GENERIC BACHELOR’S + MS IN COMPUTER SCIENCE

Program Overview

Program Coordinator
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Program ID 270M
Credits 120 UG + 30 GR
Program Length The MS can be completed in one additional year of study if enrolled full-time, but students must complete the degree within 7 years.

Modality In-person
Full-time/Part-time Full-time or Part-time
Transfer Credits 6
Capstone Comprehensive Exam or Thesis

Program Description

This accelerated plan of study provides a pathway to earning a Master’s degree (MS) in computer science along with a Bachelor’s (BA/BS) in any subject in five years.

The 4+1 dual BS/MS program will allow you to take Computer Science MS courses while still enrolled in the Bachelor’s program of your major. You will pay regular undergraduate tuition for these graduate courses. Up to a total of 12 graduate credits can be applied towards your bachelor’s as well as master’s degrees (‘double-dipped’). At the end of your bachelor’s program you can graduate and decide not to pursue the graduate degree, or continue to your MS in Computer science with up to 12 graduate credits already applied towards the program. An additional 18 credits, which you can complete during the subsequent fall and spring terms, will earn you a master’s degree in Computer Science.

Admission Requirements

Contact Professor Easwaran to express interest in the program and to prepare the graduate application:

Application Procedures
- Apply using the link above to our new application system.
- Create an account (if new to applying) and follow the steps.
- Select the fall term when you would like to begin your graduate coursework and major code (270M).

NOTE: This program only admits for the fall term.
- Select the “Generic Bachelor’s + MS in Computer Science” program as the intended curriculum.

Upload Checklist Items
To expedite a faculty review of an application, students may upload the following items:
- Personal statement explaining your interest in the 4+1 program in Computer Science
- Contact information for three references
- Student copies of transcripts* from every college/university attended

Graduate Program Requirements
- Review graduate “plan of study” during the first semester after matriculation into the MAT portion of the program.

Graduate Program Learning Outcomes

Computer Science (MS)
- Develop skill in programming in several high-level languages, assembly language, machine language, and microcode.
- Develop the ability to learn new programming languages without formal instruction.
- Design and analyze algorithms.
- Design a new programming language and write a compiler or interpreter for it.
Generic Bachelor’s + MS in Computer Science

- Apply object-oriented programming and software engineering principles.
- Design and implement digital circuits.
- Understand the structure and operation of a modern operating system.
- Understand theoretical computer science concepts, such as the Turing machines and automata and computability theory.
- Understand continuous and discrete mathematical structures relevant to computing.