COMPUTER SCIENCE

COURSES:

COMPUTER SCIENCE MAJOR:

14 Courses:

CS 1124	Foundations of Computer Science
CS 2124	Logic and Problem Solving
CS 2144	Computer Organization
CS 2344	Discrete Structures
CS 2444	Data Structures
CS 3344	Computational Theory
CS 4444	Senior Project in Computer Science
MATH 1304	Calculus I

1 course from:

CS 3024	Compiler Construction
CS 3234	Principles of Programming Languages

1 course from:

CS 3074	Netcentric Computing
CS 3144	Database Management Systems
CS 3164	Interface Programming

One additional 3000- or 4000-level computer science course.

Concentration courses:

3 upper-level courses chosen from any program on campus. Students wishing for a "pure" computer science degree will select concentration courses in computer science or mathematics.

COMPUTER SCIENCE MINOR

6 courses:

CS 1124	Foundations of Computer Science
CS 2124	Logic and Problem Solving
CS 2444	Data Structures

3 additional computer science courses, including at least 1 3000-level course.

TRANSYLVANIA
UNIVERSITY

Office of Admissions
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UNIVERSITY

ABOUT THE MAJOR:

Transylvania's computer science program combines the core knowledge and skills needed in the field while providing you with numerous opportunities to take courses in diverse areas such as robotics, cryptology and networking.

The core curriculum introduces students to the field and delves into subjects such as compiler design and computer organization. Students also have the option to more deeply explore topics such as computer graphics or artificial intelligence.

This unique concentration approach allows students to focus on any area of study during their junior and senior years and tie it to computer science. In the senior project course, students apply that knowledge to a real world project. For example, they have built projects relating to staging theater productions, conducting political science research and creating computer animated films. Students have also participated in several outside research projects, including a National Science Foundation program with NASA.

COURSES OF SPECIAL INTEREST:

Artificial Intelligence
Robotics
Interface Programming
3-D Manufacturing
iPad App Development

WHERE OUR STUDENTS HAVE INTERNED:

Lexmark
IBM
Hewlett-Packard
Dell
Cirrus Mio
ArchVision

POSSIBLE CAREER OPTIONS:

Game designer
Programmer/analyst
Robotic engineer
Virtual reality modeler

WHERE OUR GRADUATES HAVE STUDIED:

Carnegie Melon University
Duke University
Georgia Institute of Technology
Princeton University
University of Illinois
University of North Carolina–Chapel Hill

POSITIONS OUR GRADUATES HAVE HELD:

System administrator, Ford Motor Company
Programmer/analyst, Microsoft
Database specialist, Ashland Inc.
Group program manager, RealNetworks, Seattle
Director of cancer research, University of Kentucky
Lead architect, Intel Corporation
Senior vice president, Sony Corporation

FACULTY

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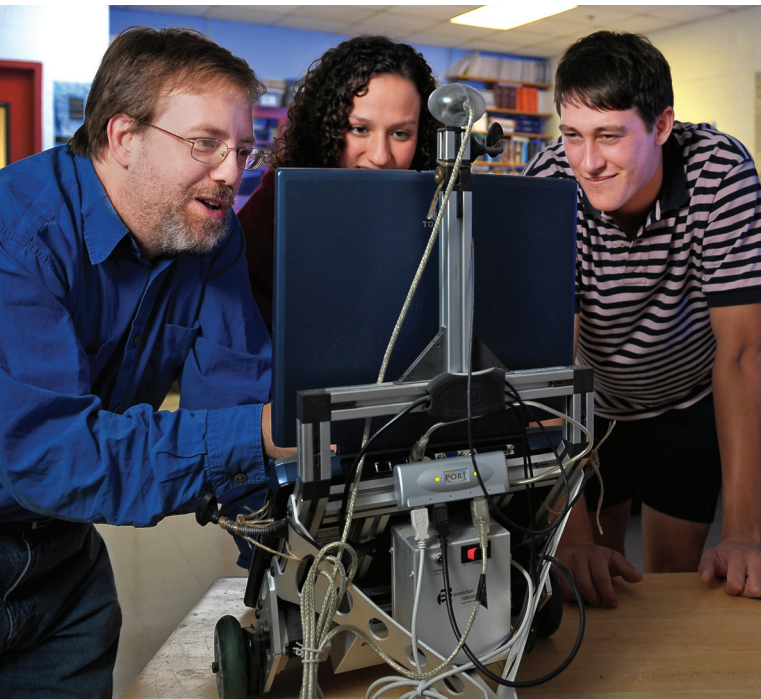
"Technical graduate programs love to get students from liberal arts undergraduate institutions—they have the independent problem solving and communication skills needed to be successful."

Kenny Moorman, professor of computer science