

MASTER OF SCIENCE IN COMPUTING

Curriculum Structure

The Program (Total 31 Cr Hrs)

Curriculum Component	Number of Courses	Total Number Cr Hrs
Core Courses	3	7
Focus Area Electives	4	12
Elective	2 Thesis option/ 3 Project option	6 Thesis Option/ 9 Project option
Thesis/Thesis Option	2	6
Project/project option	1	3
Total:	11	31

Thesis Option Requirements (6 Cr Hrs)

Thesis course	
Course ID	Course Title
CMPT 699	Master Thesis

Major Core Requirements (7 Cr Hrs)

Major Core Requirements	
Course ID	Course Title
GENG 602	Applied Research Methodology
CMPT 671	Algorithm Design and Modeling
CMPT 609	Seminar in Computing

Computer Engineering Focus Area Package (12 Cr Hrs)

Computer Engineering Focus Area Package (elective courses)	
Course ID	Course Title
CMPT 641	Advanced Computer Networks
CMPT 643	Wireless Communication
CMPT 608	Advanced Architecture and Design of Computer Systems
CMPT 611	Visual Computing
CMPT 602	Advanced Robotics
CMPT 683	Special Topics in Computer Engineering

Computer Science Focus Area Package (12 Cr Hrs)

Computer Science Focus Area Package (elective courses)	
Course ID	Course Title
CMPT 606	Advanced Database System
CMPT 605	Advanced Software Engineering
CMPT 682	Special Topics in Computer Science
CMPT 623	Distributed Systems and Cloud Computing
CMPT 621	Information Retrieval
CMPT 673	Machine Learning

Project Option (3 Cr Hrs)

Project Option	
Course ID	Course Title
CMPT 690	Project

Major Elective Package (12 Cr Hrs)

Major Elective Package	
Course ID	Course Title
CMPT 610	Embedded Computing Systems
CMPT 612	Network Security
CMPT 603	Applied Digital Signal processing
CMPT 622	Human Computer Interaction
CMPT 661	Web Development
CMPS 653	Big Data Analytics
CMPT 672	Enterprise Information Systems
CMPT 645	Simulation and Modeling in Computer Networks
CMPT 642	Information Security

STUDY PLAN

Master of Science in Computing (Thesis Option):

FIRST SEMESTER (9 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	GENG 602	Applied Research Methodology	3
	CMPT XXX	One Focus Area Elective	3
	CMPT XXX	One elective course	3
Total			9
SECOND SEMESTER (10 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CMPT 671	Algorithm Design and Modeling	3
	CMPT 609	Seminar in Computing	1
	CMPT XXX	One elective course.	3
	CMPT XXX	One Focus Area Elective	3
Total			10
THIRD SEMESTER (9 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	CMPT XXX	One Focus Area Elective	3
	CMPT XXX	One Focus Area Elective	3
	CMPT 699	Master Thesis	3
Total			9
FOURTH SEMESTER (3 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CMPT 699	Master Thesis	3
Total			3

*Remark: An elective course is either a Major elective or any course in the two focus area packages.

STUDY PLAN

Master of Science in Computing (Project Option)

FIRST SEMESTER (9 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	GENG 602	Applied Research Methodology	3
	CMPT XXX	One Focus Area Elective	3
	CMPT XXX	One elective course.	3
Total			9
SECOND SEMESTER (10 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CMPT 671	Algorithm Design and Modeling	3
	CMPT 609	Seminar in Computing	1
	CMPT XXX	One elective course.	3
	CMPT XXX	One Focus Area Elective	3
Total			10
THIRD SEMESTER (9 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	CMPT XXX	One Focus Area Elective	3
	CMPT XXX	One Focus Area Elective	3
	CMPT XXX	One elective course.	3
Total			9
FOURTH SEMESTER (3 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	CMPT 690	Master Project	3
Total			3

*Remark: An elective course is either a Major elective or any course of the two focus area packages.