

Core BS in Electrical Engineering Program (2022-23)

Year One		Year Two		Year Three		Year Four		Year Five		Total Credits
Fall	Spring	Fall	Spring	Fall	Sp+Su	Fall	Sp+Su	Fall	Spring	
PB Calc I MATH-181 (4)	PB Calc II MATH-182 (4)	Mult & Vect Calc MATH- 219, 220 (4)	Linear Algebra MATH-241 (3)	Cmplx Var MATH-381 (3)	EEEE-499 - Cooperative Education (Spring + Summer)	Prob & Stats I MATH-251 (3)	EEEE-499 - Cooperative Education (Spring + Summer)	Comm Sys EEEE-484* (3)	Immersion-3 xxxx- nnn (3)	
Gen Chem for Eng/Gen & Anal Chem CHMG- 131/141 (3)	University Physics I PHYS-211* (4)	University Physics II PHYS-212 * (4)	Diff Eq MATH-231 (3)	Semi Dev I EEEE-260 (3)		Embedded Sys Design EEEE-420* (3)		Digital Electronics EEEE-380* (3)	Professional Elective (3)	
First Year Writing UWRT-150 (3)	Perspective- 2 xxxx- nnn (3)	Circuits I EEEE-281* (3)	Circuits II EEEE-282 (3)	Linear Sys EEEE-353 (4)		Control Sys EEEE-414* (3)		Sr. Design I EEEE-497 (3)	Sr. Design II EEEE-498 (3)	
EE Pract EEEE-105* (1)	Digital Systems I EEEE-120* (3)	CMPR-271- Comp Prob Solving (3)	Digital Systems II EEEE-220* (3)	EM Fields EEEE-374* (4)		Analog Electronics EEEE-480* (4)		Professional Elective (3)	Free Elective (3)	
Gen Ed Elective (3)	Perspective- 3 xxxx- nnn (3)	Perspective-4 xxxx- nnn (3)	Advanced Progmming EEEE-346 (3)	Free Elective (3)		Immersion-1 xxxx- nnn (3)		Immersion-2 xxxx- nnn (3)	Free Elective (3)	
Perspective-1 xxxx- nnn (3)			Co-op Prep EGEN-99 (0)							
YOPS-010 (0) All										
17	17	17	15	17		16		15	15	129

Legend

Math
RIT 365
Science
Computer Prog.
Liberal Arts
Electrical Engr.
Co-op Pre-requisite
Free Elective

* Course has a lab

- A pre-requisite Course
- Has a pre-requisite
- Has a co-requisite
- min grade C- is required
- min grade C is required

Note: One General Education Course must be Writing Intensive

Professional Electives *

- EEEE-221 Clean & Renewable Energy Systems & Sources
- EEEE-321 Energy Conversion
- EEEE-447 Introduction to AI
- EEEE-483 Mechatronics
- EEEE-489 Smart Grids
- EEEE-517 Microwave Circuit Design
- EEEE-522 Electrical Power Trans. and Distribution
- EEEE-524 Advances in Power Systems
- EEEE-529 Antenna Theory
- EEEE-536 Biorobotics/Cybernetics
- EEEE-546 Power Electronics
- EEEE-547 Artificial Intelligence Explorations
- EEEE-585 Principles of Robotics
- EEEE-593 Digital Data Communication
- EEEE-661 Modern Control
- EEEE-743 Digital Control
- EEEE-765 Optimal Control
- EEEE-797 Wireless Communications

* Other professional electives can be taken at the main campus through the Global Scholar program.