

RIT BS Program in Electrical Engineering with Artificial Intelligence 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	Embedded Sys Design EEEE-420* (3) F,Sp	Prof Elective EEEE-5xx (3)F, Sp
Writing Seminar UWRT-150 (3) All	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 I EEEE-497 (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
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	Intro to AI EEEE-447 (3) F	AI Explorations EEEE-547 (3) F	Immersion-1 xxxx-nnn (3)F,Sp
17	17	17	15	17	16	15
						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	Co-op Requirements: 48 Weeks EEEE-499: Summer after 2nd year & Fall of 3rd year Summer after 3rd year & Fall of 4th year
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	Communications	Electromagnetic Microwaves and Antenna	
Liberal Arts	EEEE-592 Communication Networks	EEEE-517 Microwave Circuit Theory	
Elect Engr	EEEE-593 Digital Data Communications	EEEE-529 Antenna Theory & Design	
Year One	EEEE-594 Sens Array Proc for Wireless Comm	EEEE-505 Modern Optics for Engineers	
Restr Sci Elect	Control/Robotics Systems	MEMS	
Free Elect	EEEE-536 Biorobotics & Cybernetics*	EEEE-689 Fundamentals of MEMS	
Co-op	EEEE-547 Artificial Intelligence	EEEE-787 MEMS Evaluation	
Course Name	EEEE-585 Principles of Robotics*	Signal Processing	
Course #	Devices and Integrated Circuits	EEEE-594 Sens Array Proc for Wireless Comm	
Semester	EEEE-510 Analog Electronic Design	EEEE-595 Optimization Methods for Engineers	
* Indicates lab included	EEEE-583 Mechatronics		
Prerequisites	NOTES		
Definitions	<i>At least two of the professional electives must be taken from Electrical Engineering Curriculum</i>		
A	<i>An approval is required from your student advisor for any professional elective from other engineering programs.</i>		
Course Prerequisites	<i>Refer to your advisement report in SIS for a full list of professional electives</i>		
A			
Prerequisite			