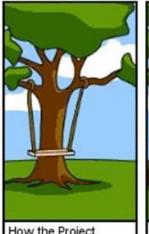


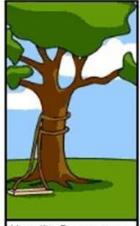
How the customer explained it



How the Project Leader understood it



How the Analyst designed it

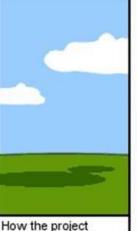


How the Programmer wrote it

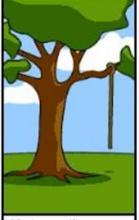


How the Business Consultant described it





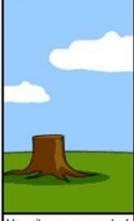
How the project was documented



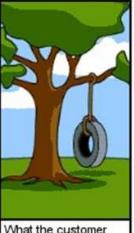
What operations installed



was billed



How it was supported



What the customer really needed

Academic Day

August 2025

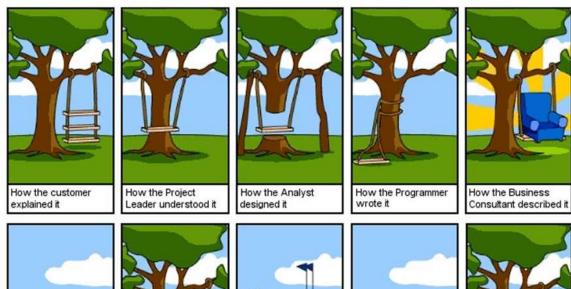
# Today's Agenda

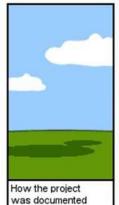
- Software Engineering Program Overview
  - What did I sign up for?? What is SE?
  - o Who are we?
  - o Your (curricular) future
  - Unsolicited wisdom
- SE Advising
  - Video from University Advising Office
  - Advising Support
  - Understanding your Fall schedule
- Society of Software Engineering (SSE)
  - Presentation
  - Activity!
- Lunch
- Optional Enrollment Bootcamp + advising questions

#### What is SE?

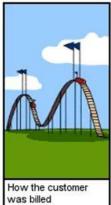
"I'll never understand what you do, but I'm glad you love it" -Grandma

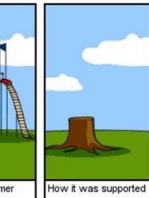
If When someone asks you "What is Software Engineering?", what will you tell them?

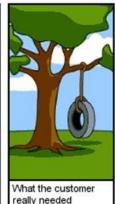












installed

really needed

#### What is SE?

"I'll never understand what you do, but I'm glad you love it" -Grandma

Head will you tell them? What is Software Engineering?",

"I study how to make software."

"I study how to make software on time, on budget, and no bugs"

"I'm learning the practices and principles of the software development lifecycle"

"I study four things with software: define, design, develop, deliver."

"I do things with computers."

# Important People

**Department Chair** Dr. Daqing Hou

Office Manager Marie Barreto Merritt

**Sr. Staff Specialist**Denise Stade

**Staff Assistant** Lauren McQueen

**Undergrad Program Coordinator**Dr. Andy Meneely

UG Academic Advisors Carrie Koneski Sarah Mittiga Joe Rozak







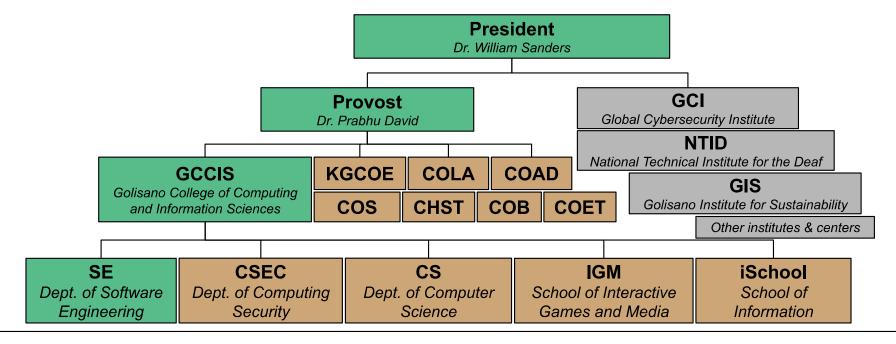


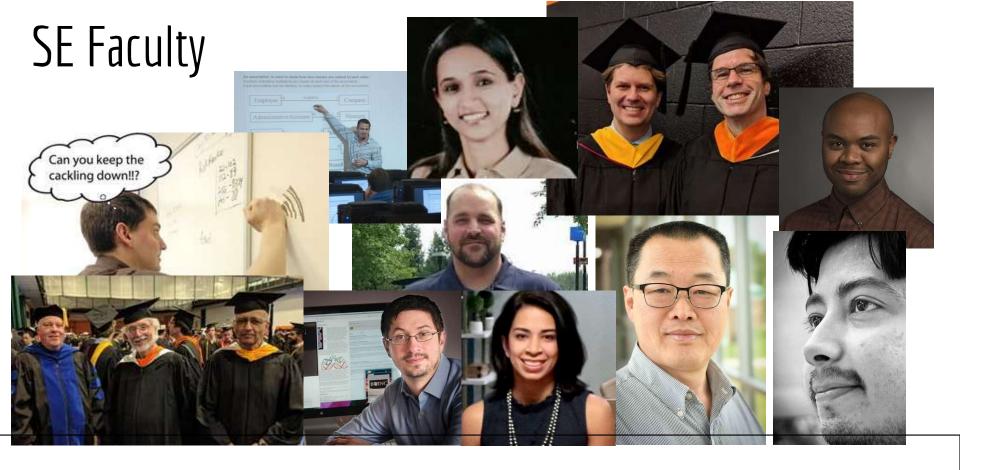


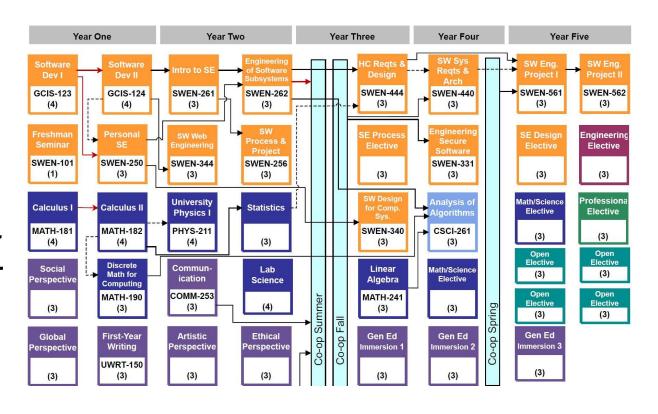




# RIT Organization







#### The Flowchart

#### The 3 Eras

#### Pre Co-op Era

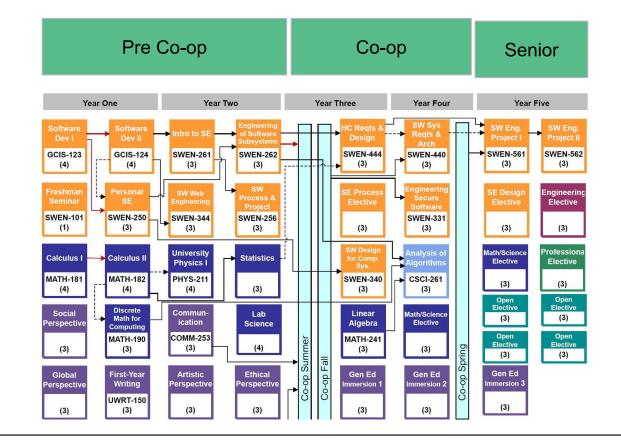
- Foundational courses
- C- or better on SWEN-262

#### Co-op Era

- Upper class courses
- Electives
- Co-op: 2 semesters, 1 summer

#### Senior Era

- Co-op completed
- Senior project
- Electives



# SE == Making Things

GCIS-123/4 Software Development I/II

SWEN-250 Personal SE

SWEN-261 Intro to SE

SWEN-262 Eng. of Software Subsystems

SWEN-256 SW Process & Project Management

SWEN-344 Web Engineering

Co-op

SWEN-331 Engineering Secure Software

SWEN-440 SW Requirements & Architectures

SWEN-444 Human-Centered Requirements & Design

SWEN-340 SW Design for Computing Systems

SWEN-561/2 SW Engineering Project I/II

Make **small** things

Make things **pragmatically** 

Make a thing with people

**Design** things to be made

**Organize** people to make things

Make **full-stack** things

**Practice** making things

**Defend** the things you make

Make **big** things

Make things for **humans** 

How things **really work** 

Do **all** the things

### **Unsolicited Wisdom**

### Software Development vs. Programming

"I have been programming since I was 1 month old, why do I need this course??"

• Great! Then GCIS-123 or GCIS-127 might be easy...

...but...

- syntax != software development
- Software development is a *practice* that needs *honing* (marathon runners don't say "I already know how to run!")
- Coding as a hobby does NOT emphasize:
  - Writing maintainable code
  - Working under tight deadlines
  - Finishing.

#### Computers are Isolating

- Few people *in the world* will understand what you do
  - Computers are relentlessly, stupidly precise
  - You're still learning technical communication
- You will feel isolated
  - o "I'm the only one struggling with this"
  - "Everyone else knows what to do except me"
  - "Real programmers wouldn't have to google this"
- What do you do?
  - Step back.
  - Rubber ducky debugging (explain to someone...anyone)
  - Talk to teammates
  - Talk to Course Assistant (CAs)
  - Visit Society of Software Engineers (SSE)
  - Talk to Academic Advisors
  - o Talk to your instructor, other SE Faculty
  - Use CaPS (rit.edu/counseling)

People are good at faking. You'd be surprised... Looking stuff up is not weakness



### The Best Software Engineers are...

- Imperfect
  - Less about avoiding making mistakes
  - More about recovering from mistakes made
- Tenacious troubleshooters
- Persevering
- Dependable colleagues
- Disciplined
  - Always thinking about their thinking
  - Always checking their work
  - o Practical mindset, from... practice

#### *Notice how I did NOT say:*

- Smart
- Loud
- Competitive
- Extraverted
- Best grades
- Proud
- Friends
- Leader
- Starting coding at the age of 2 or whatever
- Any gender, race, background, etc.

# 4 more tips

- 1. Read the syllabus.
- 2. Read the syllabus.
- 3. Read your emails, Slack, Discord, etc.
- 4. Read the syllabus.

# Getting connected

# FirstByte A first-year experience program



- FirstByte is a first year experience program designed to build a culture of inclusivity in the college, while introducing students to resources and skills to help their success at RIT.
- We'll have activities, events, and communications where you can connect with student clubs, key resources and more.



#### FirstByte Carnival: Thursday, August 22 2:30pm – 4:30pm

- In and around Golisano Hall & Cybersecurity wing
- Featuring many student clubs
- Games and prizes, carnival concessions, DIY crafts, bounce house, and more!
- And join our FirstByte Discord Community! The College of Computing FirstByte Server is a digital space for first-year students in college programs to meet classmates, stay updated on college happenings, find resources and connect

# Academic Advising at RIT

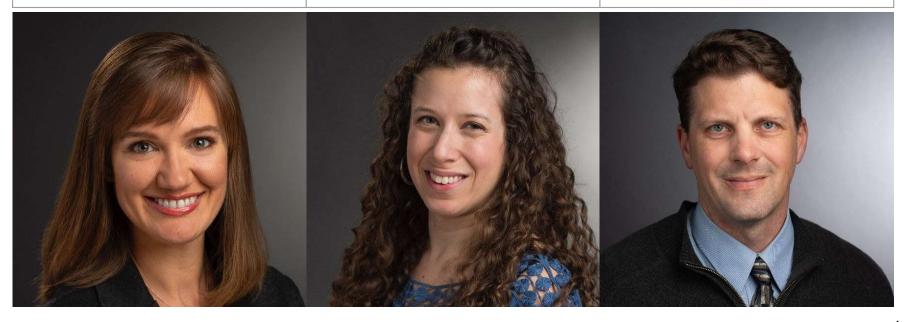
https://vimeo.com/1111052244?share=copy#t=0

#### Academic Advisors in SE

Carrie Koneski Sarah Mittiga A-G

H-L

Joe Rozak M-Z



#### Advising Roles

#### Your advisor's responsibilities

- Help with schedule & course plan
- Provide guidance to help you make informed decisions
- Help you focus toward your goals
- Be knowledgeable about campus resources
- Be accessible



#### **Your** responsibilities

- Be aware of the program's requirements
- Be proactive know when to ask for help
- Take responsibility for your actions & your education

# FERPA Confidentiality Law

- Federal restrictions on information shared about your academic record
- Advisors need <u>your permission</u> to discuss your record with your parents



- Email
- Open Advising Hours
- Appointments



1

- Email check RIT email daily!
- Open Advising Hours
- Appointments





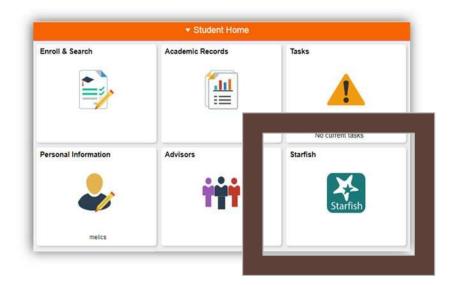
- Email
- Open Advising Hours Walk-ins for quick questions

Appointments

Check the Google Sheet for our hours!

Monday	Tuesday	Wednesday	Thursday	Friday	
Zoom only	Zoom only		Zoom only	Zoom only	
Carrie 10:30-11:30am		~	10:30-11:30am	10:30-11:30am	
	Zoom or In Person			Zoom or In Person	
Sarah ~	10:30-11:30am	~	~	10:30-11:30am	
	5	Zoom or In Person	Zoom or In Person	Zoom or In Person	
Joe ~	)e.	10:00-11:00am	10:00-11:00am	10:00-11:00am	
	Zoom only 10:30-11:30am	Zoom only   Zoom only   10:30-11:30am   10:30-11:30am     Zoom or In Person     10:30-11:30am	Zoom only   Zoom only   10:30-11:30am   ~	Zoom only   Zoom only   Zoom only   10:30-11:30am   10:30-11:30am   ~ 10:30-11:30am	

- Email
- Open Advising Hours
- Appointments:
  - Schedule through Starfish



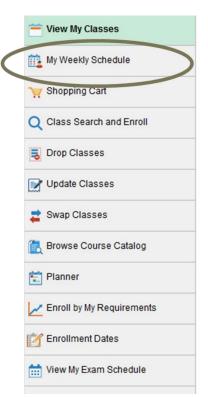


Understanding Your Fall Schedule

#### Fall Schedule

- Print-out in your folder
- Check SIS for up-to-date info





#### ~ Homework for Sunday night ~

Take a SCREENSHOT of your schedule



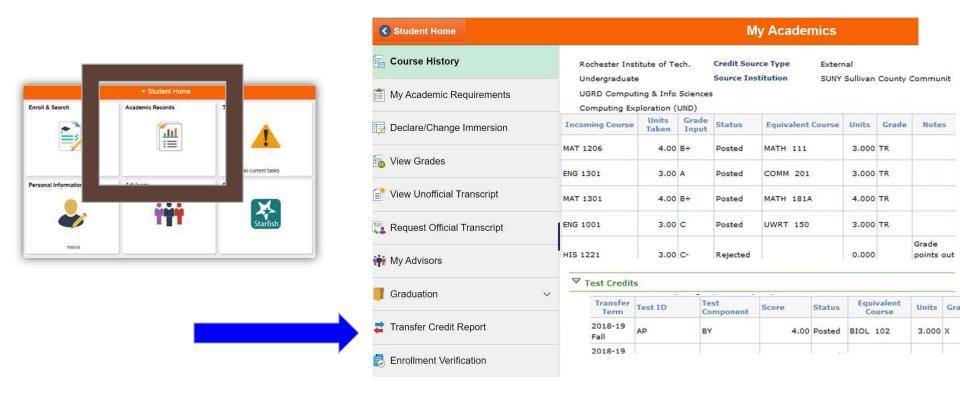
### Typical First-Semester Schedule

GCIS-123 or GCIS-127	Software Development	4 credit
MATH-xxx	Calculus or Discrete Math	3-4 credit
ACSC-78	Math Recitation  paired with MATH-171 based on MPE	0 credit
SWEN-101	SE Freshman Seminar	1 credit
YOPS-10	RIT 365	0 credit
	Gen Ed Perspective	3 credit
Gen Ed Perspective		3 credit

\*SE majors need Gen Ed Perspectives in these categories:

Artistic, Ethical, Global, Social

# Are my AP or transfer credits posted?



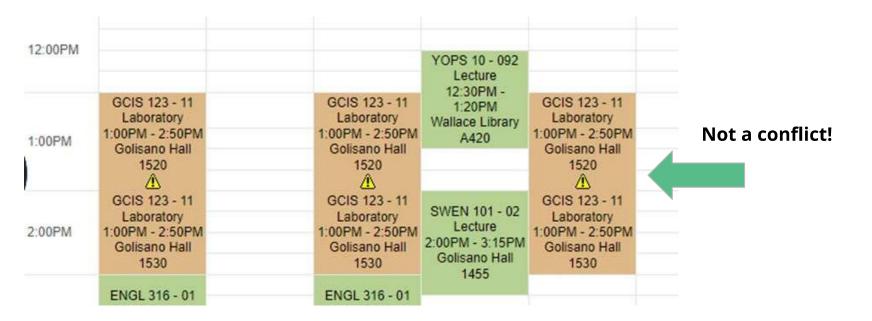
# Common schedule questions

#### What is this random course?

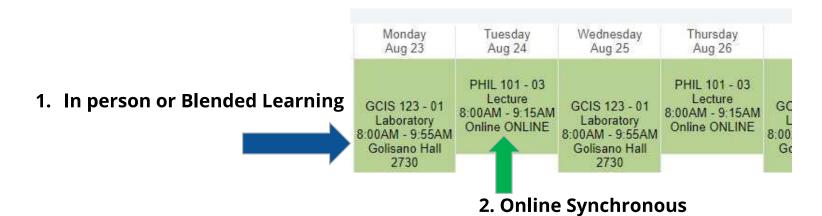
• SE majors need *Gen Ed Perspectives* in these categories: Artistic, Ethical, Global & Social



#### Why do I have a time conflict?



### Is this course online or in person?



#### 3. Online Asynchronous

SOCI( 102)-Foundations of Sociology	01(LEC)15897	0	80	73	Kijana Crawford	ТВА	Online

#### I'm in the Combined Accelerated Pathways program...

#### Is my schedule complete?

➤ Yes!

#### Is there anything I need to know now?

- > The 1st and 2nd year are the same for all students
- Courses may diverge in 3rd or 4th year. Planning will begin in Year 2!



#### How do my courses count toward my degree?

 Use Academic Requirements in SIS to track your progress, and see how your courses and transfer credits apply to your degree requirements



<

Wow. Great. I still have questions.

#### Enrollment Lab & Open Advising

#### **Today from 1:30 - 3 pm in GOL-1650**

- → For schedule changes & questions on Fall schedules
  - ◆ Learn to search, add, drop, swap & waitlist
  - 1:1 advising questions



**Optional** - If your Fall schedule is set, no need to attend!

#### Advising today - what to ask & what should wait?

Ask **TODAY** if it impacts your **Fall schedule**, such as:

- Schedule conflicts
- Enrolled in a course you already have AP or transfer credit for
- Concern about placement in Software or Calc sequences
- Issue with a disability accommodation

**WAIT** if it impacts a **future semester**, such as:

- Minors
- Double-majors
- Accelerated masters degree
- Co-ops
- Long term plans
- Study Abroad

### Add/Drop & Course Withdrawal

Add/Drop Period: Today through Tues, Sept 2, 2025 at 11:59pm

- Changes before add/drop deadline have no indication on your transcript
- Check with your advisor before changing any courses!

Withdrawal Period: September 3 - November 7, 2025

- Permanent W on academic transcript
- Will not affect GPA, but may impact financial aid or housing
- Talk with your advisor before withdrawing from a course



# Advising checkpoints this Fall

- SWEN-101 advisor visits
- Required Fall Advising meeting
- Reach out when you need us!



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# Q&A



#### Up next:

- Society of Software Engineers Activity: Now!
- **Lunch:** 12:30-1:30
  - Where: Crossroads follow the OL's
  - o How: Location is Cashless. Use your Meal Plan, Tiger Bucks, or Dining Dollars
  - Commuters & transfers: See Marie for a meal card
- Enrollment Lab & Advising 1:30-3:00
  - o GOL-1650
  - Optional





# Mentoring

Events

Projects



Networking

#### Come to SSE

- No need for appointment!
- Come in and work, ask questions when you have them!
- Mentoring hours: 10am-6pm
  - Volunteer mentors will be in the lab
  - Check out past tests to study
- Join our discord!

