

BS in Electrical Engineering with AI Option (2023-24)

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)	Cmplx Var MATH-381 (3)	Linear Algebra MATH-241 (3)	EEE 499 - Cooperative Education (Spring + Summer)	Prob & Stats I MATH-251 (3)	EEE 499 - Cooperative Education (Spring + Summer)	Comm Sys EEEE-484* (3)	Biorobotics/ Cybernetics EEEE-536* (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* (3)		Immersion-1 xxxx-nnn (3)	Immersion-3 xxxx-nnn (3)	
Gen Ed Elective (3)	Perspective- 3 xxxx-nnn (3)	Perspective-4 xxxx-nnn (3)	Advanced Progmming EEEE-346 (3)	Introduction to AI EEEE-447* (3)		AI Explorations EEEE-547 (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.
- AI Course
- Co-op Pre-requisite
- Free Elective

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

- Professional Electives ***
- EEEE-221 Clean & Renewable Energy Systems & Sources
 - EEEE-321 Energy Conversion
 - 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-546 Power Electronics
 - 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

* Course has a lab

Note: One General Education Course must be Writing Intensive

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