

DEPARTMENT OF COMPUTER SCIENCE

The Department of Computer Science at Virginia Commonwealth University is a dynamic community of scholars dedicated to advancing the field of computer science through innovative research and education. The department offers extensive opportunities for undergraduate and graduate students to engage in cutting-edge research and interdisciplinary collaboration, preparing them to tackle the next generation of technological challenges.

The computer science department provides programs leading to bachelor's, master's and doctoral degrees in computer science. It also offers an accelerated path from a bachelor's to a master's degree for qualified students.

For undergraduate students, the Bachelor of Science in Computer Science offers a range of specialized courses that prepare them for careers in fields such as software engineering, data science, cybersecurity and more. In contrast, the Bachelor of Arts in Computer Science provides a flexible curriculum that combines a strong foundation in computer science with opportunities for interdisciplinary study.

For graduate students, both thesis and non-thesis master of science programs are offered, as well as a standalone Ph.D. in Computer Science program, which began in Fall 2021. These programs provide research opportunities across key areas including computer systems, medical informatics, artificial intelligence, cybersecurity, software engineering and bioinformatics. Students may also engage in interdisciplinary studies through collaborations with other departments at VCU.

Refer to the department's website (<https://egr.vcu.edu/departments/computer/>) for more information.

Preetam Ghosh, Ph.D.
Professor and chair

Caroline Budwell, Ph.D.
Associate professor and undergraduate program director

Kostadin Damevski, Ph.D.
Associate professor and graduate program director

Students who complete the requirements for the below will receive a Bachelor of Science in Computer Science.

- Computer Science, Bachelor of Arts (B.A.) (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-ba/>)
- Computer Science, Bachelor of Science (B.S.) (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-bs/>)
- Computer Science, Bachelor of Science (B.S.) with a concentration in cybersecurity (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-bs-concentration-cybersecurity/>)
- Computer Science, Bachelor of Science (B.S.) with a concentration in data science (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-bs-concentration-data-science/>)
- Computer Science, Bachelor of Science (B.S.) with a concentration in software engineering (<https://bulletin.vcu.edu/undergraduate/>

[engineering/computer-science/computer-science-bs-concentration-software-engineering/](https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-bs-concentration-software-engineering/))

- Computer science, minor in (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-minor/>)
- Cybersecurity, minor in (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/cybersecurity-minor/>)
- Data science, minor in (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/data-science-minor/>)
- **Software engineering, minor in**
- Computer Science, Certificate in (Post-baccalaureate undergraduate certificate) (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/computer-science-certificate/>)
- Fundamentals of Computing (Baccalaureate certificate) (<https://bulletin.vcu.edu/undergraduate/engineering/computer-science/fundamentals-computing-certificate/>)