

# Computer Science (407)

## ASSOCIATE OF SCIENCE

### About Our Program

This program is intended to provide the first two years of a baccalaureate program. Majors in this program study the theory, design, development, and application of computer technology for storing and manipulating data and managing information.

### Program Outcomes

Students who complete this program of study will be able to:

- Apply computing knowledge appropriate to the emphasis/discipline.
- Solve problems in an information technology environment.
- Demonstrate professional behavior and ethical conduct.
- Demonstrate appropriate social and communication skills.
- Analyze the local and global impact of computing on society.
- Utilize data to help in the decision making process.

### Nature of Work and Employment

Computer Science majors need to be well organized, precise, and have attention for detail. They must interact with a wide variety of individuals in order to well define the computer assignments to be accomplished. Common jobs students have had one year after graduating from a four-year baccalaureate program in this major are computer programmer, systems analyst, network analyst, information system specialist, and systems manager.

### Special Considerations

The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements and specific university requirements in this major. Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met. Colleges and universities have specific requirements for transfer students.

### Program Contacts

Call Highland at 815-235-6121 for the following program contacts:

- Scott Anderson, Vice President of Business, Technology, and Community Programs
- Jeremy Monigold, Information Systems Faculty
- Vicki Schulz, Student Advisor/Transfer Coordinator

### Recommended Courses

The following are recommended courses for this major only. Students must still meet all requirements for the Associate of Science degree (see page 58) in order to graduate from Highland Community College. For more information, please see your student advisor.

|   |      |     |                                     |   |
|---|------|-----|-------------------------------------|---|
| * | INFT | 180 | Introduction to Information Systems | 3 |
| * | INFT | 190 | Principles of Computer Science I    | 3 |
| * | INFT | 290 | Principles of Computer Science II   | 3 |
| * | MATH | 250 | Analytic Geometry & Calculus I      | 5 |
| * | MATH | 255 | Analytic Geometry & Calculus II     | 5 |

\* Course has a prerequisite. See course description.

NOTE: Students should check with their student advisor or a computer science faculty member to ensure their choices in the math and science elective areas are appropriate.

