

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.

COMPUTER SCIENCE

TRANSYLVANIA
UNIVERSITY

Office of Admissions

300 North Broadway
Lexington, KY 40508
(800) 872-6798
transy.edu



ABOUT THE MAJOR:

Transylvania's computer science program combines the core, ACM-inspired knowledge and skills needed in the field while providing you with numerous opportunities to take courses in diverse areas such as robotics, augmented reality, app coding and game design.

The core curriculum introduces students to the field and delves into subjects such as object-oriented design and computer hardware. Students also have the chance to more deeply explore topics such as cognitive science, operating systems and 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 INTERNEED:

- Lexmark
- IBM
- Hewlett-Packard
- Dell
- Cirrus Mio
- ArchVision

WHERE OUR GRADUATES HAVE STUDIED:

- Carnegie Mellon University
- Duke University
- Georgia Institute of Technology
- Princeton University
- University of Illinois
- University of North Carolina—Chapel Hill

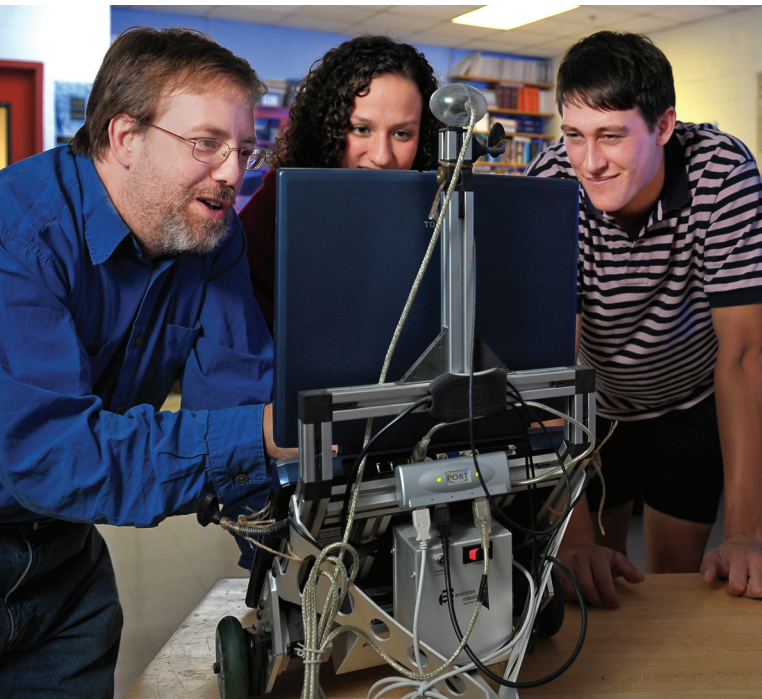
POSITIONS OUR GRADUATES HAVE HELD:

- Senior software engineer, Apple
- Engineering manager, Facebook
- System administrator, Ford Motor Company
- Programmer/analyst, Microsoft
- Software development engineer, 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

Robert England, Program Director
Associate Professor of Computer Science
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Kenneth Moorman
Professor of Computer Science
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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