

Students May Enroll To Take This Program Online Or Residentially

The objective of the Bachelor Science in Information Technology (IT) program is to provide students with skills and knowledge to enter the workforce as IT professionals. Required coursework builds a broad base of skills with hardware, operating systems, web technologies, database technologies, networking, software development, and security. Graduates are prepared to take on any entry-level position in the field of information technology including bench technicians, network technicians, network service administrators, user support specialists, web developers, systems analysts, information assurance and security specialists, and programmers. Areas of emphases and elective courses allow students to focus on specific areas and develop the skills necessary to become leaders in their profession. General education requirements in the areas of communication, social science, natural science and humanities provide analytical and communication skills.

The goal of this program is to prepare graduates who are able to:

1. Develop a computer program that operates with a database, network, website and/or operating system
2. Create a professional website that operates with a database
3. Analyze a problem and identify and define the computing requirements appropriate to solve that problem
4. Identify, analyze and consider user needs in the development of computer-based systems
5. Develop a computer-based solution to meet the needs of a user
6. Analyze security practices
7. Develop and execute a project plan
8. Demonstrate appropriate written and verbal communication skills
9. Evaluate the quality of multiple viewpoints, arguments, and evidence and distinguish between fact and opinion
10. Exhibit social responsibility and examine the diverse cultures and value systems of our global community

CORE REQUIREMENTS

Class #	Class Name	Credits
BS110	Business Communications	4
BS150	Business Writing	4
CJ220	Security: Private, Local, State and Federal Governments	4
CS131	MS Office Professional I	3
DB211	Database Design	4
DB311	Database Implementation	4
IT135	Computing Fundamentals	4
IT155	Computer Essentials	4
IT205	Operating Systems I	4
IT255	Operating Systems II	4
IT305	Systems Analysis and Design	4
IT315	Information Security	4
IT325	Project Management	4
IT334	Technology, Ethics and the Law	4
IT415	Information Technology Capstone	4
IT435	Business Intelligence Systems	4
MG100	Introduction to Business	5
MK150	Marketing	4
NT242	Data and Networks	4
NT272	Network Administration and Security	4
PD250	Career Development	1
SD114	Introduction to Software Development	4
SD234	Programming I	4
SD254	Programming II	4
WD130	Basic Web Design	3
WD260	Web Technologies	4

Area of Emphasis - *Students will choose one of the following areas of emphasis:*

Web Application Development:

IT324	User Interface Design	4
IT332	Formal Internet Languages	4
MK320	Internet Marketing	4
WD350	Web Servers	4
WD364	Web Application Development:	4

Networking and Security:

DB321	Database Server Administration	4
IT333	Network Application Services	4
IT425	Network Security Services	4
IT432	Computer Forensics	4
NT322	Network Implementation Technologies	4

Information Technology or Business Electives: Students will select 6 credits from courses with codes that begin with AC, BS, CJ, CS, DB, DV, GD, GR, HR, IB, IT, KY, MC, MG, MK, NT, SC or SD

Total Core Minimum Credit Requirement **126**

GENERAL EDUCATION REQUIREMENTS

A student pursuing a bachelor's degree is required to earn a minimum of 54 credits from the general education courses listed below, demonstrating a solid grounding in the liberal arts. A minimum of six credits must be earned in each of the following disciplines: communications, humanities, natural science and mathematics and social science.

Class#	Class Name	Credits
COMMUNICATIONS		
CM111	Speech Communications	4
CM121	Composition (required)	4
CM200	Intercultural Communications	4
CM210	Creative Writing	4
CM220	Art of Persuasion	4
CM230	Mass Communication	4
CM320	Writing and Research	4
HUMANITIES		
HU100	Introduction to Humanities	4
HU121	Film in Society	4
HU130	Spanish I	4
HU150	Introduction to Literature	4
HU200	Art in the Modern World	4
HU230	Spanish II	4
HU310	The Novel	4
HU315	World Literature	4
NATURAL SCIENCE and MATHEMATICS		
NS105	Biology	4
NS111	Environmental Issues	4
NS112	Topics in Mathematical Reasoning	4
NS116	College Algebra I (required)	4
NS121	Earth Science	4
NS126	Chemistry Today*	4
NS135	Microbiology	4
NS140	Anatomy and Physiology I	4
NS150	Anatomy and Physiology II	4
NS216	College Algebra II	4
NS305	Statistics I	4
NS320	Introduction to Decision Systems (required)	4
NS351	Statistics II	4
SOCIAL SCIENCE		
SS103	Global Citizenship (required)	2
SS116	Introduction to Psychology	4
SS130	Law in Society	4
SS140	Interpersonal Relations (required)	4
SS145	Introduction to Macroeconomics	4
SS200	Introduction to Microeconomics	4
SS205	Sociology	4
SS210	Developmental Psychology	4
SS230	Psychology of Personality	4
SS311	Human Behavior	4
SS331	International Economics	4
SS360	Abnormal Psychology	4
Total General Education Minimum Credit Requirement		54

Total Program Minimum Credit Requirement

180

Notes:

Students are required to complete 30% of the program at the 300/400 level; this percentage includes both the specialization and general education credit requirements.

Students may be required to complete Foundations of Mathematics I and/or II and Foundations of Writing I and/or II based upon competency exam scores.

* Offered only at the Richfield, MN campus