

discovering YOUR MAJOR

Electrical Engineering
SPRING 2026

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RIT email address

1. Check your RIT Email once a day
2. Connect it to your mobile phones
3. Create your email signature with **your UID, name & program**

Why?

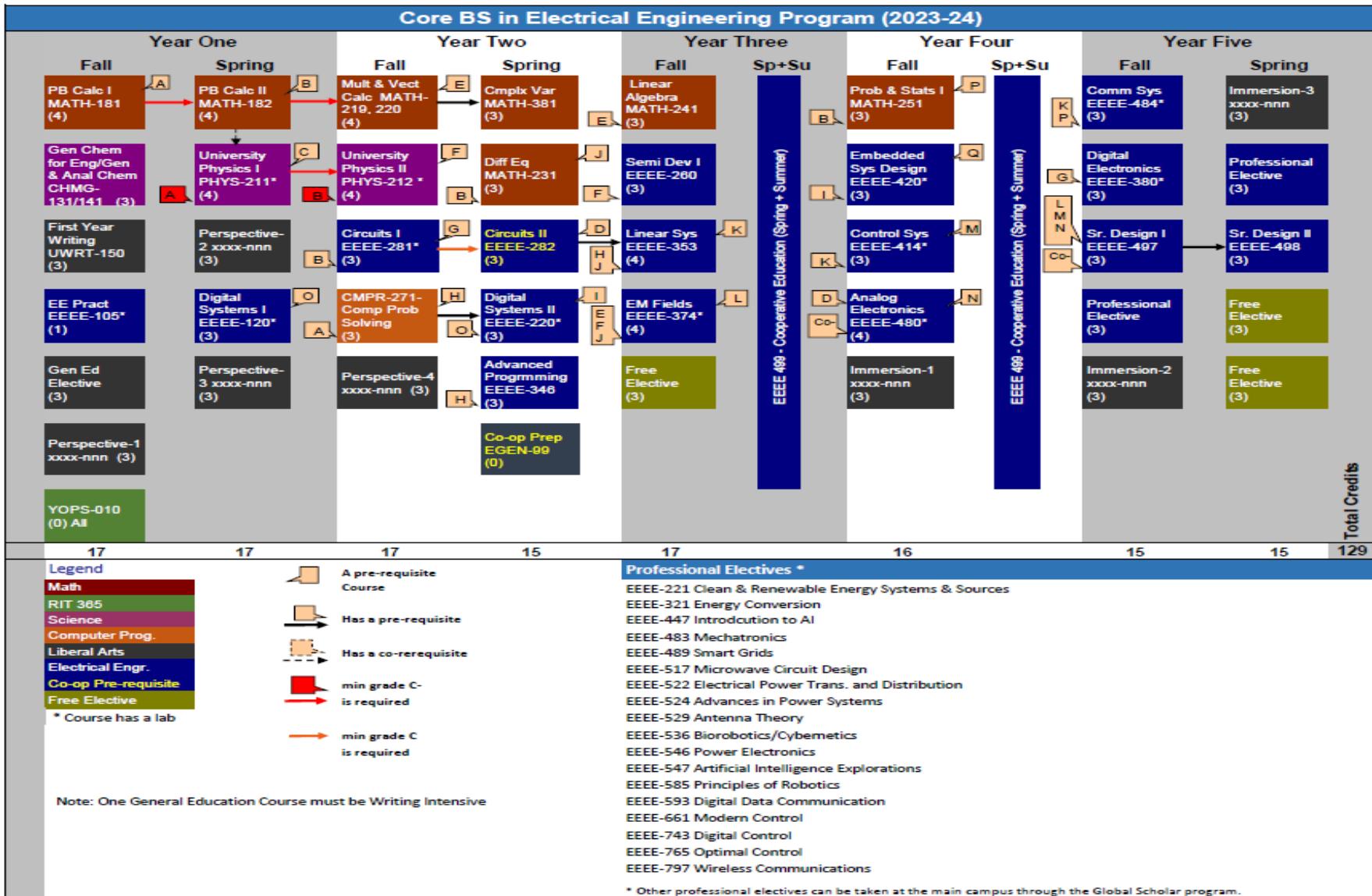
1. Used for all communication
2. Important announcements
3. Easier to identify and assist you

[Undergraduate Degrees](#)[Program Requirements](#)[Graduate Degrees](#)[Executive Education](#) [Immersions and Minors](#)[Academic Centers](#)[General Education](#)[Schedules](#)[Advising Resources](#)[Forms](#)[Transfer and Study Abroad](#)[Academic Calendar](#)

RIT Dubai Website

1. Academic Advising Resources
 1. <https://www.rit.edu/dubai/> -> Academics and Learning
 1. Advising Resources
 2. Schedules
 3. Forms
 4. Program Requirements
 5. Immersions and Minors
 6. Transfer and Study Abroad
 7. Academic Calendar
 2. Program Curriculum:
 1. <https://www.rit.edu/dubai/> -> Academics and Learning -> Undergraduate Degrees
 2. Bachelor of Science in Electrical Engineering

EE Flowchart



How to Read Your Flowchart

Prerequisite = A requirement that must be met/completed first *before* you can take a course

- **Types of Prerequisites**

1. **Course** (eg. The *prerequisite* for Beginning French II is Beginning French I (you just need to pass with a D))
2. **Year-Level** (eg. The *prerequisite* for Organizational Behavior is *2nd Year Standing*)
3. **A Grade in a course** (eg. The *prerequisite* for Calculus II is a C- in Calculus I)

Corequisite = A course that must either be taken *at the same time as* or completed before another course

- **Eg.:** The *corequisite* for Physics I is Calculus II = you can take Physics I as long as you are also taking or have already passed Calculus II
- Corequisites only work in one direction, so you could take Calculus II by itself

How to Read Your Flowchart

Requirements for a course are designated in 2 ways:

Requirement Type	Prereq Course → Course To Take	Prereq Course → Course To Take
Prerequisite	→	→
Corequisite	→	→
Prerequisite and must pass with a C-	→	→
Prerequisite and must pass with a C	→	

Terminology of Course Types

“Core Courses” = courses required by your major

“Electives” = requirements that can be fulfilled by a selection of courses that you can choose from

- There are different types of electives. Depending on the type, you will have a different set of course options (e.g. Math elective, Major elective, Science Elective, Free elective etc.)
- It is still a requirement you need to fulfill – you must choose *something*

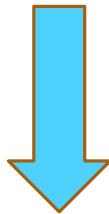
Program Requirements

3 main categories

Major Courses

Core Courses

Major Electives



General Education (GE)

Math & Science

Liberal Arts



Free Electives

(Almost) anything!



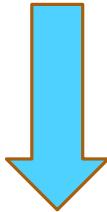
Program Requirements

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Free Electives

(Almost) anything!

Major Electives (ELECTRICAL)

2 Professional Electives:

General

Choose 2 courses from:

- EEEE 483 Mechatronics
- EEEE 489 Sp Topics: Smart Grids
- Any EEEE 500+ course
- Any Energy option course
- Any AI option course
- Course options listed at the bottom right-hand side of the flowchart
- Total 2 courses (6 credits) for Professional Electives

Major Electives (ELECTRICAL)

2 Professional Electives:

Energy Option

You must take:

- EEEE 221 Clean Renewable Energy Systems
- EEEE 321 Energy Conversion
- EEEE 522 Electric Power Transmission & Distribution
- EEEE 524 Advances in Power Systems
- EEEE 546 Power Electronics

These courses fulfill the following:

2 Professional Electives

3 Free Electives

AI Option

You must take:

- EEEE-447 Introduction to AI
- EEEE-547 AI Explorations
- EEEE-536 Biorobotics/ Cybernetics

These courses fulfill the following:

2 Professional Electives

1 Free Elective

Program Requirements

Major Courses

Core Courses

Major Electives

General

Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion

Free Electives

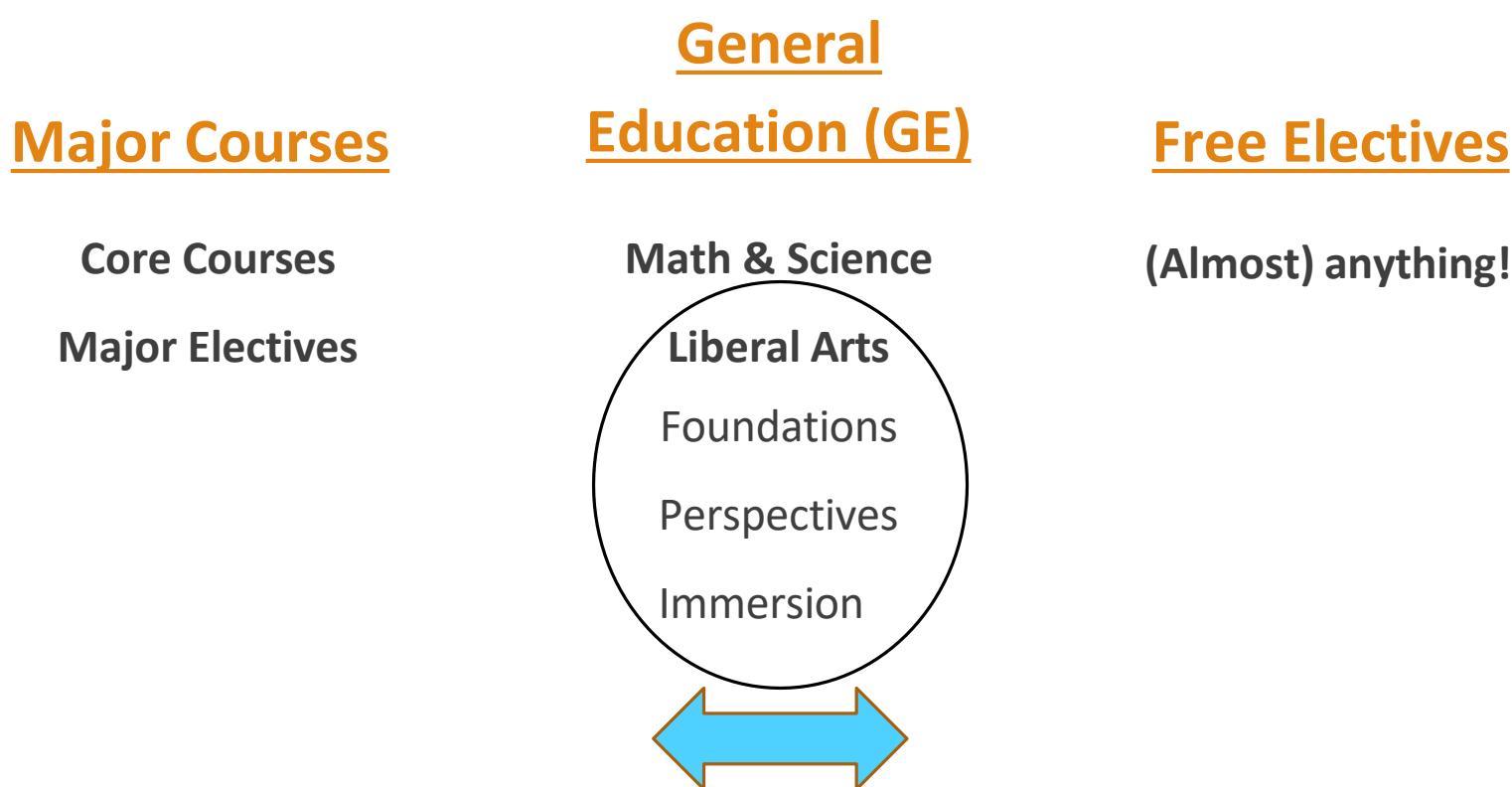
(Almost) anything!



General Education – MATH & SCIENCE (ELECTRICAL)

Requirement	ELECTRICAL
Perspective 5: Natural Science (Physics Requirement)	PHYS 211, Univ Physics I
Perspective 6: Scientific Principles (Physics Requirement)	PHYS 212, Univ Physics II
Perspective 7a + 7b: Math Requirement (2 courses)	MATH 181/182, Calculus I + II
Other Gen Ed Courses	CMPR 271 Computational Prob Solv
	CHMG 141 Gen Chemistry
	MATH 219 Multivariable Calculus/ MATH 220
	Vector Calculus / MATH 221
	MATH 231 Differential Equations
	MATH 381 Complex Variables
	MATH 251 Probability &Statistics I
	MATH 241 Linear Algebra
(These are all required courses)	

Program Requirements



General Education – LIBERAL ARTS

Foundation (2 courses)
UWRT 150 Writing Seminar
Gen Ed Elective
Perspectives (4 courses)
Perspective I: Artistic
Perspective II: Ethical
Perspective III: Global
Perspective IV: Social
Immersion (3 courses)
Immersion Course 1
Immersion Course 2
Immersion Course 3

- **Required**
- **Can choose**

General Education – LIBERAL ARTS

(Foundation)

UWRT 150 Writing Seminar (1 course)

- This is a required course for ALL RIT Dubai students
- Recommended to take this as early in your career as possible

Gen Ed Elective (1 course)

- This can be any liberal arts, math, or science course as well as a few others.
- Your Islamic culture course can go here if it doesn't fulfil any perspective or your immersion

General Education – LIBERAL ARTS

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UWRT 150 Writing Seminar
Gen Ed Elective
Perspectives (4 courses)
Perspective I: Artistic
Perspective II: Ethical
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Immersion Course 3

- **Required**
- **Can choose**

General Education – LIBERAL ARTS

(Perspectives)

Perspectives (4 courses)

- These course categories are designed to introduce students to a variety of important areas of inquiry that provide ways of knowing about the world.
 - Global
 - Social
 - Artistic
 - Ethical
- 1 course in each category is required to graduate
- Different courses are offered in each perspective each semester
- Some courses fulfil more than one perspective, but you can only use it once

General Education – LIBERAL ARTS

Foundation (2 courses)
UWRT 150 Writing Seminar
Gen Ed Elective
Perspectives (4 courses)
Perspective I: Artistic
Perspective II: Ethical
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Immersion (3 courses)
Immersion Course 1
Immersion Course 2
Immersion Course 3

- **Required**
- **Can choose**

General Education – LIBERAL ARTS (Immersion)

Immersion (3 courses) = a series of three related general education courses supporting deeper learning within a focus area.

The current approved list of immersions for RIT Dubai is:

• Creative Writing	Literature & Media
• Cultural Anthropology	Communication
• Economics	International Relations
• English	Language Science
• Ethics	Mathematics
• History	Philosophy
• Arabic	Spanish
• French	Sociology
• Psychology	
• Religious Studies	
• Advertising & PR	
• Digital Literature & Comparative Media	

Click [here](#) see the list of courses that can fulfill each immersion

General Education – LIBERAL ARTS

(Immersion)

■ **Special Notes:**

- **Psychology Immersion:** Intro to Psych (PSYC 101) does *not* count in the immersion, but is a prerequisite for the immersion and is a Social Perspective
- **Economics Immersion:** Microeconomics (ECON 101) does *not* count in the immersion, but is a prerequisite for the immersion and is a Social or Global Perspective

General Education – LIBERAL ARTS

- Some Liberal Arts courses fulfill more than one category, but **they cannot double count!** You must eventually choose which requirement it will fulfill.

Minors

- You **can** take a minor and an immersion in the same subject (e.g. Psychology). Minors are usually 5 courses, so potentially, a minor that overlaps with your immersion would only require 2 additional courses.
- Minor courses can also overlap with perspectives

General Education – LIBERAL ARTS

(Additional Requirements)

Additional Requirements – these 2 requirements do not need to be a separate course, but can be fulfilled by a perspective, immersion, Gen Ed, or Free elective:

1 Islamic Culture course (required for RIT Dubai only)

Choose from:

- **ANTH 275 Global Islam:** (Global Perspective/Immersion: Religious Studies, Cultural Anth)
- **ANTH 365 Culture and Politics in ME:** (Immersion: Arabic, Religious Studies, Cultural Anth)
- **HIST 402 Islamic History:** (Immersion: History)
- **ARTH 549 Topics in Global Art and Architecture**

1 Gen Ed Writing Intensive (“WI”) course (specified in the course description)

Choices include, but are not limited to:

- **COMM 253 Communication** (Gen Ed Elective)
- **ENGL 210 Literature, Culture and Media** (Artistic Perspective/Immersion: English)
- **ENGL 211 Intro to Creative writing** (Artistic Perspective/Immersion: Creative Writing)
- **ENGL 302 The Short Story** (Artistic Perspective/Immersion: English)
- **ENGL 309 Topics in Literary Forms** (Artistic Perspective/Immersion: English)
- **ENGL 360 Written Argument** (Artistic Perspective, Ethical Perspective/Immersion: English)

Program Requirements

Major Courses

Core Courses

Major Electives

General Education (GE)

Liberal Arts

Math & Science

Free Electives

(Almost) anything!



3 Free Electives

Make the most of them!

Can be:

- An extra course from your major
- An additional general education class
- A course from a different program
- A course towards a minor

as long as you meet the prerequisite for the course!

EXCEPT:

You cannot take an **easier** course

e.g. Pre-calc if you've already taken Calc I

Or a course that is **too similar**

e.g. Applied Statistics because you will be taking Probability & Statistics

Confused?

Don't worry. You will make an individualized, personal Graduation Plan with your advisor that will include all of these requirements so you can keep track.

This will be emailed to you, so keep it and refer to it often!

Co-op

- “Co-op” = Cooperative Education
 - Opportunity to gain meaningful work experience *before* graduation
 - Full-time, paid employment directly related to your field of study
 - Usually completed in your 3rd and 4th year
 - You should not “graduate on a coop”

Co-op Requirement

- **4 Blocks of co-op are required for Engineers:**
2 Spring semesters + 2 summers = 48 weeks
 - An individual co-op must be a **minimum of 10 weeks**
 - You can do “double blocks” (spring and summer OR summer and fall), but **2-3 different coops** are recommended
 - You should not “graduate on a co-op”

Co-op Pre-requisites

ELECTRICAL

- 3rd year standing
- EEEE 282 Circuits II
- EGEN 99 Coop Prep
- *EEEE 220 Digital Systems II (preferred)*
- *EEEE 260 Semiconductor Devices (preferred)*

*Must be in Good Standing (2.0 cGPA)

Now What?

- **Mandatory Advising**

- Every semester, you must meet with either your faculty or academic advisor before you can enroll for the next semester
- This semester, you must meet with your Academic advisor.
- We will discuss how things are going and what courses you should take next semester

Starfish Appointments

- Please book your mandatory advising appointment with me on Starfish, by clicking [here](#). OR:

1. Access **Starfish**  through SIS or MyCourses
2. Click on the menu icon and go to your **Profile** to **CHANGE YOUR TIME ZONE**
 - “Display all time zones” and find “(GMT+04:00) Dubai”
 - Click “Submit”
3. Go to “**My Success Network**”
4. Choose your Academic Advisor to schedule an appointment

Any Questions?