

# RIT BS/MS Program in Electrical Engineering with Renewable Energy Option (Final Release FS 3/29/2023)

Year One		Year Two		Year Three		Year Four		Year Five	
PB Calc I MATH-181 (4) All	PB Calc II MATH182 (4) All	Mult & Vect Calc MATH-221 (4) All	Diff Eq MATH-231 (3) F,Sp	Cmplx Var MATH-381 (3) F,Sp	Prob & Stat MATH-251 (3) F,Sp	Comm Sys EEEE-484* (3) F,Sp	Advanced Engr. Math EEEE-709 (3)F,Sp	Open Elective (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	Engineering Analysis EEEE-707 (3)F,Sp	Grad Focus Area EEEE-6xx (3)F, Sp	Power Electronics EEEE-646* (3)	
Writing Seminar UWRT-150 (3)F, Sp	Perspective-2: Artistic xxxx-nnn (3)	Circuits I EEEE-281* (3) F,Sp	Circuits II EEEE-282 (3) F,Sp	Linear Sys EEEE-353 (4) F,Sp	Control Sys EEEE-414* (3) F,Sp	Random Signals & Noise EEEE-602*** (3)	Immersion-1 xxxx-nnn (3)F, Sp	Grad Related Area EEEE-6xx (3)F,Sp	
EE Pract EEEE-105* (1) F, Sp	Dig Sys I EEEE-120* (3) Sp	CMPR-271- Comp Prob Solv for Engr (3) F,Sp	Dig Sys II EEEE-220 * (3) F, Sp	Digital Electronics EEEE-380* (3) F,SP	Analog Electronics EEEE-480* (4) F,SP	Multi Discipl. Senior Design I EEEE-497 (3) F,Sp	Multi Discipl. Senior Design II EEEE-498 (3) F,Sp	Grad Related Area EEEE-6xx (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	EEEE-795 Graduate Seminar (0) S	EEEE-795 Graduate Seminar (0) F		
Gen Ed Elective xxxx-nnn (3)F, Sp			Co-op Prep Sem EGEN 99 (0)F,Sp					Thesis EEEE-790 (3)F,Sp	Thesis EEEE-790 (3)F,Sp
Perspective-1: Global xxxx-nnn (3)	Perspective-3: Social xxxx-nnn (3)	Perspective-4: Ethical xxxx-nnn (3)	Advance Prog EEEE-346 (3)F,Sp	Clean-Renew Energy Sys EEEE-221 (3)	Energy Conversion EEEE-321 (3)	Elect Power Trans & Dist EEEE-622 (3)	Immersion-2 XXXX-nnn (3)	Immersion-3 xxxx-nnn (3)	
17	17	17	15	17	16	15	18	18	

Total Credits =150

Legend	Professional Electives:	Professional Electives from other departments can be taken with approval of faculty advisor
Math	<b>Biomedical</b>	<b>Digital &amp; Computer Systems</b>
Comp Science	EEEE-630 Diomedical Instrumentation	EEEE-620 Design of Digital Systems*
Physics	EEEE-631 Biomedical Sensors & Transducers I	EEEE-621 Design of Computer Systems*
Chemistry	<b>Communications</b>	<b>Electromagnetic Microwaves and Antenna</b>
Liberal Arts	EEEE-692 Communication Networks	EEEE-617 Microwave Circuit Theory
Elect Engr	EEEE-693 Digital Data Communications	EEEE-629 Antenna Theory & Design
FYE	EEEE-694 Sens Array Proc for Wireless Comm	<b>MEMS</b>
Graduate	<b>Control/RoboticsSystems</b>	EEEE-689 Fundamentals of MEMS
Co-op	EEEE-647 Artificial Intelligence	EEEE-787 MEMS Evaluation
Course Name	EEEE-685 Principles of Robotics*	<b>Signal Processing</b>
Course #	EEEE-636 Biorobotics & Cybernetics*	EEEE-678 Digital Signal Processing
Semesters	<b>Devices and Integrated Circuits</b>	EEEE-694 Sens Array Proc for Wireless Comm
* Indicates lab included	EEEE-610 Analog Electronic Design	EEEE-695 Optimization Methods for Engineers
Prerequisites	EEEE-683 Mechatronics	
Definitions		
Course		
Prerequisites		
Prerequisite		
	<b>Co-op Requirements: 40 Weeks</b> EEEE-499: Summer after 2nd year & Fall of 3rd year Summer after 3rd year OR Summer after 4th yr	
	**EEEE-602 Is NOT required for Digital Systems, MEMS, and Integrated Electronics focus areas **Refer to your advisement report in SIS for a full list of professional electives	