Computer Science Department
Master of Computer Science Degree Study Plan

Name: **S Number:**

AUM email: **Phone #:**

Personal email: **1st Semester Enrolled:**

- Students with Bachelor's degree in Computer Science from American Universities need see Graduate Advisor in the first semester of graduate studies.
- Maximum number of courses suggested for Fall, Spring and Summer semesters are: 3, 3, 2
- **Pre-requisite(s) for the course has to be C or above before you can register that course**

Required Admission Foundation Course	Semester	Grade	Hours	Notes
CSCI 5003: C++ Programming Language & Lab *Tuition waived: a foundational course required for entrance of the program. For those who want to waive this course, please contact OGI (Office of Global Initiative) to register the Assessment Exam during New Student Orientation event.* **Minimum C to pass, otherwise repeat**	**1st**		4	**"A" in this course to be qualified as candidate for future Graduate Teaching or Research Assistant job**
ENGL 6100: Graduate Communication Skills *If it is required on your admission letter.*			3	

Core Required Courses: (27 credits)

#	Course	Semester	Grade	Hours	Pre-requisite
1	CSCI 6060 Computer Architecture	**1st**		3	None
2	CSCI 6200 Theory of Computation and Formal Language	**1st or later**		3	None
3	CSCI 6000 Data Structure & Algorithms Design and Analysis	**2nd**		3	CSCI 5003
4	CSCI 6403 Data Intensive C# Programming & Lab	**2nd**		4	CSCI 5003
5	CSCI 6170 Advanced Network Systems	**2nd or later**	**Fall only**	3	CSCI 6060
6	CSCI 6150 Operating Systems	**3rd or later**	**Spring only**	3	CSCI 6060
7	CSCI 6163 Python Programming Language & Lab	**3rd**		4	CSCI 6403 or CSIS 6010
8	CSCI 6070 Advanced Database Systems & Lab	**3rd**		4	CSCI 6000

Elective Courses: (select minimum 6 credits)

6000-level CSCI, CSIS, GEOG (GIS)courses	Semester	Grade	Hours	Pre-requisite
CSCI 6924 Computer Science Internship			1-3	None
CSCI 6992 M.S. Research Thesis			3-6	None
GEOG 6850 Introduction to GIS			3	None
GEOG 6870 GIS for Health Professionals			3	None
GEOG 6920 Python Scripting for GIS			3	GEOG 6850
GEOG 6910 Advanced GIS			3	GEOG 6850
GEOG 6203 Open Source GIS and Web mapping			3	GEOG 6850
CSCI 6030 Front-end Web App Development			3	CSCI 5003
CSCI 6040 Back-end Web App Development			3	CSCI 6030 & CSCI 6070
CSCI 6050 Software Engineering			3	CSCI 5003
CSCI 6100 Software Component			3	CSCI 5003
CSCI 6120 Fundamental 3D Object Modeling			3	None
CSCI 6140 Unity 3D Video Game & VR Dev.			3	CSCI 6403
CSCI 6210 iOS Mobile Computing			3	CSCI 5003
CSCI 6300 Advanced High-Performance Computing			3	CSCI 5003
CSCI 6350 Distributed Cloud Computing			3	CSCI 6070
CSCI 6410 Data-driven Responsive Web Computing			3	CSCI 6403
CSCI 6450 Machine Learning			3	CSCI 5003
CSCI 6970 Special Topics in Comp. Sci.			3	None
CSIS 6003 Intro to Computer Security			3	None
CSIS 6010 Linux & Unix for Cybersecurity			3	None
CSIS 6013 Network Security & Reliability			3	CSIS 6010 & CSCI 6163
CSIS 6020 Ethical Hacking & Penetration Testing			3	CSIS 6010
CSIS 6033 Computer & Software Security			3	CSIS 6010 & CSCI 6163
CSIS 6040 Cryptography			3	None
CSIS 6080 Digital Forensics			3	CSIS 6010
CSIS 6912 Supervised Practicum			3	CSCI 5003
CSIS 6973 Special Topics in Cyber Security			3	None

1. **Full-time Status & Scholarship usage for International Students:**
   - Two (2) courses (minimum 6 credit hours) in Hybrid or Face-to-face sessions if it is student's first semester are required to meet U.S. Immigration Department full-time student VISA requirement.
   - In student's final semester, immigration regulations can be met by selecting only one (1) course; however, it must be face-to-face or hybrid. A reduced course load form must be completed and returned to the Office of Global Initiatives.
   - If you have $10,000 scholarship (for example), it will be used for 4 consecutive semesters, which means each semester you can use $2,500 scholarship towards tuition.
   - Beyond the 4 consecutive semesters, you are not qualified for using it. That means if you have a summer semester within this 4 semesters period, and you do not select any course in the summer, you will end up using $2,500 for only three semesters with total of $7,500 scholarship, which means $2,500 tuition scholarship will not be used. The suggestion is select courses in summer.

2. **Academic Dishonesty Charge Record:**

3. **Student Success Stories: Internship, job offer, etc.:**