DREXEL UNIVERSITY
Electrical and Computer Engineering
College of Engineering

MS Program Plan Template

Cybersecurity

Theoretical Foundations of Cybersecurity

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 likely course offerings from each of the participating academic departments 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 Processes	3 cr.
ECES 631	Fundamentals of Deterministic DSP	3 cr.
INFO 517	Principles of Cybersecurity	3 cr.
Winter Quarter 2013-2014		
CST 510	Ethics, Privacy & Legal Issues in Cybersecurity	3 cr.
ECES 522	Random Processes & Spectral Analysis	3 cr.
ECES 690	Special Topics: Statistical Pattern Recognition	3 cr.
Spring Quarter 2013-2014		
ECES 523	Detection & Estimation Theory	3 cr.
ECES 811	Optimization Methods for Engineering Design	3 cr.
INFO 725	Information Policy	3 cr.
Fall Quarter 2014-2015		
CS 521	Data Structures and Algorithms I	3 cr.
ECEC 631	Principles of Computer Networking	3 cr.
General Elective*		3 cr.
Winter Quarter 2014-2015		
CS 522	Data Structures and Algorithms II	3 cr.
ECES 682	Fundamentals of Image Processing	3 cr.
General Elective*		3 cr.

* General electives can be chosen from among the graduate course offerings of The iSchool, College of Information Science and Technology; the Department of Computer Science; the Department of Computing and Security Technology; the Department of Electrical and Computer Engineering and the Department of Mathematics. 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.