

MASTER OF SCIENCE IN COMPUTING

Curriculum Structure

The Program (Total 31 Cr Hrs)

Curriculum Components	Total Courses	Total 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

Major Core Requirements (7 Cr Hrs)

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

Major Electives (12 Cr Hrs)

Major Electives		
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	
CMPT 653	Big Data Analytics	
CMPT 672	Enterprise Information Systems	
CMPT 645	Simulation and Modeling in Computer Networks	
CMPT 642	Information Security	

Focus Areas

Focus Area Package (12 Cr Hrs)

Computer Engineering Focus Area			
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 So	Computer Science Focus Area		
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		

Thesis Option Requirement (6 Cr Hrs)

Thesis option	
Course ID	Course Title
CMPT 699	Master Thesis

Project Option Requirement (3 Cr Hrs)

Project option	n .	
Course ID	Course Title	
CMPT 690	Project	







STUDY PLAN

Thesis option

	First Year (19 Cr Hrs)	
	Fall Semester	
Course #	Course Title	Cr Hrs
GENG 602	Applied Research Methodology	3
CMPT XXX	Focus Area Elective	3
CMPT XXX	Elective Course	3
Spring Semester		
Course #	Course Title	Cr Hrs
CMPT 671	Algorithm Design and Modeling	3
CMPT 609	Seminar in Computing	1
CMPT XXX	Elective Course	3
CMPT XXX	Focus Area Elective	3

Second Year (12 Cr Hrs)			
	Fall Semester		
Course #	Course Title	Cr Hrs	
CMPT XXX	Focus Area Elective	3	
CMPT XXX	Focus Area Elective	3	
CMPT 699	Master Thesis	3	
Spring Semester			
Course #	Course Title	Cr Hrs	
CMPT 699	Master Thesis	3	

Track: Project option

	First Year (19 Cr Hrs)		
	Fall Semester		
Course #	Course Title	Cr Hrs	
GENG 602	Applied Research Methodology	3	
CMPT XXX	Focus Area Elective	3	
CMPT XXX	Elective Course	3	
	Spring Semester		
Course #	Course Title	Cr Hrs	
CMPT 671	Algorithm Design and Modeling	3	
CMPT 609	Seminar in Computing	3	
CMPT XXX	Elective Course	3	
CMPT XXX	Focus Area Elective	3	

Second Year (12 Cr Hrs)			
	Fall Semester		
Course #	Course Title	Cr Hrs	
CMPT XXX	Focus Area Elective	3	
CMPT XXX	Focus Area Elective	3	
CMPT XXX	Focus Area Elective	3	
Spring Semester			
Course #	Course Title	Cr Hrs	
CMPT 690	Master Project	3	

^{*} Remark: An elective course is either a major elective or any course in the two focus area packages.



