

RIT BS Program in Electrical Engineering with Artificial Intelligence Option (Final Release FS 3/25/2025)

Year One		Year Two		Year Three Fall	Year Four Fall	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	BioRobotics EEEE-536 (3)Sp	
Writing Seminar UWRT-150 (3) All	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	Immersion-2 xxxx-nnn (3)	
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	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	Immersion-3 xxxx-nnn (3)F,Sp	
17	17	17	15	17	16	15	15	129

Legend

Math
Comp Science
Physics
Chemistry
Liberal Arts
Elect Engr
Year One
Restr Sci Elect
Free Elect
Co-op
Course Name
Course #
Semester
* Indicates lab included
Prerequisites
Definitions
Course
Prerequisites
Prerequisite

Professional Electives:

Biomedical
EEEE-530 Biomedical Instrumentation
EEEE-531 Biomedical Sensors & Transducers I
Communications
EEEE-592 Communication Networks
EEEE-593 Digital Data Communications
EEEE-594 Sens Array Proc for Wireless Comm
Control/Robotics Systems
EEEE-536 Biorobotics & Cybernetics*
EEEE-547 Artificial Intelligence
EEEE-585 Principles of Robotics*
Devices and Integrated Circuits
EEEE-510 Analog IC Design
EEEE-583 Mechatronics

Professional Electives from other departments can be taken with approval of faculty advisor

Digital & Computer Systems
EEEE-520 Design of Digital Systems*
EEEE-521 Design of Computer Systems*
Electromagnetic Microwaves and Antenna
EEEE-517 Microwave Circuit Theory
EEEE-529 Antenna Theory & Design
EEEE-505 Modern Optics for Engineers
MEMs
EEEE-689 Fundamentals of MEMS
EEEE-787 MEMS Evaluation
Signal Processing
EEEE-594 Sens Array Proc for Wireless Comm
EEEE-595 Optimization Methods for Engineers

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

NOTES

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