

## Associate in Science (840)

---

Bachelor's degree programs in Computer Science encompass two distinct emphases: an information systems (or business) emphasis and a technical emphasis. While either emphasis will prepare a student for a computing career, there are important differences in the context of the work to be performed, the types of problems to be solved, and the types of systems to be designed and managed. For both emphases, starting positions include such titles as programmer, programmer-analyst, and network analyst. Be sure to see an academic advisor or computer science faculty member to select the appropriate emphasis for you.

### Technical Track

---

The Technical track focuses on algorithms, theoretical foundations of computer science, and development of software. A strong foundation in mathematics and science is needed for this emphasis.

Baccalaureate schools may have multiple computing degree programs, often located in different departments, which are based on the Computer Science recommendations. Consult the baccalaureate school you are considering as a transfer school to determine the department location and specific requirements for the specific major program in which you are interested.

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.**

Individualized articulation sheets for some universities are available in the advising office.

### Program Contacts at Sauk Valley Community College

Academic Advising, 815/835-6354;

Dr. Mary Lou Kidder, Professor of Computer Information Systems, 815/835-6358;

Kevin Megill, Associate Professor of Computer Information Systems, 815/835-6251;

Valarie Sleger, Professor of Computer Information Systems, 815/835-6388.

Computer Science - IAI Recommended Baccalaureate Curriculum

---

### Suggested Program

---

First Semester - Sem/Hrs: 17

---

- Fine Arts 3 Semester hour(s)
- Life Science 3 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)
- PSY 103 - Introduction to Psychology 3 Semester hour(s)

Second Semester - Sem/Hrs: 15

---

- \* CIS 207 - C++ Programming 3 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: 17

---

- Personal Development 3 Semester hour(s)
- CIS 208 - C++ Programming II 3 Semester hour(s)
- ECO 211 - Principles of Macroeconomics 3 Semester hour(s)
- MAT 230 - Discrete Mathematics 3 Semester hour(s)
- \*\* PHY 212 - Engineering Physics II 5 Semester hour(s)

Fourth Semester - Sem/Hrs: 16

---

- Humanities 3 Semester hour(s)
- Humanities/Fine Arts 3 Semester hour(s) or major field requirements
- COM 131 - Introduction to Oral Communication 3 Semester hour(s)
- ECO 212 - Principles of Microeconomics 3 Semester hour(s)
- or major field requirements
- \*\* MAT 205 - Calculus and Analytic Geometry III 4 Semester hour(s)

Total Credits: 65

---

Notes

---

PHY 213 - Engineering Physics is recommended.

\*CIS 150 or previous programming experience required as a prerequisite.

\*\*Students should complete the entire course sequence in calculus and physics at the same school before transferring.

<\div>