MSCS with Specialization in Software Engineering

In all plans: all courses are 5 credits unless specified otherwise

MSCS SE (full-time) – start in fall   (Minimum completion time: five quarters)

	Fall	Winter	Spring
Year 1	CPSC 5110 core / elective	CPSC 5200 CPSC 5120 (3 cr.) CPSC 5800 (2 cr.)	CPSC 5210 core / elective
Year 2	CPSC 5810 (4 cr.) core / elective	CPSC 5820 (4 cr.) core / elective	

If CPSC 5110 is waived, replace the course with an elective.

MSCS SE (full-time) – start in winter with CPSC 5110 waiver (Minimum completion time: five quarters)

	Fall	Winter	Spring
Year 1		CPSC 5200 CPSC 5120 (3 cr.) CPSC 5800 (2 cr.)	CPSC 5210 core / elective
Year 2	CPSC 5810 (4 cr.) core / elective	CPSC 5820 (4 cr.) core / elective	core / elective core / elective

MSCS SE (full-time) – start in winter without CPSC 5110 waiver (Minimum completion time: seven quarters, extra credits may be needed to remain full-time)

	Fall	Winter	Spring
Year 1		core / elective	CPSC 5110 core / elective
Year 2	CPSC 5210 CPSC 5800 (2 cr.)	CPSC 5200 CPSC 5120 (3 cr.)	core / elective
Year 3	CPSC 5810 (4 cr.) core / elective	CPSC 5820 (4 cr.)	

MSCS SE (full-time) – start in spring (Minimum completion time: six quarters)

	Fall	Winter	Spring
Year 1			CPSC 5110 core / elective
Year 2	CPSC 5210 CPSC 5800 (2 cr.)	CPSC 5200 CPSC 5120 (3 cr.)	core / elective core / elective
Year 3	CPSC 5810 (4 cr.) core / elective	CPSC 5820 (4 cr.)	

If CPSC 5110 is waived, replace the course with an elective.

The set of "core / elective" courses consists of three core courses (see below) and one elective (any 5 credit MSCS course):

- algorithms: 5610 (fall, spring) or 5600 (winter)
- systems: 5520 (fall, winter) or 5510 (spring)
- software development: choice of five courses; at least one is offered each quarter (fall, winter, and spring)

Course Frequencies

		Cr	Fall	Winter	Spring
CPSC 5110	Fundamentals of Software Engineering	5	x		x
CPSC 5120	Software Engineering Management	3		x	
CPSC 5200	Software Architecture and Design	5		x	x
CPSC 5210	Software Testing and Debugging	5	x		x
CPSC 5800	Ethics & Professional Issues in Computing	2	x	x	
CPSC 5810	Software Engineering Project I	5	x		
CPSC 5820	Software Engineering Project II	5		x	
	Algorithms (CPSC 5600 or CPSC 5610)	5	5610	5600	5610
	Systems (CPSC 5510 or CPSC 5520)	5	5520	5520	5510
	Software Dev. Course (five options)	5	x	x	x