

## *Software Engineering - Embedded Systems Option for students entering fourth year in September 2011*

First year program (2008-09): Common first year program

Second year program (2009-10):

<u>Term 3:</u>	<u>Course Title</u>	<u>Term 4:</u>	<u>Course Title</u>
AM 2415	Applied Mathematical Methods	AM 2415	Applied Mathematical Methods
ECE 2277a	Digital Logic Systems	ECE 2238b	Introduction to Electrical Engineering
SE 2250a	Software Construction	SE 2203b	Software Design
SE 2251a	Discrete Structures for Software Eng.	0.5	Science Course from List
CS 1037a	Computer Science Fundamentals II	SE 2205b	Algorithms and Data Structures
SS 2141a	Applied Probability and Statistics	ES 2211G	Engineering Communications

Third year program (2010-11):

<u>Term 5:</u>	<u>Course Title</u>	<u>Term 6:</u>	<u>Course Title</u>
ECE 4436a	Networking: Principles, Protocols, and Architecture	ECE 3375b	Microprocessors and Microcomputers
SE 3313a	Operating Systems for Software Eng.	SE 3310b	Theoretical Foundations of Software Eng.
SE 3316a	Web Technologies	SE 3314b	Computer Networks Applications
SE 3309a	Database Management Systems	SE 3351b	Software Project and Process Mgt.
SE 3352a	Software Requirements & Analysis	SE 3353b	Human-Computer Interaction
SE 3350y	Software Engineering Design I	SE 3350y	Software Engineering Design I

Fourth year program (2011-12):

<u>Term 7:</u>	<u>Course Title</u>	<u>Term 8:</u>	<u>Course Title</u>
<b>Bus 2299</b>	<b>Business Organization</b>	<b>Bus 2299</b>	<b>Business Organization</b>
<b>SE 4450</b>	<b>Software Engineering Design II</b>	<b>SE 4450</b>	<b>Software Engineering Design II</b>
<b>SE 4472a</b>	<b>Information Security</b>	<b>SE 4453b</b>	<b>Software Quality, Reliability &amp; Mtce.</b>
<b>SE 4452a</b>	<b>Software Verification and Validation</b>	<b>ECE 4460b</b>	<b>Real-Time Embedded Systems</b>
<b>ECE 4470a</b>	<b>Microcomputer Engineering</b>	<b>ECE 4489b</b>	<b>Computer Architectures</b>
<b>0.5 NTE</b>	<b>Non-technical elective*</b>	<b>ES 4498G</b>	<b>Engineering Ethics, Sustainable Development and the Law</b>

\*non-technical elective must be from approved list