of the historical and current uses of robots and automated systems; programmable circuits, interfacing both inputs and outputs; ethical standards for engineering and technology professions; and testing and maintenance of robots and automated systems.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **Robotics 1B**

**Description:** Robotics 1B is designed for students that want to continue exploring the building and creating of robots but do not wish to participate on a competition team.

**Prerequisites:** Robotics 1A

**Designation:** College Prep

**Credits:** 0.5

### **Robotics 2**

**Description:** Robotics will allow students to develop skills in the robotics field by studying programming, electronics, pneumatics, hydraulics, and mechanical systems. Robotics applications and career exploration in the

robotics industry are incorporated in this course. Students will apply Physical Science, Mathematics, and Technology while getting hands-on experience designing, constructing, and testing robots. This course will be of interest to students planning careers in automated manufacturing and engineering. Students will have the opportunity to compete in VEX Robotics competitions against teams from around the state. These competitions are not required as part of the class and participation does not affect grades.

**Prerequisites:** Robotics 1B or sufficient robotics experience; First time Robotics 2 students must register for this class in the Fall Semester

**Designation:** College Prep

**Credits:** 0.5

### **Drone Basics**

**Description:** This course introduces students to rules and regulations required for them to pass the UAS Remote Pilot Certification. Students will also have the opportunity to have hands-on experience piloting a drone. Students that successfully complete this course will have the information necessary for them to pass the FAA's "Part 107" airman knowledge test. The FAA Part 107 is a set of rules for operating a drone commercially. Topics include but are not limited to: Certification Pathway, Drone Theory and Aeronautics, Regulations and Operating Rules, Airspace Classification, Weather, sUAS Loading and Performance, Crew Management, Radio Communications, Airport Operations, and Maintenance and Inspection Procedures. Students must be 16 to take the Part 107 exam but do not need to be 16 to take the course.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **Woodworking I**

**Description:** Woodworking 1 will cover basic concepts of woodworking, providing a student with the knowledge to apply their skills to progressively more intricate projects. Students enrolled in the course will learn how to design, plan and construct wood projects, including a project of their own design. We will be covering proper use of both power and hand tools, with a paramount focus on safe operation of these tools, as well as shop safety procedures. All students will have to pass a rigorous safety test before using any equipment and abide by strict safety rules in the shop. Students explore precision measurement of wood fabrication through careful and thorough project planning. Students will also earn their OSHA 10 Certification in this class.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **Woodworking II**

**Description:** Woodworking 2 is designed to build upon the basic concepts of woodworking, providing a student with the knowledge to apply their skills to intricate projects. Students enrolled in the course will improve their skills designing, planning, and constructing wood projects, including a project of their own design. We will be covering proper use of both power and hand tools, with a paramount focus on safe operation of these tools, as well as shop safety procedures. All students will have to pass a rigorous safety test before using any equipment and abide by strict safety rules in the shop. A final project incorporates all skills a student has developed over Woodworking 1 and 2.

**Prerequisites:** Woodworking I

**Designation:** College Prep

**Credits:** 0.5



### **Emergency Safety Training**

**Description:** Students in this hands-on course will have the opportunity to complete First Aid, CPR & AED, and Wilderness First Aid certifications and learn about relevant in fields where first aid and emergency safety protocols are necessary.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **Small Engines Repair**

**Description:** Small Engine Repair is for students of all abilities to learn more about internal combustion engines. It blends theoretical and practical learning to develop a deeper understanding of the inner workings of small engines. Students will ultimately demonstrate their understanding by proposing and completing a project that practically applies to an engine.

**Prerequisites:** none

**Designation:** College Prep

**Credits:** 0.5

### **BUS 2016—Legal Environment of Business**

**Description:** Emphasizes public law, regulation of business, ethical considerations, and various relationships existing within society, government, and business. Specific attention is devoted to economic regulation, social regulation, regulation and laws impacting labor-management issues, and environmental concerns. Students develop an understanding of the role of law in social, political, and economic change.

**Prerequisites:** NextGen ACCUPLACER score (Comp/Lit 095 or higher recommended)

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School

### **BUS 2017—Business Communication**

**Description:** Emphasizes effective business writing and covers letters, memoranda, reports, application letters, and resumes. Includes the fundamentals of business communication and an introduction to international communication.

**Prerequisites:** NextGen ACCUPLACER score (Comp/Lit 095 or higher recommended)

**Designation:** Aims Community College

**Credits:** 3.0 College/1.0 High School



## COMPUTER SCIENCE

### Computer Science Foundations

**Description:** Computer Science Foundations (CSF) is a course intended to provide students with exposure to various information technology occupations and pathways such as Networking Systems, Coding, Web Design, and Cybersecurity. Upon completion of this course, proficient students will be able to describe various information technology (IT) occupations and professional organizations. Moreover, they will be able to demonstrate logical thought processes and discuss the social, legal, and ethical issues encountered in the IT profession. Depending on the focus area, proficient students will also demonstrate an understanding of electronics and basic digital theory; project management and teamwork; client relations; causes and prevention of Internet security breaches; and writing styles appropriate for web publication. Upon completion of the CSF course, students will be prepared to make an informed decision about which Information Technology program of study to pursue.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Certification Lab

**Description:** Students will participate in self-paced courses to earn a variety of self-selected certifications.

**Prerequisites:** None

**Credits:** 0.5

### PC Apps

**Description:** A structured and supportive environment for students to work on the Introduction to PC Applications course.

**Co-requisite:** CIS 1018

**Credits:** 0.5

### PC Apps Lab

**Description:** A structured and supportive environment for students to work on the Introduction to PC Applications course.

**Co-requisite:** CIS 1018

**Credits:** 0.5

### CIS 1018—Introduction to PC Applications

**Description:** Introduces basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, databases, and presentation graphics. Includes the use of a web browser to access the Internet.

**Prerequisites:** MAT 090

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

## VISUAL ART

### High School Art Foundations I/II/III

**Description:** This course introduces the concepts and significance of visual arts, including media, processes, techniques, and terminology. Students will explore the content of the course through the creation of original art projects including drawing, ceramic hand building, and other art media.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Textiles I/II/III

**Description:** During Textiles, students will learn basic sewing skills including hand sewing, cutting patterns, using a serger, pinning, and sewing with a machine. These skills will be applied towards producing a sample book of hand stitching, creating a garment from a pattern, altering an existing garment, and a final project of the student's own design. For this final project, students can explore additional textiles-related skills such as embroidery or use the skills already covered in the course to create another similar project. There is an optional but recommended supplies list for the class which includes things like hand sewing needles and fabric scissors.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Introduction to Film

**Description:** This course is an exploration of film. The curriculum will focus on seeing and understanding film as an art and a reflection of our lives. This class is designed to assist students in analysis, writing, comprehension, and communication skills. Students will be asked to interpret, analyze, and explain various films. They will view films and discuss their thoughts with the class both verbally and through writing. They will also learn to understand film through writing. Students will learn how to write short films and the narrative structure/language of film. Students will focus on themselves as individuals and the world we live in through film analysis and screenwriting.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Adobe Cert Lab with Photography

**Description:** Concentrates on the high-end capabilities of a raster photo-editing software as an illustration, design and photo retouching tool. Students explore a wide range of selection and manipulation techniques that can be applied to photos, graphics, and videos. Students participating in this course will have the opportunity to earn an Adobe Photoshop Certification.

**Prerequisites:** (basic keyboarding and computer knowledge required)

**Designation:** College Prep

**Credits:** 0.5

### Yearbook

**Description:** Our yearbook will be the product of the students who create it. The students will research yearbooks and develop a plan for the design, theme, layout, cover, copy, captions, etc. Based on their plan, the students will set goals in advance of deadlines. Throughout the semester, students will work hard to meet these goals and submit required materials by all deadlines set by the printer. Group and individual projects will help students hone their skills, resulting in a better final product. Students will have the opportunity to create a multimedia project of their choosing to demonstrate the skills they've learned over the semester.





**Prerequisites:** COMP 090 (Recommended)

**Designation:** College Prep

**Credits:** 0.5

### **ART 1110—Art Appreciation**

**Description:** Introduces the cultural significance of the visual arts, including media, processes, techniques, traditions, and terminology.

**Prerequisites:** COMP 090

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1201—Drawing I**

**Description:** Investigates the various approaches and media that students need to develop drawing skills and visual perception.

**Prerequisites:** COMP/LIT 060

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1202—Drawing II**

**Description:** Explores expressive drawing techniques with an emphasis on formal composition, color media and content or thematic development.

**Prerequisites:** ART 121

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1002—Visual Concepts- 2-D Design**

**Description:** Examines the basic elements of design, visual perception, and artistic form and composition as they relate to two-dimensional media.

**Prerequisites:** COMP/LIT 060

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1003—Visual Concepts- 3-D Design**

**Description:** Focuses on learning to apply the elements and principles of design to three-dimensional problems.

**Prerequisites:** COMP/LIT 060

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1703—Ceramics I**

**Description:** Introduces traditional and contemporary approaches to ceramic form and processes, with an emphasis on hand building techniques, and a basic introduction to the potter's wheel. This course includes basic surface design, glaze, and kiln firing procedures.

**Prerequisites:** COMP/LIT 060

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **ART 1704—Ceramics II**





**Description:** Course covers ceramic wheel throwing and explores intermediate-level traditional and contemporary approaches to ceramic form and processes. This course emphasizes wheel throwing techniques and forms. It covers additional development of surface design, glazing, glaze formulation, and kiln firing procedures.

**Prerequisites:** ART 1703

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School



## PERFORMING ARTS

### Guitar I

**Description:** This course is designed for students who are brand new at playing the guitar. Students will learn chords, individual note reading (tab), scales, and strumming/rhythm. Students are responsible for practicing outside of class time. No concerts are given. Students will need to provide their own acoustic guitar, tuner and capo. Be sure to bring your guitar on the first day of class! Class size is limited to 8 students.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.25

### Guitar II

**Description:** This is a continuation of Guitar 1. Students will learn chords, tab, scales, strumming, along with alternate tuning, picking, and chord structure/set up for song writing. Prerequisite: students must have taken Guitar 1 or know basic first position chords on the guitar (A, E, G, C, D em, am). Practice outside of class time is a must. No concerts are given. Students will need to provide their own acoustic guitar, tuner, and capo. Bring your guitar on the first day of class! Class size is limited to 8 students.

**Prerequisites:** Guitar I

**Designation:** College Prep

**Credits:** 0.25

### Concert Choir

**Description:** Choir is a performance-based singing class that develops sight-reading, pitch memory, basic music notation, proper tone quality, breath management and group performance techniques. Any student can join Concert choir. You do not have to have prior experience. Participation in four concerts plus other special programs is required. This course may be repeated for additional credits. Students can choose to be in both choirs and receive credit for each.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Cantabile Choir

**Description:** This course is for students who already have shown some advanced skills and are able to take responsibility; It is designed around the rehearsal and performing of semester repertoire. Students in this course will be equipped with the ability to sing with good vocal health, proper diction, and posture proficiently. Students will be exposed to a broad range of musical genres and repertoire that they will have hands-on experience with rehearsing in class and performing for peers, family, and the public.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### Band

**Description:** Students in this class will cultivate and refine music ensemble performance skills, learn to read and interpret assigned musical parts, improve primary instrumental musical performance, collaborate with peers in a larger group, and learn a variety of musical performance techniques.

**Prerequisites:** One year of prior band experience or one year of private lessons on your instrument.



**Designation:** College Prep

**Credits:** 0.5

### **Jazz Band**

**Description:** Jazz Band exposes the student to various types of jazz literature in order to obtain an appreciation of the area of musical performance. Jazz Band is open to students who play the following instruments: woodwind, brass, percussion, guitar, electric bass, and piano.

**Prerequisites:** Auditions

**Designation:** College Prep

**Credits:** 0.5

### **Orchestra**

**Description:** Students in this class will cultivate and refine music ensemble performance skills, learn to read and interpret assigned musical parts, improve primary instrumental musical performance, collaborate with peers in a larger group, and learn a variety of musical performance techniques.

**Prerequisites:** One year of prior orchestra experience or one year of private lessons on your instrument.

**Designation:** College Prep

**Credits:** 0.5

### **Theater**

**Description:** Covers basic acting techniques and approaches including scene study, improvisation, and script analysis. It includes practical application through classroom performance.

**Designation:** College Prep

**Credits:** 0.5

### **Musical Theater**

**Description:** This audition-only class will rehearse and perform a musical in the late Spring semester. Students will learn acting, singing, staging, blocking, choreography, stage make-up, props, set design, sound and lights. Auditions are held in the fall. Students must have prior approval from the instructor to join the class. Actors, singers, and primary tech roles (sound, lights, stage manager) must enroll in the class in order to participate in the musical. Singers must enroll in at least 1 section of choir to maintain proper singing technique/vocal training.

**Prerequisites:** Audition only

**Designation:** College Prep

**Credits:** 0.5

### **Tech Theater**

**Description:** This audition-only class will rehearse and perform a musical in the late Spring semester. Students will learn acting, singing, staging, blocking, choreography, stage make-up, props, set design, sound and lights. Auditions are held in the fall. Students must have prior approval from the instructor to join the class. Actors, singers, and primary tech roles (sound, lights, stage manager) must enroll in the class in order to participate in the musical. Singers must enroll in at least 1 section of choir to maintain proper singing technique/vocal training.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.5

### **MUS 1020—Music Appreciation**

**Description:** Introduces the study of music focusing on intelligent listening skills, the elements of music and their relationships, the musical characteristics of representative works and composers, common musical forms and



genres of various Western, and non-Western historical style periods. This is a statewide Guaranteed Transfer course in the GT-AH1 category.

**Prerequisites:** COMP/LIT 090

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **MUS 1023 – Survey of World Music**

**Description:** Provides an overview of music from around the globe including folk, ethnic, non-Western and popular styles. Develops basic listening skills and builds a historical/cultural context for world music styles to enable an understanding and appreciation of global music. This is a statewide Guaranteed Transfer course in the GT-AH1 category.

**Prerequisites:** COMP/LIT 090

**Designation:** Front Range Community College

**Credits:** 3.0 College/1.0 High School

### **MUS 1031—Music Class I (piano)**

**Description:** Applies the fundamentals of music to the voice or specific musical instruments. This course also introduces basic techniques, repertoire, and sight-reading.

**Prerequisites:** None

**Designation:** Front Range Community College

**Credits:** 2.0 College/1.0 High School

### **MUS 1032—Music Class II (piano)**

**Description:** Applies the fundamentals of music to the voice or specific musical instruments. The course also introduces basic techniques, repertoire, and sight-reading.

**Prerequisites:** MUS 1031

**Designation:** Front Range Community College

**Credits:** 2.0 College/1.0 High School



## Support Courses

### Resource Lab

**Description:** Resource Lab is a support class designed to help students to be successful in their other courses and at CECFC. Students will learn and work on the following: tracking and prioritizing work, establishing healthy academic habits, structuring a productive work environment, and specific academic support and/or tutoring when applicable.

**Prerequisites:** Teacher recommendation

**Designation:** College Prep

**Credits:** 0.25-0.5

### English Language Development

**Description:** The curriculum is designed to accelerate students' acquisition of English so that students can enter mainstream content courses as quickly as possible. The ELD department works to ensure that all English Learners, from newcomers to those who have lived here for several years, develop the literacy and language skills necessary to access the high school curriculum. We strive to prepare our students for the language demands of the post-secondary world, both in the workplace and in college.

**Prerequisites:** WIDA ACCESS

**Designation:** College Prep

**Credits:** 0.5

### Student Success

**Description:** Student Success is a support class designed to help students to be successful in their other courses and at CECFC. Students will meet with a small group and have individual check in time with a mentor to work on the following: tracking and prioritizing work, establishing healthy academic habits, structuring a productive work environment, and specific academic support and/or tutoring when applicable.

**Prerequisites:** None

**Designation:** College Prep

**Credits:** 0.25

### Wolf Pack

**Description:** The goal of Wolf Pack is to build community between students at CECFCHS. Students accepted into the Wolf Pack will be required to attend Wolf Pack class. During the class, we will study Social-Emotional Learning skills that will allow students to build confidence in helping others. Students are asked to complete an hour of work in their specialty in addition to helping with Wolf Pack and school events.

**Prerequisites:** Application

**Designation:** College Prep

**Credits:** .25

### Student Government

**Description:** Students run and plan events, advocate for students with administration, and create culture at CEC. It is a way for students to connect with CEC and practice being leaders.

**Prerequisites:** Elections in Spring

**Designation:** College Prep

**Credits:** .25