Bachelor of Science with a Major in Computer Information Systems

Selected Educational Outcomes

1. Students will design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
2. Students will demonstrate ability to use current techniques, skills, and tools necessary for computing practice.
3. Students will demonstrate an understanding of processes that support the delivery and management of information systems within a specific application environment.

Examples of Outcome Assessments

The department assesses the extent to which the program requirements create the desired outcomes by a variety of techniques. Examples of these assessments include the following:

1. The capstone courses are used to assess student progress since taking Area F courses. They determine if students have mastered effective oral and written communication skills, acquired critical analysis skills, and learned to use the library and technological resources in solving non-routine problems. Assessment methods include student projects and presentations.
2. Student examinations and samples of student work are kept in the department and are examined by the faculty to assess student content knowledge.
3. Available student and alumni survey data collected by the University will be examined to determine student satisfaction with their undergraduate preparation for further education or employment.

Requirements for the Bachelor of Science Degree with a Major in Computer Information Systems

Core Curriculum		60
Core Curriculum Areas A-E (See VSU Core Curriculum)		42
Core Curriculum Area F		
CS 1301	Principles of Programming I	4
CS 1302	Principles of Programming II	4
CS 2620	Discrete Structures	3
ACCT 2101 & 2101	Principles of Accounting I and Principles of Accounting I	3
Select one of the following sequences: [1]		1
MATH 1261 & MATH 1262	Survey of Calculus I and Survey of Calculus II	
MATH 2261 & MATH 2262	Analytic Geometry and Calculus I and Analytic Geometry and Calculus II	
Senior College Curriculum		60
CS 3101	Computer Organization	3
CS 3410	Data Structures	3
CS 4345	Operating Systems	3
Select one of the following:		3
CS 3300	UNIX Programming	
CS 3335	The C Programming Language	
CS 3340	Web Programming	
CS 4121	Data Communications and Networks I	
CS 4321	Software Engineering I	
CS 4721	Database Design I	
Two of any 3000-level or 4000-level course not required above (excluding CS 3000, CS 3001, and CS 4800)		6
Two of any CS 4000-level courses not required above (excluding CS 4800)		6
Select one of the following Calculus sequences:		2-5
MATH 1261 & MATH 1262	Survey of Calculus I and Survey of Calculus II	

MATH 2261 & MATH 2262	Analytic Geometry and Calculus I and Analytic Geometry and Calculus II	
MATH 2620	Statistical Methods	3
or MATH 3600	Probability and Statistics	
ECON 2106	Principles of Microeconomics	3
MGNT 3250	Management and Organization Behavior	3
MGNT 3300	Production and Operations Management	3
FIN 3350	Financial Management	3
or MKTG 3050	Introduction to Marketing	
Electives		7-10
Total Hours Required for the Degree		120

[1] There is a requirement that a student complete a six-credit sequence of calculus. One credit in Area F can be devoted to these six credits of calculus.

Additional Requirements

1. No more than 4 hours of electives may be taken in courses offered by the College of Business Administration.
2. A grade of “C” or better must be earned in all Area F courses and core curriculum lower-level math courses, all courses required for the major, and all supporting courses.