

# Addendum to the 2011-2012 Online and Printed Catalogs

FRCC apologizes for any inconvenience due to the following changes.

## Course Offerings Section:

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**Change:** Opening paragraph, a revised statement should read:  
"A corequisite must be taken concurrently with a course."

### Accounting

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**Add:** ACC 132 Tax Help Colorado (2). This course prepares the students for preparation of federal and state income tax returns for individuals. Emphasis is placed on form preparation with the use of tax software. Lecture.

**Add:** ACC 133 Tax Help Colorado Practicum (1). This course allows students to prepare actual federal and state income tax returns for individuals in the real time environment. Lecture.

### Architectural Engineering & Construction Technology

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**Change:** AEC 122: AEC 121 may be a *Corequisite* OR *Prerequisite*.

**Change:** AEC 216: Add CIS 118 as a *Prerequisite*.

**Add:** AEC 141 Civil Construction Materials (5). Investigates the composition, properties and testing of heavy/civil construction materials including soils, aggregates, Portland cement concrete, asphaltic/bituminous materials, ferrous and nonferrous metals, and structural timber. Laboratory experiments are performed to supplement lecture topics, including applied testing of Portland cement, concrete, steel, aluminum and asphalt. Prerequisite: AEC 121.

**Add:** AEC 223 Civil Construction Systems (3). Provides an introductory study of planning, design, construction and operation principles related to heavy/civil construction projects including earthwork, structures, highways, streets, and roads, bridges, tunnels, railways, airports, and urban mass transit systems. Computation, drawing interpretation and route surveying exercises are performed to supplement lecture topics. Prerequisite: AEC 141.

**Add:** AEC 224 Civil Water/Environmental Systems (3). Study of water supply and treatment, wastewater collection and treatment, storm water control, waste management and pollution control. Computations on hydraulics, hydrology, water supply and sewer lines, and overland and ditch drainage are introduced. Prerequisite: AEC 121.

**Add:** AEC 241 Introductory Steel Detailing (3). Introduces structural steel detailing of commercial and industrial buildings. Topics include structural steel, assemblies (i.e., angle frames, handrails, ladders, and stairs), framing plans, anchor bolt plans, shop drawings and erection drawings. Emphasis is placed on fabrication methods and use of standard load tables in AISC, SJI and SDI manuals in selecting steel beams, lintels, columns, joists, and deck used in roof and floor systems. Prerequisites: AEC 121 and AEC 123 and CAD 202; and Corequisites: AEC 205 and AEC 206 OR Prerequisites: AEC 205 and AEC 206.

**Add:** AEC 242 Advanced Steel Detailing (3). Teaches an advanced course in structural detailing involving application of current design standards. Emphasis is on connection design and designing basic structural components such as beams, columns, and cross bracing systems. Work will involve computations, tabular data, and an introduction to computer modeling with intelligent structural detailing software. Prerequisites: AEC 121 and AEC 123 and CAD 202; and Corequisites: AEC 206 and TEC 210 OR Prerequisites: AEC 206 and TEC 210.

**Add:** AEC 243 Computerized Steel Detailing (3). Gives an advanced course in structural detailing in computer modeling of steel framed structures. Emphasis is on integrating detailing and design principles with intelligent structural detailing software. Prerequisite: AEC 242.

### Art

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**Change:** Beginning in Spring 2012, all ART course prerequisites will be effective.

**Change:** ART 229 Printmaking II was formerly ART 226.

### Auto Service Technology

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**Change:** ASE 123: Prerequisites: ASE 101 and ASE 120 (these courses can also be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060 and REA 060. Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090 and REA 090.

**Change:** ASE 132: Prerequisites: ASE 101, 120, and 123 (these courses can be taken concurrently), and minimum assessment scores to enroll in ENG 060, MAT 060 and REA 060. Recommended Preparation: minimum assessment scores to enroll in ENG 090, MAT 090 and REA 090.

**Change:** ASE 152: ASE 151 may be a *Corequisite* OR *Prerequisite*

**Change:** ASE 240: Prerequisites: ASE 101 and ASE 140.

**Change:** ASE 251: Prerequisites: ASE 101 and ASE 250.

### American Sign Language

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**Change:** ASL 102: Prerequisites: ASL 101 or ASL 121 or ASL 122 or ASL 123 or ASL 221.

**Change:** ASL 122: Prerequisites: ASL 121 or ASL 123 or ASL 221.

**Change:** ASL 123: Prerequisites: ASL 122 or ASL 221. Corequisites: ASL 125 (Fall only) must be taken concurrently.

**Change:** ASL 125: Prerequisites: ASL 122 or ASL 221.

**Add:** ASL 124 Intermediate ASL (3). Strengthens foundational ASL receptive and expressive skills in American Sign Language (ASL) by enhancing the student's ability to comprehend and express lexical, grammatical and syntactical principles at an intermediate level. Conversational skills will be developed incorporating appropriate use of cultural discourse markers. Specific attention will be given to the spatial nature of the language. This course is a pre-requisite for Advanced ASL 1, in the coordinated AGS/BA degree in ASL-English Interpretation.

### Chemistry

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**Add:** CHE 102 Introduction to Chemistry II (5). Focuses on introductory organic and biochemistry (sequel to Introduction to Chemistry I). This course includes the study of hybridization of atomic orbitals for carbon, nomenclature of both organic and biochemical compounds, physical and chemical properties of various functional groups of organic chemistry, and physical and chemical properties of biochemical compounds along with their biochemical pathways. Laboratory experiments are included.

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## CIS, CNG, CSC & CWB

*Change:* All Prerequisites should be Recommended Preparation

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## Early Childhood Education

*Change:* ECE 102: Prerequisite OR Corequisite: ECE 101.

*Change:* ECE 112: Prerequisite OR Corequisite: ECE 111.

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## Education

*Change:* EDU 289: Prerequisites OR Corequisites: TEL 100 and TEL 102 and TEL 103 and TEL 188 and TEL 225 and EDU 134 or TEL 245.

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## Energy

*Add:* ENY 235 Energy Systems Design (3). Integration of energy system functions in a typical building including: codes and standards; energy economics; electrical system organization; waste heat recovery; utility system optimization; HVAC building system optimization. Prerequisite: ENY 101.

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## Fire Science Wildland

*Add:* FSW 143 S-212 Wildfire Chain Saws (2). Provides introduction to the function, maintenance and use of internal combustion, engine-powered chain saws and their tactical wildland fire application. Modules support entry-level training for firefighters with little or no previous experience in operating a chain saw and provides hands-on cutting in surroundings similar to fireline situations. Prerequisite OR Corequisite: FSW 100 and FSW 101.

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## Geography

*Add:* GEO 275 Special Topics. Provides students with a vehicle to pursue in depth exploration of special topics of interest. Prerequisites: GEO 105 or GEO 106.

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## Geographic Information Systems

*Change:* GIS 101: Prerequisite OR Corequisite: GIS 110 at BCC only.

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## Heating, Ventilation & AC

*Change:* HVA 102: HVA 101 may be a Corequisite OR Prerequisite

*Change:* HVA 104: HVA 103 may be a Corequisite OR Prerequisite

*Change:* HVA 124: HVA 123 may be a Corequisite OR Prerequisite

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## Health Professional

*Change:* HPR 112 Phlebotomy. Add Prerequisite: ENG 060. Delete Corequisite HPR 113.

*Change:* HPR 113 Advanced Phlebotomy. Add Prerequisite: ENG 060.

*Change:* HPR 178 Medical Terminology credit hours should be 1-4 instead of 2.

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## Holistic Health Professional

*Change:* HHP 100, 130, 142, 204, 205 & 244: All should have ENG 090 as a Prerequisite

*Change:* HHP 225: Prerequisites: HHP 224 or HHP 244.

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## Hospitality & Culinary Arts Management

*Change:* HOS 112: Prerequisite OR Corequisite: CUA 101.

*Change:* HOS 121: Prerequisite OR Corequisite: CUA 101.

*Change:* HOS 240: No Prerequisite.

*Change:* HOS 250: No Prerequisite.

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## Interpreter Preparation AAS Degree

*Change:* The "Total Required General Education Credits" should be 16 instead of 15.

*Change:* The "Total Required Credits for the AAS Degree" should be 76 instead of 75.

*Change:* IPP 125: Prerequisite OR Corequisite: IPP 121.

*Change:* IPP 135: Prerequisites: ASL 123 and IPP 121. Corequisites: ASL 221 and IPP 122.

*Change:* IPP 227: Prerequisites: ASL 221 and IPP 122.

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## Manufacturing Technology

*Delete* course MTE 120 Manufacturing Processes.

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## Management

*Change:* MAN 160 Entrepreneurship is now 3 Credit Hours and has 45 Contact Hours.

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## Math

*Change:* MAT 166 Pre-Calculus. Prerequisite: MAT 121.

*Add:* MAT 096 Combined Intro/Intermediate Algebra (6). This accelerated course covers all the material in MAT 090 and MAT 099 only in 6 credits. Students must have a "A" in MAT 060 or Accuplacer EA score of 57 or higher. In addition, students must fill out an application packet. The process will include filling out a questionnaire, getting a signature from a math professor or advisor, taking a MAT 096 Readiness Test, and having an interview. Details are in the application packet which can be picked up in the advising office or by emailing monica.geist@frontrange.edu to have one sent. This course will have a required online homework component." Recommended Preparation: MAT 060.

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## Medical Office Technology

*Change:* MOT 130, 138, 140, 142, 150, 180, 181, 182, 183 & 184: All Prerequisites should be Recommended Prep.

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## Multimedia Technology

*Change:* Video AAS degree: MGD 143 Web Motion Graphics I should be MGD 243 Web Motion Graphic Design II.

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## Nurse Aide

*Change:* NUA 101 Certified Nurse Aide Health Care Skills. Prerequisites: ENG 090 and REA 090. There is no Corequisite.

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## Nursing

*Change:* NUR 230 Leadership, Management & Trends should read: Prerequisite: Successful completion of all preceding professional nursing course work with a grade of C or above or permission of the Program Director. Corequisite: Successful completion of concurrent professional nursing program course work with a grade of C or above or permission of the Program Director.

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## Pharmacy Technician

*Change:* PHT 118: Prerequisite OR Corequisite: PHT 115.

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## Philosophy

*Change:* PHI 111, 112, 113 and 114: No Prerequisites.

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## Teaching English as a Second Language

*Change:* Corequisites: TEL 100 or TEL 101 or TEL 102 OR Prerequisites: TEL 100 or TEL 101 or TEL 102.

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## Welding

*Change:* WEL 101 through WEL 264: WEL 100 may be a Corequisite OR Prerequisite.

## Legal Notices Section:

### Student Sexual Harassment Complaint Procedure

Please see the Student Tab/General Information Channel of eWolf for the current "Student Sexual Harassment Complaint Procedure" documents.

## Financial Matters Section:

### Tuition and fees rates presented are the actual rates for FY 2011-2012.

Credit Hour	Total Base Tuition		Fees		COF Stipend *		Student Share Tuition/Fees		* COF Stipend
	Resident	Non Resident	Registration Fee	Student Fees	Resident	Non Resident	Resident	Non Resident	
1	167.85	434.30	11.65	34.78	(62.00)	0.00	152.28	480.73	The State of Colorado historically subsidized higher education for in-state students by giving money directly to the colleges. In 2004 the Colorado Legislature enacted a new law establishing the College Opportunity Fund (COF). Under this new law, starting in the Fall semester 2005, the State gives this money for the subsidy to students by sending it to the institution the student designates. This money, known as College Opportunity Fund stipend, is applied to an in-state student's tuition if the student applies for and authorizes the use of the stipend. The college the student attends receives the money and it will appear as a credit on the student's tuition bill.
2	335.70	868.60	11.65	39.56	(124.00)	0.00	262.91	919.81	
3	503.55	1302.90	11.65	44.34	(186.00)	0.00	373.54	1358.89	
4	671.40	1737.20	11.65	49.12	(248.00)	0.00	484.17	1797.97	
5	839.25	2171.50	11.65	53.90	(310.00)	0.00	594.80	2237.05	
6	1007.10	2605.80	11.65	58.68	(372.00)	0.00	705.43	2676.13	
7	1174.95	3040.10	11.65	63.46	(434.00)	0.00	816.06	3115.21	
8	1342.80	3474.40	11.65	68.24	(496.00)	0.00	926.69	3554.29	
9	1510.65	3908.70	11.65	73.02	(558.00)	0.00	1037.32	3993.37	
10	1678.50	4343.00	11.65	77.80	(620.00)	0.00	1147.95	4432.45	
11	1846.35	4777.30	11.65	82.58	(682.00)	0.00	1258.58	4871.53	
12	2014.20	5211.60	11.65	87.36	(744.00)	0.00	1369.21	5310.61	
13	2182.05	5645.90	11.65	92.14	(806.00)	0.00	1479.84	5749.69	
14	2349.90	6080.20	11.65	96.92	(868.00)	0.00	1590.47	6188.77	
15	2517.75	6514.50	11.65	101.70	(930.00)	0.00	1701.10	6627.85	
16	2685.60	6948.80	11.65	106.48	(992.00)	0.00	1811.73	7066.93	
17	2853.45	7383.10	11.65	111.26	(1054.00)	0.00	1922.36	7506.01	
18	3021.30	7817.40	11.65	116.04	(1116.00)	0.00	2032.99	7945.09	

#### ESTIMATED BASE TUITION CALCULATION

Total Base In-State Tuition . . . . . \$167.85  
**Plus** Registration Fee. . . . . +11.65  
**Plus** Student Fees. . . . . +7.78  
**Minus** "College Opportunity Fund Stipend" . . . . . - 62.00  
**Student's Estimated Share of In-State Tuition \$125.28**

For the most current tuition and fee rates, please visit [www.frontrange.edu/prospective-students/tuition-and-fees](http://www.frontrange.edu/prospective-students/tuition-and-fees).

## Degrees and Certificates Section:

**Some Program Codes have recently changed or were not available at the time of the most recent catalog printing:**

#### Hospitality & Culinary Arts Management AAS Concentrations:

Advanced Culinary Arts	F_AAS_HOSF, HFM1
Hotel Management	F_AAS_HOSF, HFM2
Restaurant Management	F_AAS_HOSF, HFM3
Special Events Planning	F_AAS_HOSF, HFM4

#### Hospitality & Culinary Arts Management Certificates:

Culinary Arts	F_CER_HOSC
Events Planning Coordinator	F_CER_HOSE
Food & Beverage Management	F_CER_HOSM
Hotel Operations	F_CER_HOC
Nurse Aide Certificate	F_CER_NUAD
Nursing AAS Degree	F_AAS_NR1

## Degrees and Certificates Section:

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### 999 Transfer Courses

Courses transferred in with a 999 course number will be applied to the Additional Electives category for that prefix unless otherwise indicated on the Approved Electives List.

TRN 999 Electives will also be applied to the Additional Electives category.

### Guaranteed Transfer Courses

Guaranteed transfer courses that are not offered by FRCC, but are taken at other Colorado institutions, may apply to the appropriate GT category under Required General Education Courses.

## Programs Deleted:

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For the following programs, please refer to an older catalog. When a program is deleted, students who have previously started but have not yet completed the prescribed course of study, are typically given two years to complete the requirements. Students affected by these changes should contact an advisor.

*Following is a list of closed programs over the past year:*

#### Architectural Engineering & Construction Technology:

- Structural Engineering Technology AAS Degree
- Civil Engineering Technology AAS Degree
- Building Electrical/Mechanical Drafting Certificate

#### Computer Information Systems:

- Small Office/Help Desk Specialist Concentration

#### Early Childhood Education:

- Child Development Associate Certificate
- Group Leader Certificate
- Paraprofessionals in the Inclusive Classroom Certificate

#### Emergency Medical Services:

- Emergency Medical Technician - Intermediate Certificate
- Paramedic Certificate

#### Interior Design:

- Fundamentals of Interior Design

#### Paramedic AAS Degree

## Course Name Changes:

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COURSE	OLD NAME	NEW NAME
AEC 208	Building Electrical Systems. . . . .	Building Environment Systems I
AEC 210	Building Mechanical Systems . . . . .	Building Environment Systems II
COM 209	Finding Your Creative Self . . . . .	Interpersonal Communications
HHP 263	Creating a Holistic Practice. . . . .	Creating a Holistic Business
MUS 100	Fund. of Music Theory. . . . .	Intro to Music Theory I
MUS 101	Intro to Music Theory . . . . .	Intro to Music Theory II
MUS 105	Introduction to Electronic/Com. . . . .	Intro to Comp Music Applications
MUS 121	Music History I . . . . .	Music Hist Mdl-Classical: AH1
MUS 122	Music History II . . . . .	Music Hist Romantic-Prsnt: AH1
MUS 161	Music Technology I. . . . .	Computer Music Applications I

## Course Credit Hour Changes:

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COURSE	NAME	OLD CREDITS	NEW CREDITS
AEC 208	Building Environment Systems I . . . . .	.2	.3
AEC 210	Building Environment Systems II . . . . .	.4	.3
MAN 160	Entrepreneurship. . . . .	.6	.3
VET 243	Veterinary Diagnostic Microbiology. . . . .	.4	.3

## Courses Added and Deleted:

### Courses Added

Course Number & Name	Credits	Course Number & Name	Credits
ART 129 Printmaking I . . . . .	3	IND 205 Professional Practice . . . . .	2
BUS 110 Working for Yourself . . . . .	2	JPN 211 Japanese Language III . . . . .	3
CAD 105 Autocad for Interiors. . . . .	4	JPN 212 Japanese Language IV . . . . .	3
CAD 115 Sketchup . . . . .	3	LIT 248 Native American Literature. . . . .	3
CAD 229 Revit Structure . . . . .	3	MAN 103 Managing Business Change. . . . .	1
CHI 211 Chinese Language III . . . . .	3	MAN 128 Human Relations in Organizations . . . . .	3
CNG 133 Fire Walls/Network Security . . . . .	3	MAN 129 Labor Relations. . . . .	3
CNG 258 Computer Forensics . . . . .	4	MAN 201 Human Resources Management II. . . . .	3
COM 209 Interpersonal Communication . . . . .	3	MAN 205 Event Planning . . . . .	3
CRJ 257 . . . . .	3	MAN 212 Negotiation and Conflict Resolution . . . . .	3
DPM 100 Introduction to Diesel Mechanics . . . . .	2	MAR 106 Marketing Your Image . . . . .	3
DPM 103 Diesel Engines I. . . . .	4	MAR 160 Customer Service . . . . .	3
DPM 203 Diesel Engines II . . . . .	4	MAT 166 Pre-Calculus . . . . .	5
ECE 237 Social and Emotional Growth . . . . .	3	MAT 266 Differential Equations w/Linear Algebra . . . . .	4
ECO 235 International Economics . . . . .	3	MUS 162 Computer Music Applications II . . . . .	3
EDU 251 Secondary CTE Capstone. . . . .	3	MUS 163 Music Audio Production I . . . . .	3
EDU 289 Capstone . . . . .	1	MUS 164 Music Audio Production II . . . . .	3
ENG 236 Writing the Film I . . . . .	3	PHI 218 Environmental Ethics . . . . .	3
ENP 105 Introduction to Entrepreneurship. . . . .	3	PHT 207 Drug Classification . . . . .	3
ENP 106 E-Ship Opportunity Feasibility Study. . . . .	3	PPT 118 Substations and Transformers . . . . .	3
ENP 205 Marketing for the Entrepreneur. . . . .	3	SOC 210 Technology and Society. . . . .	3
ENP 206 Entrepreneurship Legal Issues. . . . .	3	THE 215 Playwriting . . . . .	3
ENP 207 Entrepreneurship Financial Topics . . . . .	3	THE 231 Theatre Production III . . . . .	3
ENT 138 Machine Tools . . . . .	3	THE 232 Theatre Production IV . . . . .	3
ENT 143 Survey Drafting . . . . .	3	VET 103 Veterinary Assistant Restraint and Handling . . . . .	3
FSW 143 S-212 Wildfire Chain Saws . . . . .	2	VET 113 Veterinary Assistant Surgical Nursing and Care . . . . .	3
HLT 125 Landscape Drafting and Design . . . . .	3	VET 114 Veterinary Assistant Laboratory and Clinical Procedures . . . . .	2
HPR 109 Assisting with Medication Administ. . . . .	1	VET 242 Veterinary Critical Care. . . . .	2
HPR 205 Microbiology of Infectious Diseases . . . . .	3	WEL 101 Allied Cutting Processes . . . . .	4
HPR 232 Disease Process and Treatment . . . . .	5	WEL 264 Creative Welding . . . . .	4
IND 107 History of Interior Design . . . . .	3		

### Courses Deleted

Course Number & Name	Credits	Course Number & Name	Credits
AEC 216 Construction Estimating . . . . .	3	ENT 125 Principles of Quality Assurance . . . . .	3
ART 204 History of the Graphic Novel . . . . .	3	ENT 155 Manufacturing Technology I . . . . .	4
CRJ 215 Constitutional Rights Inmates . . . . .	3	ENT 233 Machine Design I . . . . .	3
CRJ 216 Juvenile Law and Procedures. . . . .	3	ENT 234 Machine Design II. . . . .	3
CRJ 256 Class/Treatment of Offenders. . . . .	3	ENT 237 Statics . . . . .	3
CRJ 269 Adult Surv/Childhood Molestation . . . . .	3	ENT 247 Strength of Materials. . . . .	3
EDU 221 Introduction to Education . . . . .	3	ENY 101 Introduction to Energy Technologies . . . . .	3
EDU 288 Practicum II. . . . .	1	ENY 235 Energy Systems Design . . . . .	3
ELT 149 Digital Devices Troubleshooting . . . . .	2	MGD 204 Videography II . . . . .	3
ELT 206 Electronic Troubleshooting II . . . . .	3	MTE 120 Manufacturing Processes. . . . .	3
ELT 252 Motors and Controls . . . . .	3	POS 211 Public Finance . . . . .	3
ELT 254 Industrial Wiring . . . . .	3	POS 221 Community Planning and Development . . . . .	3
ELT 259 Advanced Programmable Logic Controllers. . . . .	3	TEC 210 Applied Static/Strength Material . . . . .	3

# Changes to Degrees and Certificates

## Associate of Arts Degree

Code: F\_AA\_AA

This is a transfer degree designed for students who plan to major in subject areas such as: anthropology, art, criminal justice, economics, English, ethnic studies, foreign language, geography, history, humanities, journalism, literature, music, philosophy, political science, psychology, sociology, social work, speech, theatre and women's studies.

The community colleges in Colorado are approved to offer one general Associate of Arts Degree with a generic major of liberal arts as well as specialized Associates of Arts Degrees in five areas of designation: Business, Economics, History, Psychology and Spanish. While a student may tailor the generic Associate of Arts Degree to prepare for specific transfer options, all official documents and diplomas issued by the college will only indicate the awarding of an Associate of Arts Degree without any indication of a more specific area of study unless the student completes the requirements for one of the areas of designation noted above.

### Requirements for the Associate of Arts Degree:

#### • **Written Communication: 6 credits**

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II	GT-CO2	3
and a gtPathways-approved CO3 course	GT-CO3	3

#### • **Oral Communication: 3 credits**

‡ COM 115 Public Speaking OR		3
‡ COM 125 Interpersonal Communication		3
OR COM 220 Intercultural Communication		3

Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.

#### • **Arts and Humanities/Social & Behavioral Sciences Combined: 18 credits**

Arts and Expression	GT-AH1
Literature and Humanities	GT-AH2
Ways of Thinking	GT-AH3
Foreign Language	GT-AH4
History	GT-HI1
Economic or Political Systems	GT-SS1
Geography	GT-SS2
Human Behavior Culture	GT-SS3
or Social Frameworks	

(6-A&H and 6-S&B and 6-History including 3/Student Option)  
Two guaranteed transfer Arts & Humanities courses from two different areas (GT-AH1, GT-AH2, GT-AH3 or GT-AH4) AND two guaranteed transfer Social & Behavioral Sciences courses from two different areas (GT-SS1, GT-SS2, GT-SS3) AND one additional guaranteed transfer course from either Arts & Humanities or Social and Behavioral Sciences (GT-AH1, GT-AH2, GT-AH3, GT-AH4, GT-HI1, GT-SS1, GT-SS2, GT-SS3) AND one additional guaranteed transfer History course (GT-HI1).

#### • **Mathematics: 3 credits**

MAT 120 Mathematics for the Liberal Arts	GT-MA1	3
OR higher. Any guaranteed transfer Math course except MAT 155/156 (MA1)		

#### • **Natural and Physical Sciences: 7 credits**

Two guaranteed transfer Natural and Physical Sciences courses including at least one lab course (GT-SC1, GT-SC2)

**Total Required General Education Credits 37 Credits**

**Total Electives 23 Credits**

**Minimum Requirement for A.A. Degree 60 Credits**

Note: This guarantee excludes areas of concentration in Early Childhood Education, Elementary Education, Business, Engineering, Nursing and some pre-professional degrees.

\* The Colorado Guaranteed Transfer Program for General Education and the Colorado Community College System General Education requirements have been incorporated into this degree. Completion of the degree with a grade of "C" or better in every course guarantees that the student can transfer to any Colorado public four-year institution AND complete any liberal arts or science baccalaureate degree in an additional 60 credits.

### Approved Elective Course List for Associate of Arts Degree and Associate of General Studies Degree

Elective credit for the Associate of Arts Degree must be completed from the following list of approved prefixes and courses. While some of the following courses may be considered as generally transferable, a student's major at a four-year college or university may limit what credit may be applied to satisfy degree requirements at that institution. Selection of elective credit and course sequencing should be done in consultation with an advisor.

ACC	101, 121, 122
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	All AST courses in this catalog
BIO	105, 106, 111, 112, 115, 201, 202, 204, 216, 221, 222
BUS	115, 203, 216, 217, 226
CHE	All CHE courses in this catalog
CHI	All CHI courses in this catalog
CIS	115, 118
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 150, 205, 209, 210, 220, 230, 235, 236
CSC	All CSC courses in this catalog
DAN	All DAN courses in this catalog
	Note: DAN & PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.
ECO	All ECO courses in this catalog
ENG	121 and above

# Changes to Degrees and Certificates

ENV	101
ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	120 or above
MET	All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
PED	All PED courses in this catalog
	<i>Note: DAN &amp; PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SCI	All SCI courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

*Note: No more than 6 semester hours in independent study or internships in these approved prefixes may be applied to the Associate of Arts of degree.*

Courses transferred in with a 999 course number will be applied to the Additional Electives category for that prefix unless otherwise indicated on the Approved Electives List. TRN 999 Electives will also be applied to the Additional Electives category.

*Specialized courses applicable only to Associate of Arts Degree with a designated concentration.*

### **A.A. with an area of emphasis in Early Childhood Education**

ECE 101, 102, 205, 238, 241 and other ECE courses selected in consultation with an advisor.

### **A.A. with an area of emphasis in Elementary Education**

EDU 221 and other EDU courses selected in consultation with an advisor

## Associate of Science Degree

*Code: F\_AS\_AS*

This is a transfer degree designed for students who plan to major in subject areas such as: astronomy, biology, chemistry, computer science, geology, mathematics, meteorology, and physics.

The community colleges in Colorado are approved to offer one general Associate of Science Degree. This degree has a generic major of liberal arts. Three A.S. degrees with designations are approved in Engineering, Mathematics and Psychology.

### *Requirements for the Associate of Science Degree:*

#### • **Written Communication: 6 credits**

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II	GT-CO2	3
and a gtPathways-approved CO3 course	GT-CO3	3

#### • **Oral Communication: 3 credits**

‡ COM 115 Public Speaking OR	3
‡ COM 125 Interpersonal Communication	3
OR COM 220 Intercultural Communication	3

*Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.*

#### • **Arts and Humanities: 6 credits**

Arts and Expression	GT-AH1
Literature and Humanities	GT-AH2
Ways of Thinking	GT-AH3
Foreign Language	GT-AH4

Two guaranteed transfer Arts & Humanities courses from two different areas (AH1, AH2, AH3 or AH4)

#### • **Mathematics: 3 credits**

MAT 121 College Algebra OR	GT-MA1	3
MAT 122 College Trigonometry OR	GT-MA1	3
MAT 166 Pre-Calculus OR	GT-MA1	3
MAT 201 Calculus 1 or higher	GT-MA1	3

#### • **Social and Behavioral Sciences: 6 credits**

History	GT-HI1
Economic or Political Systems	GT-SS1
Geography	GT-SS2
Human Behavior, Culture, or Social Frameworks	GT-SS3

Two guaranteed transfer Social and Behavioral Sciences courses from two different areas (GT-HI1, GT-SS1, GT-SS2, GT-SS3)

#### • **History: 3 credits**

One guaranteed transfer History course (GT-HI1)

#### • **Natural and Physical Sciences: 12 credits**

One 2-lab course sequence in any guaranteed transfer science

# Changes to Degrees and Certificates

discipline (GT-SC1) and additional guaranteed transfer lab science course(s) (GT-SC1)

**Total Required General Education Credits** **39 Credits**

**Total Electives (A minimum of 18 of these credits must be selected from the following disciplines: astronomy, biology, chemistry, computer science, engineering, geology, mathematics, meteorology and physics).** **21 Credits**

**Minimum Requirement for A.S. Degree** **60 Credits**

*Note: This guarantee excludes areas of concentration in Early Childhood Education, Elementary Education, Business, Engineering, Nursing and some pre-professional degrees.*

*\* The Colorado Guaranteed Transfer Program for General Education and the Colorado Community College System General Education requirements have been incorporated into this degree. Completion of the degree with a grade of "C" or above in every course guarantees that the student can transfer to any Colorado public four-year institution AND complete any liberal arts or science baccalaureate degree in an additional 60 credits. Science degree seeking students should consult with an advisor on specific science courses needed to finish a baccalaureate degree in 60 additional credits.*

## Approved Electives Course List for Associate of Science Degree

Elective credit for the Associate of Science Degree must be completed from the following list of approved prefixes and courses. A minimum of 18 credits must be from courses with the ° designation. While some of the following courses may be considered as generally transferable, a student's major at a four-year college or university may limit what credit may be applied to satisfy degree requirements at that institution. Selection of elective credit and course sequencing should be done in consultation with an advisor.

ACC	101, 121, 122
AIR	All AIR courses in this catalog
ANT	All ANT courses in this catalog
ARA	All ARA courses in this catalog
ARM	All ARM courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
AST	°All AST courses in this catalog
BIO	°106, °111, °112, °115, °201, °202, °204, °216, °221, °222
BUS	115, 203, 216, 217, 226
CHE	°All CHE courses in this catalog
CHI	All CHI courses in this catalog
COM	All COM courses in this catalog
CRJ	110, 111, 112, 125, 127, 135, 145, 150, 205, 209, 210, 220, 230, 235, 236
CSC	°All CSC courses in this catalog
DAN	All DAN courses in this catalog <i>Note: DAN &amp; PED combined up to 3 credits cumulative. DAN 125 may be applied as an arts and humanities elective rather than a physical activities course.</i>
ECO	All ECO courses in this catalog
ENG	121 and above
ENV	101

ETH	All ETH courses in this catalog
FRE	All FRE courses in this catalog
GEO	All GEO courses in this catalog
GER	All GER courses in this catalog
GEY	°All GEY courses in this catalog
HIS	All HIS courses in this catalog
HUM	All HUM courses in this catalog
HWE	100, 103, 110, 124
ITA	All ITA courses in this catalog
JOU	All JOU courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MAN	226
MAR	216, 220
MAT	°121 or above (except for MAT 123, 135, 155 and 156)
MET	°All MET courses in this catalog
MGD	133, 221, 222, 233
MUS	All MUS courses in this catalog
PED	All PED courses in this catalog <i>Note: DAN &amp; PED combined up to 3 credits cumulative.</i>
PHI	All PHI courses in this catalog
PHY	°All PHY courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
RUS	All RUS courses in this catalog
SOC	All SOC courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog
GT	All Guaranteed Transfer courses in this catalog

*Note: No more than 6 semester hours in independent study or internships in these approved prefixes may be applied to the Associate of Science degree.*

*° A minimum of 18 credits must be from courses with the ° designation.*

Courses transferred in with a 999 course number will be applied to the Additional Electives category for that prefix unless otherwise indicated on the Approved Electives List. TRN 999 Electives will also be applied to the Additional Electives category.

## Associate Degrees with Designations

The following degrees provide transfer pathways to Colorado state four-year colleges and universities in specified liberal arts and science designations. It is recommended that you check with the four-year school to which you are planning to transfer after completing an associates degree regarding the applicable pathway for the academic program you plan to matriculate into. These degrees with designation replace all previously existing statewide transfer agreements for these programs of study.

Business - Associate of Arts  
Economics - Associate of Arts

# Changes to Degrees and Certificates

History - Associate of Arts  
 Mathematics - Associate of Science  
 Psychology - Associate of Arts  
 Psychology - Associate of Science  
 Spanish - Associate of Arts

## Associate of Arts Degree with Business Designation

### • Communications: 6 credits

ENG 121 English Composition I	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3

*Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.*

### • Arts and Humanities: 6 credits

Select two courses from GT Arts & Humanities courses:

Arts	GT-AH1	3
Literature and Humanities	GT-AH2	3
Ways of Thinking	GT-AH3	3
Foreign Languages	GT-AH4	3

### • Mathematics: 8 credits

Select two from the following:

MAT 121 College Algebra OR MAT 123 Finite Mathematics	GT-MA1	4
MAT 125 Survey of Calculus OR A higher level Calculus course	GT-MA1	4

### • Social and Behavioral Sciences: 6 credits

Select two courses:

#### Economics and Political Systems • GT-SS1

ECO 201 Principles of Macro Economics	GT-SS1	3
ECO 202 Principles of Micro Economics	GT-SS1	3

#### History • GT-HI1

One GT History course	GT-HI1	3
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### • Natural and Physical Sciences: 8 credits

Select two courses:

Two GT-SC1 courses and/or GT-SC2 courses

**Total Required General Education Credits 37 Credits**

### • Additional Required Courses

ACC 121 Accounting Principles I	4
ACC 122 Accounting Principles II	4
BUS 115 Introduction to Business	3
BUS 216 Legal Environment of Business	3
BUS 217 Business Communications & Report Writing	3
BUS 226 Business Statistics	3
COM 115 Public Speaking	3

<b>Total Additional Required Courses</b>	<b>23 Credits</b>
<b>Minimum Requirement for A.A. Degree</b>	<b>60 Credits</b>

## Associate of Arts Degree with Economics Designation

### • Communications: 6 credits

ENG 121 English Composition I	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3

*Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.*

### • Arts and Humanities: 9 credits

Select three courses from GT Arts & Humanities courses:

Arts	GT-AH1	3
Literature and Humanities	GT-AH2	3
Ways of Thinking	GT-AH3	3
Foreign Languages	GT-AH4	3

### • Mathematics: 5 credits

MAT 201 Calculus I	GT-MA1	5
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### • Social and Behavioral Sciences: 6 credits

#### Economics and Political Systems • GT-SS1

ECO 201 Principles of Macro Economics	GT-SS1	3
ECO 202 Principles of Micro Economics	GT-SS1	3

#### History • GT-HI1

One GT History course	GT-HI1	3
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### • Natural and Physical Sciences: 8 credits

Select two courses:

Two GT-SC1 courses and/or GT-SC2 courses

**Total Required General Education Credits 37 Credits**

### • Additional Required Courses

**3 Credits**

MAT 135 Introduction to Statistics	3
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**Total Additional Required Courses 3 Credits**

**• Total Electives 20 Credits**

**Minimum Requirement for A.A. Degree 60 Credits**

## Associate of Arts Degree with History Designation

### • Communication: 6 credits

ENG 121 English Composition I and ENG 122 English Composition II	GT-CO1 GT-CO2	3 3
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# Changes to Degrees and Certificates

OR ENG 122 English Composition II	GT-CO2	3
and a gtPathways-approved CO3 course	GT-CO3	3

**• Arts and Humanities: 9 credits**

Three gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

**• History: 3 credits**

HIS 101 Western Civ: Antiquity - 1650 OR	GT-HI1	3
HIS 111 The World: Antiquity - 1500	GT-HI1	3

**• Social and Behavioral Sciences: 6 credits**

Two gtPathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)

**• Mathematics: 3 credits**

One gtPathways Mathematics course (GT-MA1) but NOT MAT 155 or MAT 156

**• Natural and Physical Sciences: 7 credits**

Two gtPathways Natural and Physical Sciences courses (GT-SC1, GT-SC2)

**Additional Required Courses**

HIS 102 Western Civ: 1650 - Present OR	GT-HI1	3
HIS 112 The World: 1500 - Present	GT-HI1	3
HIS 201 U.S. History to Reconstruction	GT-HI1	3
HIS 202 U.S. History since the Civil War	GT-HI1	3
One additional gtPathways History course	GT-HI1	3
‡ COM 115 Public Speaking OR		3
‡ COM 125 Interpersonal Communications		

*Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.*

<b>Total Required General Education Credits</b>	<b>34 Credits</b>
<b>Additional Required Courses</b>	<b>15 Credits</b>
<b>Total Electives</b>	<b>11 Credits</b>
<b>Minimum Requirement for A.A. Degree</b>	<b>60 Credits</b>

## Associate of Arts Degree with Psychology Designation

**• Communication: 6 credits**

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II	GT-CO2	3
and a gtPathways-approved CO3 course	GT-CO3	3

**• Arts and Humanities: 9 credits**

Three gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

No more than two (2) courses from any one category.

**• History: 3 credits**

One gtPathways History course (GT-HI1)

**• Social and Behavioral Sciences: 6 credits**

Two gtPathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)

**• Mathematics: 3-4 credits**

MAT 121 College Algebra	GT-MA1	3-4
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**• Natural and Physical Sciences: 7-8 credits**

One gtPathways BIOLOGY course - must be GT-SC1 (course with lab).

One gtPathways GT-SC1 course of the student's choosing.

**Additional Required Courses**

PSY 101 General Psychology I	GT-SS3	3
PSY 102 General Psychology II	GT-SS3	3
Three gtPathways PSYCHOLOGY courses	GT-SS3	9
‡ COM 115 Public Speaking OR		3
‡ COM 125 Interpersonal Communications		

*Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.*

<b>Total Required General Education Credits</b>	<b>34-36 Credits</b>
<b>Additional Required Courses</b>	<b>18 Credits</b>
<b>Total Electives</b>	<b>6-8 Credits</b>
<b>Minimum Requirement for A.A. Degree</b>	<b>60 Credits</b>

## Associate of Arts Degree with Spanish Designation

**• Communication: 6 credits**

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II	GT-CO2	3
and a gtPathways-approved CO3 course	GT-CO3	3

**• Arts and Humanities: 9 credits**

SPA 211 Spanish Language III	GT-AH4	3
SPA 212 Spanish Language IV	GT-AH4	3

One gtPathways Arts & Humanities course (GT-AH1, GT-AH2, GT-AH3, GT-AH4).

PLEASE NOTE: Students who have a higher proficiency level than is required for SPA 211 or SPA 212 should substitute other Arts & Humanities courses. Heritage speakers may want to substitute SPA 261 (Grammar-Heritage Lang Speaker) and SPA 262 (Comp-Heritage Lang Speaker), if available.

**• History: 3 credits**

HIS 244 History of Latin America OR another	GT-HI1	3
gtPathways History course (GT-HI1) focusing on		

# Changes to Degrees and Certificates

the Spanish-speaking world (non-U.S.) or another gtPathways non-U.S. History course

## • Social and Behavioral Sciences: 6 credits

Two gtPathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)

## • Mathematics: 3 credits

One gtPathways Mathematics course (GT-MA1) but NOT MAT 155 or MAT 156

## • Natural and Physical Sciences: 7 credits

Two gtPathways Natural and Physical Sciences courses (GT-SC1, GT-SC2). One of these courses must have the required laboratory (GT-SC1).

### Additional Required Courses

SPA 111 Spanish Language I	5
SPA 112 Spanish Language II	5

PLEASE NOTE: SPA 111 and/or SPA 112 may be waived, based on a student's proficiency level. Students should consult a departmental advisor at the four-year college or university.

‡ COM 115 Public Speaking (recommended) OR ‡ COM 125 Interpersonal Communications	3
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Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.

### Elective Courses

Suggested courses: 200-level Spanish courses; courses outside the Spanish department with content related to the Spanish-speaking world.

<b>Total Required General Education Credits</b>	<b>34 Credits</b>
<b>Additional Required Courses</b>	<b>13 Credits</b>
<b>Total Electives</b>	<b>13 Credits</b>
<b>Minimum Requirement for A.A. Degree</b>	<b>60 Credits</b>

## Associate of Science Degree with Mathematics Designation

### • Communication: 6 credits

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II and a gtPathways-approved CO3 course	GT-CO2 GT-CO3	3 3

### • Arts and Humanities: 9 credits

Three gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

### • History: 3 credits

One gtPathways History course (GT-HI1)

### • Social and Behavioral Sciences: 6 credits

Two gtPathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)

### • Mathematics: 5 credits

MAT 201 Calculus I	GT-MA1	5
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### • Natural and Physical Sciences: 10 credits

PHY 211 Calculus-based Physics I	GT-SC1	5
PHY 212 Calculus-based Physics II	GT-SC1	5

### Additional Required Courses

CSC 160 Computer Science I		4
MAT 202 Calculus II	GT-MA1	5
MAT 203 Calculus III OR	GT-MA1	4
MAT 204 Calculus III with Engineering Appl.	GT-MA1	5
‡ COM 115 Public Speaking OR ‡ COM 125 Interpersonal Communications		3

Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.

<b>Total Required General Education Credits</b>	<b>39 Credits</b>
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<b>Additional Required Courses</b>	<b>16-17 Credits</b>
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<b>Total Electives</b>	<b>4-5 Credits</b>
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<b>Minimum Requirement for A.A. Degree</b>	<b>60 Credits</b>
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## Associate of Science Degree with Psychology Designation

### • Communication: 6 credits

ENG 121 English Composition I and	GT-CO1	3
ENG 122 English Composition II	GT-CO2	3
OR ENG 122 English Composition II and a gtPathways-approved CO3 course	GT-CO2 GT-CO3	3 3

### • Arts and Humanities: 9 credits

PHI 111 Introduction to Philosophy	GT-AH3	3
OR PHI 112 Ethics	GT-AH3	3

Six (6) additional credits from at least two different categories of gtPathways Arts & Humanities courses (GT-AH1, GT-AH2, GT-AH3, GT-AH4)

### • History: 3 credits

One gtPathways History course (GT-HI1)

### • Social and Behavioral Sciences: 6 credits

Two gtPathways Social and Behavioral Sciences courses (GT-SS1, GT-SS2, GT-SS3)

### • Mathematics: 4 credits

MAT 121 College Algebra	GT-MA1	4
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### • Natural and Physical Sciences: 10 credits

BIO 111 General College Biology I (with lab)	GT-SC1	5
CHE 111 General College Chemistry I (with lab)	GT-SC1	5

# Changes to Degrees and Certificates

## Additional Required Courses

PSY 101 General Psychology I	GT-SS3	3
PSY 102 General Psychology II	GT-SS3	3
‡ COM 115 Public Speaking OR		3
‡ COM 125 Interpersonal Communications		

Note: ‡ This requirement is a Colorado Community College System requirement and is in addition to the State Guaranteed General Education Transfer Courses.

**Total Required General Education Credits 38 Credits**

**Additional Required Courses 9 Credits**

**Total Electives 13 Credits**

**Minimum Requirement for A.A. Degree 60 Credits**

## Associate of General Studies Degree

Code: F\_AGS\_AGS

This degree is designed for students who want to complete a broad program of both career and transfer courses without specialization. Transferability of the Associate of General Studies Degree depends on the courses taken and the requirements of the receiving institution.

All transfer degrees require a "C" or above.

### Requirements for the Associate of General Studies Degree

#### • Communications: 3 credits

Select one course from the following:

ENG	121 or above
or	
COM	All COM courses in this catalog

#### • Mathematics: 3 credits

MAT	107 or above*
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#### • Natural and Physical Sciences: 3 credits

Select three credits from the following:

AST	All AST courses in this catalog
BIO	All BIO courses in this catalog
CHE	All CHE courses in this catalog
ENV	101
GEO	111, 112
GEY	All GEY courses in this catalog
MET	All MET courses in this catalog
PHY	All PHY courses in this catalog
SCI	All SCI courses in this catalog

#### • Social and Behavioral Sciences: 3 credits

Select 3 credits from the following:

ANT	All ANT courses in this catalog
ECO	All ECO courses in this catalog
ETH	All ETH courses in this catalog

GEO	All GEO courses in this catalog (GEO 111 and 112 may fulfill the physical and life science or social and behavioral science requirement, but not both)
HIS	All HIS courses in this catalog
POS	All POS courses in this catalog
PSY	All PSY courses in this catalog
SOC	All SOC courses in this catalog
WST	All WST courses in this catalog (WST may fulfill the arts and humanities or social and behavioral science requirement, but not both)

#### • Arts and Humanities: 3 credits

Select three credits from the following:

ARA	All ARA courses in this catalog
ART	All ART courses in this catalog
ASL	121, 122, 123, 221, 222
CHI	All CHI courses in this catalog
FRE	All FRE courses in this catalog
GER	All GER courses in this catalog
HUM	All HUM courses in this catalog
ITA	All ITA courses in this catalog
JPN	All JPN courses in this catalog
LIT	All LIT courses in this catalog
MUS	All MUS courses in this catalog
PHI	All PHI courses in this catalog
RUS	All RUS courses in this catalog
SPA	All SPA courses in this catalog
THE	All THE courses in this catalog
WST	All WST courses in this catalog (WST may fulfill the arts and humanities or social and behavioral science requirement, but not both)

**GENERAL EDUCATION ELECTIVES: In addition to the courses selected to meet the general education requirements defined above, at least 15 additional general education credits must be selected from the Approved Elective Course List of the Associate of General Studies degree.**

**OTHER ELECTIVES: An additional 30 credits of electives are needed for the AGS degree. These 30 credits may be general education courses or career technical courses or any combination of the two.**

**Minimum Requirement Credits for AGS Degree 60**

\*SCI 155 and SCI 156 must both be completed if they will be used to fulfill science requirement.

\*MAT 155 and MAT 156 must both be completed if they will be used to fulfill math requirement.

Note: No more than 6 semester hours in independent study or internships in these approved prefixes may be applied to the Associate of General Studies.

Note: At least 15 credits applied toward this degree must be courses approved as part of the Colorado Guaranteed Transfer Program for General Education. See Colorado Guaranteed Transfer Program for General Education, for a list of applicable courses.

Note: Developmental courses cannot be applied to the AGS degree.

Note: All courses applied to the AGS degree must be completed with a grade of "C" or above and the student's overall GPA must be 2.0 or above.

Courses transferred in with a 999 course number will be applied to the Additional Electives category for that prefix unless otherwise indicated on the Approved Electives List. TRN 999 Electives will also be applied to the Additional Electives

# Changes to Degrees and Certificates

category.

## Associate of Applied Science Degree

This degree prepares students to enter either skilled or paraprofessional occupations, or to upgrade in their current employment. These programs are not intended to transfer to bachelor's degree programs, but certain courses may be accepted toward a bachelor's degree at some institutions. FRCC awards the Associate of Applied Science Degree upon completion of a specific approved program listed in this catalog.

Assessment testing is required for all students. Students who place into ENG 090 (or above), and MAT 099 (or above), and REA 090 (or above) may begin this program of study. Students scoring below this level should consult with a faculty member before registering for courses in this program of study.

### Requirements for the Associate of Applied Science Degree

#### • General Education Requirements

In addition to program requirements, Associate of Applied Science Degrees require completion of the following general education requirements:

* Communications	3
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* Mathematics	3
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Select six semester hours from two of the following areas	6
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* Arts and Humanities	
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* Natural and Physical Sciences	
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* Social and Behavioral Sciences	
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Select three semester hours from any of the following areas	3
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* Communications	
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* Arts and Humanities	
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* Mathematics	
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* Natural and Physical Sciences	
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* Social and Behavioral Sciences	
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#### • Specific Program Requirements 45-60 semester hrs.

<b>Total Required General Education Credits</b>	<b>15</b>
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<b>Total Specific Program Requirements</b>	<b>45-60</b>
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<b>Minimum Requirement Credits for AAS Degree</b>	<b>60-75</b>
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*Note: \*Individual programs may have designated specific courses to meet general education requirements. When not specified within the specific degree program, students may select courses from the Approved General Education Electives List for the AAS degree. A program advisor must approve any course substitution to the specific program requirements.*

## Approved General Education Electives List for Associate of Applied Science Degree

#### • Communications:

ENG*	121 and above * ENG 110 applies only when
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specified as a degree requirement

COM	All COM courses in this catalog
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#### • Arts and Humanities:

ARA	All ARA course in this catalog
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ART	All ART courses in this catalog
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ASL	121, 122, 123, 221, 222
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CHI	All CHI courses in this catalog
-----	---------------------------------

FRE	All FRE courses in this catalog
-----	---------------------------------

GER	All GER courses in this catalog
-----	---------------------------------

HUM	All HUM courses in this catalog
-----	---------------------------------

ITA	All ITA courses in this catalog
-----	---------------------------------

JPN	All JPN courses in this catalog
-----	---------------------------------

LIT	All LIT courses in this catalog
-----	---------------------------------

MUS	All MUS courses in this catalog
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PHI	All PHI courses in this catalog
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RUS	All RUS courses in this catalog
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SPA	All SPA courses in this catalog
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THE	All THE courses in this catalog
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WST*	All WST courses in this catalog *see AAS Elective Notes
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#### • Mathematics:

MAT	120 and above
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#### • Science:

AST	All AST courses in this catalog
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BIO	All BIO courses in this catalog
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CHE	All CHE courses in this catalog
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GEO*	111, 112 *see AAS Electives Notes
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GEY	All GEY courses in this catalog
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MET	All MET courses in this catalog
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PHY	All PHY courses in this catalog
-----	---------------------------------

SCI	All SCI courses in this catalog
-----	---------------------------------

#### • Social Science:

ANT	All ANT courses in this catalog
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ECO	All ECO courses in this catalog
-----	---------------------------------

ETH	All ETH courses in this catalog
-----	---------------------------------

GEO	All GEO courses in this catalog
-----	---------------------------------

HIS	All HIS courses in this catalog
-----	---------------------------------

HWE	100, 103, 110, 124
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POS	All POS courses in this catalog
-----	---------------------------------

PSY	All PSY courses in this catalog
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SOC	All SOC courses in this catalog
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WST*	All WST courses in this catalog * see AAS Electives Notes
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GT	All Guaranteed Transfer courses in this catalog
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\* AAS Electives Notes:

1. No more than 6 semester hours in independent study or internships in these approved prefixes may be applied to the Associate of Applied Science degree.

2. WST may be used to fulfill an arts and humanities or social science and behavioral requirement, but not both.

# Changes to Degrees and Certificates

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3. GEO 111, 112 may be used to fulfill a physical and life science or social and behavioral science requirement, but not both.

Courses transferred in with a 999 course number will be applied to the Additional Electives category for that prefix unless otherwise indicated on the Approved Electives List. TRN 999 Electives will also be applied to the Additional Electives category.

## Specific Certificate Requirements

- See instructional program, for specific certificate requirements.
- See commencement and graduation procedures in this catalog.

## Courses Not Applicable to Any Degree or Certificate

### **Advancement of Academic Achievement:**

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AAA	All courses
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### **English:**

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ENG 030	Basic Writing Skills
ENG 060	Writing Fundamentals
ENG 090	Basic Composition
ENG 110*	English Usage and Grammar * Applies only when specified as a certificate or an Associate of Applied Science Degree requirement.

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### **English as a Second Language:**

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ESL	All courses
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### **General Education Development:**

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GED	All courses
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### **Mathematics:**

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MAT 030	Fundamentals of Mathematics
MAT 060	Pre-Algebra
MAT 090	Introductory Algebra
MAT 099	Intermediate Algebra
MAT 101	Enhanced Mathematics Support
MAT 103*	Math for Clinical Calculations * Applies only when specified as a certificate or an Associate of Applied Science Degree requirement.

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### **Reading:**

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REA	All courses
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# Changes to Degrees and Certificates Offered by Campus

## Instructional Programs by Campus

At Front Range Community College, students may take classes to earn an associate degree or a certificate from among more than 100 areas. Credits from the State Guaranteed Education Courses are guaranteed to transfer to Colorado's public four-year institutions. Students may also take classes individually for their enrichment, or career upgrading.

Not all degrees or certificates are available at all sites. Students should consult a schedule of classes to determine course offerings for each campus location.

FRCC also offers courses at the Brighton Center.

### ASSOCIATE DEGREES AVAILABLE

#### ASSOCIATE OF ARTS

*Areas of Designation:*

<b>Business</b> .....	BC, L, W, OL
<b>Economics</b> .....	BC, L, W, OL
<b>History</b> .....	BC, L, W, OL
<b>Psychology</b> .....	BC, L, W, OL
<b>Spanish</b> .....	BC, L, W, OL

*State transfer agreements are also approved for AA degrees in:*

<b>Early Childhood Education</b> .....	BC, L, W
<b>Elementary Education</b> .....	BC, L, W

*Subject areas include:*

- Arts and Humanities:** Art, French, German, Humanities, Italian, Literature, Music, Philosophy, Russian, Spanish, Theatre, Women's Studies
- Communications:** Communications, English, Journalism
- Social and Behavioral Sciences:** Anthropology, Economics, Ethnic Studies, Geography, History, Political Science, Psychology, Sociology, Women's Studies

#### ASSOCIATE OF GENERAL STUDIES

*Area of Concentration:*

<b>Criminal Justice Studies</b> .....	L, W
<b>No Specified Area of Concentration</b> .....	BC, L, W

#### ASSOCIATE OF SCIENCE

*Areas of Designation:*

<b>Engineering</b> .....	L, W
<b>Mathematics</b> .....	BC, L, W, OL
<b>Psychology</b> .....	BC, L, W, OL

*Subject areas include:*

- Biological Science, Computer Science, Engineering, Mathematics, and Physical Sciences including Astronomy, Chemistry, Geology, Meteorology, Physics

#### ASSOCIATE OF APPLIED SCIENCE

<b>Accounting</b> .....	BC, L, W, OL
<b>Animal Laboratory Technology</b> .....	L
<b>Applied Technology</b> .....	BC, L, W
<b>Architectural Engineering and Construction Technology</b> .....	L, W
<i>AREAS OF CONCENTRATION:</i>	
- Architectural Engineering Technology .....	L, W
- Building Construction Management .....	L, W
<b>Automotive Technology</b> .....	L, W
<b>Business</b> .....	BC, L, W, OL

*Areas of Concentration:*

- Accounting .....
- Business Specialization .....
- International Business .....
- Management .....
- Marketing .....
- Small Business Management .....

<b>Clean Energy Technology</b> .....	L
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*Areas of Concentration:*

- Electrical/Mechanical .....
- Power Technology .....

<b>Computer-Aided Drafting &amp; Design</b> .....	L, W
<b>Computer Information Systems</b> .....	BC, L, W, OL

*Areas of Concentration:*

- Individualized Area of Concentration .....
- Microsoft Network Administration .....
- Programming .....
- WAN (Wide Area Networks) .....
- Web Developer .....

<b>Early Childhood Education</b> .....	BC, L, W
<b>Forestry, Wildlife and Natural Resources</b> .....	L
<b>Health Information Technologies</b> .....	W
<b>Heating, Ventilation and Air Conditioning</b> .....	L
<b>Holistic Health</b> .....	L
<b>Horticulture and Landscape Technologies</b> .....	L, W
<b>Hospitality &amp; Culinary Arts Management</b> .....	L

*Areas of Concentration:*

- Advanced Culinary Arts .....
- Hotel Management .....
- Restaurant Management .....
- Special Events Planning .....

<b>Interior Design</b> .....	L, W
<b>Interpreter Preparation</b> .....	W
<b>Masonry Arts</b> .....	W
<b>Medical Office Technology</b> .....	BC

*Areas of Concentration:*

- Insurance and Billing .....
- Medical Administrative Assisting .....
- Medical Assisting .....

<b>Multimedia Technology</b> .....	BC, L, W
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*Areas of Concentration:*

- Animation .....
- Print and Presentation .....
- Video .....
- Web Media .....

<b>Nursing</b> .....	L, W
<b>Paralegal Studies</b> .....	W, OL
<b>Veterinary Technology</b> .....	L
<b>Welding Technology</b> .....	L, W

#### CAMPUSES LEGEND

- BC = Boulder County Campus
- L = Larimer Campus
- W = Westminster Campus
- OL = Online

# Changes to Degrees and Certificates Offered by Campus

## CERTIFICATES AVAILABLE BY CAMPUS

Not all degrees or certificates are available at all sites. Students should consult a schedule of classes to determine course offerings for each campus location. FRCC also offers courses at the Brighton Center.

### Accounting Certificates

- Accounting . . . . . BC, L, W, OL
- Enrolled Agent . . . . . BC, L, W, OL

### Animal Laboratory Technology Certificates

- Basic Laboratory Animal Care . . . . . L
- Laboratory Animal Care and Management . . . . . L

### Architectural Engineering and Construction Technology Certificates

- Architectural Drafting . . . . . L, W
- Building Science & Sustainable Design . . . . . L, W
- Structural Drafting . . . . . L, W
- Sustainable Building Construction . . . . . L, W

### Automotive Technology Certificates

- Advanced Drivability Diagnosis . . . . . W
- Automatic Transmission/Transaxle . . . . . L, W
- Brakes . . . . . L, W
- Electrical/Electronic Systems . . . . . L, W
- Engine Performance . . . . . L, W
- Engine Repair . . . . . L, W
- Heating and Air Conditioning . . . . . L, W
- Light Diesel Engine Repair . . . . . L
- Manual Drivetrain and Axles . . . . . L, W
- Suspension and Steering . . . . . L, W

### Business Certificates

- Business Specialization . . . . . BC, L, W, OL
- International Business Basics . . . . . BC, L, W, OL
- Management Basics . . . . . BC, L, W, OL
- Marketing Basics . . . . . BC, L, W, OL
- Small Business Management Basics . . . . . BC, L, W, OL

### Clean Energy Technology Certificate

- Clean Energy Technology Core . . . . . L

### Computer-Aided Drafting and Design Certificates

- Advanced Architectural Computer-Aided Drafting . . . . . L, W
- Advanced Mechanical CAD . . . . . L, W
- Animation and Visualization CAD . . . . . L, W
- Basic Computer-Aided Drafting and Design (CADD) . . . . . L, W
- Basic Mechanical CAD . . . . . L, W
- Civil CAD . . . . . L, W
- Landscape CAD Technician . . . . . L, W

### Computer Information Systems Certificates

- Applications Specialist . . . . . BC, L, W, OL
- CISCO Network Associate . . . . . BC
- Computer Technician: A+ . . . . . BC, L, W
- Computer Technician: Network+ . . . . . BC, L, W
- Microsoft Network Administration . . . . . BC, L, W
- Programming . . . . . BC, L, W, OL
- Web Authoring . . . . . BC, L, W, OL
- Web Developer . . . . . BC, L, W

### Dental Assisting Certificate . . . . . L

### Early Childhood Education Certificates

- Director . . . . . BC, L, W, OL
- Early Childhood Teacher . . . . . BC, L, W, OL
- Infant-Toddler Nursery Supervisor . . . . . BC, L, W
- Early Childhood Education for Paraeducators . . . . . BC, L, W
- Foundations for Paraeducators . . . . . BC, L, W

### Emergency Medical Services Certificates

- Emergency Medical Technician-Basic . . . . . BC, L, W
- Pre-Paramedic . . . . . BC, L, W

### Forestry, Wildlife, and Natural Resources Certificates

- Environmental Education . . . . . L
- Forestry . . . . . L
- Natural Resources . . . . . L
- Natural Resources Geographic Information Systems . . . . . L
- Natural Resources Recreation . . . . . L
- Wildland Fire . . . . . L
- Wildlife . . . . . L

### Geographic Information Systems Certificates

- Geographic Information Systems . . . . . BC
- GIS Fundamentals . . . . . BC

### Heating, Ventilation, and Air Conditioning Certificates

- Residential Air Conditioning and Heating . . . . . L
- Light Commercial Air Conditioning and Heating . . . . . L
- Commercial Refrigeration . . . . . L

### Holistic Health Certificates

- Aromatherapy . . . . . L
- Holistic Health . . . . . L
- Reflexology . . . . . L
- Yoga Teacher . . . . . L

### Horticulture and Landscape Technologies Certificates

- Floral Design . . . . . L
- Horticulture . . . . . L, W
- Irrigation Contracting and Management . . . . . W
- Landscape CAD Technician . . . . . L, W
- Landscape Contracting Technician . . . . . L, W
- Landscape Maintenance Technician . . . . . L, W
- Landscape Design . . . . . L, W
- Nursery, Greenhouse and Garden Center Management . . . . . L, W
- Turfgrass Management . . . . . L, W

### Hospitality & Culinary Arts Management Certificates

- Culinary Arts . . . . . L
- Events Planning Coordinator . . . . . L
- Food and Beverage Management . . . . . L
- Hotel Operations . . . . . L

### Interior Design Certificates

- Kitchen & Bath Design . . . . . L, W

### Masonry Certificate . . . . . W

### Medical Office Technology Certificates

- Billing Specialist . . . . . BC
- Clinical Office Assistant . . . . . BC
- Health Care Office Assistant . . . . . BC
- Medical Administrative Assistant . . . . . BC
- Medical Assistant . . . . . BC
- Medical Transcriptionist . . . . . BC

### Multimedia Technology Certificates

- Animation . . . . . BC, W
- Digital Imaging . . . . . L
- Graphic Design Technician . . . . . L, W
- Multimedia General . . . . . BC, W
- Multimedia Print/Presentation . . . . . BC, W
- Multimedia Video . . . . . W
- Multimedia Web . . . . . BC, W

### Nurse Aide Certificate . . . . . BC, L, W

### Nursing Certificate

- Practical Nursing . . . . . BC

### Paralegal Studies Certificates

- Legal Assistant . . . . . W, OL

### Pharmacy Technician Certificate . . . . . W

### Plebotomy Certificate . . . . . L

### Teaching English as a Second Language Certificates

- Teaching English as a Second Language Abroad (TESL-A) . . . . . BC
- Teaching English as a Second Language K-12 (TESL-K) . . . . . BC

### Veterinary Technician Assistant Certificate . . . . . L

### Welding Technology Certificates

- Comprehensive Welding . . . . . L, W
- Gas Metal Arc Welding (MIG) . . . . . L, W
- Gas Tungsten Arc Welding (TIG) . . . . . L, W
- Oxyacetylene Welding . . . . . L, W
- Pipe Code Welding . . . . . L, W
- Creative Metalworking . . . . . L, W
- Shielded Metal Arc Welding . . . . . L, W
- Welding Fundamentals . . . . . L, W

<p><b>CAMPUSES LEGEND</b>                  BC = Boulder County Campus                  L = Larimer Campus                  W = Westminster Campus                  OL = Online</p>
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# Gainful Employment Disclosure Information

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The U.S. Department of Education requires colleges to disclose a variety of information for any financial-aid-eligible program that “prepares students for gainful employment in a recognized occupation”. The information provided here is the best available to us but represents one year’s data only. We hope that this information is helpful to our current students and to prospective students as they make their career and educational choices.

For more Gainful Employment information, please go to the FRCC website:

[www.frontrange.edu/GainfulEmployment/](http://www.frontrange.edu/GainfulEmployment/)

The following links are online:

*See Occupations by Program*

*See Completion Rates by Program*

*See Job Placement Rates by Program*

*See Average Tuition and Fees by Program*

*See Average Loan Debt by Program*

## Other changes

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### Associate Degrees

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The wording for all Associate Degrees has changed to: *Minimum Requirement for Associate Degrees is 60 Credits.*

### Natural and Physical Sciences

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The category *Physical and Life Sciences* has been changed to: *Natural and Physical Sciences.*

### gtPathways

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MAT 155 and MAT 156 have been removed from the gtPathways list of courses beginning with the summer term.

### Dropping Students for Non-Attendance

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Beginning Fall 2011, FRCC will begin dropping students for non-attendance. This is a change to our current policy. For online students, logging in to the course site does not count as attendance unless students also participate in an academically-related activity such as submitting an assignment or participating in an online discussion about the course content.

Students who do not attend prior to the deadline may be dropped and must go through the “late add” appeal process, which includes securing the signatures of the instructor, Instructional Dean, and Campus Vice President to re-enroll after the add deadline for the course. Course re-enrollment is at the discretion of the instructor, and it is unlikely a student will be re-enrolled if they have not attended.

### Added Course

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CRJ 257 Victimology (3)

Introduces the student to the role the crime victim plays in the criminal justice system. The traditional response that a crime victim receives from the system will be studied and the psychological, emotional and financial impact these responses have on victimization will be analyzed.