

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

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| 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 & ACCT 2102 | Principles of Accounting I and Principles of Accounting II | 6 |
| MATH 1261/1262 or MATH 2261/2262 | Survey of Calculus I ¹ Analytic Geometry and Calculus I | 1 |
| 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 | 3 |
| CS 4321 | Software Engineering I | 3 |
| CS 4721 | Database Design I | 3 |
| 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) | | 3 |
| Supporting Courses | | |
| 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 | |

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| 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 Note: There is a requirement in this program 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.