RIT BS Core Program in Electrical Engineering (Final Release FS 3/29/2023)

Year One		Year Two		Year Three Spring	Year Four Spring	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	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	Total Credits
17	17	17	15	17	16	15	15	129

Legend

- Math
- Comp Science
- Physics
- Chemistry
- Liberal Arts
- Elect Engr
- Year One
- Free Elect
- Co-op

Course Name
Course #
Semesters
* Indicates lab included

Prerequisites Definations

Course Prerequisites

Prerequisite

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

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/RoboticsSystems
EEEE-536 Biorobotics & Cybernetics*
EEEE-547 Artifical Intelligence
EEEE-585 Principles of Robotics*

Devices and Integrated Circuits
EEEE-510 Analog Electronic Design
EEEE-583 Mechatronics

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:
Summer after 2nd year & Fall of 3rd year
Summer after 3rd year & Fall 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 electrive from other engineering programs.
Refer to your advisement report in SIS for a full list of professional electives