Major Information

The Computer Science major focuses on solving diverse problems by capitalizing on the use of computing equipment. This includes design and maintenance of software, tools, programming languages, and concepts as well as the skill of how to recast general problems into computing based solutions.

Planning Notes

- Students are expected to have had courses in their previous education which promote and develop a high level of critical thinking skills, such as would be expected in three years of high school mathematics.
- MATH 150 should be taken in the fall of your first year and MATH 200 taken in the spring of your first year. CSCI 231, 241, and 251 should be taken in the second year.
- All majors who have over a 3.0 GPA should consider becoming Math Center Tutors. Other majors should consider jobs in the Kearney Computing Center.
- If you are interested in graduate study, courses such as 290, 310, 313, 461 and 470 are helpful. If your goal is a career, those courses just mentioned are helpful, as are the two database courses 353 and 452.
- Junior/Senior majors who have over 3.0 GPA may qualify for an internship in a local industry. Contact Professor Liz Leboffe, lleboffe@sjfc.edu

Skills/Competencies for Success in the Major

- Work independently as well as in teams in a systematic manner towards the solution of large complex tasks, including design, specification, implementation, and testing.
- Draw from a thorough understanding of theoretical foundations of Computer Science.
- Thoroughly understand the importance of computer security on all aspects of computer science.
- Adjust to novel technologies and computing environments by committing to a life long learning process.
- Understand the professional, moral, and ethical issues as they relate to the work of a CS professional.
- Communicate efficiently using appropriate means and terminology with professionals as well as non-CS-professionals.

Related Programs & Suggested Minors

Students pursuing a B.S. in Computer Science may complete a minor in another area of study. Most minors require a minimum of 18 credits. A minor is not required.

Experiential Opportunities (Internships, Clinicals, Clubs & Organizations, etc.)

- CSCI 490, Internship: The student accepted into this course spends 10 to 15 hours per week as an intern with an organization in the Rochester area. The student participates in meaningful real-world computer applications or research.
- Computer Science majors are encouraged to get involved in campus organizations to include the Computer Science Club.
- Majors may also get involved in the Student Government Association (SGA), and the Student Activities Board (SAB), as well as any of the campus clubs and organizations on campus. Check the Student Government website http://home.sjfc.edu/sga for further information.

Career Opportunities & Related Fields

- For information on careers in Computer Science, refer to: What Can I Do With A Major In .... http://home.sjfc.edu/CareerServices