Information Systems and Manufacturing

Information Systems and Manufacturing (ISM) refers to the use of computer-based systems to gather and analyze complex information about all aspects of a business. This information is used by managers to make business decisions. The use of computers has spread into virtually every industry in America, and, at present, there is a great demand for information systems professionals. The major program in management information systems employs a capstone course, ISM 6997, to assess students' knowledge of the discipline. Students specializing in ISM frequently pursue career positions as communications analysts, data base administrators, and information systems managers.

Skills & Knowledge Developed in this Field of Study

Computer programming skills, as well as the ability to use a wide variety of packaged computer software; knowledge of the applications software development process; awareness of significant trends in the computing field; ability to learn about developments in this rapidly changing and dynamic field.

Careers Specific to the Bachelor's Degree

Most entry-level jobs in the CIS field are as systems analysts, systems consultants, or programmer/analysts. In most cases, CIS graduates are involved with developing and implementing new and modified information systems to accomplish business functions.

Other Career Possibilities with a Bachelor's Degree

ISM graduates are well positioned to pursue a general management career rather than an information systems-specific career, if they so choose.

Careers that Normally Require a Graduate Degree

If ISM graduates want to move into management of a corporate information systems group, or wishes to concentrate on strategic management consulting rather than information systems consulting, they may wish to pursue a master of business administration (MBA) degree after working for a few years. If the technical side of computing is more attractive, they may wish to pursue an appropriate technical master’s degree, such as an MS in information systems or an MS in computer science.