

Bachelor's programs in chemistry are built on an in-depth foundation of sequential coursework in science and math, while upper-division coursework provides the preparation necessary for graduate studies and/or work in industry. Multiple tracks are often available. For example, some institutions offer a specialty in biochemistry or certification for high school teaching. To transfer as a junior into a bachelor's chemistry program, students must complete 60 semester credits, (64 for the Associate degree), including all of the essential prerequisite courses below. Students should be aware that because of differences among schools in the number of credits for which various courses are offered and the possible need for prerequisite courses, it may be difficult to complete an Associate in Science degree without taking more credits than will be accepted in transfer.

Note: Students are strongly encouraged to complete a third semester of calculus (MAT 205) prior to transfer. Students are also encouraged to complete a third semester of engineering physics (PHY 213).

A grade of "C" or better may be required for chemistry, mathematics and engineering science courses to transfer.

Effective Fall of 2016, the associate in science (A.S.) degree is designed to complete the lower-division (freshman and sophomore) portion of a bachelor of science degree in STEM related majors. As a result, A.S. degree does not include the entire General Education Core Curriculum. **Therefore, students will need to complete MORE general education courses after transfer by completing the GECC curriculum while enrolled at the participating Illinois transfer institution OR fulfilling the general education requirements of their selected non-participating transfer institution.**

**Students who have already chosen the university to which they plan to transfer should consult that institution's catalog or department advisor and an SVCC academic advisor in planning their program.**

Chemistry - IAI Recommended Baccalaureate Curriculum

### Program Contacts at Sauk Valley Community College

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- Academic Advising, 815-835-6354
- David Edelbach, Associate Professor of Chemistry, 815-835-6364
- Cynthia Everett, Assistant Professor of Chemistry, 815-835-6379

## Total Hours Required - 66-68 Hours

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### Suggested Program

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#### First Semester - 16-18 Hours

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- Life Science (BIO 105 recommended) 3-5 Semester hour(s)
- CHE 105 - General Chemistry I (5 Semester Hours)
- ENG 101 - Composition I (3 Semester Hours)
- FYE 101 - First Year Experience (1 Semester Hours)
- MAT 203 - Calculus & Analytic Geometry I (4 Semester Hours)

#### Second Semester - 18 Hours

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- Personal Development 1 Semester hour(s)
- CHE 106 - General Chemistry II (5 Semester Hours)
- ENG 103 - Composition II (3 Semester Hours)
- MAT 204 - Calc & Analytic Geometry II (4 Semester Hours)
- PHY 211 - Engineering Physics I (5 Semester Hours)

#### Third Semester - 17 Hours

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- Social/Behavioral Science 3 Semester hour(s)
- Humanities 3 Semester hour(s)
- Personal Development 1 Semester hour(s)

- CHE 201 - Organic Chemistry I (5 Semester Hours)
- PHY 212 - Engineering Physics II (5 Semester Hours)

#### **Fourth Semester - 15 Hours**

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- Fine Arts 3 Semester hour(s)
- Social/Behavioral Science 3 Semester hour(s)
- Personal Development 1 Semester hour(s)
- CHE 202 - Organic Chemistry II (5 Semester Hours)
- COM 131 - Intro to Oral Communication (3 Semester Hours)