



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 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 2013-2014		
ECES 521	Probability & Random Variables	3 cr.
ECES 631	Fundamentals of Deterministic Digital Signal Processing	3 cr.
Elective*		3 cr.
Winter Quarter 2013-2014		
ECES 522	Random Processes & Spectral Analysis	3 cr.
Select two of the following:		6 cr.
ECES 640	Genomic Signal Processing	
ECES 681	Fundamentals of Computer Vision	
ECES 690	Special Topics: Statistical Pattern Recognition	
Spring Quarter 2013-2014		
ECES 523	Detection & Estimation Theory	3 cr.
ECES 811	Optimization Methods for Engineering Design	3 cr.
Elective*		3 cr.
Fall Quarter 2014-2015		
ECES 511	Fundamentals of Systems I	3 cr.
Elective*		3 cr.
Elective*		3 cr.
Winter Quarter 2014-2015		
ECES 512	Fundamentals of Systems II	3 cr.
ECES 682	Fundamentals of Image Processing	3 cr.
Choose one of the following:		3 cr.
ECES 690	Special Topics: Cell and Tissue Image Analysis	
ECES 690	Special Topics: Forensic Signal Processing	

* Elective courses can be chosen from among the graduate course offerings of the Department of Electrical and Computer Engineering (ECE, ECEC, ECEE, ECEP, ECES, ECET); other departments within the College of Engineering (AE, CHE, CIVE, CS, EGEO, EGMT, ENGR, ENVE, MATE, MEM); the School of Biomedical Science, Engineering and Health Systems (BMES); the Department of Mathematics (MATH); the Department of Physics (PHYS); the Department of Chemistry (CHEM) and the Department of Biology (BIO). Operations Research graduate-level coursework in the Department of Decision Sciences (OPR) may also be taken towards completion of this requirement.