University of Jamestown’s computer science and technology curriculum offers the theory and technical skills students need for a career in the computer world, as well as providing the liberal arts background that employers seek. Our goal is to turn out well-rounded individuals who can think for themselves and are prepared for a life of independent learning. The large technical firms are turning more and more to graduates with liberal arts degrees because these students have been trained to think critically and are prepared to move into broader technical management positions.

**About Our Department**

Our department offers three majors and three minors: Computer Science (major and minor), Information Technology (major and minor), Management Information Science (major), and Computer Graphic Design (minor).

**Computer Science Major**

The Computer Science major focuses on the study of the computer itself – how it is built, how the hardware and software works, and how to program the computer to achieve a task. The typical computer science application involves writing large programs using traditional programming languages and focusing on software architecture, data structures, and algorithm development issues. By learning the theory behind the machine and the programming of the machine, students strive to improve the hardware efficiency and build better applications, which the IT professional would help his/her clients adopt and use successfully.

**Information Technology Major**

The IT professional seeks to apply computer applications, networking, and databases to create solutions for individuals, organizations, education, and businesses. Students will study theory and applications of databases, web design, computer programming, networks, and operating systems. Students will learn to identify and evaluate current and emerging technologies and to assess their applicability to the users’ needs. The Liberal Arts environment at University of Jamestown allows students with an aptitude for technology to also take courses in areas of individual interest: music, communications, art, psychology, and more.

**Management Information Science Major**

The Management Information Science major focuses specifically on how businesses use and apply computer and database technology in today’s information economy. The major consists of computer courses that center on database use, programming and systems design and business courses such as accounting, finance, management, and marketing. These are designed to provide the student with the managerial skills and the technical competencies needed to effectively implement technology in a business environment.
Computer Graphic Design Minor
This minor is offered for students whose interests and future endeavors may involve the creation or implementation of computer-developed visual communications. The computer graphic design minor would complement a major in fine arts, business, computer science, information technology, communication, and other majors.

Related Concentrations
Traditionally, students taking the computer science and management information science majors have sought concentrations or minors in business administration, accounting, or mathematics.

Technology has emerged in virtually all employment areas in today's world. Students majoring in information technology may seek to pursue courses in many areas of personal interest in order to broaden their employment opportunities.

Modern Facility and Technology
University of Jamestown’s Unruh and Sheldon Center for Business and Computer Science opened in the Fall of 2006. It is a $4.5 million facility housing classrooms and computer labs designed with technology in mind to create a dynamic learning environment. The hardware lab and three classroom labs provide students with a modern facility in which to learn, question, discuss, and analyze the theory and application of computers and information technology. The Majors Lab provides a separate workplace for students with all the necessary software installed for their classes. The building’s amenities include:

- wireless network capabilities throughout the entire building
- study rooms with network ports for students to work on group projects
- three computer classrooms, three business classrooms, computer hardware lab, and majors computer lab
- dual or wide screen monitors at each computer station
- notebook computer ports at all stations in regular classrooms
- a classroom with interactive video capability
- instructor stations with dual projection systems to maximize information presented

Faculty

Kathryn Lemm, M.A., assistant professor. Teaches Integrated Software Applications, Programming (Java, Web/PHP), Comparison of Programming Languages, Computer Foundations and App Development. She is also an assistant track coach.


Chris Hoke, adjunct instructor. Teaches Windows Server and Operating Systems.

Corey Larson, adjunct instructor. Teaches PC Networking.

Career Opportunities
Employers look for University of Jamestown graduates! Many companies have repeatedly hired students from here. Some companies that employ University of Jamestown alumni include:

- IBM
- Boeing Aerospace
- Agricover, Inc.
- National Information Solutions Cooperative
- Blue Cross Blue Shield of North Dakota
- Microsoft
- Eagle Creek
- UTC Aerospace Systems
- Fast Enterprises
- Noridian
- Summit Group Software
- State of North Dakota

“After graduating from University of Jamestown with a Bachelor’s degree in Management Information Systems and a minor in Information Technology, it only took two months and I had the perfect career. I couldn’t be happier with the opportunities provided to me by University of Jamestown. The Unruh and Sheldon Center has top-of-the-line technology, which helped to prepare me for the world of computers.”

Nate, EMC Global Services

University of Jamestown does not discriminate on the basis of race, color, national origin, gender, disability, sexual orientation, or other status with respect to which discrimination would be unlawful in its programs and activities.