

## **Signals and Systems:**

Course No.	Check if interested:	Course Title:	Pre-Requisite
<sup>1</sup> ECEU464		Linear Systems	ECEU400, MTHU343
<sup>1</sup> ECEU468		Noise and Stochastic Proc.	ECEU464
<sup>1</sup> ECEU572		Communication Systems	ECEU468
ECEU574		Wireless Communication Circuits	ECEU402, ECEU440
ECEU576		Wireless Personal Comm. Systems	ECEU468
ECEU580/581		Control Systems and Lab	ECEU402, ECEU464
<sup>2</sup> ECEU628/629		Computer Networks and lab	MTHU481
ECEU664		Biomedical Signal Processing	ECEU464, (ECEU468 or MTHU481)
ECEU666/667		Digital Signal Processing and Lab	ECEU464
ECEU672		Communication Systems 2	ECEU572
ECEU682/683		Power Systems Analysis	ECEU400, ECEU440

## **Computer Engineering:**

Course No.	Check if interested:	Course Title:	Pre-Reg.
<sup>2</sup> ECEU324		Computer Architecture	ECEU322, CSU215
<sup>2</sup> ECEU326		Optimization Methods	CSU215
ECEU520		Software Engineering 1	CSU215
ECEU522		Software Engineering 2	ECEU520
ECEU524/525		VLSI Design	ECEU322, ECEU402
ECEU526		High Speed Digital Design	ECEU322, ECEU402
ECEU528		CAD for Design & Test	ECEU322, ECEU326
ECEU530		Hardware Description Lang. & Synth.	ECEU322
ECEU532		Embedded System Design	ECEU322
ECEU534/535		Microprocessor Based Design and Lab	ECEU324
ECEU538		Real-Time Systems	ECEU468
ECEU622		Parallel & Distributed Processing	CSU215
ECEU626		Image Processing & Pattern Recognt.	ECEU464 (ECEU468 or MTHU481)
<sup>2</sup> ECEU628/629		Computer Networks	ECEU468 or MTHU481
ECEU630		Robotics	ECEU322,402
ECEU694		Numerical Methods	GEU111, MTU343

## **Electronic Circuits and Devices:**

Course No.	Check if interested:	Course Title:	Pre-Reg.
ECEU392		Electronic Materials	PHYU155
ECEU512		Biomedical Electronics	ECEU210 or ECEU402
ECEU524/525		Special Topics in IC Design and Lab	ECEU322, ECEU402
ECEU526		High Speed Digital Design	ECEU322, ECEU402
ECEU600/601		Electronic Design	ECEU402
ECEU604		Semiconductor Device Theory	ECEU402
ECEU606		Integrated Circuit Fabrication	ECEU402
ECEU608		Nanotechnology	Senior standing
ECEU684		Power Electronics	ECEU402, ECEU464
ECEU686		Electrical Machines	ECEU400, ECEU464

## **Fields, Waves, and Optics:**

Course No.	Check if interested:	Course Title:	Pre-Reg.
<sup>1</sup> ECEU440/441		Electromagnetic Fields and Waves	MTHU341, PHYU155
ECEU642		Antennas	ECEU440
ECEU644		Microwave Networks	ECEU440
ECEU646		Optics	ECEU440
ECEU680		Electric Drives	ECEU464
ECEU692		Subsurface Sensing and Imaging	ECEU400, MTHU343 & (ECEU468 or MTHU481)

<sup>1</sup>Required for EE and ECE - technical elective for CE

<sup>2</sup>Required for CE and ECE - technical elective for EE