

## Associate in Science (417)

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Bachelor's programs in physics are based 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 applied physics or certification for high school teaching. To transfer as a junior into a bachelor's physics program students must complete a minimum of 60 semester credits. 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 a transfer. Students planning on a physics major should select courses in consultation with an advisor.

### Special Considerations

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Mathematical ability and computer skills are essential to the career success of physicists. Advanced degrees, often the Ph.D., are required for career advancement.

**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 counselor or academic advisor in planning their program.**

### Program Contacts at Sauk Valley Community College

Counseling Office, 815/835-6354;

Physics - IAI Recommended Baccalaureate Curriculum

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### Suggested Program

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First Semester - Sem/Hrs: 17

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

Second Semester - Sem/Hrs: 18

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

Third Semester - Sem/Hrs: 18

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

- PHY 212 - Engineering Physics II 5 Semester hour(s)
- SPE 131 - Introduction to Oral Communication 3 Semester hour(s)

Fourth Semester - Sem/Hrs: 18

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- Humanities/Fine Arts 3 Semester hour(s)
- Social/Behavioral Science 6 Semester hour(s)
  
- MAT 205 - Calculus and Analytic Geometry III 4 Semester hour(s)
- PHY 213 - Engineering Physics III 5 Semester hour(s)

Total Credits: 71

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Note

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Some schools also require completion of MAT 150, 231 and 211 before students may begin junior-year required courses.

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