

Governors State University



Associate of Arts or Science to Bachelor of Science in Chemistry

Courses taken at JJC

ENG 101	Rhetoric
ENG 102	Rhetoric
COMM 101	Principles of Speech Communication
GEN ED	Humanities course (3 credit hours)**
GEN ED	Fine Arts course (3 credit hours)**
GEN ED	One Humanities or Fine Arts course (3 credit hours)**
MATH 170	Calculus with Analytical Geometry 1
BIO 151	General Biology I
CHEM 101	General Chemistry I
GEN ED	Social and Behavioral Sciences: Select three courses in at least two different disciplines (9 credit hours)**
CHEM 102	General Chemistry II
CHEM 209	Organic Chemistry I
CHEM 210	Organic Chemistry II
MATH 171	Calculus with Analytical Geometry II
Elective	Free Electives (3 credit hours)**

Total JJC Credits: 64*

Note: Students can complete up to 80 hours at JJC by taking additional electives reducing the GSU electives.

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GSU Advisor: Nichole Dalaly
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Courses taken at GSU

CHEM	Analytical Chemistry***
MATH	Differential Equations***
PHYS	Physics I***
PHYS	Physics II***
CHEM 3099	Chemistry Junior Seminar
CHEM 3641	Physical Chemistry I: Lecture
CHEM 3642	Physical Chemistry I: Laboratory
CHEM 3643	Physical Chemistry II: Lecture
CHEM 3644	Physical Chemistry II: Laboratory
CHEM 4331	Biochemistry: Lecture I
CHEM 4332	Biochemistry: Laboratory
CHEM 4443	Advanced Inorganic Chemistry
CHEM 4444	Advanced Inorganic Chemistry Laboratory
CHEM 4552	Intro to Chemistry Software and Molecular Modeling
CHEM 4743	Instrumental Analysis
CHEM 4744	Instrumental Analysis Laboratory
CHEM 4965	Senior Capstone and thesis in Chemistry
STAT 4219	Statistical Methods
CHEM 4952 or CHEM 4962	Organic Synthesis & Structural Methods or Undergraduate Research Experience**
Selectives	Advanced Selectives: See GSU Catalog or Advisor for list of course choices (6 credit hours)**
Electives	Select Electives (2-3 credit hours)**

Total GSU Credits: 56-59*

Total Degree Credits: 120-123*

Minimum required for the BS in Chemistry: 120 hours (120-123 hours as written)*



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2+2

*This transfer guide is a sample curriculum. Additional courses may be required based on placement test scores. Please work with your faculty advisor or success coach prior to course registration.

**Courses are to be chosen in consultation with an academic advisor.

*** May be taken at JJC or GSU: Analytical Chemistry: JJC CHEM 105 or GSU CHEM 3233/3234, Differential Equations: JJC MATH 220 or GSU MATH 2271, Physics 1: JJC PHYS 201 or GSU PHYS 2171/2172, Physics II: JJC PHYS 202 or GSU PHYS 2181/2182

About GSU's Program:

The study of chemistry allows us to understand the world around us—it is known as the central science that connects all others. Governors State's Bachelor of Science in Chemistry, approved by the American Chemical Society, equips students with foundational knowledge in the concepts of analytical, biochemical, inorganic, organic, and physical chemistry. All qualified graduates will receive certification from the American Chemical Society. Students qualify for certification by completing the program's degree requirements, including at least 6 semester hours of advanced courses and 500 laboratory hours. Chemistry graduates are employed in a variety of fields, including manufacturing, research, testing, waste management, and government positions. As increased attention is focused in fields such as energy, transportation, and electronics, demand for chemists and material scientists is anticipated to grow by 7% over the next decade (Bureau of Labor Statistics).

About JJC's Program:

Whether you've always known what you wanted to study in college or you're undecided, JJC offers more than 180 degree and certificate programs to choose from. It doesn't matter if you're planning to transfer or complete your degree here - JJC can help guide you as you journey toward your future career. Associate in Arts degrees are for those intending to transfer to a four year university after JJC and major in the social sciences, humanities, fine arts, and other majors falling under the arts. See the Associate in Arts page for curriculum requirements. Associate in Science degrees are for those intending to transfer to a four year university after JJC and major in mathematics, natural sciences, technology, and other majors falling under the science category. See the Associate in Science page for curriculum requirements.

Questions:

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Student Advising Center
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