

ALBERT A. HOPEMAN, JR. SCHOOL OF SCIENCE, ENGINEERING AND MATHEMATICS

DEPARTMENT FACULTY

Lory Al Moakar, Ph.D.
Associate Professor of Computer Science

Brian Dellinger '07, Ph.D.
Associate Professor of Computer Science

Jonathan Hutchins, Ph.D.
Assistant Professor of Computer Science

David Valentine, Ph.D.
Professor of Computer Science

Britton Wolfe, Ph.D.
Associate Professor of Computer Science

DEPARTMENT DESCRIPTION

The Department of Computer Science at Grove City College provides students with state-of-the-art facilities, a modern curriculum, the latest computing technologies, exciting research opportunities, and a strong Christian college liberal arts education. The program's graduates attend top-ranked graduate programs; innovate, design, and build systems at high-tech companies; and work in support of Christian missions.

MAJORS

B.S. in Computer Science
This major is an in-depth study of the theory and practice of computing. In addition to the College core curriculum, students complete 89 credit hours of course requirements.

MINORS

Computer Science
Students complete 18 credit hours of course requirements to minor in computer science. The minor provides experience in programming, theory and technical electives in computer science.

Computer Game Design and Development
Students complete 21 credit hours of course requirements and will gain a comprehensive view of the world of game design through courses that explore game development and game critique.

Cybersecurity
Students complete 18 credit hours of course requirements, including courses in Math, Political Science, Psychology and Sociology.

B.A. in Computer Science

This major offers strong knowledge of software development along with the flexibility to add minors from other disciplines, providing an understanding of computing in the context of another domain. In addition to the College core curriculum, students complete 60 credit hours of course requirements.

Data Science

Students complete 19 credit hours of course requirements, including courses in Business, Mathematics and Psychology.

High-tech Entrepreneurship

Students complete 24 credit hours of course requirements and will gain the technical and entrepreneurial experience they will need to start a company within the high-tech space.

Mobile Development

Students complete 18 hours of course requirements, including courses in design and entrepreneurship.

“The abilities I have gained through my coursework, coupled with the assistance of the Career Services Office, have enabled me to secure technical internships at two different companies: InterSystems and PPG Industries. In both experiences, I was well prepared to immediately contribute to the team and grow professionally.”

– Edward Quigley '13

ACCREDITATION

The B.S. in Computer Science program at Grove City College is accredited by the Computing Accreditation Commission of ABET, <http://www.abet.org>.

SPECIAL DEPARTMENTAL AREAS OF INTEREST

The department offers research projects in the areas of graphics, big data, data mining and artificial intelligence. It also has a unique game development and design curriculum comprised of three courses where students start with 2D arcade games, then create 3D games, and culminate with multiplayer, networked console games.

UNDERGRADUATE RESEARCH OPPORTUNITIES

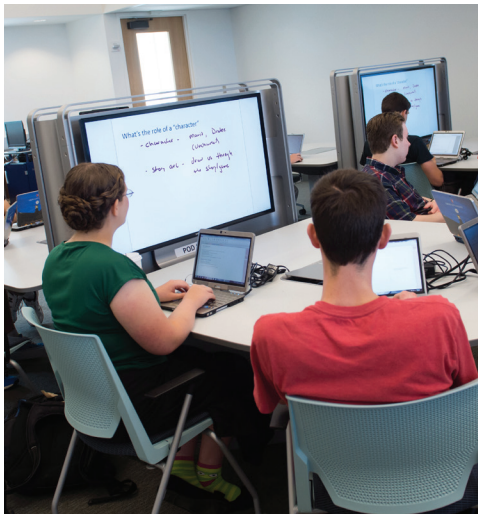
There are numerous opportunities for students to conduct research during their time at the College. For example, the department is developing advanced artificial intelligence techniques for use in gaming mobile devices. Students are also measuring and improving the performance of modern big data systems.

INTERNSHIPS

Students regularly obtain summer jobs with large and small companies both in the Pittsburgh area and across the nation, such as PPG Industries, Microsoft and Bentley Systems. In addition, students regularly spend summers doing fully funded research either at Grove City College or at top research universities.

CAREER AND GRADUATION OPPORTUNITIES

In 2018, 96% of our graduates find employment or gain admission to a graduate program shortly after graduation. Recent employers of our graduates include Amazon, Microsoft, Lockheed Martin, IBM, Cisco and PPG Industries, in addition to various entrepreneurial companies. Some of our alumni choose to use their technical skills to support missions and churches. Other alumni have entered graduate programs at the University of Michigan, Stanford University, and Clemson University, among others.



CONTACT

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