COMPUTER SCIENCE

Chairperson: Constantine Coutras

The Department of Computer Science at Montclair State University supports the Bachelor of Science degrees in Computer Science, Information Technology and Data Sciences. These degrees educate students for work in industry or to attend graduate school. Department students may participate in Cooperative Education in industry for which students receive academic credit and salaries. Qualified students may work with Department faculty members on research projects. A student organized computing club provides another opportunity for student interaction.

The Computer Science curriculum prepares students to design and implement software, to consider new ways to use computers, to assist in improving solutions to computer problems, and generally helps students to adapt to new ideas. Furthermore, our BS in CS degree has adopted and updated the curriculum of our old BS in CS - Concentration in Professional Studies degree, thus creating only one curriculum path and only one BS in CS degree for all CS students. The BS in CS - Concentration in Professional Computing degree is accredited by the Computer Accreditation Commission of ABET (http://www.abet.org). A name change of the accredited degree is pending. A chapter of Upsilon Pi Epsilon, the national honor society in computer science, is available for outstanding students.

The BS in Information Technology degree prepares students to use computing technology to create and process information to meet enterprise’s goals. Although both Computer Science and Information Technology students learn about theory, innovation and computing applications, Computer Science tends to work more with theory and innovation while Information Technology tends to work more with computing applications.

The Department supports a minor in Computer Science. It also supports a combined Computer Science BS/MS program. Current information about courses and programs, independent studies in research and advanced topics, transfer credits, and CS Advanced Placement is available at the Department website (https://www.montclair.edu/computer-science/) and from the Department at 973-655-4166.

Undergraduate

- Computer Science Major (B.S.) (http://catalog.montclair.edu/programs/computer-science-bs/)
- Computer Science Major (B.S.) (Combined B.S./M.S. Computer Science (http://catalog.montclair.edu/programs/computer-science-combined-bs-ms/)) (http://catalog.montclair.edu/programs/computer-science-combined-bs-ms/)
- Computer Science Major (B.S.) (Combined B.S./M.S. Cybersecurity) (http://catalog.montclair.edu/programs/computer-science-combined-bs-ms-cybersecurity/)
- Computer Science Major (B.S.) (Combined B.S./M.S. Data Science) (http://catalog.montclair.edu/programs/computer-science-combined-bs-ms-data-science/)
- Computer Science Minor (http://catalog.montclair.edu/programs/computer-science-minor/)
- Data Science Major (B.S.) (http://catalog.montclair.edu/programs/data-sciences-bs/)
- Information Technology Major (B.S.) (http://catalog.montclair.edu/programs/information-technology-bs/)
- Information Technology Major (B.S.) (Combined B.S./M.S. Cybersecurity) (http://catalog.montclair.edu/programs/information-technology-combined-bs-ms-cybersecurity/)
- Information Technology Major (B.S.) (Combined B.S./M.S. Data Science) (http://catalog.montclair.edu/programs/information-technology-combined-bs-ms-data-science/)

Graduate

- Computer Science (M.S.) (http://catalog.montclair.edu/programs/computer-science-ms/)
- Computer Science (M.S.) (Combined B.S./M.S.) (http://catalog.montclair.edu/programs/computer-science-ms-combined-bs-ms/)
- Computing Technology Certificate Program (http://catalog.montclair.edu/programs/computing-technology-certificate/)
- Cybersecurity (M.S.) (http://catalog.montclair.edu/programs/cybersecurity-ms/)
- Cybersecurity (M.S.) (Combined B.S. Computer Science/M.S.) (http://catalog.montclair.edu/programs/cybersecurity-ms-comp-sci-bs/)
- Cybersecurity (M.S.) (Combined B.S. Information Technology/M.S.) (http://catalog.montclair.edu/programs/cybersecurity-ms-info-tech-bs/)
- Data Science (M.S.) (http://catalog.montclair.edu/programs/data-science-ms/)
- Data Science (M.S.) (Combined B.S. Computer Science/M.S.) (http://catalog.montclair.edu/programs/data-science-ms-comp-sci-bs/)
- Data Science (M.S.) (Combined B.S. Information Technology/M.S.) (http://catalog.montclair.edu/programs/data-science-ms-info-tech-bs/)
- Information Technology (M.S.) (http://catalog.montclair.edu/programs/information-technology-ms/)
- Information Technology, Applied Information Technology Concentration (M.S) (http://catalog.montclair.edu/programs/information-technology-applied-information-technology-concentration-ms/)