ENGINEERING

Associate of Science

Science, Technology, Engineering & Math Pathway

Civil Engineering

University of Colorado Denver Transfer

The Associate of Science degree in Civil Engineering is designed for you to complete the first two years of a bachelor's degree and transfer to University of Colorado Denver (UCD) for a bachelor degree in Civil Engineering. As a civil engineer you work in areas such as structural design and construction, water management, and energy explorations.

First Semester EGG 1030 Robotics Design 1 CAD 1101 Computer Aided Drafting I 3 MAT 1340 College Algebra: GT-MA1 1 4 ENG 1021 English Composition I: GT-CO1 3 ECO 2002 Principles of Microeconomics: GT-SS1 3 Subtotal 14 Second Semester EGG 1051 Experimental Design 2 MAT 1440 Pre-Calculus: GT-MA1 1 5 CHE 1111 General College Chemistry I with Lab: GT-SC1 5 ENG 1022 English Composition II: GT-CO2 3 Subtotal 15 Third Semester CAD 1102 Computer Aided Drafting II 3 MAT 2410 Calculus I: GT-MA1 5 PHI 1012 Ethics: GT-AH3 3 COM 2300 Intercultural Communication: GT-SS3 3 EG 1050 Engineering Data Analysis 2 1 Subtotal 15 Fourth Semester <	Course	Title	Credits
CAD 1101 Computer Aided Drafting I 3 MAT 1340 College Algebra: GT-MA1 1 4 ENG 1021 English Composition I: GT-CO1 3 ECO 2002 Principles of Microeconomics: GT-SS1 3 Subtotal 14 Second Semester 2 EGG 1051 Experimental Design 2 MAT 1440 Pre-Calculus: GT-MA1 1 5 CHE 1111 General College Chemistry I with Lab: GT-SC1 5 ENG 1022 English Composition II: GT-CO2 3 Subtotal 15 Third Semester 3 15 CAD 1102 Computer Aided Drafting II 3 MAT 2410 Calculus I: GT-MA1 5 PHI 1012 Ethics: GT-AH3 3 COM 2300 Intercultural Communication: GT-SS3 3 EGG 1050 Engineering Data Analysis 2 1 Subtotal 15 Fourth Semester MAT 2420 Calculus II: GT-MA1 5 PHY 2111 Physics Calculus Based I with Lab: GT-SC1 5			
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MUS 1023 Survey of World Music: GT-AH1 MUS 1025 History of Jazz: GT-AH1 Subtotal 16	LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	2
MUS 1025 History of Jazz: GT-AH1 Subtotal 16	LIT 2059	Survey of African American Literature: GT-AH2	
Subtotal 16	MUS 1023	Survey of World Music: GT-AH1	
	MUS 1025	History of Jazz: GT-AH1	
Total Credits 60		Subtotal	16
	-	Total Credits	60

MAT 1340 and MAT 1440 are prerequisites for MAT 201, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.

CIVIL ENGINEERING

Metropolitan State University of Denver TRANSFER

The Associate of Science degree in Civil Engineering is designed for you to complete the first two years of a bachelor's degree and transfer to Metropolitan State University of Denver (MSU Denver) for a bachelor degree

in Civil Engineering. As a civil engineer you work in areas such as structural design and construction, water management, and energy explorations.

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Course	Title	Credits
First Semeste	r	
EGG 1030	Robotics Design	1
CAD 1101	Computer Aided Drafting I	3
MAT 1340	College Algebra: GT-MA1 ¹	4
ENG 1021	English Composition I: GT-CO1	3
ECO 2002	Principles of Microeconomics: GT-SS1	3
	Subtotal	14
Second Seme	ester	
EGG 1051	Experimental Design	2
MAT 1440	Pre-Calculus: GT-MA1 1	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1022	English Composition II: GT-CO2	3
	Subtotal	15
Third Semeste	er	
CAD 1102	Computer Aided Drafting II	3
MAT 2410	Calculus I: GT-MA1	5
PHI 1012	Ethics: GT-AH3	3
COM 2300	Intercultural Communication: GT-SS3	3
EGG 1050	Engineering Data Analysis ²	1
	Subtotal	15
Fourth Semes	ster	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
Choose One H	listory Course (GT-HI1)	3
HIS 1320	Western Civilization: 1650-Present: GT-HI1	
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 2005	Women in World History: GT-HI1	
HIS 2200	History of Latin America: GT-HI1	
HIS 2015	20th Century World History: GT-HI1	
HIS 2500	History of Islamic Civilization: GT-HI1	
Choose One A	rts & Humanities Course (GT-AH1~GT-AH4)	3
ART 1111	Art History Ancient to Medieval: GT-AH1	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	2
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1023	Survey of World Music: GT-AH1	
MUS 1025	History of Jazz: GT-AH1	
	Subtotal	16
	Total Credits	60

 $^{^{\}rm 1}\,$ MAT 1340 and MAT 1440 are prerequisites for MAT 201, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.

Electrical Engineering UNIVERSITY OF COLORADO DENVER TRANSFER

The Associate of Science Degree in Electrical Engineering is designed for you to complete the first two years of a bachelor's degree and transfer to University of Colorado Denver (UCD) for a bachelor degree in Electrical Engineering. As an electrical engineer you work in areas such as communication systems, control systems, and power distribution systems.

Course	Title	Credits
First Semeste	er	
EGG 1030	Robotics Design	1
MAT 1340	College Algebra: GT-MA1 1	4
ENG 1021	English Composition I: GT-CO1	3
ECO 2002	Principles of Microeconomics: GT-SS1	3
PHI 1012	Ethics: GT-AH3	3
	Subtotal	14

EGG 1050 is an elective. Please see an advisor for other classes to meet graduation requirements.

EGG 1050 is an elective. Please see an advisor for other classes to meet graduation requirements.

Second Seme	ester	
EGG 1051	Experimental Design	2
MAT 1440	Pre-Calculus: GT-MA1 ¹	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1022	English Composition II: GT-CO2	3
	Subtotal	15
Third Semeste	er	
MAT 2410	Calculus I: GT-MA1	5
CSC 1060	Computer Science I: (Language)	4
Choose One H	listory Course (GT-HI1)	3
HIS 1320	Western Civilization: 1650-Present: GT-HI1	
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 2005	Women in World History: GT-HI1	
HIS 2200	History of Latin America: GT-HI1	
HIS 2015	20th Century World History: GT-HI1	
HIS 2500	History of Islamic Civilization: GT-HI1	
Choose One A	rts & Humanities Course (GT-AH1~GT-AH2~GT-AH4)	3
ART 1111	Art History Ancient to Medieval: GT-AH1	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1023	Survey of World Music: GT-AH1	
MUS 1025	History of Jazz: GT-AH1	
	Subtotal	15
Fourth Semes	ster	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
COM 2300	Intercultural Communication: GT-SS3	3
Choose One Ir	nter-institutional Course	3
EET 2310 (MSU)	
ELEC 1510	(UCD)	
	Subtotal	16
	Total Credits	60

MAT 1340 and MAT 1440 are prerequisites for MAT 2410, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.

ELECTRICAL ENGINEERING

METROPOLITAN STATE UNIVERISTY OF DENVER TRANSFER

The Associate of Science Degree in Electrical Engineering is designed for you to complete the first two years of a bachelor's degree and transfer to Metropolitan State University of Denver (MSU Denver) for a bachelor degree in Electrical Engineering. As an electrical engineer you work in areas such as communication systems, control systems, and power distribution systems.

Course	Title	Credits
First Semeste	er	
EGG 1030	Robotics Design	1
MAT 1340	College Algebra: GT-MA1 ¹	4
ENG 1021	English Composition I: GT-CO1	3
ECO 2002	Principles of Microeconomics: GT-SS1	3
PHI 1012	Ethics: GT-AH3	3
	Subtotal	14
Second Seme	ester	
EGG 1051	Experimental Design	2
MAT 1440	Pre-Calculus: GT-MA1 ¹	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1022	English Composition II: GT-CO2	3
	Subtotal	15
Third Semest	ter	
MAT 2410	Calculus I: GT-MA1	5
CSC 1060	Computer Science I: (Language)	4
Choose One H	History Course (GT-HI1)	3
HIS 1320	Western Civilization: 1650-Present: GT-HI1	

HIS 2500	History of Islamic Civilization: GT-HI1	0
Choose One A	rts & Humanities Course (GT-AH1~GT-AH2~GT-AH4)	3
ART 1111	Art History Ancient to Medieval: GT-AH1	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1023	Survey of World Music: GT-AH1	
MUS 1025	History of Jazz: GT-AH1	
	Subtotal	15
Fourth Semes		15
Fourth Semes		15
	ter	
MAT 2420	ter Calculus II: GT-MA1	5
MAT 2420 PHY 2111 COM 2300	cter Calculus II: GT-MA1 Physics Calculus Based I with Lab: GT-SC1	5
MAT 2420 PHY 2111 COM 2300	Calculus II: GT-MA1 Physics Calculus Based I with Lab: GT-SC1 Intercultural Communication: GT-SS3 hter-institutional Course	5 5 3
MAT 2420 PHY 2111 COM 2300 Choose One Ir	Calculus II: GT-MA1 Physics Calculus Based I with Lab: GT-SC1 Intercultural Communication: GT-SS3 atter-institutional Course MSU)	5 5 3
MAT 2420 PHY 2111 COM 2300 Choose One Ir EET 2310 (Calculus II: GT-MA1 Physics Calculus Based I with Lab: GT-SC1 Intercultural Communication: GT-SS3 atter-institutional Course MSU)	5 5 3

MAT 1340 and MAT 1440 are prerequisites for MAT 2410, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.

Mechanical Engineering UNIVERSITY OF COLORADO DENVER TRANSFER

The Associate of Science degree in Mechanical Engineering is designed for you to complete the first two years of a bachelors degree and transfer to University of Colorado Denver (UCD) for a bachelor degree in Mechanical Engineering. As a mechanical engineer you work in areas such as manufacturing, transportation, and aerospace industries.

Course	Title	Credits
First Semeste	•	
EGG 1030	Robotics Design	1
CAD 1101	Computer Aided Drafting I	3
MAT 1340	College Algebra: GT-MA1 ¹	4
ENG 1021	English Composition I: GT-CO1	3
ECO 2002	Principles of Microeconomics: GT-SS1	3
	Subtotal	14
Second Seme	ester	
EGG 1051	Experimental Design	2
MAT 1440	Pre-Calculus: GT-MA1 1	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1022	English Composition II: GT-CO2	3
	Subtotal	15
Third Semest	ter	
CAD 2455	SolidWorks/Mechanical	3
MAT 2410	Calculus I: GT-MA1	5
PHI 1012	Ethics: GT-AH3	3
COM 2300	Intercultural Communication: GT-SS3	3
EGG 1050	Engineering Data Analysis ²	1
	Subtotal	15
Fourth Seme	ster	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
Choose One I	History Course (GT-HI1)	3
HIS 1320	Western Civilization: 1650-Present: GT-HI1	
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 2005	Women in World History: GT-HI1	
HIS 2200	History of Latin America: GT-HI1	
HIS 2015	20th Century World History: GT-HI1	

HIS 2500	History of Islamic Civilization: GT-HI1	
Choose One A	rts & Humanities Course (GT-AH1~GT-AH2~GT-AH4)	3
ART 1111	Art History Ancient to Medieval: GT-AH1	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1023	Survey of World Music: GT-AH1	
MUS 1025	History of Jazz: GT-AH1	
	Subtotal	16
	Total Credits	60

MAT 1340 and MAT 1440 are prerequisites for MAT 201, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.

MECHANICAL ENGINEERING

METROPOLITAN STATE UNIVERISTY OF DENVER TRANSFER

The Associate of Science degree in Mechanical Engineering is designed for you to complete the first two years of a bachelors degree and transfer to Metropolitan State University of Denver (MSU Denver) for a bachelor degree in Mechanical Engineering. As a mechanical engineer you work in areas such as manufacturing, transportation, and aerospace industries.

Course First Semeste	Title	Credits
EGG 1030	Robotics Design	1
CAD 1101	Computer Aided Drafting I	3
MAT 1340	College Algebra: GT-MA1 ¹	4
ENG 1021	English Composition I: GT-CO1	3
ECO 2002	Principles of Microeconomics: GT-SS1	3
LOO 2002	Subtotal	14
Second Seme		14
EGG 1051	Experimental Design	2
MAT 1440	Pre-Calculus: GT-MA1 ¹	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
ENG 1022	English Composition II: GT-CO2	3
	Subtotal	15
Third Semeste	er	
CAD 2455	SolidWorks/Mechanical	3
MAT 2410	Calculus I: GT-MA1	5
PHI 1012	Ethics: GT-AH3	3
COM 2300	Intercultural Communication: GT-SS3	3
EGG 1050	Engineering Data Analysis ²	1
	Subtotal	15
Fourth Semes	ster	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
Choose One H	listory Course (GT-HI1)	3
HIS 1320	Western Civilization: 1650-Present: GT-HI1	
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 2005	Women in World History: GT-HI1	
HIS 2200	History of Latin America: GT-HI1	
HIS 2015	20th Century World History: GT-HI1	
HIS 2500	History of Islamic Civilization: GT-HI1	
Choose One A	rts & Humanities Course (GT-AH1~GT-AH2~GT-AH4)	3
ART 1111	Art History Ancient to Medieval: GT-AH1	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	-
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1023	Survey of World Music: GT-AH1	
MUS 1025	History of Jazz: GT-AH1	
	Subtotal	16
	Total Credits	60

- 1 MAT 1340 and MAT 1440 are prerequisites for MAT 201, the first math class required for an engineering degree. Please see an advisor if you do not need to take MAT 1340 or MAT 1440.
 2 *** FCC 1050 is a first of the control of t
- 2 EGG 1050 is an elective. Please see an advisor for other classes to meet graduation requirements.

Associate of Engineering Science

Associate Of Engineering Science (AES)

Science, Technology, Engineering & Math Pathway

Colorado School of Mines Transfer

The Associate of Engineering Science degree in Engineering is designed for you to complete the first two years of a bachelors degree and transfer to Colorado School of Mines (CSM) for a bachelor degree in Engineering.

Course	Title	Credits
First Semest	er	
MAT 2410	Calculus I: GT-MA1	5
EGT 1110	IDEA: Introduction to Design and Engineering Applications	3
ENG 1031	Technical Writing I: GT-CO1	3
ECO 2001	Principles of Macroeconomics: GT-SS1	3
	Subtotal	14
Second Sem	ester	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
HIS 2015	20th Century World History: GT-HI1	3
PHI 2018	Environmental Ethics: GT-AH3	3
	Subtotal	16
Third Semes	ter	
MAT 2431	Calculus III with Engineer Applications: GT-MA1	5
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	5
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
	Subtotal	15
Fourth Seme	ster	
MAT 2562	Differential Equations with Linear Algebra	4
CHE 1112	General College Chemistry II with Lab: GT-SC1	5
CSC 1060	Computer Science I: (Language)	4
PED 9050- Ph	nysical Education	2
	Subtotal	15
	Total Credits	60

ASSOCIATE OF ENGINEERING SCIENCE (AES)- MECHANICAL Colorado State University Transfer Track

The Associate of Engineering Science degree in Mechanical Engineering is designed for you to complete the first two years of a bachelors degree and transfer to Colorado State University (CSU) for a bachelor degree in Mechanical Engineering. As a mechanical engineer you work in areas such as manufacturing, transportation, and aerospace industries.

Course	Title	Credits
First Semest	er	
MAT 2410	Calculus I: GT-MA1	5
EGT 1110	IDEA: Introduction to Design and Engineering Applications	3
ENG 1031	Technical Writing I: GT-CO1	3
ECO 2001	Principles of Macroeconomics: GT-SS1	3
CAD 2455	SolidWorks/Mechanical	3
	Subtotal	17
Second Sem	ester	
MAT 2420	Calculus II: GT-MA1	5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
EGG 1060	Introduction to Engineering Computing	4
EGG 2011	Engr Mechanics I - Statics	3
	Subtotal	17

² EGG 1050 is an elective. Please see an advisor for other classes to meet graduation requirements.

Third Semester

	Total Credits	65
	Subtotal	15
ENG 1022	English Composition II: GT-CO2	3
EGG 1051	Experimental Design	2
EGG 1050	Engineering Data Analysis	1
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
MAT 2562	Differential Equations with Linear Algebra	4
Fourth Sem	ester	
	Subtotal	16
PHI 2018	Environmental Ethics: GT-AH3	3
EGG 2012	Engineering Mechanics II (Dynamics)	3
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	5
MAT 2431	Calculus III with Engineer Applications: GT-MA1	5

ASSOCIATE OF ENGINEERING SCIENCE (AES)- MECHANICAL University of Colorado Boulder TRANSFER TRACK

The Associate of Engineering Science degree in Mechanical Engineering is designed for you to complete the first two years of a bachelors degree and transfer to University of Colorado Boulder (CU) for a bachelor degree in Mechanical Engineering. As a mechanical engineer you work in areas such as manufacturing, transportation, and aerospace industries.

Course	Title	Credits		
First Semeste	•			
MAT 2410	Calculus I: GT-MA1	5		
EGT 1110	IDEA: Introduction to Design and Engineering Applications	3		
ENG 1031	Technical Writing I: GT-CO1	3		
ECO 2001	Principles of Macroeconomics: GT-SS1	3		
CAD 2455	SolidWorks/Mechanical	3		
	Subtotal	17		
Second Seme	ster			
MAT 2420	Calculus II: GT-MA1	5		
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5		
EGG 1060	Introduction to Engineering Computing	4		
EGG 2011	Engr Mechanics I - Statics	3		
	Subtotal	17		
Third Semester				
MAT 2431	Calculus III with Engineer Applications: GT-MA1	5		
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	5		
EGG 2012	Engineering Mechanics II (Dynamics)	3		
PHI 2018	Environmental Ethics: GT-AH3	3		
	Subtotal	16		
Fourth Semester				
MAT 2562	Differential Equations with Linear Algebra	4		
CHE 1111	General College Chemistry I with Lab: GT-SC1	5		
EGG 2030	Mechanics of Solids	3		
Choose One C	3-4			
CSC 1061	Computer Science II: (Language)			
PHY 2113	Physics III: Calculus Based Modern Physics			
	Subtotal	15-16		
	Total Credits	65-66		

ASSOCIATE OF ENGINEERING SCIENCE (AES)- Civil UNIVERSITY OF COLORADO BOULDER TRANSFER TRACK

The Associate of Engineering Science degree in Civil Engineering is designed for you to complete the first two years of a bachelors degree and transfer to University of Colorado Boulder (CU) for a bachelor degree in Civil Engineering. As a civil engineer you work in areas such as structural design and construction, water management, and energy explorations.

Course	Title	Credits
First Semest	er	
MAT 2410	Calculus I: GT-MA1	5

	Subtotal Total Credits	15-16 65-66
EGG 2020	Thermodynamics	
GEY 1111	Physical Geology with Lab: GT-SC1	
Choose One Course		3-4
EGG 2030	Mechanics of Solids	3
CHE 1111	General College Chemistry I with Lab: GT-SC1	5
MAT 2562	Differential Equations with Linear Algebra	4
Fourth Semes	ter	
	Subtotal	16
PHI 2018	Environmental Ethics: GT-AH3	3
EGG 2012	Engineering Mechanics II (Dynamics)	3
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	5
MAT 2431	Calculus III with Engineer Applications: GT-MA1	5
Third Semeste	er	
	Subtotal	17
EGG 2011	Engr Mechanics I - Statics	3
EGG 1060	Introduction to Engineering Computing	4
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	5
MAT 2420	Calculus II: GT-MA1	5
Second Seme		
0,10 2220	Subtotal	17
CAD 2220	Revit Architecture	3
ECO 2001	Principles of Macroeconomics: GT-SS1	3
ENG 1031	Technical Writing I: GT-CO1	3
EGT 1110	IDEA: Introduction to Design and Engineering Applications	3