COURSES:

COMPUTER SCIENCE MAJOR:
14 Courses:
   CS 1124  Introduction to Computer Science
   CS 2124  Object-Oriented Programming
   CS 2144  Computer Organization
   CS 2344  Discrete Structures
   CS 2444  Data Structures
   CS 3074  Operating Systems
   CS 3234  Principles of Programming Languages
   CS 3454  Software Engineering
   CS 4444  Senior Project in Computer Science
   MATH 1304  Calculus I
3 additional 3000- or 4000-level computer science courses or selected math courses.

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.
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:

- Machine Intelligence
- 3D Manufacturing
- Robotics
- Game Design
- Cognitive Structures

WHERE OUR STUDENTS HAVE INTERNED:

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

WHERE OUR GRADUATES HAVE STUDIED:

- Carnegie Melon University
- Duke University
- Georgia Institute of Technology
- Harvard University
- 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
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- Kenneth Moorman
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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