Computer Science

Today, computing is an enormously vibrant and growing field. In fact, from its inception just half a century ago, computing has become the defining technology of our age. Computers are integral to modern culture and are the primary engine behind much of the world’s economic growth. The field continues to evolve at an astonishing pace – as existing technologies become obsolete in the space of just a few years, new ones are constantly being introduced. A degree in computer science can provide graduates with the knowledge and skills needed to become a part of this exciting arena.

Computer science is associated with the development and analysis of computer software, algorithms, and technologies. Most information-age technologies – social networking, Web browsing, e-commerce – are the end result of years of work by computer scientists and engineers. The Bachelor of Science in Computer Science program at Lawrence Technological University offers you a sound foundation in computer science complemented by a broad core of courses in the sciences and liberal arts. A background in mathematics enables you to deal with scientific applications as well as the theoretical basis of computer science.

Software development is a major emphasis of the program, and depending on your personal goals, you may choose one of four concentrations: business software development, scientific software development, network software development, or game software development.

Exciting Opportunities
A variety of dynamic careers await you as a computer science graduate. With many basic programming and support tasks being shipped overseas, computer science majors can concentrate on the engaging aspects of intelligent systems, autonomous robots, game development, computer security, Web application development, data mining, networks, and virtual environments, just to mention a few.

Career opportunities occur in a wide variety of settings, such as large or small software companies, computer services companies, and various other organizations, including industry, government, banking, and health care.

While starting salaries vary widely, computer science graduates are typically well-paid.

CURRICULUM
Your degree requires 121 to 122 credit hours, depending on the concentration chosen, and consists of:

- Humanities (with emphasis on leadership) 28
- Natural Science 7 – 8
- Mathematics 18 – 21
- Computer Science 47
- Electives 18 – 21
- Total 121 – 22
Bachelor of Science in Computer Science

Graduates with a degree in Computer Science have many career options:
- Applications programming/design
- Artificial intelligence
- CAD/CAM design
- Computer engineering
- Customer support
- Game design
- Information systems
- Network administration
- Operations research
- Programming/analysis
- Software development
- Technical sales/support
- Technical writing
- Web design

The National Association of Colleges and Employers recently reported that the average annual salary for computer science graduates was more than $50,000.

Why Computer Science at Lawrence Tech?
The faculty at Lawrence Tech is dedicated to your success and can provide one-on-one advising to help you reach your individual goals and create a program geared to your specific interests. Small classes enhance your interaction with your professors and other students. You will learn in specialty labs devoted to multimedia, computer graphics, distributed computing, and robotics. Lawrence Tech’s signature “theory and practice” approach combines strong instruction in the fundamentals of computer science with a focus on the practical skills needed in the workplace. You can participate in cooperative projects and in classroom, state, national, and international competitions that can further enhance your team-building and leadership skills. Opportunities for paid internships can also provide links to employers as well as valuable hands-on experience.

Getting Started
For more information, visit ltu.edu/arts_sciences/computer_science or contact Lawrence Tech’s Office of Admissions at 800.CALL.LTU or admissions@ltu.edu.