

About the Degree

The Computer Science (CS) degree and the Computer Information Systems (CIS) degree both provide students with a major focus in computer science: problem-solving, analysis, design, and implementation of software systems. The CS degree has more and in-depth mathematics and sciences courses. The CIS degree has a business component comprised of 6 courses. The CS degree requires 16 CS classes and the CIS degree requires 14, most of which are the same between the two degrees. Both degrees provide students an opportunity to learn computing concepts from theoretical and practical (hand-on) standpoints.

About the Department

The Mathematics & CS department has over 350 students. Approximately 180 are pursuing the CS degree, 90 the CIS degree, and 80 the math degrees. There are about 23 tenure-track faculties including 8 in CS/CIS, seven of them holding the highest academic degree. There is an active student chapter of the Association of Computing Machinery (ACM). Information can be found in the Facebook group, *vsuacm*.

Tutoring

Free tutoring is available for the first four required CS classes. Tutoring is available in the department (in labs) approximately 40 hours per week. Tutoring is provided by select, advanced CS and CIS students and supervised by a faculty member.



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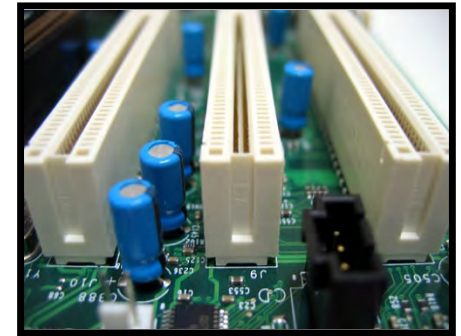
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VSU Math & CS
Department

Bachelor of Science
Computer Science

Bachelor of Science
**Computer Information
Systems**



Department of Mathematics &
Computer Science
Valdosta State University
Valdosta, GA
USA

Employment Opportunities

A student who acquires a degree in CS or CIS can work in many areas of information technology, including roles such as:

- Software engineer/architect
- Computer Support Specialist
- Web Programmer
- Application Programmer
- Database analyst/administrator
- Networking specialist
- Consultant
- Systems Analyst
- Network/System security specialist

These degrees also prepare students for graduate work (Masters and Doctoral) in CS/CIS/IT, etc.

Computing Facilities

The department has a PC lab (many supporting dual monitors), a Linux lab, and a Graphics lab. In addition, there are 2 classroom labs where some CS courses are offered. All classrooms are equipped for multi-media presentations (*smart classroom*). In addition, the campus wireless network is available in most locations on campus.

Research Opportunities

Students seeking a research experience can work on research projects with professors and present them at the Annual University Symposium on Undergraduate Research and elsewhere. In the past, many students' works have been presented at the VSU Undergraduate Research Symposium as well as at national conferences.

CS Curriculum*

Required

CS 1301	Principles of Programming I
CS 1302	Principles of Programming II
CS 2620	Discrete Structures
CS 2800	Computer Ethics
CS 3101	Computer Organization
CS 3335	The C Programming Language
CS 3410	Data Structures
CS 3520	Algorithms
CS 4121	Network Theory 1 (NW 1)
CS 4321	Software Engineering 1 (SE 1)
CS 4345	Operating Systems
CS 4500	Foundations of Computer Science
CS 4721	Database Systems 1 (DB 1)
CS 4900	Senior Seminar

Choose 1 from:

Linux programming, e-Commerce 1, Web programming

Choose 1 CS 4xxx elective:

NW 2, SE 2, Parallel Processing, Artificial Intelligence, e-Commerce 2, DB 2

Required Math

MATH 1113	Pre-calculus
MATH 2261	Calculus I
MATH 2262	Calculus II
MATH 2150	Intro to Linear Algebra
MATH 3600	Probability and Statistics

Choose 1:

MATH 4651	Numerical Analysis
MATH 4901	Operations Research I

* There are additional courses including: English, Humanities, Science, Social Science, Supporting Courses, Perspectives, and Electives. All degrees total 120 semester hours.

CIS Curriculum*

Required

CS 1301	Principles of Programming I
CS 1302	Principles of Programming II
CS 2620	Discrete Structures
CS 3101	Computer Organization
CS 3410	Data Structures
CS 4121	Network Theory 1 (NW 1)
CS 4321	Software Engineering 1 (SE 1)
CS 4345	Operating Systems
CS 4721	Database Systems 1 (DB 1)

Choose 3 from:

Linux programming, e-Commerce 1, Web programming, C programming, Algorithms

Choose 1 from:

NW 2, DB 2, SE 2

Choose 1 from:

NW 2, DB 2, SE 2, Parallel Processing, Artificial Intelligence, e-Commerce 2, Senior Seminar

Required Math:

MATH 1111	College Algebra
MATH 1261	Survey of Calculus I
MATH 1262	Survey of Calculus II
MATH 2620	Statistical Methods

Required Business courses:

ACCT 2101	Accounting I
ACCT 2102	Accounting II
ECON 2106	Microeconomics
MGNT 3250	Organizational Behavior
MGNT 3300	Operations Management

Choose 1 from:

MKTG 3050	Introduction to Marketing
FIN 3350	Financial Management