



Review your plan of study with your faculty advisor and then submit it via email to csg rad@gmu.edu or to the CS office in ENGR 4300. Please refer to the University Catalog as the official source for policies and requirements.

Form with three fields: Last Name, First Name; G#; GMU E-mail

Note that the courses you list below will overlap in categories. For example, CS 583 falls under Core Courses, CS Courses, and Pre-Approved Courses.

REQUIRED COURSES • All MS CS students with the catalog year 2019-20 or later are required to take CS 530 and CS 531. This requirement can be fulfilled by passing the classes, passing the corresponding test out exams, or received a waiver from the program director. If you test out or are approved for a waiver, you must substitute with additional courses. PhD and Accelerated MS students will not receive credit for CS 530 or CS 531 and should check the “N/A” box below.

Table with 5 columns: Course, Grade, Tested Out, Waived, N/A. Rows for CS 530 and CS 531.

CORE COURSES • Choose three core courses, including CS 583, from three different areas.

Table with 3 columns: Course, Area, Grade. Row for CS 583 Analysis of Algorithms.

ADVANCED COURSES • Choose four advanced courses from two different areas. Note: If your catalog year is 2019-20 or earlier, you are required to take four advanced courses from three different areas.

Table with 3 columns: Course, Area, Grade.

CS COURSES • Six courses, including two advanced, must be designated CS.

Table with 4 columns: Index, Course Name, Index, Empty Cell. Rows for CS 583 and two empty rows.

PRE-APPROVED COURSES • Eight courses must be on the list of pre-approved courses.

Table with 4 columns: Index, Course Name, Index, Empty Cell. Rows for CS 583 and three empty rows.

ELECTIVES • Two courses from the pre-approved courses or as approved by the program director.

Table with 4 columns: Index, Empty Cell, Index, Empty Cell. Rows for two elective slots.

CONCENTRATION (optional) • In addition to the existing program requirements, MS CS students may choose a concentration in Cyber Security or Machine Learning. To declare your concentration, fill out the “Change of Concentration” section of the [Graduate Change of Program](#) form and submit it to csgrad@gmu.edu.

Cyber Security Concentration

Required:
ISA 656 Network Security
ISA 562 Information Security Theory & Practice

Choose 2-3 elective courses:
 CS 587 Introduction to Cryptography;
 ISA 564 Security Laboratory
 ISA 673 Operating Systems Security
 ISA 674 Intrusion Detection
 ISA 681 Secure Software Design & Programming
 ISA 763 Security Protocol Analysis
 ISA 764 Security Experimentation

Choose 0-1 related course:
 CS 540 Language Processors
 CS 555 Computer Communications & Networking
 CS 571 Operating Systems
 CS 600 Theory of Computation
 CS 655 Wireless & Mobile Computing

Thesis (optional)*

Machine Learning Concentration

Required:
CS 584 Theory & Applications of Data Mining
CS 688 Machine Learning

Choose 2-3 elective courses:
 CS 657 Mining Massive Datasets with MapReduce
 CS 681 Instructable Cognitive Agents
 CS 747 Deep Learning
 CS 782 Advanced Machine Learning

Choose 0-1 related course:
 CS 580 Introduction to Artificial Intelligence
 CS 682 Computer Vision
 CS 685 Autonomous Robotics
 CS 687 Advanced Artificial Intelligence

Thesis (optional)*

*If you are interested in pursuing the thesis option, please contact csgrad@gmu.edu.

	_____ Student Signature	_____ Date
_____ Advisor	_____ Signature	_____ Date
_____ Program Director	_____ Signature	_____ Date