

# RIT BS Program in Electrical Engineering with Energy Option (Final Releases FS 3/25/2025)

Year One		Year Two		Year Three Fall	Year Four Fall	Year Five		Total Credits
Calculus I MATH-181 (4) All	A	Calculus II MATH-182 (4) All	B	Mult & Vect Calc MATH-221 (4) All	E	Diff Eq MATH-231 (3) F,Sp	E	
General Chem for Engr CHMG-131 (3) F,Sp	A	University Physics I PHYS-211 (4) F,Sp	B	University Physics II PHYS-212 (4) F,Sp	F	Semi Dev I EEEE-260 (3) F,Sp	E,F	
Writing Seminar UWRT-150 (3)F, Sp		Perspectives-2: Artistic xxxx-nnn (3)F, Sp	B	Circuits I EEEE-281* (3) F,Sp	D	Circuits II EEEE-282 (3) F,Sp	G	
EE Pract EEEE-105* (1) F, Sp		Dig Sys I EEEE-120* (3) Sp	A	Comp Prob Solv CMPR-271 (3) F,Sp	H	Dig Sys II EEEE-220* (3) Sp	D	
RIT 365 YOPS-10 (0)F			B,D	Circuits I Recitation EEEE-281R (0) F, Sp		Wellness		
Gen Ed Elective xxxx-nnn (3)F, Sp				Co-op Prep Sem EGEN 99 (0) F, Sp		Wellness		
Perspectives-1: Global xxxx-nnn (3)F, Sp		Perspectives-3: Social xxxx-nnn (3)F, Sp		Perspectives-4: Ethical xxxx-nnn (3)F, Sp	H	Advance Prog EEEE-346 (3)F,Sp		
						Clean-Renew Energy Sys EEEE-221 (3)	G	
						Energy Conversion EEEE-321 (3)	G	
						Elect Power Trans & Dist EEEE-522 (3)		
						Immersion-3 xxxx-nnn (3)F, Sp		
17		17		17		15		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	
First Year		EEEE-593 Digital Data Communications		EEEE-529 Antenna Theory & Design	
Co-op		EEEE-594 Sens Array Proc for Wireless Comm		EEEE-505 Modern Optics for Engineers	
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 Prerequisites		NOTES			
Prerequisite		At least two of the professional electives must be taken from Electrical Engineering Curriculum			
		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:**  
**Spring of 3rd year & Summer of 2nd -or- 3rd year**  
**Spring of 4th year & Summer of 4th year**