

# UVA ENGINEERING ORIENTATION

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SUMMER 2023



**WHAT DO YOU HOPE TO GAIN FROM THIS  
SESSION?**



**WHY ARE WE HERE?**

**TO WELCOME, ENCOURAGE, AND VALIDATE  
YOU**

**STRATEGIES, RESOURCES FOR ACADEMIC  
SUCCESS**

**LEARNING > > >**

**WAYS TO GET INVOLVED OUTSIDE THE  
CLASSROOM**

**WHY DO YOU TAKE THE COURSES YOU DO?**

**GET TO KNOW YOUR FACULTY**

# **ENGINEERING DEGREE REQUIREMENTS**

## **COURSE ENROLLMENT BASICS**



# WHO ARE WE

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Lisa Lampe, Assistant Dean of Undergraduate Affairs

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Jesse Rogers, Registrar

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Will Guilford, Associate Dean for Undergraduate Affairs

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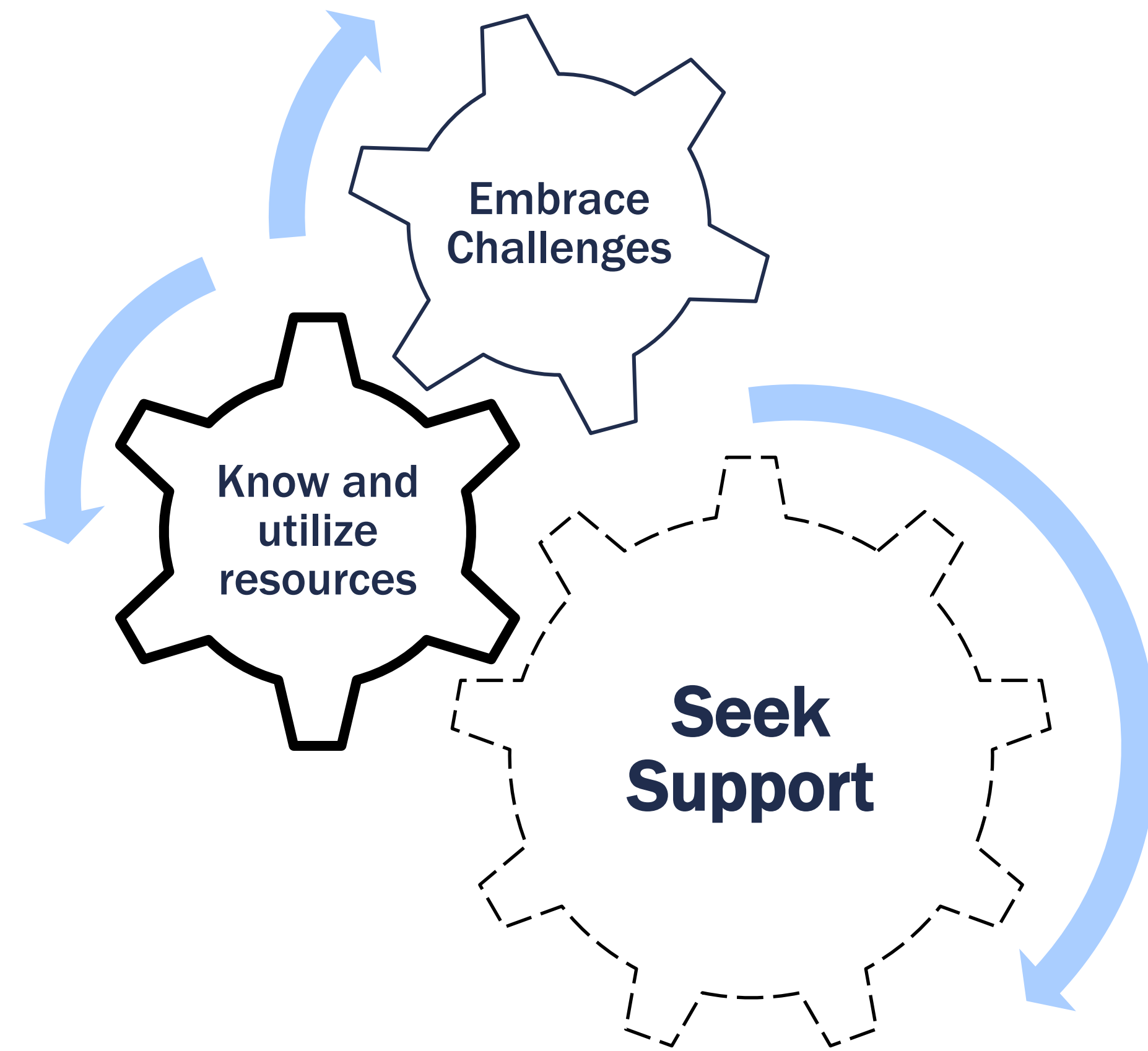
Kelly Garrett, Assistant Dean of Students

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# UNDERSTANDING SUCCESS

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# HOW DO YOU TYPICALLY WORK THROUGH ACADEMIC CHALLENGES?



# WORKING THROUGH CHALLENGES

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RECOGNIZE

• IT'S OK TO NEED HELP!

IDENTIFY  
RESOURCES

• ASSEMBLE YOUR SUPPORT TEAM

UTILIZE  
RESOURCES

• CONSISTENTLY ENGAGE

# BUILD YOUR SUCCESS TEAM

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**LET'S REFLECT**



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# GETTING TO KNOW YOUR FIRST-YEAR SCHEDULE

JESSE ROGERS, REGISTRAR

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# “STANDARD” FIRST SEMESTER CLASSES

Course Title		Subject & Course #	Credits
Applied Math (APMA)	Single Variable Calc I or Single Variable Calc II or Multivariable Calc III	APMA 1090*  APMA 1110  APMA 2120	4
	Intro to Chemistry	CHEM 1410	3
	Chemistry Lab	CHEM 1411	1
	Engineering Foundations I	ENGR 1010	4
	Humanities & Social Science Elective	HSS Elective	3

\* APMA 1090 Counts as a 3-credit unrestricted elective

# VARIATIONS ON “STANDARD” SCHEDULE

If you have credit for...	Consider replacing with...
Multivariable Calc III—APMA 2120	<ul style="list-style-type: none"> <li>•Higher math (determined by intended major)</li> </ul>
Intro to Chemistry—CHEM 1410	<ul style="list-style-type: none"> <li>•Introduction to Programming               <ul style="list-style-type: none"> <li>•Math &amp; Science Elective</li> </ul> </li> <li>•Physics I Lecture and Lab</li> </ul>
HSS Elective	<ul style="list-style-type: none"> <li>•Another HSS Elective</li> <li>•Unrestricted Elective</li> <li>•Introduction to Programming               <ul style="list-style-type: none"> <li>•Math &amp; Science Elective</li> </ul> </li> <li>•Student-Taught Classes (1501 Courses)</li> <li>•University Seminars</li> </ul>

# ELECTIVE OVERVIEW

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Elective	What counts?
HSS Elective	Courses that instill cultural values, explorations of society
Unrestricted Elective	Any graded course at the University •KLPA 1000-level courses do <u>not</u> count
Math & Science Elective	Short list of technical classes  •BIOL 2100: Cell Biology & Genetics with Lab •BIOL 2200: Organismal and Evolutionary Biology with Lab •CHEM 1420: Introductory College Chemistry II •PHYS 2620: Modern Physics •MSE 2090: Intro. Material Science •Any APMA course 2000 or higher not already required by a student's major and does not duplicate material from another APMA course •EVSC 2800: Fundamentals of Geology •EVSC 3200: Fundamentals of Ecology •EVSC 3300: Atmosphere and Weather

# STANDARD SECOND SEMESTER COURSES

Course Title	Subject & Course #	Credits	
Applied Math (APMA)	Single Variable Calc II or Multivariable Calc III	APMA 1110  APMA 2120	4
Engineering Foundations II	ENGR 1020	3	
General Physics I	PHYS 1425	3	
General Physics I Lab	PHSY 1429	1	
Introduction to Programming	CS 1110, 1111, or 1112	3	
Math and Science Elective	Varies	3	

# COMPUTER SCIENCE OPTIONS

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Considerations for Enrollment	Subject & Course #	Lecture Format	Lab Format
Open to students of all programming backgrounds	CS 1110	Three 50 minute lectures	One mandatory 75 min lab
Need <u>prior programming experience</u>	CS 1111	Two 75 min lectures	Open lab
Restricted to <u>no</u> programming experience	CS 1112	Three 75 min lectures	Built-in lab

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# WHY THESE COURSES?

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DEAN WILL GUILFORD



# COMPUTERS

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Either MacOS or Windows laptops are needed and acceptable for the first-year curriculum. After that, computer requirements vary somewhat by major.

**Therefore, we recommend if you have a functioning MacOS or Windows computer, then continue to use it at UVA for your first year. Good specifications are below.**

You may wish to purchase a new computer at the end of your first year when you have chosen your major. Consider purchasing through Cavalier.

- 64-bit operating system
- 4 GB or more of memory
- 1366 x 768 display, or better

LET'S RECAP



# IMPORTANT DEADLINES

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Deadlines	Date
Open Enrollment	Aug. 7
Course Add	Sept. 5
Non-Engineering Course Drop (includes CHEM/PHYS)	Sept. 6
Engineering Course Drop	Oct. 10
Withdraw	Oct. 17
Engineering Major Declaration	Mar. 1

# COURSE ENROLLMENT

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- Breakout Sessions
- <https://in.virginia.edu/sis-student>
- **DO NOT CHANGE YOUR PRE-ENROLLED COURSES! I REPEAT... DO NOT CHANGE YOUR PRE-ENROLLED COURSES!!!**



# UVA ENGINEERING SUMMER ORIENTATION WEBSITE



