

RIT BS Core Program in Electrical Engineering with Computer Engineering Option (Final Release FS 2/10/2022)

	Year One	Year Two	Year Three Fall	Year Four Fall	Year Five	
PB Calc I MATH-181 (4) All	PB Calc II MATH-182 (4) All	Mult & Vect Calc MATH-221 (4) All	Diff Eq MATH-231 (3) F, Sp	Cmplx Var MATH-381 (3) F, Sp	Prob & Stats MATH-251 (3) F, Sp	Prof Elective EEEE-5XX (3) F, Sp
General Chem for Engr CHMG-131 (3) F, Sp	University Physics I PHYS-211 (4) F, Sp	University Physics II PHYS-212 (4) F, Sp	Semi Dev I EEEE-260 (3) F, Sp	EM Fields EEEE-374* (4) F, Sp	Design of Comp. Sys.* EEEE-521 (3) F	Restrictive EE/CE/CS Elective (3) F or Sp
Writing Seminar UWRT-150 (3) F, Sp	Perspective-2: Artistic xxxx-nnn (3) F, Sp	Ckts I EEEE-281* (3) F, Sp	Ckts II EEEE-282 (3) F, Sp	Linear Sys EEEE-353 (4) F, Sp	Classical Controls EEEE-414* (3) F, Sp	Sr. Design II EEEE-498 (3) F, Sp
EE Pract EEEE-105* (1) F, Sp	Dig Sys I EEEE-120* (3) Sp	Comp Prob Solv CMPR-271 (3) F, Sp	Dig Sys II EEEE-220* (3) Sp	Digital Electronics EEEE-380* (3) F, Sp	Analog Electronics EEEE-480* (4) F, Sp	Prof Elective EEEE-5xx (3) F, Sp
RIT 365 YOPS-10 (0) F	Note: One General Education Course must be Writing Intensive		Wellness	Wellness		
Gen Ed Elective xxxx-nnn (3) F, Sp		Co-op Prep Sem EGEN 99 (0) F, Sp				
Perspective-1: Global xxxx-nnn (3) F, Sp	Perspective-3: Social xxxx-nnn (3) F, Sp	Perspective-4: Ethical xxxx-nnn (3) F, Sp	Advance Prog. EEEE-346 (3) F, Sp	Embedded Sys Design* EEEE-420 (3) F, Sp	Immersion-1 xxxx-nnn (3) F, Sp	Immersion-2 xxxx-nnn (3) F, Sp
17	17	17	15	17	16	15
17	17	17	15	17	16	15
						Total Credits 129

Legend	Professional Electives:	Professional Electives from other departments can be taken with approval of faculty advisor
Math	Biomedical	Digital & Computer Systems
Comp Science	EEEE-530 Biomedical Instrumentation	EEEE-520 Design of Digital Systems*
Physics	EEEE-531 Biomedical Sensors & Transducers I	EEEE-521 Design of Computer Systems*
Chemistry		
Liberal Arts	Communications	Electromagnetic Microwaves and Antenna
Elect Engr	EEEE-592 Communication Networks	EEEE-517 Microwave Circuit Theory
Year One	EEEE-593 Digital Data Communications	EEEE-529 Antenna Theory & Design
Restr Sci Elect	EEEE-594 Sens Array Proc for Wireless Comm	EEEE-505 Modern Optics for Engineers
Free Elect		
Restr EE/CE/CS	Control/Robotics Systems	MEMS
Co-op	EEEE-536 Biorobotics & Cybernetics*	EEEE-689 Fundamentals of MEMS
Course Name	EEEE-547 Artificial Intelligence	EEEE-787 MEMS Evaluation
Course #	EEEE-585 Principles of Robotics*	
Semesters		
* Indicates lab included	Devices and Integrated Circuits	Signal Processing
Prerequisites	EEEE-510 Analog Electronic Design	EEEE-594 Sens Array Proc for Wireless Comm
Definitions	EEEE-583 Mechatronics	EEEE-595 Optimization Methods for Engineers
	NOTES	
Course Prerequisites	<i>At least two of the professional electives must be taken from Electrical Engineering Curriculum</i>	
	<i>An approval is required from your student advisor for any professional elective from other engineering programs.</i>	
Prerequisite	<i>Refer to your advisement report in SIS for a full list of professional electives</i>	

Co-op Requirements: 48 Weeks
EEEE-499:
 Spring of 3rd year & Summer of 3rd year
 Spring of 4th year & Summer of 4th year

Restrictive EE/CE/CS Electives
 EEEE-592 Communication Networks
 EEEE-593 Digital Data Communication
 CMPE-570 Data and Communication Networks
 CSCI-352 Operating Systems