RIT BS Program in Electrical Engineering with Robotics Option (Final Release FS 2/20/2020)

Year One
- PB Calc I MATH-181 (4) All
- PB Calc II MATH-182 (4) All
- General Chem CHMG-131 (3) F, Sp
- Writing Seminar UWRT-150 (3) All
- Perspective-1: Global xxxxxx-nnn (3) F, Sp
- EE Pract EEPE-105* (1) F, Sp
- Year One Co-op Prep Sem EGEN 99 (0) F, Sp
- Year One Immersion-1 xxxxxx-nnn (3) F, Sp
- Total Credits 17

Year Two
- Mult & Vect Calc MATH-221 (4) All
- University Physics I PHYS-211 (4) F, Sp
- Perspective-2: Artistic xxxxxx-nnn (3) F, Sp
- Dig Sys I EEPE-120* (3) Sp
- Comp Prob Solv CMPR-271 (3) F, Sp
- Perspective-3: Social xxxxxx-nnn (3) F, Sp
- Perspective-4: Ethical xxxxxx-nnn (3) F, Sp
- Advance Prog EEPE-546 (3) F, Sp
- Advance Prog EEPE-546 (3) F, Sp
- Total Credits 17

Year Three-Fall
- Diff Eq MATH-231 (4) F, Sp
- University Physics II PHYS-212 (4) F, Sp
- Ckts I EEPE-281* (3) F, Sp
- Dig Sys II EEPE-220* (3) Sp
- Linear Sys EEPE-353 (4) F, Sp
- Digital Electronics EEPE-380* (3) F, Sp
- Digital Electronics EEPE-380* (3) F, Sp
- Total Credits 17

Year Four-Fall
- Cmplx Var MATH-381 (3) F, Sp
- Semi Dev I EEPE-260 (4) F, Sp
- Ckts II EEPE-282 (3) F, Sp
- Embedded Sys Design EEPE-420* (3) F, Sp
- Linear Sys EEPE-353 (4) F, Sp
- Classical Controls EEPE-414* (3) F, Sp
- Classical Controls EEPE-414* (3) F, Sp
- Total Credits 17

Year Five
- Prob & Stats I MATH-251 (3) F, Sp
- EM Fields EEPE-374* (4) F, Sp
- Embedded Sys Design EEPE-420* (3) F, Sp
- Classical Controls EEPE-414* (3) F, Sp
- Embedded Sys Design EEPE-420* (3) F, Sp
- Total Credits 17

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
- A
- Course Prerequisites
- A
- Prerequisite

Professional Electives:
Biomedical
EEPE-536 Biorobotics/Cybernetics*

Digital & Computer Systems
Digital-520 Design of Digital Systems*
EEPE-521 Design of Computer Systems*
Electromagnetic Fields & Optics
EEPE-605 Modern Optics for Engineers
EEPE-517 Microwave Circuit Theory
EEPE-529 Antenna Theory & Design

MEMS
EEPE-689 Fundamentals of MEMS
EEPE-787 MEMS Evaluation

Devices and Integrated Circuits
EEPE-510 Analog Electronic Design
EEPE-579 Analog Filter Design

Signal Processing
EEPE-678 Digital Signal Processing

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

Co-op Requirements: 48 Weeks
EEPE-499:
Spring of 3rd year & Summer of 3rd year
Spring of 4th year & Summer of 4th year

Note: One General Education Course must be Writing Intensive

2 Wellness Courses

RIT 365 YOPS-10 (0) F
Gen Ed Elective xxxxxx-nnn (3) F, Sp
Co-op Prep Sem EGEN 99 (0) F, Sp
Total Credits 129