MATHEMATICS

Associate of Science Degree

Science, Technology, Engineering & Math Pathway
CCD.edu/Math

Mathematics Transfer Major

The Associate of Science degree with a designation in mathematics is a two-year program designed for you to graduate and transfer to a four-year institution to complete a bachelor's degree in mathematics. You will explore calculus and computer/engineering applications. Mathematics is more than the study of counting and measurement, it includes the study of shapes and motion. Mathematicians look for patterns and use them to design new theories, new models and even predictions about nature. Career paths in mathematics include finance, engineering, computer science, coding, accounting, statistics and research.

COURSE MAP

Course	Title	Credits
First Semester		
MAT 2410	Calculus I: GT-MA1	5
PSY 1001	General Psychology I: GT-SS3	3
Choose One Communication Course (GT-CO1~GT-CO2)		3
ENG 1021	English Composition I: GT-CO1	
ENG 1031	Technical Writing I: GT-CO1	
ENG 1022	English Composition II: GT-CO2	
Choose One History Course (GT-HI1)		3
HIS 1110	The World: Antiquity-1500: GT-HI1	
HIS 1120	The World: 1500-Present: GT-HI1	
HIS 2005	Women in World History: GT-HI1	
HIS 2015	20th Century World History: GT-HI1	
HIS 2110	African American History: GT-HI1	
HIS 2200	History of Latin America: GT-HI1	
	Subtotal	**14**
Second Semester		
MAT 2420	Calculus II: GT-MA1	5
Choose One Communication Course (GT-CO2~GT-CO3)		3
ENG 1022	English Composition II: GT-CO2	
ENG 2001	English Composition III: GT-CO3	
Choose One Natural & Physical Sciences Course (GT-SC1)		5
BIO 1111	General College Biology I with Lab: GT-SC1	
CHE 1111	General College Chemistry I with Lab: GT-SC1	
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	
Choose One Arts & Humanities Course (GT-AH3~GT-AH4))		3
PHI 1011	Intro to Philosophy: GT-AH3	
PHI 1012	Ethics: GT-AH3	
PHI 1013	Logic: GT-AH3	
PHI 1014	Comparative Religions: GT-AH3	
PHI 2018	Environmental Ethics: GT-AH3	
SPA 2061	Spanish Language for Heritage and Intermediate-Mid Speakers: GT-AH4	
	Subtotal	**16**
Third Semester		
MAT 2431	Calculus III with Engineer Applications: GT-MA1	5
CSC 1019	Introduction to Programming	3
Choose One Natural & Physical Sciences Course (GT-SC1~GT-SC2)		3
AST 1140	Astronomy of Ancient Cultures: GT-SC2	
ENV 1010	Natural Disasters: GT-SC2	
GEO 1060	Global Climate Change: GT-SC2	
Choose One Communication Course		3
COM 1250	Interpersonal Communication: GT-SS3	
COM 2300	Intercultural Communication: GT-SS3	
	Subtotal	**14**
Fourth Semester		
CSC 1060	Computer Science I: (Language)	4
Choose One Arts & Humanities Course (GT-AH1~GT-AH2)		3
ART 1110	Art Appreciation: GT-AH1	
HUM 1015	World Mythology: GT-AH2	
LIT 2002	World Literature After 1600: GT-AH2	
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	
LIT 2059	Survey of African American Literature: GT-AH2	
MUS 1025	History of Jazz: GT-AH1	
Choose One Social & Behavioral Sciences Course (GT-SS1~GT-SS3)		3
ECO 2001	Principles of Macroeconomics: GT-SS1	
ECO 2002	Principles of Microeconomics: GT-SS1	
ETH 2000	Introduction to Ethnic Studies: GT-SS3	
GEO 1005	World Regional Geography: GT-SS2	
PSC 2020	Intro to Political Science: GT-SS1	
SOC 1001	Introduction to Sociology I: GT-SS3	
Choose One Elective Course		3
MAT 1260	Intro to Statistics: GT-MA1	
MAT 2540	Linear Algebra	
MAT 2560	Differential Equations: GT-MA1	
DAT 1001	Introduction to Data Science	
DAT 2001	Calculus Based Statistics and Modeling	
DAT 2002	Visualizing Data	
Choose One Elective Course		3
MAT 1260	Intro to Statistics: GT-MA1	
MAT 2540	Linear Algebra	
MAT 2560	Differential Equations: GT-MA1	
DAT 1001	Introduction to Data Science	
DAT 2001	Calculus Based Statistics and Modeling	
DAT 2002	Visualizing Data	
	Subtotal	**16**
	Total Credits	**60**

NOTE: The faculty at Community College of Denver have chosen course elective options for this program of study based on the skills students will need to be successful in this discipline. However, for a complete list of available course options, please go to the Colorado Department of Higher Education Transfer Degree Agreement for this program.