

Discovering YOUR MAJOR

INDUSTRIAL ENGINEERING
Fall 2025

Academic Advisor – Karishmma Jethwani

RIT Email address

Check your RIT Email frequently!

AND

Connect it to your mobile phones

Why?

1. Used for all communication
2. Important announcements
3. Easier to identify and assist you
(add your UID as an email signature).

RIT Dubai Website

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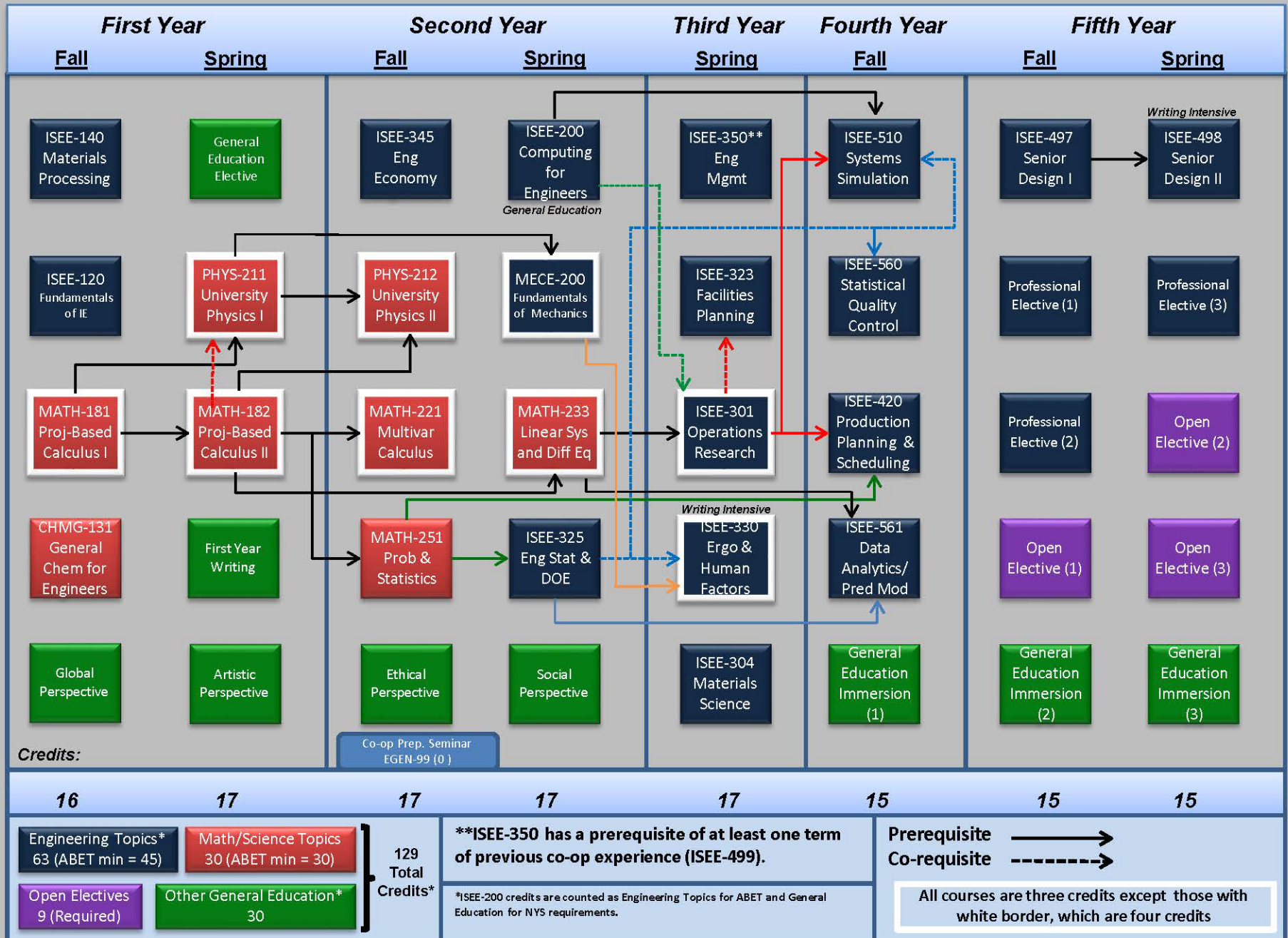


Academic Calendar



1. Academic Advising Resources
 1. <https://www.rit.edu/dubai/> -> Academics and Learning
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BS Industrial Engineering Curriculum



How to Read Your Flowchart

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

- Types of Prerequisites

- **Course** (eg. The *prerequisite* for Beginning French II is Beginning French I (you just need to pass with a D))
- **Year-Level** (eg. The *prerequisite* for Organizational Behavior is *2nd Year Standing*)
- **A Grade in a course** (eg. The *prerequisite* for Calculus II is a C- in Calculus I) → see [Advising Resources > Grading](#)

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

- **Eg.:** The *corequisite* for Physics I is Calculus II

- Corequisites only work in one direction, so you could take Calculus II by itself

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

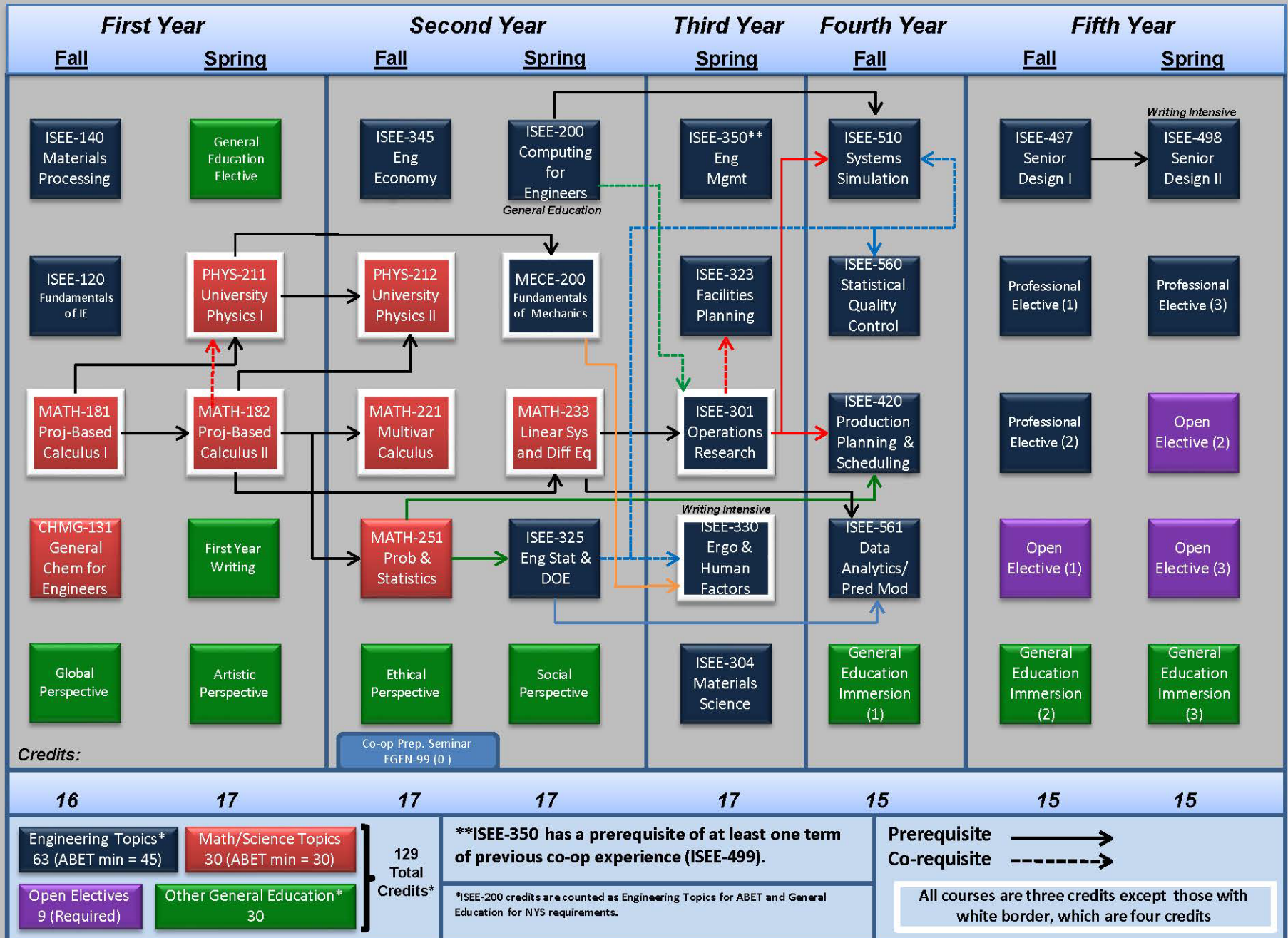


Free Electives

(Almost) anything!



BS Industrial Engineering Curriculum



Program Requirements

3 main categories

Major Courses

Only offered once a year

Core Courses

Major Electives



General

Education (GE)

Math & Science

Liberal Arts

Free Electives

(Almost) anything!



Major Electives (INDUSTRIAL)

3 Professional Electives:

General

3 courses from “A List”

- advanced-level (500+) ISEE courses
- variety of engineering undergrad and graduate-level courses

Supply Chain Option

3 courses from: (*in Dubai)

- ISTE 608 DB Design & Implementation OR
- MGIS 755 Info Tech Strategy & Mngmt
- *ISEE 703 Supply Chain Management
- *ISEE 704 Logistics Management
- ISEE 711 Advanced Simulation
- *ISEE 720 Production Control

From “A List”

*A List can be found [here](#)

Program Requirements

3 main categories

Major Courses

Core Courses

Major Electives



General Education (GE)

Math & Science

Liberal Arts



Free Electives

(Almost) anything!



Program Requirements

- These are all required courses

General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



Requirement	INDUSTRIAL
Perspective 5: Natural Science	PHYS 211-University Physics I
Perspective 6: Scientific Principles	PHYS 212-University Physics II
Perspective 7a + 7b: Math (2 courses)	MATH 181-Calculus I + MATH 182- Calculus II
Other Gen Ed Courses	CHMG 141- General Chemistry MATH 221 – Multivariable & Vector Calculus MATH 233- Linear Systems & Differential Equations MATH 251 – Probability & Statistics ISEE 325 – Engineering Statistics & Design of Experiments ISEE 200 – Computing for Engineers

Program Requirements

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

General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



Foundation (2 courses)

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

Writing Seminar (1 course)

- Required course for ALL RIT Dubai students
- Recommended to take this within first year

Gen Ed Elective (1 course)

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

Program Requirements

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

General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



Foundation (2 courses)

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

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



PERSPECTIVES

Examples:

ETHICAL PERSPECTIVE

- MGMT 340 (Business Ethics)
- ENGL 360 (Written Argument)
- PHIL 306 (Professional Ethics)

SOCIAL PERSPECTIVE

- ECON 101 (Microecon)
- PHIL 306 (Professional Ethics)
- PSYC 101 (Intro Psychology)

ARTISTIC PERSPECTIVE

- ENGL 211 (Intro to Creative Writing)
- ENGL 301 (Art of Poetry)
- ENGL 302 (The Short Story)
- ENGL 304 (Drama & Theater)

GLOBAL PERSPECTIVE

- ANTH 275 (Global Islam)
- ECON 101 (Microecon)
- HIST 255 (Hist of WWII)
- MLFR 201 (French I)
- MLAR 201 (Arabic I)

Program Requirements

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

General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



Foundation (2 courses)

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

- **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: (17)**
 - Advertising & Public Relations
 - Creative Writing
 - Cultural Anthropology
 - Digital Literature & Comparative Media
 - Economics
 - Ethics
 - History
 - Language Science
 - Literature & Media
 - Arabic
 - French
 - Spanish
 - Philosophy
 - Psychology
 - Religious Studies
 - Sociology
- Click [here](#) to see the list of courses that can fulfill each immersion

General Education – LIBERAL ARTS

(Immersion)

■ Immersions Special Notes:

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

Links to Immersions and Minors

Immersions & Minors: <https://www.rit.edu/dubai/minors-and-immersions>

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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.
- You **can** take a minor and an immersion in the same subject (e.g. Psychology). A minor will then only require 2 additional courses.
- *Can also overlap with perspectives*

General Education – LIBERAL ARTS

(Additional Requirements)

Additional Requirements - can be 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)

☐ **1 extra Writing Intensive (“WI”) course** (specified in the course description)

Choices include, but are not limited to:

- **COMM 253 Communication**
- **ENGL 210 Literary and Cultural Studies**
- **ENGL 211 Intro to Creative writing**
- **ENGL 215 Text and Code**
- **ENGL 302 The Short Story**
- **ENGL 305 Auto/biographical Literature**
- **ENGL 309 Topics in Literary Forms**
- **ENGL 360 Written Argument**

Program Requirements

Major Courses

Core Courses

Major Electives

General Education (GE)

Liberal Arts

Math & Science

Free Electives

(Almost) anything!



3 Open 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 if you're taking Prob & Stats

Minors

- A minor at RIT is a related set of academic courses consisting of no fewer than 5 courses (15 credit hours)
- At least nine credit hours of the minor must consist of courses not required by the student's home major.
- Minors are optional
- Students may pursue multiple minors.
- You **can** take a minor and an immersion in the same subject (e.g. Psychology). A minor will then only require 2 additional courses.
- *Can also overlap with perspectives*

Approved minors available at RIT Dubai

Business and Management Department

(Chair: Dr. Panagiotis Kokkalis)

- [Business Administration](#)
- [Digital Business and Management](#)
- [Finance](#)
- [International Business](#)
- [Marketing](#)
- [Management](#)

Mechanical and Industrial Engineering Department

(Chair: Dr. Wael Abdel Samad)

- [Industrial Engineering](#)
- [Mechanical Engineering](#)

Electrical Engineering and Computing Department

(Chair: Dr. Muhieddin Amer)

- [Cybersecurity](#)
- [Electrical Engineering](#)
- [Networking and Systems Administration](#)
- [Software Engineering](#)

Liberal Arts Department

(Chair: Dr. Jillian M. Pandor)

- [Creative Writing](#)
- [Economics](#)
- [Ethics](#)
- [Modern Languages – Arabic](#) ⓘ
- [Philosophy](#)
- [Psychology](#)

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”

BS Industrial Engineering

Class/Co-op Schedule

Year (credits)	Fall Semester	Spring Semester	Summer
1 (33)	Class (16)	Class (17)	Vacation
2 (34)	Class (17)	Class (17)	Vacation
3 (17)	Co-op	Class (17)	Co-op
4 (15)	Class (15)	Co-op	Co-op
5 (30)	Class (15)	Class (15)	
Total Credits: 129			

This planning document is a tool to help you visualize your course sequence. Please refer to your AAR for a complete overview of your degree requirements. Course names and numbers are subject to change.

Co-op Requirement

- **4 Blocks of co-op are required for Engineers:**
2 semesters + 2 summers = 50 weeks
 - A minimum **total of 48 weeks** is allowed
 - 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

Co-op Pre-requisites

Industrial Eng. Coop

- Second-year IE courses
- ISEE 120 Fundamentals of Industrial Eng
- EGEN 99 Coop Prep

*Must be in Good Standing (2.0 cGPA)

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!

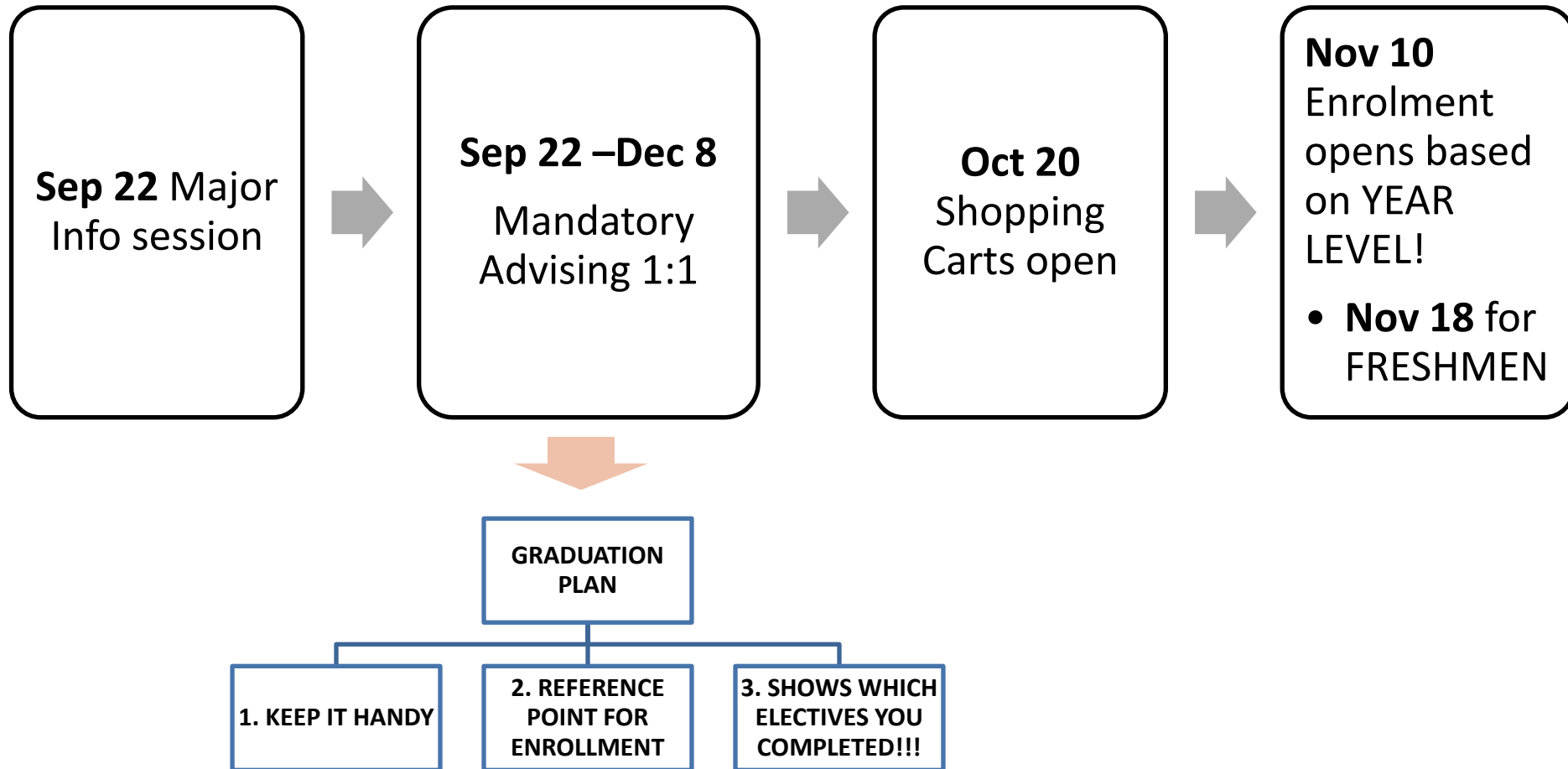
Example Graduation plan

An Example plan to give you a better understanding of how the plan looks.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1				Double				Done	Pend			Sum	
2	Semester	Course	B.S. Degree Completion Checklist	Count	Status	(SCH)	(SCH)	+	(SCH)	=	(SCH)		
3	Math and Science Topics												
4	2251 Fa	MATH-181	Calculus I		P	(4)	{0}		(4)		(4)		
5	2255 Sp	MATH-182	Calculus II		P	(4)	{0}		(4)		(4)		
6	2261 Fa	MATH-221	MultiVariable & Vector Calculus		P	(4)	{0}		(4)		(4)		
7	2265 Sp	MATH-233	Linear Sys and Differential Equations		P	(4)	{0}		(4)		(4)		
8	2261 Fa	MATH 251	Prob & Stat for Eng I		P	(3)	{0}		(3)		(3)		
9	2265 Sp	ISEE 325	Eng Stat & DOE		P	(3)	{0}		(3)		(3)		
10	2255 Sp	PHYS-211	University Physics I		P	(4)	{0}		(4)		(4)		
11	2261 Fa	PHYS-212	University Physics II		P	(4)	{0}		(4)		(4)		
12	2251 Fa	CHMG 141	Gen Chemistry		P	(3)	{0}		(3)		(3)		
13	2251 Fa	YOPS 10	RIT 365: RIT Connections		P	(0)	{0}		(0)		(0)		
14							{0}		(0)		(0)		
15	Math & Sci Subtotal						(33)	(0)	(33)		(33)		
16													
17	University Arts & Sciences Topics												
18	2251 Fa	UWRT-150	Writing		P	(3)	{0}		(3)		(3)		
19	2255 Sp	ANTH 275/	Gen Ed Elective (Islamic)		P	(3)	{0}		(3)		(3)		
20	2255 Sp		Perspectives I Global:		P	(3)	{0}		(3)		(3)		
21	2265 Sp		Perspectives II Social:		P	(3)	{0}		(3)		(3)		
22	2255 Sp		Perspectives III Artistic:		P	(3)	{0}		(3)		(3)		
23	2261 Fa		Perspectives IV Ethical:		P	(3)	{0}		(3)		(3)		
24	2281 Fa		University Arts & Sciences Immersion-I		P	(3)	{0}		(3)		(3)		
25	2291 Fa		University Arts & Sciences Immersion- II		P	(3)	{0}		(3)		(3)		
26	2295 Sp		University Arts & Sciences Immersion- III		P	(3)	{0}		(3)		(3)		
27							{0}		(0)		(0)		
28							{0}		(0)		(0)		
29	UAS Subtotal						(27)	(0)	(27)		(27)		
30													
31	General Education Subtotal						(60)	(0)	(60)		(60)		
32													
33	Engineering Topics												
34	2251 Fa	ISEE-140	Materials Processing		P	(3)	{0}		(3)		(3)		Se
35	2251 Fa	ISEE-120	Fundamentals of IE		P	(3)	{0}		(3)		(3)		
36	2261 Fa	ISEE-345	Engineering Economy		P	(3)	{0}		(3)		(3)		
37	2261 Fa	EGEN 99	Co-Op Prep Course		P	(0)	{0}		(0)		(0)		


	A	D	E	F	I	J	K	N	O	P	S
1		Name	test name					RIT INDUSTRIAL ENGINEERING - BS Degree			
2		email	test email					FOR SCHEDULE PLANNING ONLY			
3											
16											
17		2251 Fa						2255 Sp		2258 Su	
18		Calculus I						Calculus II			
19	S	Gen Chemistry						S University Physics I		S	
20	E	RIT 365: RIT Connections						E Gen Ed Elective (Islamic)		E	
21	M	Writing						M Perspectives I Global:		M	
22	E	Materials Processing						E Perspectives III Artistic:		E	
23	S	Fundamentals of IE						S		S	
24	T							T		T	
25	E							E		E	
26	R							R		R	
27	S							S		S	
28											
29											
30		2261 Fa						2265 Sp		2268 Su	
31		MultiVariable & Vector Calculus						Linear Sys and Differential Equations		Summer Co-Op	
32	S	Prob & Stat for Eng I						S Eng Stat & DOE		S	
33	E	University Physics II						E Perspectives II Social:		E	
34	M	Perspectives IV Ethical:						M Computing for Engineers		M	
35	E	Engineering Economy						E Fundamentals of Mechanics		E	
36	S	Co-Op Prep Course						S		S	
37	T							T		T	
38	E							E		E	
39	R							R		R	
40	S							S		S	
41											
42											
43		2271 Fa						2275 Sp		2278 Su	
44		AY Co-Op						Engineering Management		Summer Co-Op	
45	S							S Facilities Planning		S	
46	E							E Operations Research		E	
47	M							M Ergo & Human Factors (WI)		M	
48	E							E Fundamentals of Materials Science & Lab		E	
49	S							S		S	

Important Dates & what's next



Starfish Set up

■ Make your Advising Appointment!

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?