

MSCS Curriculum: Spring -2011 to Fall-2012**Pre-requisites:**

Course ID	Course Name
MATH210	General Mathematics and Statistics
ESL300	English reading & writing-Level III
PCE1	Operating system and programming languages
PCE2	C Programming and data structures
PCE3	Windows and Unix operating system
PCE4	Computer networks and data communications

Core courses: 12 units

Course ID	Course Name	Type	Credits	Pre-requisites
CS511	Computer organisation and architecture	C	3	PCE1, PCE3, PCE4
CS540	Java web applications	C	3	PCE2, PCE4
CS560	Algorithms and design	C	3	PCE1, PCE2, PCE3
CS577	Database design and development	C	3	PCE1, PCE2

Concentrations:**1. CSC1: Web Database Technology: 12 Units**

Course ID	Course Name	Type	Credits	Pre-requisites
CS535	Distributed and Mobile operating system	C	3	PCE1, PCE3
CS546	Unix network programming	C	3	PCE2, PCE3, PCE4
CS565	.Net programming	C	3	PCE4, CS540
CS637	Web services development and XML	C	3	PCE4, CS577

2. CSC3: Computer network communications: 12 units

Course ID	Course Name	Type	Credits	Pre-requisites
CS545	Computer network architecture and systems	C	3	PCE4, CS511
CS546	Unix network programming	C	3	PCE2, PCE3, PCE4
CS623	Network management system	C	3	PCE4, CS545
EE525	Wireless network communications	C	3	PCE4

3. CSC4: Software Quality Assurance: 12 units

Course ID	Course Name	Type	Credits	Pre-requisites
CS532	Software engineering concepts	C	3	PCE1, PCE3
CS538	Software quality metrics	C	3	CS532
CS552	Software test automation and tools	C	3	PCE1, CS538
CS565	.Net programming	C	3	PCE4, CS540

Electives: 12 units

Choose any 4 courses from:

- CSC1, CSC3 and CSC4.
- Master Thesis: 3 credit units.
- Master Project: 3 credit units.
- Design Project: 3 credit units.
- Internship (CPT required): 0.5 credit units.

Master Thesis, Master Project and Design Project can be taken after completion of first 2 academic terms. Only 3 credit units from each of Master Thesis, Master Project and Design Project are considered towards graduation.