

ASSOCIATE OF SCIENCE DEGREES

Statewide Transfer Major

The Associate of Science (A.S.) degree provides a learning foundation in mathematics and the sciences. Although some students work toward the A.S. degree for personal enrichment, many plan to transfer to four-year colleges and universities to continue work toward a baccalaureate degree and professional training in such fields as engineering, medicine, mathematics, biology, chemistry and physics.

You can complete this program in four semesters, going full-time and carrying the required number of hours. You may choose, due to personal circumstances, to extend the amount of time for completion. The A.S. degree is sometimes referred to as a "university parallel" or "transfer" degree. The general education core requirements, when completed at CCD, meet the lower-division general education requirements of all public baccalaureate colleges and universities in the state of Colorado.

As a graduate with an A.S. degree, you may transfer into liberal arts or sciences programs in all public baccalaureate colleges and universities with junior standing. All courses must be completed with a grade of C or better. You should familiarize yourself with the full requirements of the school you plan to attend. Many of these guides are available in the Career & Transfer Center. You should also check the website of your transfer school for the most recent information.

Requirements

Students must complete a total of 60 credit hours for the associate degree. Requirements in four-year or professional programs sometimes change yearly. Meet regularly with your academic advisor to ensure satisfactory progress is being made toward completion of the Associate of Science (A.S.) degree and transferability of

COURSE MAP NOTE

This general Associate of Science degree is intended to assist students with a wide range of potential bachelor's degrees. Please refer to your chosen transfer guide or speak to an academic advisor to ensure that you are taking the correct sequence of courses.

COURSE MAP

Course	Title	Credits
First Semester		
Choose One Social & Behavioral Sciences Course (GT-SS3)		3
SOC 1001	Introduction to Sociology I: GT-SS3	
SOC 1002	Introduction to Sociology II: GT-SS3	
Choose One Written Communication Course (GT-CO1-GT-CO2) ¹		3
ENG 1021	English Composition I: GT-CO1	
ENG 1031	Technical Writing I: GT-CO1	
ENG 1022	English Composition II: GT-CO2	
Choose One Mathematics Course (GT-MA1)		4-5
MAT 1340	College Algebra: GT-MA1	
MAT 1440	Pre-Calculus: GT-MA1	
MAT 2410	Calculus I: GT-MA1	
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 ³	
Subtotal		13-14
Second Semester		
Choose One Arts & Humanities Course (GT-AH3)		3
PHI 1012	Ethics: GT-AH3	
PHI 1013	Logic: GT-AH3	
PHI 2018	Environmental Ethics: GT-AH3 ³	
PHI 1014	Comparative Religions: GT-AH3	
Choose One Written Communication Course (GT-CO2-GT-CO3) ¹		3
ENG 1022	English Composition II: GT-CO2	

ENG 2001	English Composition III: GT-CO3	
Choose One Elective		5
MAT 1440	Pre-Calculus: GT-MA1 ²	
MAT 2410	Calculus I: GT-MA1 ²	
MAT 2420	Calculus II: GT-MA1 ²	
BIO 1111	General College Biology I with Lab: GT-SC1	
CHE 1111	General College Chemistry I with Lab: GT-SC1	
PHY 1111	Physics Algebra-Based I with Lab: GT-SC1	
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 1111	Physics Algebra-Based I with Lab: GT-SC1	
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	
Subtotal		16
Third Semester		
COM 2300	Intercultural Communication: GT-SS3	3
Choose One Elective		5
MAT 2410	Calculus I: GT-MA1 ²	
MAT 2420	Calculus II: GT-MA1 ²	
MAT 2431	Calculus III with Engineer Applications: GT-MA1 ²	
BIO 1112	Gen College Biology II with Lab: GT-SC1	
CHE 1112	General College Chemistry II with Lab: GT-SC1	
PHY 1112	Physics Algebra-Based II with Lab: GT-SC1	
Choose One Natural & Physical Sciences Course (GT-SC1)		5
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	
BIO 1112	Gen College Biology II with Lab: GT-SC1	
CHE 1112	General College Chemistry II with Lab: GT-SC1	
PHY 1112	Physics Algebra-Based II with Lab: GT-SC1	
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	
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 ³	
GEO 1005	World Regional Geography: GT-SS2	
PSY 1001	General Psychology I: GT-SS3	
PSY 2440	Human Growth and Development: GT-SS3	
ANT 2550	Medical Anthropology: GT-SS3	
Subtotal		16
Fourth Semester		
Choose One Elective		5
MAT 2420	Calculus II: GT-MA1 ²	
MAT 2431	Calculus III with Engineer Applications: GT-MA1 ²	
CHE 2111	Organic Chemistry I with Lab	
Choose One Natural & Physical Sciences Course (GT-SC1)		4-5
BIO 2102	Human Anatomy & Physiology II with Lab: GT-SC1	
PHY 2112	Physics Calculus-Based II with Lab: GT-SC1	
BIO 2101	Human Anatomy & Physiology with Lab I: GT-SC1	
PHY 2111	Physics Calculus Based I with Lab: GT-SC1	
GEY 1112	Historical Geology with Lab: GT-SC1	
BIO 2104	Microbiology with Lab: GT-SC1	
Choose One Arts & Humanities Course (GT-AH1-GT-AH2))		3
LIT 2005	Race, Ethnicity, and Culture in U.S. Literature: GT-AH2	
MUS 1025	History of Jazz: GT-AH1	
LIT 2002	World Literature After 1600: GT-AH2 ³	
ART 1110	Art Appreciation: GT-AH1	
HUM 1015	World Mythology: GT-AH2	
LIT 2059	Survey of African American Literature: GT-AH2	
Choose One Elective		3-4
MAT 2560	Differential Equations: GT-MA1 ²	
CIS 1018	Introduction to PC Applications	
CSC 1060	Computer Science I: (Language)	
BIO 1016	Introduction to Human Disease: GT-SC2	
HWE 1050	Human Nutrition	

MAT 1260 Intro to Statistics: GT-MA1 ²	
Subtotal	15-17
Total Credits	60-63

¹ Students must take EITHER a GT-CO1 course and a GT-CO2 course OR a GT-CO2 course and a GT-CO3 course.

² See your chosen transfer guide or speak to an academic advisor for specific information on your MAT requirements.

³ If you intend to transfer to the Colorado School of Mines, you must take these courses.

NOTE FOR STUDENTS PLANNING TO TRANSFER: Students who plan on transferring to a four-year institution should review the transfer requirements of the desired program at that institution prior to selecting courses in the third and fourth semester at CCD. It is strongly recommended that students meet with their advisor for assistance after completing 30 credits toward an Associate of Science degree.

NOTE ON DEGREE COMPLETION REQUIREMENTS: Students must complete at least 60 credits in order to graduate with an Associate of Science degree. In any semester, if the total load is less than 15 credits, additional credits must be taken in subsequent semesters to reach 60 credits to graduate. Therefore, when making choices about individual classes, be mindful of the transfer requirements of your anticipated four-year institution and of the impact on the 60 credit Associate of Science degree. It is strongly recommended that an individualized degree plan be completed with the help of an advisor.

NOTE ON PREREQUISITES: Students who have taken prerequisite courses longer than seven years ago are strongly encouraged to take an assessment test over the prerequisite material to ensure adequate prior knowledge to be successful in future courses. The outcome of the assessment test will help the student determine whether or not he or she needs to re-take the prerequisite course. The assessment test is available in the CCD Testing Center.

For Health Science degrees, because of program accreditation requirements, students must have completed all science courses within the previous seven years before the first day of class in a health program.