

Associate of Science to Bachelor of Science in Chemistry

The following is presented as an articulation agreement between Prairie State College (PSC) and Governors State University (GSU) for the Chemistry degree program based on the current catalogs of both schools. The student would receive an Associate of Science (AS) degree from PSC and a Bachelor of Science (BS) degree in Chemistry from GSU.

I. TRANSFERABLE GENERAL EDUCATION CORE (44 Hours)

Area A: Communications (9 hours)

- ENG 101 - Composition I (3)
 - ENG 102 - Composition II (3)
 - COMM 101 - Principles of Communication (3)
- **Must have a C or better in ENG 101 & 102 to receive credit for the degree.*

Area B: Humanities and Fine Arts (6 hours)

- Humanities Course (3)*
- Fine Arts Course (3)*

Area C: Mathematics (10 hours)

- MATH 171 - Calculus with Analytic Geometry I (5) (Meets MATH 2290)
- MATH 172 - Calculus with Analytic Geometry II (5) (Meets MATH 2292)

Area D: Physical and Life Sciences (12-13 hours)

- Biology Course (3-4) (BIOL 100 or 111 recommended)
- CHEM 110 - General Chemistry I (5) (Meets CHEM 1141/1142)
- PHYSI 210 - University Physics I (4) (Meets PHYS 2171/2172)

Area E: Social and Behavioral Sciences (6 hours)

- Social and Behavioral Science courses from two different disciplines (6)*

II. CHEMISTRY MAJOR REQUIREMENTS (19 Hours)

- CHEM 130 - General Chemistry II (5) (Meets CHEM 1143/1144)
- CHEM 203 - Organic Chemistry I (5) (Meets CHEM 3531/3532)
- CHEM 204 - Organic Chemistry II (5) (Meets CHEM 3533/3534)
- PHYSI 220 - University Physics II (4) (Meets PHYS 2181/2182)

REQUIRED A.S. DEGREE PROGRAM TOTAL: 62 Hours (62-63 hours as written)

*Refer to the PSC AA/AS guidelines for a list of course choices in Area B-E.

Note: Students are strongly encouraged to complete up to 78 hours at PSC by taking course from section III and additional electives which will reduce the GSU Electives.

III. TO BE COMPLETED AT PSC OR GSU (9 Hours)

Differential Equations (3) (PSC MATH 216 or GSU MATH 2271)
Humanities or Fine Arts Course (3)*
Social and Behavioral Science Course (3)*

**Refer to the PSC or GSU catalog for a list of course choices in Section III.*

IV. TO BE COMPLETED AT GSU (48-49 Hours) Required Courses (34 hours)

CHEM 3099	- Chemistry Junior Seminar (3)
CHEM 3233	- Analytic Chemistry (3)
CHEM 3234	- Analytic Chemistry Laboratory (1)
CHEM 3641	- Physical Chemistry I: Lecture (3)
CHEM 3642	- Physical Chemistry I: Laboratory (1)
CHEM 3643	- Physical Chemistry II: Lecture (3)
CHEM 3644	- Physical Chemistry II: Laboratory (1)
CHEM 4331	- Biochemistry: Lecture I (3)
CHEM 4332	- Biochemistry: Laboratory (1)
CHEM 4443	- Advanced Inorganic Chemistry (3)
CHEM 4444	- Advanced Inorganic Chemistry Laboratory (1)
CHEM 4552	- Intro to Chemistry Software and Molecular Modeling (1)
CHEM 4743	- Instrumental Analysis (3)
CHEM 4744	- Instrumental Analysis Laboratory (1)
CHEM 4965	- Senior Capstone and thesis in Chemistry (3)
STAT 4219	- Statistical Methods (3)

Advanced Laboratory Selective (2 hours)

Select one of the following laboratory courses:

CHEM 4952 - Organic Synthesis & Structural Methods (2)
CHEM 4962 - Undergraduate Research Experience (2)

Advanced Selectives (6 hours)

See GSU Academics Catalog or Advisor for list of course choices.

Electives (6-7 hours)

Minimum Required for the BS in Chemistry: 120 Hours

GOVERNORS STATE UNIVERSITY

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