

EC Course Timeline Map (2013-2017 Curriculum)

Yr 2/1	Yr 2/2	Yr 3/1	Yr 3/2	Yr 4/1	Yr 4/2
ECS213 EE Math	ECS281 Signal & Systems	ECS332 Principles of Communications	ECS472 Digital Signal Processing	ECS450 Signal Processing & Comm Lab	
MAS210 Math III		ECS315 Probability & Random Process	ECS452 Digital Communication		
	ECS233 Electromagnetics	ECS451 Data Comm/ Networks	ECS462 Antennas	ECS456 Optical Comm	
ECS216 Circuit Analysis	ECS210 Basic EE Lab			ECS442 Microwave Principles	
	ECS231 Electronics Circuits I	ECS322 Electronics Circuits II	ECS320 Electronics Circuit Lab	ECS396 Project Development	ECS398 Project
	ECS371 Digital Circuits	ECS370 Digital Circuit Lab	ECS382 Microprocessors		Free Elective
ECS271 Computer Tools	ECS261 Measurement/ Instrumentation	ECS381 Feedback Control Systems	ECS380 Feedback Control Lab	ECSxxx Technical Elective	Free Elective
			ECSxxx Technical Elective		
GTS202 English Language Structures	ECS218 Data Structures, Algo. Obj. Programming			IES303 Engineering Mgmt & Cost Analysis	
MES300 Engineering Drawing	GTS302 Technical Writing	MES211 Thermofluids	TU110 Integrated Humanities	MES371 Material Science for Engineers	
MES351 Engineering Dynamics				TU120 Integrated Social Science	

Courses in bold-face are required. Courses with * and in green letters are elective courses.

Examples of Technical Electives (***) open often)

ECS363*** Mechatronic Instrumentation	ECS475*** Digital Image Processing	ECS478*** Computer Vision & Pattern Recognition	ECS455*** Mobile Comm.	ECS306*** Electrical Machines & Power Systems
ECS425* Digital Integrated Circuits	ECS441* Communication Electronics	ECS427* VLSI Design	ECS465* Biomedical Instrumentation	ECS481* Intro Robotics

Examples of Free Electives

IES334* Industrial Robotics	CSS441* Security/Cryptography (CPE Opt. II)	ITS352* Networking Lab	CSS444* Wireless Networks (CPE Opt. II, IT Opt. I)	
ITS322* Database System	CSS443* Real-time & Embedded Systems	CSS224* Computer Architectures	ITS432* Mobile App. Programming (CPE Opt. I)	MTS xxx