



This program plan template has been constructed around a specific popular area of interest to provide a solid foundation in said area and has been created using the ECE Department's likely two year course offerings to meet all of the curricular requirements of the degree program for which it has been created. Please keep in mind that each student is welcome and encouraged to construct a program plan that fits the student's particular interests and goals while meeting the curricular requirements of the chosen degree program.

The program plan template presented here specifies recommended key courses, placed in their appropriate terms of offering, and includes placeholders for the remaining curricular requirements. It is important to note that these templates have been developed with a focus on the structure of a program plan for a typical full-time MS student entering the graduate program in the Fall Quarter. Despite this fact, the course recommendations from this template can still be used by part-time MS students and full-time MS students entering the graduate program in a term other than the Fall Quarter to inform course selection based on interest.

Course No.	Course Title	Credits
Fall Quarter 2012-2013		
ECES 511	Fundamentals of Systems I	3 cr.
ECES 521	Probability & Random Variables	3 cr.
MEM Controls Elective (one of the following)		3 cr.
MEM 633	Robust Control Systems I	
MEM 636	Theory of Nonlinear Control I	
MEM 639	Real Time Microcomputer Control I	
Winter Quarter 2012-2013		
ECES 512	Fundamentals of Systems II	3 cr.
ECES 522	Random Processes & Spectral Analysis	3 cr.
MEM Controls Elective (follow-up to Fall Quarter selection)		3 cr.
Spring Quarter 2012-2013		
ECES 513	Fundamentals of Systems III	3 cr.
ECES 523	Detection & Estimation Theory	3 cr.
ECES 642	Optimal Control	3 cr.
Fall Quarter 2013-2014		
ECES 690	Special Topics: Medical Robotics I	3 cr.
ECES 631	Fundamentals of Deterministic Digital Signal Processing	3 cr.
Elective*		3 cr.
Winter Quarter 2013-2014		
ECES 690	Special Topics: Medical Robotics II	3 cr.
Elective*		3 cr.
Elective*		3 cr.

* Elective courses can be chosen from among the graduate course offerings of the Department of Electrical and Computer Engineering; other departments within the College of Engineering; the School of Biomedical Science, Engineering and Health Systems; the Department of Mathematics; the Department of Physics; the Department of Chemistry and the Department of Biology. In order to have courses outside of these departments and schools count towards degree completion, they must be approved by the departmental graduate advisors prior to registration for said courses.