



PATHWAY: Chemistry

Visit your College Advisor, ccc.edu, or your college's Transfer Center for more information.

When you think of chemistry, you might think of atoms and bonds, bubbling beakers and smoking test tubes. In reality, chemistry students use mathematics, theory, and experimentation to study the matter that makes up physical substances. People working in the field of chemistry make valuable contributions in a range of fields, including medicine, biology, psychology, and geology. Follow the chemistry pathway and you'll explore many different topics, from the chemical basis for life to the environmental problems caused by chemicals. The chemistry pathway leads to an associate degree which will allow you to transfer as a junior to a four-year college to complete your bachelor's degree. You might become a pharmacist, scientist, forensics specialist, food scientist, dentist, materials engineer or hazardous materials specialist.

DEGREE CODE:
AGS 0203

This is an **example course sequence** for students interested in earning a degree in Chemistry. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn an Associate in General Studies (AGS) degree. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Choose your courses with your College Advisor.

Communications and mathematics pre-credit requirements. Placements based on current placement instrument, ACT or department chair recommendation.			College-level courses that can be taken while in pre-credit courses.	
ENGLISH PLACEMENT	READING PLACEMENT	MATHEMATICS PLACEMENT	GENERAL EDUCATION COURSES	ELECTIVE COURSES
<input type="checkbox"/> ESL/FS Writing	<input type="checkbox"/> ESL/FS Reading	<input type="checkbox"/> FS Mathematics I	<input type="checkbox"/> Humanities: Africana Studies 101	<input type="checkbox"/> College Success
<input type="checkbox"/> ESL/English 98	<input type="checkbox"/> ESL/Reading 99	<input type="checkbox"/> FS Mathematics II		
<input type="checkbox"/> ESL 99	<input type="checkbox"/> ESL Reading 100	<input type="checkbox"/> Mathematics 98		
<input type="checkbox"/> ESL/English 100	<input type="checkbox"/> Reading 125	<input type="checkbox"/> Mathematics 99		

SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students by adding more semesters.

D	SEMESTER 1	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	English 101–Composition I (3)	<i>Communications</i>	DO THIS –Meet with advisor to discuss academic goals and plan coursework DO THIS –Begin research on four-year schools
●	Chemistry 201–General Chemistry I (5)	<i>Physical & Life Sciences</i>	
●	Mathematics 207–Calculus and Analytic Geometry I (5)	<i>Mathematics</i>	
●	Social & Behavioral Sciences course (HD) (3)	<i>Social & Behavioral Sciences (HD)</i>	
16 CREDIT HOURS			
D	SEMESTER 2	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	English 102–Composition II (3)	<i>Elective</i>	DO THIS –Mid-term check-in with advisor DO THIS –Visit your campus Transfer Center to discuss options and create a short list of four-year schools for potential transfer
●	Chemistry 203–General Chemistry II (5)	<i>Elective</i>	
●	Mathematics 208–Calculus and Analytic Geometry II (5)	<i>Elective</i>	
●	Fine Arts & Humanities course (3)	<i>Fine Arts & Humanities</i>	
16 CREDIT HOURS			
D	SEMESTER 3	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	Chemistry 205–Organic Chemistry I (6)	<i>Elective</i>	DO THIS –Mid-term check-in with advisor DO THIS –Begin seeking additional four-year funding outlets such as scholarships and aid
●	Physics 235–Engineering Physics I: Mechanics and Wave Motion (5)	<i>Elective</i>	
●	Social & Behavioral Sciences course (3)	<i>Social & Behavioral Sciences</i>	
14 CREDIT HOURS			
D	SEMESTER 4	CATEGORY	ACHIEVEMENTS & NEXT ACTIONS
●	Chemistry 207–Organic Chemistry II (6)	<i>Elective</i>	COMPLETION of Associate in General Studies degree in Chemistry *Students interested in a Bachelor of Arts in Chemistry rather than a BS should substitute Physics 221/222 for Physics 235/236 *Students interested in a Bachelor of Science in Chemistry should take Mathematics 209–Calculus and Analytic Geometry III (5)
●	Physics 236–Engineering Physics II: Electricity and Magnetism (5)*	<i>Elective</i>	
●	Fine Arts & Humanities course (3)	<i>Fine Arts & Humanities</i>	
14 CREDIT HOURS			
DEGREE MINIMUM: 60 CREDIT HOURS // PATHWAY TOTAL: 60 CREDIT HOURS			

D = DEGREE // AC = ADVANCED CERTIFICATE // BC = BASIC CERTIFICATE

Programs offered at: