

## Math and Science Department

### Bachelor of Science Degree in Information Technology

<b>Core Requirements: (28 Credit Hours)</b>		<b>Cr Hr</b>	<b>Where Taken</b>	<b>Date</b>	<b>Grade</b>
Engl 103	Freshman English I	3	_____	_____	_____
Engl 113	Freshman English II	3	_____	_____	_____
MIS 113	Applied Information Processing	3	_____	_____	_____
SpCm 103	Speech Communications	3	_____	_____	_____
Math 154*	College Algebra (or above)	4	_____	_____	_____
_____	Science Elective	3	_____	_____	_____
_____	Literature Elective	3	_____	_____	_____
Psy 103	General Psychology	3	_____	_____	_____
_____	Humanities Electives	3	_____	_____	_____
<b>Lakota Studies Requirements: (15 Credit Hours)</b>					
Lak 103	Lakota Language I	3	_____	_____	_____
Lak 233*	Lakota Language II	3	_____	_____	_____
Lsoc 103	Lakota Culture		_____	_____	_____
_____	(or LHist 203 Lakota History I)	3	_____	_____	_____
_____	Lakota Studies Elective	3	_____	_____	_____
_____	Lakota Studies Elective	3	_____	_____	_____
<b>IT Core Requirements (24 Credit Hours)</b>					
Sci 113*	Technical Writing	3	_____	_____	_____
IT 153*	Survey of Operating Systems	3	_____	_____	_____
IT 203*	Programming	3	_____	_____	_____
IT 224*	PC Design and Assembly	4	_____	_____	_____
IT 243*	Introduction to Networks	3	_____	_____	_____
Math 263*	Discrete Structures	3	_____	_____	_____
IT 273*	Business Information Sys Management	3	_____	_____	_____
IT 290a	Internship in Information Technology	1	_____	_____	_____
IT 290b	Internship in Information Technology	1	_____	_____	_____
<b>Program Electives (Select 18 Credit Hours)</b>					
IT 103	Theory of Computational Devices	3	_____	_____	_____
GIS 313	Applications of GIS	3	_____	_____	_____
GIS 323	Remote Sensing	3	_____	_____	_____
EnS 213	Scientific Application of		_____	_____	_____
_____	Spreadsheets and Databases	3	_____	_____	_____
Math 194*	Calculus I	4	_____	_____	_____
Bad 253	Principles of Management	3	_____	_____	_____
Bad 343*	Decision Support Systems	3	_____	_____	_____
IT 303*	Introduction to UNIX	3	_____	_____	_____
IT 313*	UNIX Shell Programming	3	_____	_____	_____
IT 353*	Internet Technologies	3	_____	_____	_____
IT 383*	Current Topics in Information Tech	3	_____	_____	_____
IT 393*	Implementing and Admin Mail Servers	3	_____	_____	_____
IT 443*	Advanced UNIX	3	_____	_____	_____
IT 402*	MSCE Certification Core Test #1	2	_____	_____	_____
IT 412*	MSCE Certification Core Test #2	2	_____	_____	_____
IT 422*	MSCE Certification Core Test #3	2	_____	_____	_____
IT 432*	MSCE Certification Elective Test #1	2	_____	_____	_____
IT 442*	MSCE Certification Elective Test #2	2	_____	_____	_____
_____	<b>MIS or IT Elective</b>	<b>3</b>	_____	_____	_____

Students who major in Information Technology are expected to choose one of two areas of emphasis. The areas of emphasis are Information Technology or Management Information Systems

**Option One – Information Technology (Select 39 Credit Hours)**

IT 134*	A+ Certification	4	_____
IT 253*	Supporting Workstations	3	_____
IT 323*	Command Line Interface	3	_____
IT 333*	Network Administration	3	_____
IT 343*	Application Software TnT	3	_____
IT 363*	Implementing and Adm Web Servers	3	_____
IT 373*	Web Design Fundamentals	3	_____
IT 404*	Network Protocols	4	_____
IT 423*	Supporting Network Operating Systems	3	_____
IT 453*	Network Security	3	_____
IT 474*	Network Analysis	4	_____
IT 490a	Internship in Information Technology	1	_____
IT 490b	Internship in Information Technology	1	_____
_____	<b>MIS or IT Elective</b>	<b>3</b>	_____

**Option Two – Management Information Systems (Select 39 Credit Hours)**

MIS 143*	Introduction to Spreadsheets	3	_____
MIS 213*	Concepts of Database Management	3	_____
MIS 333*	Database Development and Design I	3	_____
MIS 343*	E-Commerce Technology	3	_____
MIS 374*	Structured Query Language and Reporting	4	_____
MIS 413*	Systems Analysis and Design	3	_____
MIS 423*	Database Development and Design II	3	_____
IT 303*	Introduction to UNIX	3	_____
IT 323*	Command Line Interface	3	_____
IT 373*	Web Design Fundamentals	3	_____
IT 383*	Current Topics in Information Technology	3	_____
IT 490a	Internship in Information Technology	1	_____
IT 490b	Internship in Information Technology	1	_____
Math 313*	Applied Statistics	3	_____
_____	<b>MIS or IT Elective</b>	<b>3</b>	_____

**124      Credit Hours Total**