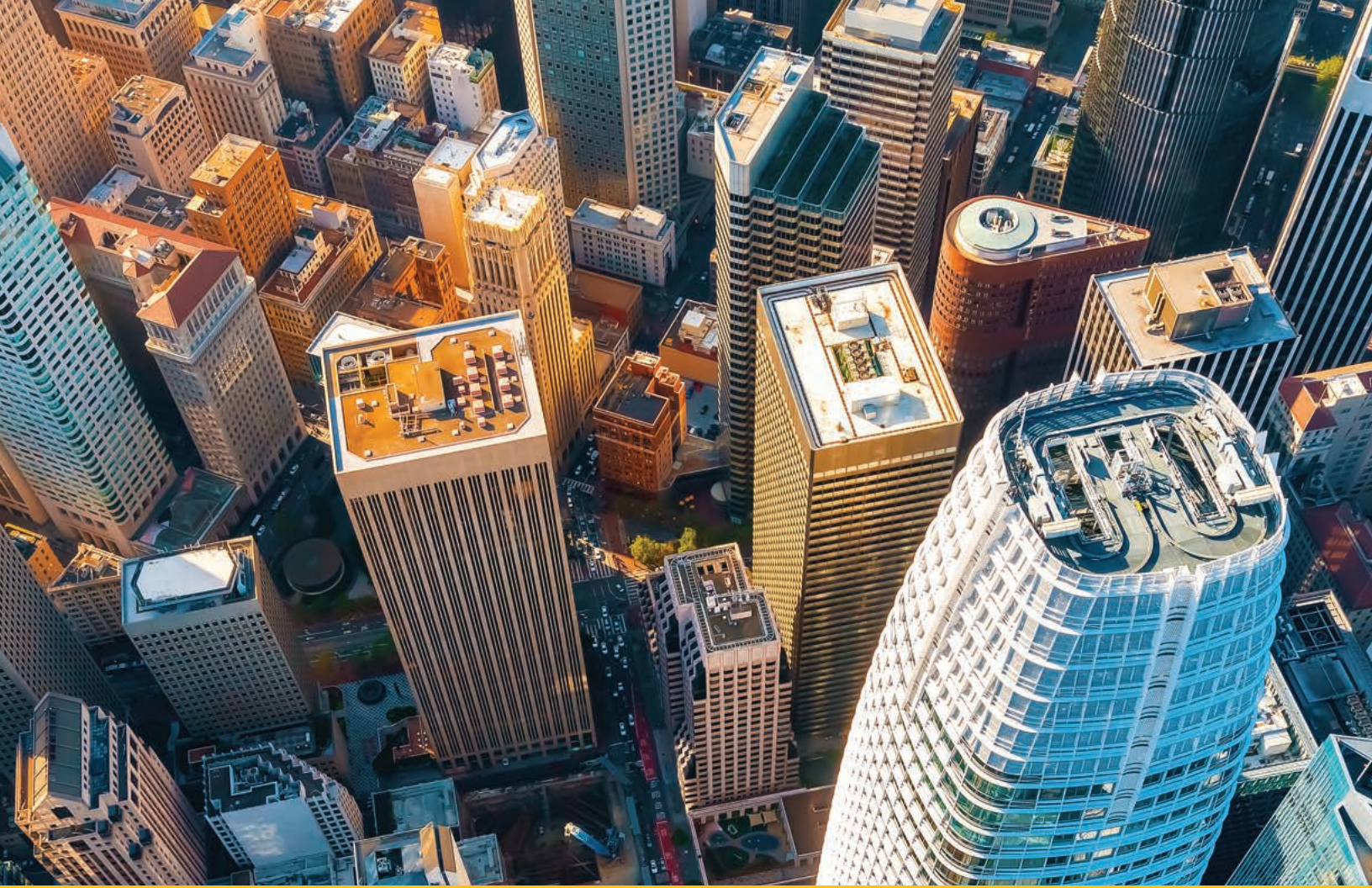


MASTER OF SCIENCE IN  
**COMPUTER SCIENCE**  
PART-TIME







# ADVANCE YOUR CAREER IN THE HEART OF THE TECH WORLD

The M.S. in Computer Science Program (MSCS) at the University of San Francisco provides students with a broad background in software development and other core disciplines of computer science, ranging from systems, networking, and distributed programming to algorithms and theory. Students develop several projects throughout the program, including a substantial capstone project. MSCS graduates are well prepared for positions in industry or to continue their studies at a PhD program elsewhere.

## PROGRAM OF STUDY

The 36-unit program takes most students 2 years attending full time, or 2.5 to 3 on a part time basis. The program provides students with a solid foundation in development, algorithms, and distributed computing. Students can then create their own specialization through electives, directed research with faculty, and industry experience through the practicum.

## REQUIRED MSCS BACKGROUND

- High-Level Programming
- Object-Oriented Programming
- Data Structures & Algorithms
- Computer Architecture -or- Operating Systems
- Discrete Mathematics
- Linear Algebra & Probability

For more details on the masters curriculum and professional opportunities, please visit [usfca.edu/mscs](https://usfca.edu/mscs)

## PROGRAM HIGHLIGHTS

- Personalized Curriculum — Our curriculum is designed so that each student can uniquely tailor their program to their interests and goals.
- Individualized Experience — Small classes and close interaction with full-time faculty are a hallmark of graduate education at USF. We further enhance the student experience by following a cohort model during the first year.
- Industry Expertise — Learn and research alongside experts with industry experience
- Flexible Format — Pursue a professionally-oriented computer science education that combines the foundations of computer science and applied technical coursework.
- Students have access to state-of-the-art resources, including high-tech interactive classrooms in the Lo Schiavo Center for Science and Innovation, and multiple high-performance computing clusters.
- Funding — All applicants are eligible for admission and merit-based scholarships.
- Practicums — Students earn invaluable and practical experience at San Francisco and Silicon Valley tech companies and startups via the Practicum Option. This option is available to U.S. and international students.
- Alumni Network — Alumni become part of a close-knit and active network and often return to pitch projects or practicum opportunities to current students throughout the year.

## REQUIRED COURSES (4 UNITS EACH)

- Principles of Software Development
- Algorithms
- Systems Category (at least one of the following courses)
  - Network Programming
  - Systems Foundations
- Development Category (at least one of the following courses)
  - Big Data
  - Distributed Software Development
  - Machine Learning

## ELECTIVE COURSES (SAMPLE LISTING, 4 UNITS EACH)

- Artificial Intelligence Programming
- Bioinformatics
- Computer Architecture
- Computer Graphics
- Computer Security and Privacy
- Distributed Software Development
- Data Processing in the Cloud
- Data Visualization
- Network Programming
- Operating Systems
- Parallel and Distributed Computing
- Theory of Computation
- Web Systems and Algorithms
- Wireless Sensor Networks

## PRIME LOCATION

- Recent graduates have taken positions at Adobe, Amazon, Apple, Facebook, Google, IBM, Intel, Microsoft, Oracle, Salesforce.com, Square, Twitter, Yahoo, and many other tech companies and startups.
- USF is located in the heart of San Francisco and in close proximity to Silicon Valley, which has more tech companies than any other region in the United States.





## M.S. COMPUTER SCIENCE PART-TIME

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 [facebook.com/USFComputerScience](https://www.facebook.com/USFComputerScience)

 [twitter.com/usfcs](https://twitter.com/usfcs)

## HOW TO APPLY

The priority application deadline for spring admission and scholarships is **October 1**. Visit [usfca.edu/mscs](http://usfca.edu/mscs) and click “How to Apply” for more. Students with a Bachelor’s degree in computer science, engineering, or a related discipline are encouraged to apply. Students with degrees in other fields who wish to pursue an advanced computer science degree are encouraged to apply for the MSCS Bridge Program.