Computer Information Systems (B.S.)

A minor is not required.

Area I: General Requirements (29 credits from the following four components)

1. Mathematics and Statistics Components (8 credits required)

	CS 245	Statistics with Application in Computer Science	*(CS 116; MATH 120B or MATH 140 or higher)*	4 cr	[FA, SU]
{GE 3}	MATH 120B	Finite Mathematics	*(MATH 103 or placement test)*	4 cr	

2. Communications Skill Component (6 credits required)

{GE 9}	COMM 105A	Fundamentals of Communication	*(None)*	3 cr
	RPW 304	Technical Report Writing	*(ENGL 111; ENGL 212 or other GE 10 course)*	3 cr

3. Business Component (Take three courses – 12 credits required)

	ACCT 213	Financial Accounting	*(None)*	4 cr
{GE 7}	ECON 221	Principles of Macroeconomics	*(None)*	4 cr
	MGT 321	Organization and Administration	*(Junior standing)*	4 cr
	MKT 331	Marketing Principles	*(Junior standing)*	4 cr
	LAW 308	Social, Political and Legal Environment	*(Junior standing)*	4 cr

4. Ethics Component (Take one course - 3 credits required)

{GE 5;CI}	PHIL 205A	Professional Ethics: Business	*(ENGL 111)*	3 cr
{GE 5}	PHIL 210B	Applied Ethics in Engr and Computer Tech	*(ENGL 111)*	3 cr

Area II: Computer Information Systems Requirements (51 credits required)

Course	Title	Prerequisites	Credits	Offered
CS 105	Introduction to Computers and Programming	*(None)*	4 cr	[FA, WI]
CS 116	Computer Programming I	*(MATH 103 or placement test, CS 105)*	4 cr	[FA, WI]
CS 146	Visual Basic.NET Programming	*(CS 105 which can be taken concurrently)*	3 cr	[FA, WI]
CS 216	Computer Programming II	*(CS 116; MATH 120A, 120B, 140 or 161)*	4 cr	[FA, WI]
CIS 255	Client Side Web Application Development	*(CS 116)*	4 cr	[FA, SP]
CIS 301	Data Communication and Network Administration	*(CS 146; CS 216; CS 245)*	4 cr	[WI]
CIS 311	Windows Programming with VB.NET	*(CS 146; CS 216)*	4 cr	[WI]
CIS 333	Introduction to System Software	*(CS 216)*	4 cr	[FA]
CIS 355	Server Side Web Application Development	*(CS 216; CIS 255)*	4 cr	[WI, SU]
CIS 366	Information Technology Project Management	*(CS 245)*	4 cr	[WI]
CIS 386	Database Management Systems	*(CS 216)*	4 cr	[FA]
CIS 422	System Analysis and Design Concepts	*(CIS 311; CIS 366; CIS 386)*	4 cr	[FA]
CIS 424	System Detailed Design, Implementation and Management	*(CIS 422)*	4 cr	[WI]

Area III: Computer Information Systems Electives (Take three courses – 12 credits required)

Course	Title	Prerequisites	Credits	Offered
CS 333	Computer Forensics	*(CS 216; CS 232; CS 233)*	4 cr	[FA]
CS 345	UNIX & System Administration	*(CS 216)*	4 cr	[SP]
CS 403	Mobile Application Development	*(CIS 355; CIS 301 or CS 401)*	4 cr	[FA]
CIS 357	Advanced Programming with Java	*(CS 216)*	4 cr	[WI, SP]
CIS 425	Decision Support Systems	*(CIS 311; CS 245; Senior standing)*	4 cr	[FA]
CIS 486	Data Warehousing and Enterprise Database Systems	*(CIS 386)*	4 cr	[FA]
CIS 490	Special Topics	*(Varies)*	4 cr	[Varies]
One course from the MS-CSIS Program		*(Varies)*	Will count as 4 cr	[Varies]

Legend:
Items in [ ] indicate semesters in which CSIS courses are offered
Items in ( ) indicate the prerequisites to a specific course
Items in { } indicate that a course can be used toward a specific general education category