

# Discovering **YOUR MAJOR**

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**COMPUTER SECURITY**



# *RIT Email address*

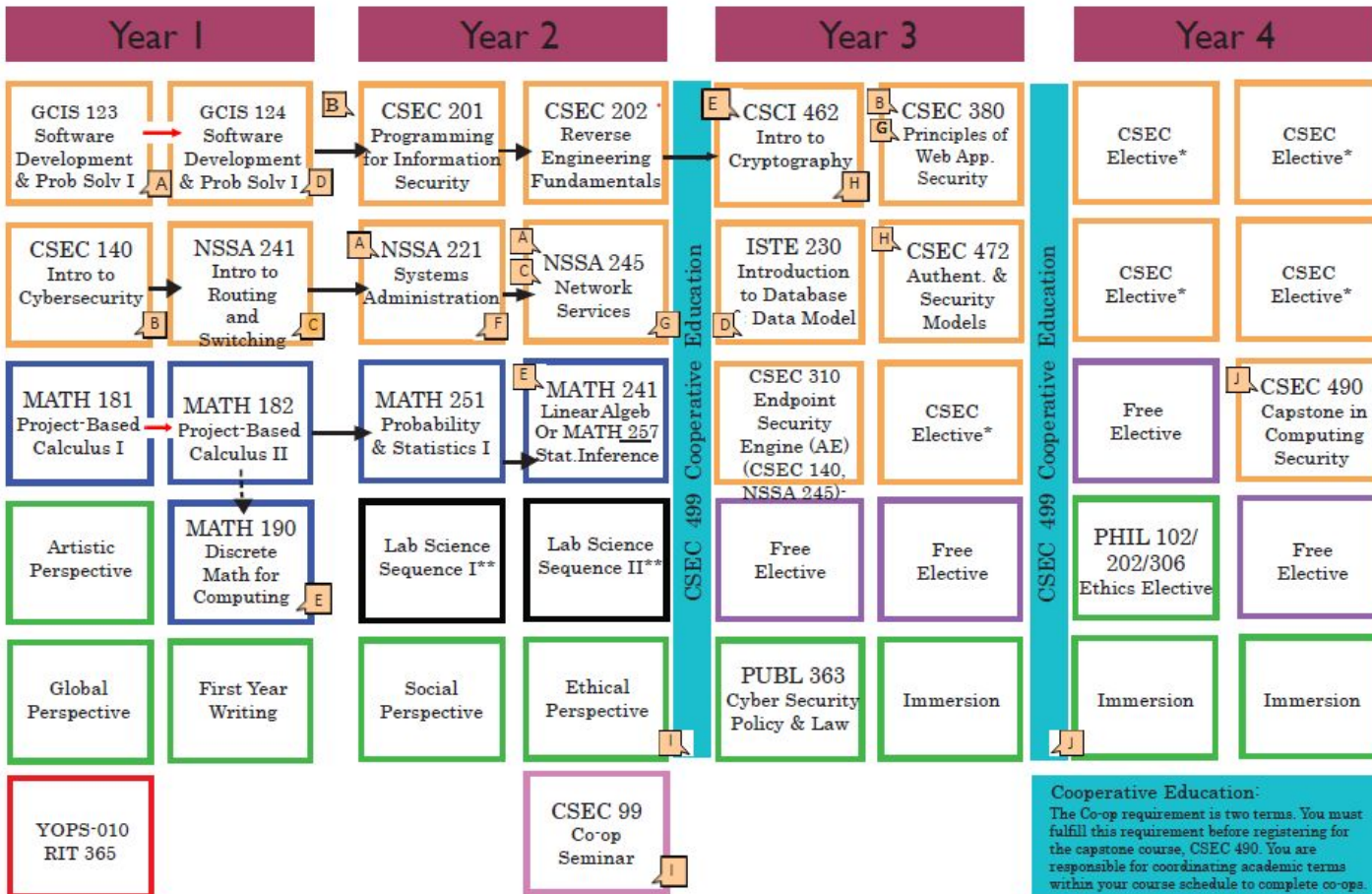
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- Check your RIT Email frequently
- or**
- Connect it to your mobile phones

## **Why?**

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

# Department of Computing Security Undergraduate Curriculum



**\*Computing Security Advanced Electives**

**Clusters:**  
There are five advanced electives that students must complete, students are required to take at least 4 advanced electives (12 credits) with the CSEC course header, and no more than 1 course (3 credits) from SWEN or CSCI to meet advanced elective requirements.

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PHYS 211 & PHYS 212  
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**Key:**

- Computing (Orange)
- Math (Blue)
- General Education (Green)
- First Year Requirement (Red)
- Science (Light Blue)
- Free Elective (Purple)
- Co-op (Light Green)
- Course label (Orange box)
- Course Pre-req (Light Blue box)

→ C - or better  
 → Prerequisite  
 → Corequisite

**\*CSEC 461 Computer System Security**  
**\*CSEC 462 Computer System Security**  
**\*CSEC 463 Sensor Network Security**  
**\*CSEC 464 Computer System Forensics**  
**\*CSEC 465 Network and System Security Audit**  
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**\*CSEC 476 Malware Reverse Engineering**  
**\*CSEC 477 Disaster Recovery Planning & Business Continuity**

**Perspectives:**  
Choose a course for the Artistic, Ethical, Global, and Social perspectives. The other three perspectives are specified by the required courses in the CSEC program.

**Immersion:**  
Select an Immersion approved in the General Education Framework. An Immersion consists of three pre-defined upper level courses focusing in one topic area. See the College of Liberal Arts website for a listing.

# How to Read Your Flowchart

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

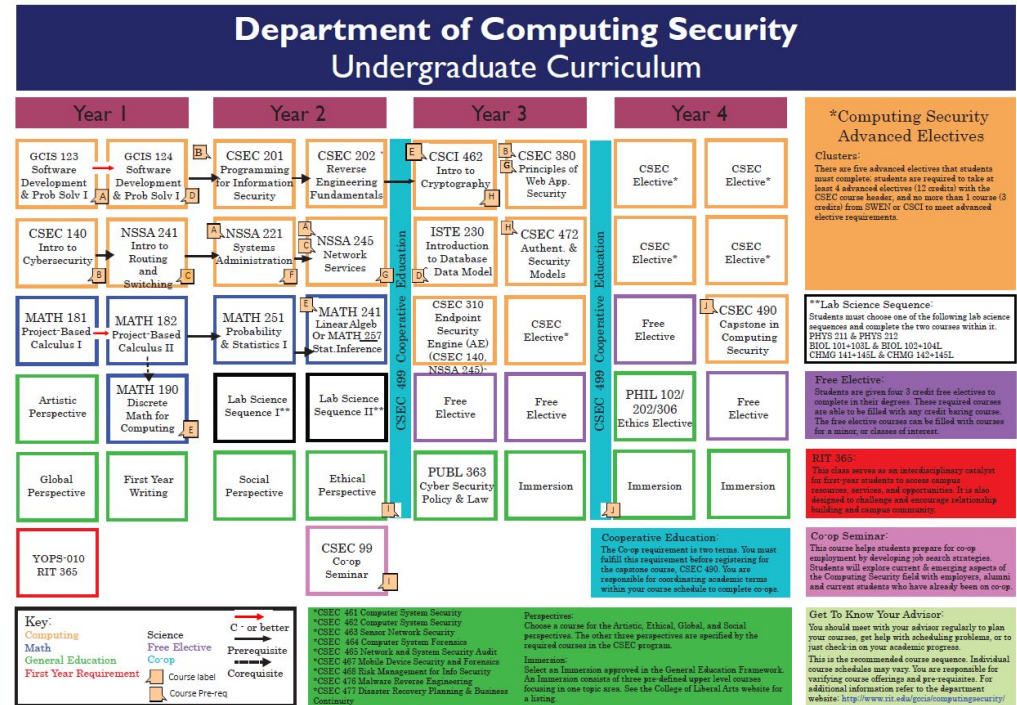
## - Types of Prerequisites

- **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 2<sup>nd</sup> Year Standing)
- **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 choose from



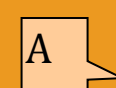

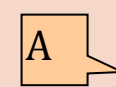

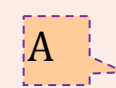


- **Eg.:** The *corequisite* for Physics I is Calculus II

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



# How to Read Your Flowchart

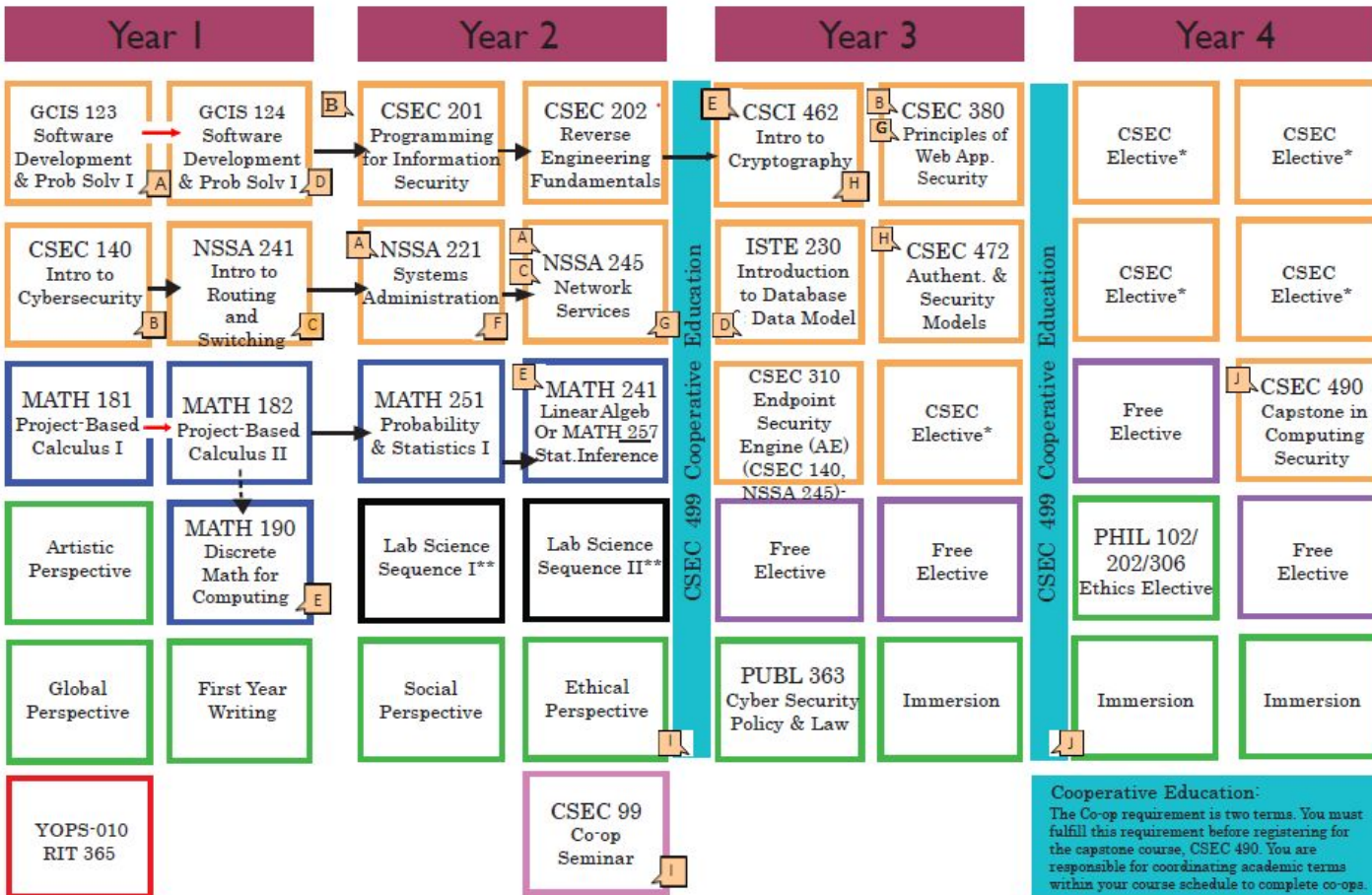
Requirements for a course are designated in 2 ways:

Requirement Type	Pre-req Course  Course To Take	Pre-req Label   Pre-req required
Prerequisite		
Corequisite		
Prerequisite and must pass with a C-*		

\*The full list of courses that require C- or C is on the Academic Services website!



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# *Terminology of Course Types*

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□ **“Core Courses”** = required courses

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

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

# *Program Requirements*

*-3 main categories of classes-*

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## General

### Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



### Major Courses

Core Courses

Major Electives



### Free Electives

(Almost) anything!





# General Education – MATH & SCIENCE

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## CSEC

- MATH 181 Calculus I
- MATH 182 Calculus II
- MATH 190 Discrete Math for Computing
- MATH 251 Probability & Statistics I
- MATH 241 Linear Algebra OR STAT 257 Statistical Inference

- **Choose 1 Lab Science Sequence (4 cr. Per course):**
  - PHYS 211 / PHYS 212
  - CHMG 141+145 / 142+146
  - BIOL 101+103 / 102+104

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

# Program Requirements

## 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

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

# *General Education – LIBERAL ARTS*

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## Additional Requirements

### □ 1 **Islamic** Culture course (required if you graduate from RIT Dubai only)

*Choose from:*

- ANTH 275 **Global Islam:** (Global Pers/ 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 (designated in the course description □ can be a perspective, immersion, or free elective)

*Choices include:*

- 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 360 Written Argument

# Program Requirements

## 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 = A set of 4 required courses that are designed to introduce students to a variety of important areas of inquiry that provide ways of knowing about the world.
  - 1 course in each Perspective category is required to graduate
  - Different courses are offered in each perspective each semester

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

# Program Requirements

## 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

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



# Program Requirements

## 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
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Immersion (3 courses)
Immersion Course 1
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- Immersion = a series of three related general education courses supporting deeper learning within a focus area

- Required
- Can choose

# Program Requirements

## General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion



Foundation (2 courses)
Writing Seminar
Gen Ed Elective
Perspectives (4 courses)
Perspective I: Artistic
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Perspective III: Global
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- The current approved list of immersions for RIT Dubai is:
  - Creative Writing
  - Cultural Anthropology
  - Digital Literature & Comparative Media
  - Economics
  - English
  - History
  - Arabic
  - French
  - Psychology
  - Religious Studies
- Click [here](#) to see the list of courses that can fulfill each immersion

- Required
- Can choose

# *General Education – LIBERAL ARTS*

## *(Immersion)*

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### ■ **Immersion Special Notes:**

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

# *General Education – LIBERAL ARTS*

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- 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.

# *Links to Immersions and Minors*

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**Immersions = Mandatory**

<https://www.rit.edu/dubai/programs/immersions>

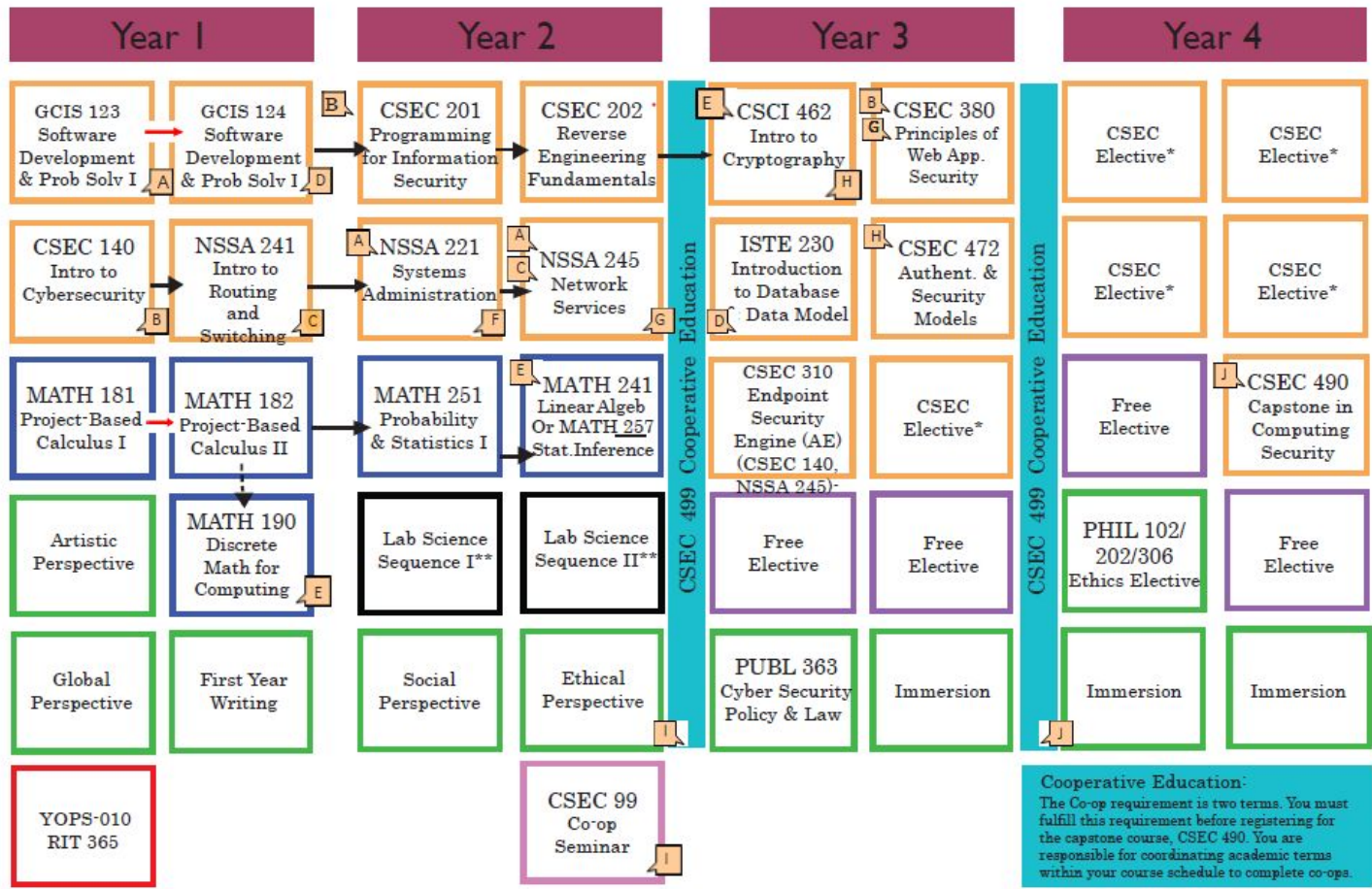
**Minors = OPTIONAL**

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# Department of Computing Security

## Undergraduate Curriculum



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*-3 main categories of classes-*

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## General Education (GE)

Math & Science

Liberal Arts

Foundations

Perspectives

Immersion

## Major Courses

Core Courses

Major Electives



## Free Electives

(Almost) anything!

# *CSEC Major Electives*

---

Choose a cluster:

Take 4 required courses from CSEC cluster

+

any other 1 advanced courses from either SWEN or CSCI

# *CSEC Major Electives*

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RIT Dubai is offering advanced courses from **System and Network Security and Forensics**. Examples of the advanced courses include:

- CSCI-532 Introduction to Intelligent Security Systems
- CSEC-461 Computer System Security
- CSEC-462 Network Security and Forensics
- CSEC-465 Network & System Security Audit
- CSEC-468 Risk Management for Information Security
- CSEC-471 Penetration Testing Frameworks and Methodologies



*Network and System Security:*

\*CSEC 461 Computer System Security  
\*CSEC 462 Network Security and Forensics  
CSEC 465 Network & System Security Audit  
CSEC 469 Wireless Security  
CSEC 471 Penetration Testing Frameworks & Methodologies  
CSEC 473 Cyber Defense Techniques

*Forensics & Malware:*

\*CSEC 464 Computer Systems Forensics  
\*CSEC 466 Introduction to Malware  
CSEC 476 Malware Reverse Engineering  
CSEC 462 Network Security and Forensics  
CSEC 465 Network & System Security Audit  
CSEC 467 Mobile Device Security and Forensics  
CSEC 470 Covert Communications

*Software Security:*

\*SWEN 261 Introduction to Software Engineering  
\*SWEN 331 Engineering Secure Software  
CSEC 467 Mobile Device Security and Forensics  
CSEC 468 Risk Management for Information Security  
CSEC 731 Web Server and Application Security Audits (Graduate)  
CSCI 622 Data Security and Privacy (Graduate course)  
CSCI 642 Secure Coding (Graduate course)  
SWEN 567 Hardware Software Co-Design for Cryptographic Appli

*Security Management and Evaluation:*

\*CSEC 468 Risk Management for Information Security  
\*CSEC 477 Disaster Recovery Planning and Business Continuity  
CSEC 465 Network & System Security Audit  
CSEC 471 Penetration Testing Frameworks & Methodologies  
CSCI 531 Introduction to Security Measurement  
CSCI 532 Introduction to Intelligent Security Systems

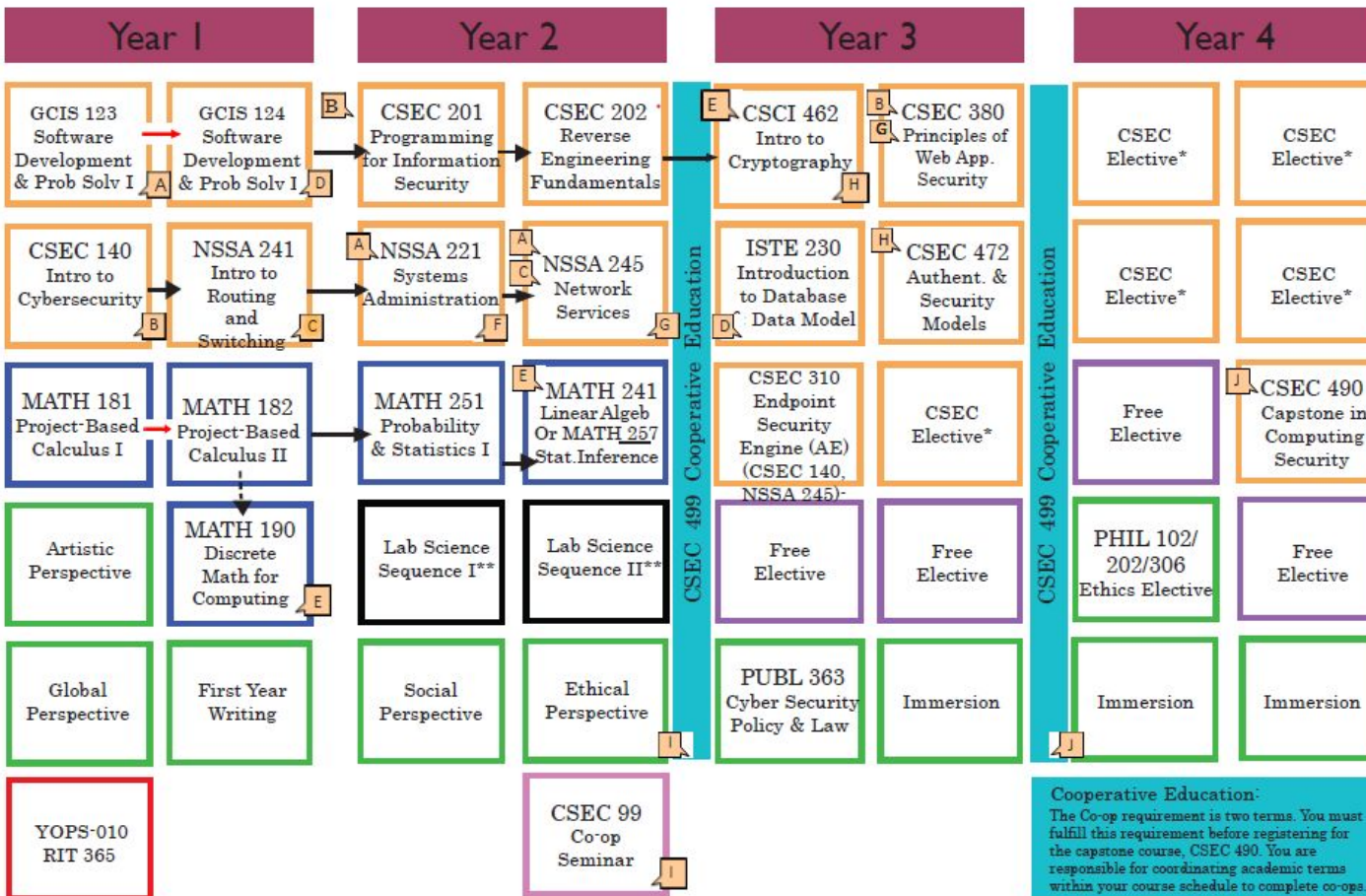
*Electives:*

CSCI 455 Principles of Computer Security  
CSCI 464 Xtreme Theory  
CSCI 531 Introduction to Security Measurement  
CSCI 532 Introduction to Intelligent Security Systems  
CSCI 622 Data Security and Privacy (Graduate course)  
CSCI 642 Secure Coding (Graduate course)  
CSCI 762 Advanced Cryptography (Graduate course)  
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*-3 main categories of classes-*

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## General Education (GE)

Liberal Arts

Math & Science

## Major Courses

Core Courses

Major Electives

## Free Electives

(Almost) anything!



# Free Electives

Make the most of them!

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



*Cannot take an **easier** course (e.g. Pre-calc if you've already taken Calc I), a course with unfulfilled **pre-reqs**, or a course that's too similar to another (e.g. Applied Statistics & probability & Stats)*

# Co-op

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- “Co-op” = **Cooperative Education**
  - Opportunity to gain meaningful work experience *before* graduation
  - **Full-time**, paid employment directly related to your field of study
  - Usually begun in your 2<sup>nd</sup> year **summer**

# Co-op

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**2 summers = 24 weeks**

- ▶ **An individual co-op must be a minimum of 10 weeks**
- ▶ **2 different coops are recommended**
- ▶ **Must be in Good Standing (at least 2.0 cGPA)**
- ▶ **Must first complete Co-op Prep (CSEC99)**
- ▶ **Not permitted to graduate on a co-op**

# Co-op Pre-requisites

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## CSEC

- **CSEC 99 Coop Prep**
- *Second year CSEC courses (preferred)*
  - CSEC 202 Concepts of Comp Systems
  - NSSA 221 Systems Admin I
  - MATH 182 Calculus II

# Confused?

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

This will be emailed to you after your mandatory advising session, so keep it and refer to it often!



Name:

Entry Term:

UID:

## Year 1

Course #	Course Name	Term	Grade	Credits	Cr. Earned	Course #	Course Name	Term	Grade	Credits	Cr. Earned
GCIS 123	Software Development I	2221		4	0.00	GCIS 124	Software Development II	2225		4	0.00
CSEC 140	Intro to Cybersecurity	2221		3	0.00	MA TH 182	Project-Based Calc II (P-7B)	2225		4	0.00
MA TH 181	Project-Based Calc I (P-7A)	2221		4	0.00	PSYC 101	LA Perspective 1 - Social	2225		3	0.00
ANTH 365	Free Elective I (WI)	2221		3	0.00	NSSA 241	Intro to Routing and Switching	2225		3	0.00
RT 365	Freshman seminar	2221		0	0.00	UW RT 150	First Year Writing	2225		3	0.00

## Year 2

Course #	Course Name	Term	Grade	Credits	Cr. Earned	Course #	Course Name	Term	Grade	Credits	Cr. Earned
CSEC 201	Programming for Info Security	2231		3	0.00	CSEC 202	Reverse Engineering Fundamentals	2235		3	0.00
NSSA 221	Systems Administration I	2231		3	0.00	MA TH 241/232	Linear Alg/ Prob & Stat II	2235		3	0.00
STA T 145	Free Elective 2	2231		3	0.00	NSSA 245	Network Services	2235		3	0.00
PHYS 211	Lab Science I *	2231		4	0.00		Lab Science II *	2235		4	0.00
MA TH 190	Discrete Math for Computing	2231		3	0.00		LA Perspective 2 - Ethical	2235		3	0.00
						CSEC 99	Co-op Seminar	2235		0	0

## Year 3

Course #	Course Name	Term	Grade	Credits	Cr. Earned	Course #	Course Name	Term	Grade	Credits	Cr. Earned
CSCI 462	Intro to Cryptography	2241		3	0.00	CSEC 380	Principles of Web App Security	2245		3	0.00
ISTE 230	Intro to DB & Data Modeling	2241		3	0.00	CSEC 472	Auth & Security Models	2245		3	0.00
	Advanced Option 1	2241		3	0.00		Advanced Option 2	2245		3	0.00
	LA Perspective 3 - Global	2241		3	0.00	MA TH 251	Probability and Statistics I	2245		3	0.00
PUBL 363	Cyber Security Policy & Law	2241		3	0.00		LA Immersion 1	2245		3	0.00
	LA Perspective 4- Artistic/Writing	2241		3	0.00						

## Year 4

Course #	Course Name	Term	Grade	Credits	Cr. Earned	Course #	Course Name	Term	Grade	Credits	Cr. Earned
	Advanced Option 3	2251		3	0.00		Advanced Option 5	2255		3	0.00
	Advanced Option 4	2251		3	0.00		Advanced Option 6	2255		3	0.00
PHIL 102/202/300	Ethics Elective (GenEd-E4)	2251		3	0.00	CSEC 490	Capstone in Computing Security	2255		3	0.00
TXRR 100	Free Elective 3	2251		3	0.00	TXRR 100	Free Elective 4	2255		3	0.00
	LA Immersion 2	2251		3	0.00		LA Immersion 3	2255		3	0.00

		Entry Term:		UID:							# of courses per/term	# of credits per/term
Year 1												
Course #	Course Name	Term	Grade	Credits	Cr. Earned		Code:					
GCIS 124	Software Development II	2225		4	0.00	Year1	2221	2022 Fa	5	14		
MATH 182	Project-Based CalcII (P-7B)	2225		4	0.00		2225	2023 Sp	5	17		
PSYC 101	LA Perspective 1 - Social	2225		3	0.00		2228	2023 Su	0	0		
NSSA 241	Intro to Routing and Switching	2225		3	0.00	Year 2	2231	2023 Fa	5	16		
UWRT 150	First Year Writing	2225		3	0.00		2235	2024 Sp	6	16		
							2238	2024 Su	1	0		
Year 2							Year 3	2241	2024 Fa	6	18	
Course #	Course Name	Term	Grade	Credits	Cr. Earned							
CSEC 202	Reverse Engineering Fundamentals	2235		3	0.00		2245	2025 Sp	5	15		
MATH 241/252	Linear Alg/ Prob & Stat II	2235		3	0.00	Year 4	2248	2025 Su	1	0		
NSSA 245	Network Services	2235		3	0.00		2251	2025 Fa	5	15		
	Lab Science II *	2235		4	0.00		2255	2026 Sp	5	15		
	LA Perspective 2 - Ethical	2235		3	0.00		2258	2026 Su	0	0		
CSEC 99	Co-op Seminar	2235		0	0							
Year 3												
Course #	Course Name	Term	Grade	Credits	Cr. Earned							
CSEC 380	Principles of Web App Security	2245		3	0.00							
CSEC 472	Auth & Security Models	2245		3	0.00							
	Advanced Option 2	2245		3	0.00							
MATH 251	Probability and Statistics I	2245		3	0.00							
	LA Immersion 1	2245		3	0.00							
Year 4												
Course #	Course Name	Term	Grade	Credits	Cr. Earned							
	Advanced Option 5	2255		3	0.00							
		2255		3	0.00							

# Academic Advising Resources

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<https://www.rit.edu/dubai/> -> Campus Life -> Academic Advising

1. Introduction and Schedules
2. Forms
3. Advising Resources
4. Program Requirements
5. Transfer and Study Abroad

# Now What?

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## ■ 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?