CORE REQUIREMENTS				
Basic Math and Science (6 courses, 7-7.5 credits)	Engineering (4 courses, 3.75 credits)	Additional Degree Requirements		
Sem Course MATH 131 Calculus I (1,25 credits) MATH 132 Calculus II (1,25 credits) PHYS 141L Mechanics PHYS 231L Elec., Mag., & Waves And two electives from Mathematics, Physics, Chemistry, Biology, Neuroscience, or Computer Science (approved in advance by dept. chair) Sem Course	Sem Course ENGR 200 Meas., Instr., & Analysis ENGR 212L Linear Circuit Theory OR ENGR 221L Digital Circuits & Systems ENGR 225 Mechanics I ENGR 232 Engineering Materials	 Demonstration of computer programming proficiency by course (C- or better) or exam. Completion of at least eight course credits in the arts, humanities, or social sciences. To ensure depth of study, at least two courses must be taken in the same subject area. ENGR 341 and ENGR 342 count as art. No more than one engineering or cognate elective course with a grade lower than C 		
Senior Capstone Design Project (1 course, 1 credit - that integrates engineering with subjects from chosen cognate area)				
Sem Course ENGR 483 Capstone Design				

B.A. ELECTIVES		COGNATE DEPT./PROGRAM ELECTIVES	
Three electives from the 300 level or above Sem Course ENGR 110 ENGR 116 ENGR 120 ENGR 212L ENGR 221L ENGR 226	ves (3 courses, 3-3.75 credits) he following, at least two of which must b	Sem Course ENGR 323L • Microprocessor Systems ENGR 325L Mechanics of Materials ENGR 346L Computational Neuroscience ENGR 353 Biomechanics ENGR 357 Physiological Modeling ENGR 362L Fluid Mechanics	Cognate Department/Program: (4 courses, 4-5 credits) Four courses from chosen cognate department or program (chosen in consultation with the faculty advisor*) Sem Course
ENGR 302 ENGR 303L	Image Processing & Applications Image Processing/Biomed Applic. Analog & Digital Communication Microelectronic Circuits Intro to Machine Learning Electrophysiology	ENGR 362L Fluid Mechanics ENGR 372L Heat Transfer ENGR 401 Spec Topic: Eng Prod Dev ENGR 431L Experimental Design & Methods ENGR 484 Capstone Design II	* These courses must achieve depth of study in the cognate area.
ENGR 312 ENGR 316 ENGR 320	Automatic Control Systems Neural Engineering Introd Robot Manipulation 18 courses, 18.75-21 credits	(additional courses approved in advance by dept. chair)	

NOTE: Courses with laboratories (denoted by suffix 'L') count as 1.25 course credits; courses without labs count as 1.0 course credit, except where noted.

Program totals do not include course/credit counts from "Additional Degree Requirements".

The maximum number of engineering transfer courses shall be three (refer to minutes of 11-30-2011 and 4-20-2012)

• - Satisfies computer programming proficiency requirement as well as CPSC 115 or CPSC 215.