

## Bachelor of Science in Computer Information Systems

Graduates with a Bachelor of Science in Computer Information Systems have a strong background in computing and business. Each graduate has an understanding of operating systems, data base applications programming, and on-line applications. Students are given significant experience in case studies of real-world information-systems application development.

The degree is also offered on a part-time, evening basis in Sioux Falls.

All students earning a Bachelor of Science in Computer Information Systems degree must complete the following courses:

**System-wide General Education Requirements\*** **30**

**Institutional Graduation Requirements\*\*** **11**

\* Majors must take ECON 201, as part of the system-wide general education requirements. Students who test directly into MATH 121 do not need to complete MATH 102 but will need to complete 3 credits of general electives.

\*\* Majors must take CIS 130 as part of the institutional graduation requirements.

**Information Systems Courses** **34**

<b>CIS 251</b>	Business Application Programming.....	3
<b>CIS 328</b>	Operating Environments .....	3
<b>CIS 332</b>	Structured Systems Analysis and Design.....	3
<b>CIS 350</b>	Computer Hardware, Data Communications & Networking .....	3
<b>CIS 380</b>	Software System Testing.....	3
<b>CIS 383</b>	Networking I .....	3
<b>CIS 384</b>	Decision Support Systems .....	3
<b>CIS 427</b>	Information Systems Planning and Management.....	3
<b>CIS 484</b>	Database Management Systems.....	3
<b>CIS 494</b>	Internship or	
<b>CIS 498</b>	Undergraduate Research/Scholarship .....	3
<b>CSC 206</b>	Adv. Computer Applications.....	4

**Support Courses** **31**

<b>ACCT 210</b>	Principles of Accounting I .....	3
<b>ACCT 211</b>	Principles of Accounting II .....	3
<b>BADM 220</b>	Business Statistics.....	3
<b>BADM 310</b>	Business Finance.....	3
<b>BADM 321</b>	Business Statistics II .....	3
<b>BADM 360</b>	Organization & Management.....	3
<b>BADM 370</b>	Marketing.....	3
<b>BADM 425</b>	Production and Operations Management.....	3
<b>ENGL 208</b>	Documentation and Presentation .....	3
<b>MATH 121</b>	Survey of Calculus.....	4

**Choose one specialization:**

**15**

**System Development Specialization**

<b>CIS 277</b>	OS Interfaces & Utilities.....	3
<b>CIS 330</b>	COBOL I.....	3
<b>CIS 331</b>	COBOL II .....	3
<b>CIS 361</b>	Adv. Prog. for Business Applications .....	3
<b>CIS 487</b>	Database Programming.....	3

**Web Development Specialization**

<b>CIS 275</b>	Web Application Programming I .....	3
<b>CIS 361</b>	Adv. Programming for Bus. Applications.....	3
<b>CIS 375</b>	Web Application Programming II.....	3
<b>CIS 424</b>	Internet & E-Commerce.....	3
<b>CIS 487</b>	Database Programming.....	3

**Web Design Specialization**

<b>ARTD 282</b>	2-Dimensional Design I on Computers .....	3
<b>ENGL 401</b>	Advanced Writing.....	3
<b>MCOM 351</b>	Web Publishing I.....	3
<b>MCOM 352</b>	Web Publishing II .....	3
<b>MCOM 409</b>	Information Architecture.....	3

**Electives**

**7**