

RIT BS Core Program in Electrical Engineering (Final Release FS 3/25/2025)

Year One		Year Two		Year Three Spring	Year Four Spring	Year Five		Total Credits
Calculus I MATH-181 (4) All	Calculus 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	Comm Sys EEEE-484* (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	Embedded Sys Design EEEE-420* (3) F,Sp	Prof Elective EEEE-5xx (3)F, Sp	Open Elective (3)F, Sp	
Writing Seminar UWRT-150 (3) F, Sp	Perspective-2: Artistic xxxx-nnn (3) F, Sp	Circuits I EEEE-281* (3) F,Sp	Circuits II EEEE-282 (3) F,Sp	Linear Sys EEEE-353 (4) F,Sp	Classical Controls EEEE-414* (3) F,Sp	Multi Discipl. Senior Design I EEEE-497 (3) F,SP	Multi Discipl. Senior 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	Open Elective (3)F, Sp	Prof Elective EEEE-5xx (3) F, Sp	
RIT 365 YOPS-10 (0)F	Note: One General Education Course must be Writing Intensive	Circuits I Recitation EEEE-281R (0) F, Sp	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	Advanced Prog EEEE-346 (3)F, Sp	Immersion-1 xxxx-nnn (3) F, Sp	Open Elective (3)F, Sp	Immersion-2 xxxx- nnn (3)F, Sp	Immersion-3 xxxx-nnn (3)F, Sp	129
17	17	17	15	17	16	15	15	

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	
Free Elect	EEEE-594 Sens Array Proc for Wireless Comm		EEEE-505 Modern Optics for Engineers	
Co-op				
Course Name	Control/Robotics Systems		MEMs	
Course #	EEEE-536 Biorobotics & Cybernetics*		EEEE-689 Fundamentals of MEMS	
Semesters	EEEE-547 Artificial Intelligence		EEEE-787 MEMS Evaluation	
* Indicates lab included	EEEE-585 Principles of Robotics*			
Prerequisites	Devices and Integrated Circuits		Signal Processing	
Definitions	EEEE-510 Analog IC Design		EEEE-594 Sens Array Proc for Wireless Comm	
	EEEE-583 Mechatronics		EEEE-595 Optimization Methods for Engineers	
Course	NOTES			
Prerequisites	At least two of the professional electives must be taken from Electrical Engineering Curriculum			
Prerequisite	An approval is required from your student advisor for any professional elective from other engineering programs.			
	Refer to your advisement report in SIS for a full list of professional electives			

Co-op Requirements: 48 Weeks
EEEE-499:
 Summer after 2nd year & Fall of 3rd year
 Summer after 3rd year & Fall of 4th year