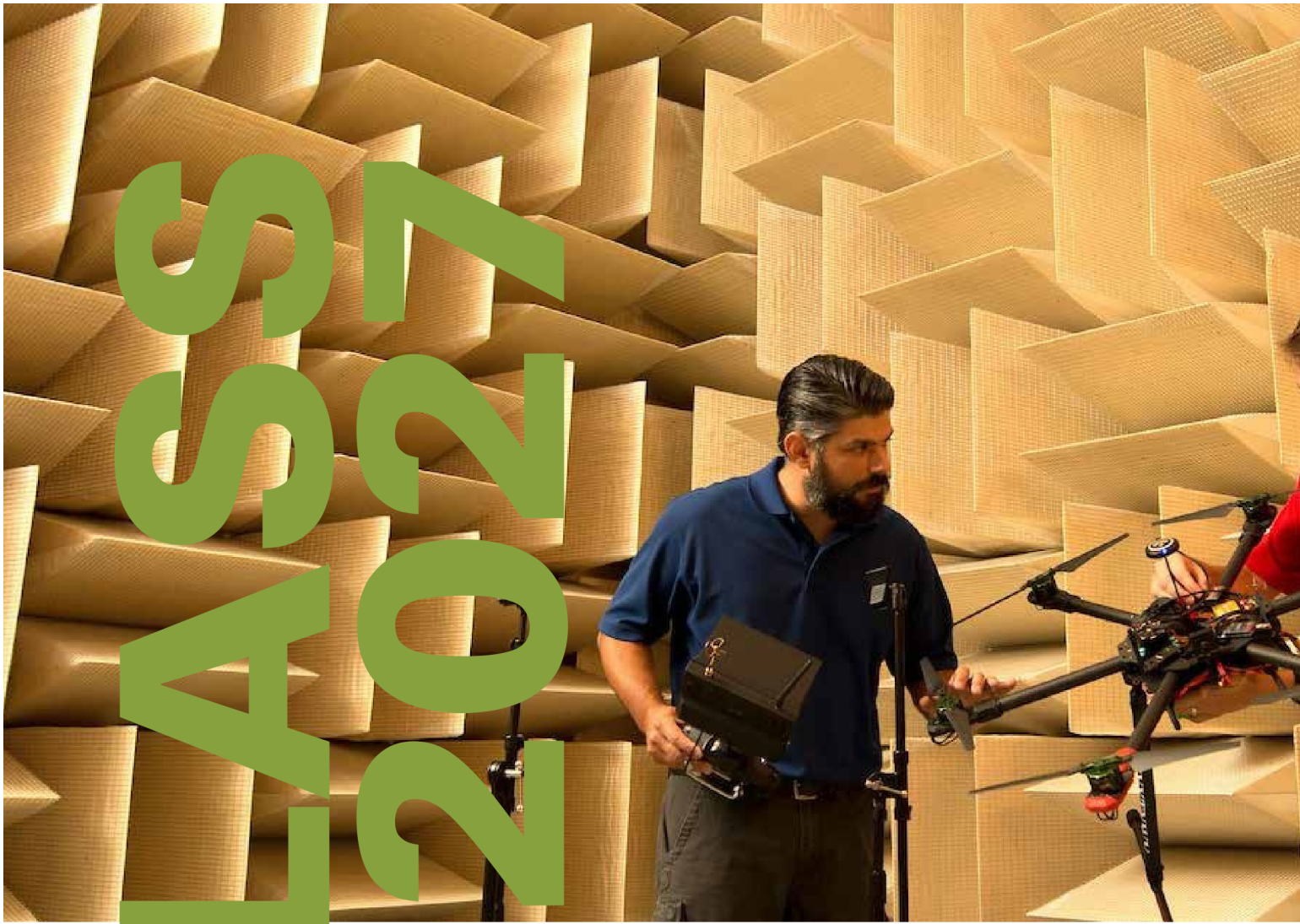


# CLASSES OF 2021

ENGINEERING FIRST YEAR  
NEW STUDENT ORIENTATION

2023





# STUDENT SUCCESS IS OUR NUMBER ONE

STUDENT SUCCESS  
— YOUR SUCCESS —  
IS OUR NUMBER  
ONE PRIORITY.



A man in a red polo shirt and khaki pants is standing in front of a large stack of cardboard boxes. He is holding a pair of scissors and appears to be cutting into one of the boxes. The boxes are stacked in a way that creates a series of peaks and valleys, filling the background.

# Welcome to New Student Orientation!

**Go ahead — give yourself a round of applause. You’ve** done a wonderful job in high school, excelling both inside and outside the classroom. Now, it’s time to begin the next chapter of your life as you pursue a degree in engineering at NC State.

From the moment you begin New Student Orientation to the time you turn your tassel at graduation, dedicated faculty and staff are here to remind you that your success is our number one goal. Our students don’t journey alone.

To get you started, we’ve filled this handbook with helpful resources, suggestions and answers to frequently asked questions. Please hold on to this packet and use it as a reference as you progress through your first year.

Inside, you will find information that will help you prepare for your first meeting with an advisor, identify questions that you should be asking and learn more about what to expect during your first year at NC State.

It may initially seem like you’re receiving an overwhelming amount of information; however, we encourage you to hang in there. Remember, we’ll be with you every step of the way.

We can’t wait to see how you’ll make a difference.

*The NC State Engineering Academic Affairs Team*



# ENGINEERING FIRST YEAR

## NEW STUDENT ORIENTATION

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# Welcome to NC State!



Welcome to NC State University and to the College of Engineering. You couldn't have arrived at a better time!

Engineers and computer scientists today are faced with countless challenges and opportunities. Securing a clean energy future, harnessing the power of artificial intelligence and building resilient infrastructure for our communities are some of the many areas we are working on here at NC State and even as an undergraduate student you will find opportunities to join these efforts.

As an emerging engineer or computer scientist here in the College, you are going to stretch and grow in unimaginable ways in the coming years. While you are on your journey with us, we are also here to help you with your own personal growth and goals. We join your family, teachers and friends who have helped get you to this day in celebrating your achievements and are eagerly looking forward to seeing you learn and grow into practicing engineers.

Our College has been built through the hard work, collaboration and generosity of thousands of alumni and faculty and staff members. We are so grateful for those cumulative efforts that have built traditions, community spirit and world-class educational programs and facilities making us one of the preeminent public colleges of engineering the country. Our College is celebrating its 100th anniversary in 2023 and you will soon see that we are taking time to honor the legacy of many of these past and present pioneers.

Above all else, I want you to know you belong here with us. It can sometimes feel overwhelming to learn about the students that came before you who have gone on to become CEOs, astronauts, and leading researchers. They have turned their ideas into life-changing products through undergraduate research and senior design projects. They study and serve abroad, representing the College and becoming globally-minded problem solvers. Never forget that each of them once sat where you sit today, that every great engineering story starts with a brand new student.

You have been accepted into one of the top colleges of engineering in the nation! Our faculty members are leading major federal research centers that are advancing artificial intelligence, making drones work better than ever, and revolutionizing agriculture to sustainably feed a growing population. If being in the middle of this kind of important work sounds like fun, you have come to the right place.

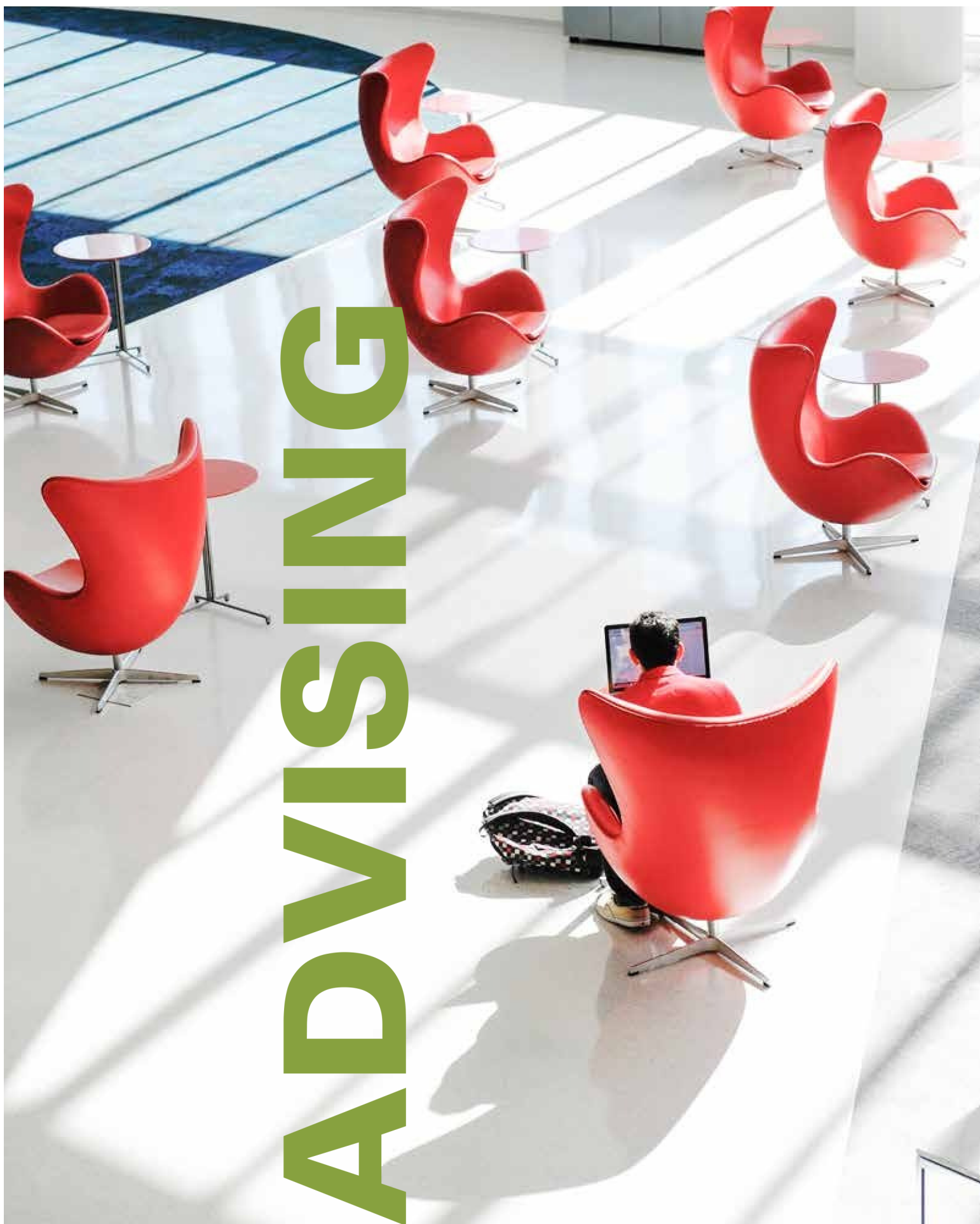
In your time with us here at NC State, you will learn to think about the world in entirely new ways. This journey is not easy, but it is absolutely worth the effort, intense studying with friends and teammates, and practicing new skills and techniques. In the midst of your hard work, never forget that while you are inevitably going to struggle, you are not alone and that nobody earns an engineering or CS degree without a good dose of wrestling with new concepts. Your determination, grit, and willingness to work hard got you here today! I'm certain it will be more than enough to help you finish the job and prepare you for whatever awaits you in the next phase of your life.

While you are here, I encourage you to enjoy everything that college life has to offer, including the chance to make lifelong friends. You have boundless potential and a whole world of possibilities ahead of you. Whether it is studying with friends at the amazing James B. Hunt Jr. Library or working on research projects in our labs on Centennial Campus, you are now part of one of the premier engineering programs in the world. From internships to study-abroad and service opportunities, your time on campus will hone your skills and transform you into a globally aware individual ready to tackle some of the world's biggest challenges. We can't wait to see what you are going to do!

Dean  
*Jim Pfaendtner, Ph.D.*



# ADVISING







# ACADEMIC ADVISORS

## **Aerospace Engineering**

*Cheryl Tran*  
*cheryl\_tran@ncsu.edu* ▪ 919.513.7687  
3205 Engineering Building III

## **Biological Engineering**

*Dr. Andy Hale*  
*andy\_hale@ncsu.edu* ▪ 919.515.6760  
108 Weaver Hall

## **Biomedical Engineering**

*Julia Rao*  
*jarao@ncsu.edu* ▪ 919.515.6726  
4016 Engineering Building III

## **Chemical and Biomolecular Engineering**

*Dr. Lisa G. Bullard*  
*lisa\_bullard@ncsu.edu* ▪ 919.515.7455  
2012 Engineering Building I

## **Civil Engineering**

*Rachael Ayres*  
*rjclark4@ncsu.edu* ▪ 919-515-1562  
3315 Fitts-Woolard Hall

## **Computer Engineering**

*Rachael Gruber*  
*rachael\_gruber@ncsu.edu* ▪ 919.515.5086  
3006 Engineering Building II

## **Computer Science**

*Ashley Hamilton*  
*alrose@ncsu.edu* ▪ 919.513.2711  
219C 111 Lampe Dr

## **Construction Engineering**

*Rachael Ayres*  
*rjclark4@ncsu.edu* ▪ 919-515-1562 3315  
Fitts-Woolard Hall

## **Electrical Engineering**

*Rachael Gruber*  
*rachael\_gruber@ncsu.edu* ▪ 919.515.5086  
3006 Engineering Building II

## **Engineering (General)**

*Dr. Mary Clare Robbins*  
*mrobbins@ncsu.edu* ▪ 919.515.3263  
Suite 414, 111 Lampe Dr

## **Environmental Engineering**

*Rachael Ayres*  
*rjclark4@ncsu.edu* ▪ 919-515-1562 3315  
Fitts-Woolard Hall

## **Industrial and Systems Engineering**

*Deanna Cardamone*  
*dagage@ncsu.edu* ▪ 919.515.5413  
4311 Fitts-Woolard Hall

## **Materials Science and Engineering**

*Hillary Stone*  
*hmstone2@ncsu.edu* ▪ 919.515.4683  
3002B Engineering Building I

## **Mechanical Engineering**

*Kyle McCraw*  
*kbmccraw@ncsu.edu* ▪ (919) 515-3241  
Engineering Building III (EB3) 3205

## **Nuclear Engineering**

*Lisa Marshall*  
*lisa.marshall@ncsu.edu* ▪ 919.515.5876  
3150 Burlington Labs

## **Paper Science and Engineering**

*Dr. Med V. Byrd Jr.*  
*med\_byrd@ncsu.edu* ▪ 919.515.5790  
2205 Biltmore Hall

## **Textile Engineering**

*Meggie Metcalf (last names A-C)*  
*meggie\_metcalf@ncsu.edu*

*Hannah Carter (last names D-M)*  
*hccarte2@ncsu.edu*

*Alyssa Jennings (last names N-Z)*  
*anjenni3@ncsu.edu*



# ASSIGNMENT OF ACADEMIC ADVISORS

- The College of Engineering seeks to assign advisors by early August. If you have questions between now and then, you can contact the appropriate coordinator of advising found on the previous page.
- Please note that you may request an advisor change as your interests evolve. Requests should be made only after you are confident in your decision.
- Academic advisors, once assigned, can be found within MyPack Portal on the Planning and Enrollment tab.
- General College of Engineering advisors are always available to assist you in 111 Lampe Hall, 919.515.3263, [engineering@ncsu.edu](mailto:engineering@ncsu.edu).
- Advisors are assigned based on your intended engineering major, as listed in your NC State application.
- Undecided students will see academic advisors in the College of Engineering's Academic Affairs department.

## THE ADVISING PROCESS

### STUDENT RESPONSIBILITIES

- Plan programs of study and meet graduation requirements (specifics to follow);
- Keep up to date with university, school and department curriculum requirements through materials available from faculty advisors, your departmental coordinator of advising and/or NC State's Registration and Records;
- Remain informed of academic deadlines and changes in academic policies as updated in the NC State policies, rules, and regulations website;
- Consult with advisors at each pre-registration period and other times as needed;
- Arrive at appointments prepared with any required paperwork/forms; and
- Check degree audits before and after enrollment and each semester to track progress through the degree.

### ADVISOR RESPONSIBILITIES

- Be available for conferences at appropriate times and places;
- Provide accurate information about academic regulations and procedures, course prerequisites and graduation requirements;
- Assist students in planning academic programs suited to their interests, abilities and career objective(s);
- Discuss with their advisees appropriate course choices in fulfilling curriculum requirements as well as possible consequences of alternative course choices;
- Inform their advisees when their proposed course selections conflict with university academic or curricular regulations;
- Assist advisees with following proper procedures or various exceptions (e.g., registering for more than 18 hours, repeating a course);
- Refer their advisees for special testing or counseling as needed; and
- Assist their advisees in considering the appropriateness of academic adjustments where these become necessary in cases of serious injury or illness.



# ACADEMIC ADVISING OPPORTUNITIES AND RESOURCES

## ACADEMIC ADVISING OPPORTUNITIES AND RESOURCES

### ■ Engineering First Year Advising and Registration Modules contain:

- Detailed advising information
- Frequently Asked Questions
- Student Help Forum

### ■ Live Virtual Question & Answer sessions with Academic Advisors (mid-June through mid-July)

### ■ Individual Academic Advisors will be assigned prior to the start of the fall semester

### ■ General Academic Advisors available anytime at **[engineering@ncsu.edu](mailto:engineering@ncsu.edu) or 919.515.3263**

Online Advising Resources: Virtual Advisor (general advising questions):  
[advising.dasa.ncsu.edu/advising/virtual-advisor](https://advising.dasa.ncsu.edu/advising/virtual-advisor)

Engineering Specific Advising questions contact your assigned academic advisor, Coordinator of Advising,  
or **[engineering@ncsu.edu](mailto:engineering@ncsu.edu) at any time.**



# DATA & REPAIRS



# CHECKLIST ■ FALL 2023

## July

- ☒ New Student Orientation
- ☐ Learn about your engineering program  
<https://www.engr.ncsu.edu/academics/undergrad/firstyear/>
- ☐ Register for fall classes  
<https://studentservices.ncsu.edu/calendars/academic/#fall>

## August

- ☐ Finalize your fall schedule
- ☐ Participate in Wolfpack Welcome Week
- ☐ Begin the first day of the fall semester
- ☐ Attend the Annual College of Engineering Welcome  
*(mandatory, unless class schedule conflict exists)*
- ☐ Join a student organization  
[getinvolved.ncsu.edu/organizations](http://getinvolved.ncsu.edu/organizations)
- ☐ Apply for Alternative Service Break  
<https://sle.dasa.ncsu.edu/alternative-service-break/>

## September

- ☐ Apply for externships  
[careers.ncsu.edu](http://careers.ncsu.edu)
- ☐ Drop by the Academic Success Center  
<https://asc.dasa.ncsu.edu/>
- ☐ Apply to study abroad for the Summer  
[studyabroad.ncsu.edu](http://studyabroad.ncsu.edu)
- ☐ Begin CODA application
- ☐ Attend the NC State Engineering Career Fair  
[engr.ncsu.edu/careerfair/students/](http://engr.ncsu.edu/careerfair/students/)

NO CLASSES: LABOR DAY

## October

- ☐ Apply for an internship and/or Co-op  
[careers.ncsu.edu](http://careers.ncsu.edu)
- ☐ Participate in an externship
- ☐ Seek academic advising for spring
- ☐ Pre-register for spring classes
- ☐ Drop / revision deadline (if necessary)  
[studentservices.ncsu.edu/calendars/academic](http://studentservices.ncsu.edu/calendars/academic)

NO CLASSES: FALL BREAK

## November

- ☐ Apply for the Caldwell Fellows Program
- ☐ Submit CODA application (by Dec. 1)  
[www.engr.ncsu.edu/academics/undergrad/coda](http://www.engr.ncsu.edu/academics/undergrad/coda)

NO CLASSES: THANKSGIVING

## December

- ☐ Apply for an on-campus job
- ☐ Apply to the Engineering Ambassadors team  
[www.engr.ncsu.edu/academics/undergrad/engineering-ambassadors](http://www.engr.ncsu.edu/academics/undergrad/engineering-ambassadors)
- ☐ Apply for College of Engineering scholarships  
[www.engr.ncsu.edu/academics/undergrad/scholarships](http://www.engr.ncsu.edu/academics/undergrad/scholarships)
- ☐ Review exam calendar  
[studentservices.ncsu.edu/calendars/exam](http://studentservices.ncsu.edu/calendars/exam)

**\*\*Dates/information are subject to change; please check departmental websites for the most up to date information.\*\***

# KEY TERMS

## AUDIT

A grading option that allows you to sit in on a class; results in an AU (audit) or NR (no recognition) grade on your transcript; under no circumstance will an audited course count toward any degree requirement.

## C WALL

Courses identified as “C wall” must be completed with a C or better.

## C-WALL

Courses identified as “C minus wall” must be completed with a C- or better.

## CENSUS DATE

Last day to add a course (requires instructor permission). Last day for tuition refunds due to dropping a course or changing from credit to audit. Last day for undergraduate students to drop below 12 hours or to drop a course without a W grade. This date is the 10th day of classes for fall/spring and the 3rd day of classes for summer sessions.

## CHANGE OF DEGREE APPLICATION (CODA)

The process by which a student applies to change their major.

## COREQUISITE

A course that must be taken simultaneously (or prior to) another course; for example, E 115 and MA 141 are corequisites of CSC 111 (Python), meaning that a student must take E 115 and MA 141 either concurrently or prior to starting CSC 111.

## COURSE / SECTION RESTRICTIONS

Criteria limiting who can enroll in certain classes/sections of a course; for example, STS 302H in the fall semester is restricted to Benjamin Franklin Scholars. In MyPack Portal, click on the “i” in the blue circle for more information on how the course is restricted.

## CREDIT HOUR

A measure of the academic “value” of a course; to be full-time, a student must be enrolled in 12 credit hours per semester; to be in compliance with the university’s Progress Toward Degree policy, students are encouraged to enroll in a minimum of 15 credit hours toward their degree every fall and spring semester.

## CREDIT ONLY

A grading option that allows you to earn satisfactory/unsatisfactory (S/U) instead of a letter grade; courses taken as credit only do not affect your NC State GPA. Within engineering curricula, only E 115 and HES (physical education) courses may be taken as credit only and still count toward degree requirements. Consult an advisor before switching to credit-only grading.

## DEGREE AUDIT

A personal record of your progress toward graduation; the listing includes courses that are complete (denoted with a green check), in progress (denoted with a yellow diamond), planned (denoted with a blue star), and not yet complete (denoted with a red x).

## ENGINEERING AMBASSADOR (EA)

Upper-class engineering students who support the College of Engineering. Ambassadors may serve as co-presenters at College information sessions or host at the College’s Explore Engineering events; all sections of E 101 will have Engineering Ambassadors serving as teaching assistants (TA).

## ENGINEERING FIRST YEAR (EFY)

All incoming freshmen are designated as EFY students until they CODA to join an engineering department; you may only remain an EFY student for a maximum of four semesters before joining a department.

## ENROLLMENT DATE

The earliest date and time that a student may register for courses for the upcoming semester(s); plan to meet with your advisor prior to your enrollment date (listed in MyPack Portal).

## GENERAL EDUCATION PROGRAM (GEP)

Courses that fulfill University graduation requirements; categories include math, science, humanities, social sciences, interdisciplinary perspectives, English composition, foreign language, and health / exercise sciences (PE). A summary of GEP options available to engineering students can be found in this booklet and online.

## MYPACK PORTAL

The online student information system where you can monitor your classes, grades, progress toward degree, financial aid, parental access, etc. Access MyPack portal at [www.ncsu.edu](http://www.ncsu.edu) by clicking on the red “Resources” tab at the top of the page.

## PREREQUISITE

A course that must be taken prior to another course; for example, MA 141 is a prerequisite to MA 241, meaning that a student must have already taken or have credit for MA 141 prior to starting MA 241.

## WAITLIST

A list of students waiting to gain entrance into a course; there is no guarantee of enrollment in the course.

## WITHDRAWAL

Withdrawing/dropping a course after census date will result in a “W” reported on transcript.





DEFENSE

# ENGINEERING DEPARTMENTS, DEGREES AND CONCENTRATIONS

DEPARTMENT	DEGREE	CONCENTRATION (optional)	SPECIALIZATION
BIOLOGICAL AND AGRICULTURAL ENGINEERING (BAE)	Biological Engineering (BE)	<ul style="list-style-type: none"> <li>Agricultural</li> <li>Bioprocess</li> <li>Ecological</li> <li>Environmental</li> </ul>	
BIOMEDICAL ENGINEERING (BME)	Biomedical Health Sciences and Engineering (BHSE)		Medical Microdevices, Biosignals and Imaging, Rehabilitation Engineering, Regenerative Medicine, Pharmco Engineering
CHEMICAL AND BIOMOLECULAR ENGINEERING (CBE)	Chemical Engineering (CHE)	<ul style="list-style-type: none"> <li>Biomufacturing Science</li> <li>Biomolecular</li> <li>Honors</li> <li>Nanoscience</li> <li>Sustainable Engineering, Energy and Environment</li> </ul>	
CIVIL, CONSTRUCTION, AND ENVIRONMENTAL ENGINEERING (CCEE)	Civil Engineering (CE) Construction Engineering (CON) Environmental Engineering (ENE)		Civil - Coastal Engineering and Water Resources, Computing and Systems, Construction Engineering, Environmental Engineering, Geotechnical Engineering, Structural Engineering and Transportation Engineering
COMPUTER SCIENCE (CSC)	Computer Science (CSC)	<ul style="list-style-type: none"> <li>Artificial Intelligence</li> <li>Cybersecurity</li> <li>Game Development</li> </ul>	Security, Entrepreneurship
ELECTRICAL AND COMPUTER ENGINEERING (ECE)	Computer Engineering (CPE) Electrical Engineering (EE)	<ul style="list-style-type: none"> <li>Renewable Electric Energy Systems</li> </ul>	
FOREST BIOMATERIALS (FB)	Paper Science and Engineering (PSE)	<ul style="list-style-type: none"> <li>Paper Science Concentration</li> <li>Chemical Engineering Concentration</li> </ul>	
INDUSTRIAL AND SYSTEMS ENGINEERING (ISE)	Industrial Engineering (IE)		Health Systems (Certificate Program)
MATERIALS SCIENCE AND ENGINEERING (MSE)	Materials Science and Engineering (MSE)	<ul style="list-style-type: none"> <li>Biomaterials</li> <li>Nanomaterials</li> </ul>	
MECHANICAL AND AEROSPACE ENGINEERING (MAE)	Aerospace Engineering (AE) Mechanical Engineering (ME)		
NUCLEAR ENGINEERING (NE)	Nuclear Engineering (NE)		
TEXTILE ENGINEERING, CHEMISTRY AND SCIENCE (TECS)	Textile Engineering (TE) (concentration required)	<ul style="list-style-type: none"> <li>Chemical Processing</li> <li>Information Systems</li> <li>Product Engineering</li> </ul>	



# CHANGE OF DEGREE APPLICATION (CODA)

All first year students admitted to the College of Engineering enter as Engineering First Year (EFY) students. This designation allows students time to make an informed decision about which engineering majors they may like to pursue in the College.

EFY students are eligible to join an engineering department through the Change of Degree Application (CODA) process

after they have completed the required courses. Students earning the minimum grades listed below and meeting other EFY program and University requirements are guaranteed a seat in one of the engineering departments at NC State. All programs will review academic performance in determining CODA admissions.

## OFFICIALLY JOINING A DEPARTMENT

### STEP 1: COMPLETE REQUIRED COURSES

<b>CH 101 + 102</b>	<b>C or better</b>
<b>MA 141</b>	<b>C or better</b>
<b>MA 241</b>	<b>C or better</b>
<b>PY 205 + 206</b>	<b>C or better</b>
<b>ENG 101</b>	<b>C- or better</b>
<b>E 101</b>	<b>C- or better</b>
<b>E 102*</b>	<b>C- or better</b>
<b>E 115</b>	<b>S</b>

**ACADEMIC  
PERFORMANCE**

### STEP 2: APPLY FOR A SEAT IN A DEPARTMENT

[www.engr.ncsu.edu/academics/undergrad/coda](http://www.engr.ncsu.edu/academics/undergrad/coda)

# COURSES





# FALL SCHEDULE

Generally speaking, an EFY student's fall semester will include:

ENGINEERING (E 102)	= 2 credits <i>(must be taken in the fall)</i>
MATH (MA —)	= 4 credits
CHEMISTRY (CH —) OR PHYSICS (PY —)	= 4 credits
ENGLISH (ENG 101) OR [ECONOMICS (EC —) AND 115]	= 4 credits
GENERAL EDUCATION PROGRAM (GEP)	= 3 credits
SPECIAL GROUP COURSE (EXAMPLES: USP, HON, MUS, USC, STS)	
SPECIAL INTEREST COURSE (EXAMPLES: FL, HES —)	
<b>GOAL = 15-17 credits</b>	

[www.engr.ncsu.edu/academics/undergrad/firstyear/common-first-year-efy](http://www.engr.ncsu.edu/academics/undergrad/firstyear/common-first-year-efy)

While the College of Engineering has attempted to select and enroll students in the appropriate courses for the fall, each student is responsible for making their own schedule. *Since all engineering degrees require the courses below, this is a great place to start when evaluating your fall schedule.*

E 101 Introduction to Engineering and Problem Solving *(must be taken in the spring)*  
 E 102 Engineering in the 21st Century *(must be taken in the fall)*  
 E 115 Introduction to Computing Environments  
 ENG 101 Academic Writing and Research  
 CH 101 Chemistry: A Molecular Science  
 CH 102 General Chemistry Laboratory  
 MA 141 Calculus I  
 MA 241 Calculus II  
 MA 242 Calculus III  
 PY 205 Physics for Engineers and Scientists I  
 PY 206 Physics for Engineers and Scientists I Laboratory  
 PY 208 Physics for Engineers and Scientists II  
 PY 209 Physics for Engineers and Scientists II Laboratory  
 GEP courses  
*(includes economics)*

**Virtual Advising  
Resources (General  
Advising Questions):**  
[advising.dasa.ncsu.edu/](http://advising.dasa.ncsu.edu/)  
[advising/virtual-advisor](http://advising/virtual-advisor)

**Engineering Specific Advising questions?**  
 Contact your assigned academic advisor,  
 Coordinator of Advising, or  
[engineering@ncsu.edu](mailto:engineering@ncsu.edu) at any time.

# ENGINEERING

## E 101, E 102 AND E 115

### E 101 – Intro to Engineering and Problem Solving

You **must** take this course during the spring semester. You should be enrolled in a lab and practicum.

### E 115 – Intro to Computing Environments

An eight-week, hybrid course taken for “credit only” (pass/fail) grading. Corequisite for computer science courses. Credit-by-exam offered early in the semester.

[go.ncsu.edu/e115](http://go.ncsu.edu/e115)

### E 102 – Engineering in the 21 Century

You **must** take this course during the fall semester. This course meets the Interdisciplinary Perspectives General Education Program requirement.

[www.engr.ncsu.edu/academics/undergrad/firstyear](http://www.engr.ncsu.edu/academics/undergrad/firstyear)

# FIRST-YEAR WRITING PROGRAM

## ENG 101

All NC State students must take ENG 101 – Academic Writing and Research, have transferable credit or have received credit by having sufficient scores via the following exams: SAT Critical Reading, the ACT Reading, ACT English, AP Language and Composition, or IB English A (Higher Level): Literature & Language or IB English A (Higher Level): Literature along with IB diploma.

Review the charts below to determine your English Composition placement and credit information.

Exam	Score	Credit Awarded (CR)
New SAT-Reading Test	39-40	ENG 101
ACT English	≥ 33 English	ENG 101
AP English Language and Composition	5	ENG 101
International Baccalaureate - English A2 (Higher Level): Language & Literature	4-7	ENG 101
North Carolina Community Colleges	Any two of the following: ENG 111, ENG 112, ENG 113, or ENG 114	ENG 101

Click here to submit IB diploma [english.chass.ncsu.edu/undergraduate/first\\_year\\_writing/fy\\_writing\\_placement.php](http://english.chass.ncsu.edu/undergraduate/first_year_writing/fy_writing_placement.php)

# CHEMISTRY

## CH 101 AND CH 102

The Department of Chemistry requires that all students demonstrate their chemistry background before being allowed to enroll in CH 101 – Chemistry: A Molecular Science. Most students are required to demonstrate their preparation for CH 101 with the NC State Chemistry Placement Exam (CPE). **A student may not enroll in CH 101 without taking the CPE.** Chemistry credit and placement information can be found in the chart below.

### *Not sure?*

Students with transferable or AP credit for CH 101 do not need to take the exam if they do not intend to enroll in CH 101 at NC State.

Exam	Score	Credit Awarded (CR)	Enrollment Option(s)*	CODA Credentials CH 101	CH 102
NC State Chemistry Placement Exam (CPE)	CPE < 15	—	enroll in CH 111	—	—
	15 ≤ CPE ≤ 18	—	enroll in CH 101+102 (reduced load)	—	—
	CPE ≥ 19	—	enroll in CH 101+102	—	—
AP Chemistry	1	—	—	—	—
	2	—	—	—	—
	3	CH 101+102	consult advisor	C+	A
	4	CH 101+102 CH 201+202	consult advisor	B	A
	5	CH 101+102 CH 201+202	consult advisor	A	A
IB Higher Level Chemistry	5	CH 101+102	consult advisor	C+	A
	6	CH 101+102 CH 201+202	consult advisor	B	A
	7	CH 101+102 CH 201+202	consult advisor	A	A
North Carolina Community Colleges	CHM 115	CH 101	consult advisor	CHM 115 grade	—
	CHM 131+131A	CH 101+102	consult advisor	CHM 131 grade	CHM 131A grade
	CHM 135	CH 101+102	consult advisor	CHM 135 grade	A
	CHM 151	CH 101+102	consult advisor	CHM 151 grade	A

\*You may decline higher placement and enroll in a lower level.

[www.ncsu.edu/chemistry/classes/cpe.html](http://www.ncsu.edu/chemistry/classes/cpe.html)



# MATH

## MA 141, MA 241 AND MA 242

The Department of Mathematics requires that all students demonstrate their math proficiency before being allowed to enroll in a math course at NC State. Students may demonstrate proficiency with the following

- A score of 2 or better on the College Board AP Calculus exam
- Transferable math credits that serve as the necessary prerequisites
- The ALEKS Placement test (available online)

Math credit and placement information can be found in the chart below. If you do not have a math indicator, you will not be allowed to register for a math course, which could result in a math placement not representative of your ability. The delay may also impede the formation of your fall schedule.

### ***Need more information about math classes?***

Visit for more information about math courses and support resources available.

[math.ncsu.edu/courses](http://math.ncsu.edu/courses)

Exam	Score	Credit Awarded (CR)	Enrollment Option(s)*	CODA Credentials MA 141	MA 241
<b>ALEKS Placement Assessment</b>	0-60	—	enroll in MA 107	—	—
	61-75	—	enroll in MA 111	—	—
	76-100	—	enroll in MA 141	—	—
<b>AP Calculus AB</b>	1	—	—	—	—
	2	—	enroll in MA 141	—	—
	3	—	enroll in MA 141	—	—
	4	MA 141	enroll in MA 241	B	—
	5	MA 141	enroll in MA 241	A	—
<b>AP Calculus BC</b>	1	—	—	—	—
	2	—	enroll in MA 141	—	—
	3	MA 141	enroll in MA 241	(or MA 241 grade, whichever is higher)	—
	4	MA 141+ MA 241	option 1: enroll in MA 241	A- (or MA 241 grade, whichever is higher)	—
			option 2: enroll in MA 242	A-	C+ (or MA 242 grade, whichever is higher)
	5	MA 141+ MA 241	enroll in MA 242	A	A
<b>IB Higher Level Math</b>	5	MA 141	enroll in MA 241	C+	—
	6	MA 141	enroll in MA 241	B	—
	7	MA 141	enroll in MA 241	A	—
<b>North Carolina Community Colleges</b>	MAT 271	MA 141	enroll in MA 241	MAT 271 grade	—
	MAT 272	MA 241	enroll in MA 242	MAT 271 grade (or AP/IB score if applicable)	MAT 272 grade
	MAT 273	MA 242	consult advisor	MAT 271 grade (or AP/IB score if applicable)	MAT 272 grade (or AP/IB score if applicable)

[math.sciences.ncsu.edu/mathplacement](http://math.sciences.ncsu.edu/mathplacement)

*\*You may decline higher placement and enroll in a lower level.*

# PHYSICS

## PY 205 + 206 AND PY 208 + 209

Exam	Score	Credit Awarded (CR)	Enrollment Option(s)*	CODA Credentials PY 205	CODA Credentials PY 206
<b>AP Physics C: Mechanics</b>	1	—	enroll in PY 205 + 206	—	—
	2	—	enroll in PY 205 + 206	—	—
	3	—	enroll in PY 205 + 206	—	—
	4	PY 205 + 206	enroll in PY 208 + 209	B	A
	5	PY 205 + 206	enroll in PY 208 + 209	A	A
<b>AP Physics C: Electricity and Magnetism</b>	1	—	enroll in PY 205 + 206	—	—
	2	—	enroll in PY 205 + 206	—	—
	3	—	enroll in PY 205 + 206	—	—
	4	PY 208 + 209	enroll in PY 205 + 206	—	—
	5	PY 208 + 209	enroll in PY 205 + 206	—	—
<b>IB Higher Level Physics</b>	5	—	enroll in PY 208 + 209	—	conditional A
	6	—	enroll in PY 208 + 209	—	conditional A
	7	—	enroll in PY 208 + 209	—	conditional A
<b>North Carolina Community Colleges</b>	PHY 251	PY 205 + 206	enroll in PY 208 + 209	PHY 251 grade	PHY 251 grade
	PHY 252	PY 208 + 209	enroll in PY 205 + 206 (if still needed)	—	—

\*You may decline higher placement and enroll in a lower level.

\*MA 141 is a prerequisite for enrollment in PY 205 + 206. MA 241 and PY 205 + 206 are prerequisites for enrollment in PY 208 + 209.

[www.physics.ncsu.edu/undergraduate](http://www.physics.ncsu.edu/undergraduate)

# REQUIREMENTS





# GENERAL EDUCATION PROGRAM (GEP)

Every NC State student must complete the General Education Program (GEP) requirements. These courses are designed to offer graduates the opportunity to experience diverse and integrative disciplinary perspectives. GEP courses enhance intellectual engagement and prepare you for lifelong learning and the demands of professional careers. NC State's GEP is divided into several categories. However, within engineering degrees, courses within certain categories will already be selected. When College of Engineering faculty / staff refer to "GEP courses," they are referring to the sub-section of the GEP wherein engineering students have choices — a total of seven courses, labeled below ( ).

To see what courses are available in each GEP category visit the NC State GEP Course List at: [oucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements](https://oucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements).

# GENERAL EDUCATION PROGRAM (GEP)cont.

## Fall 2023 and After

CATEGORY	HOURS	NOTES
<u>Mathematical Sciences</u>	6	Math requirements are met via engineering requirements (MA 141 & 241)
<u>Natural Sciences</u>	7	Natural Science requirements are met via engineering requirements (CH 101/102 & PY 205/206)
<u>Humanities</u>	6	Selected courses must be from two different disciplines, up to 3 credit hours may come from the Visual and Performing Arts course list
<u>Social Sciences</u>	6	Selected courses must be from two different disciplines. One class must be EC 201, EC 205 or ARE 201.
<u>US Diversity, Equity, and Inclusion</u>	3	Note: This list is pulled monthly and will switch to a catalog link upon 2023-2024 catalog publication.
<u>Interdisciplinary Perspectives</u>	5	2 credit hours met by E102
<u>Health and Exercise Studies</u>	2	Must include one Fitness and Wellness HESF 100-level course
<u>Introduction to Writing</u>	4	Credit from ENG 101 with a C- or better
<u>Global Knowledge</u>	Co-requisite	-
<u>FLx 102 level proficiency</u>	-	-
<u>Communication in the Major</u>	-	Requirement fulfilled within the curriculum requirements
<u>Technology Fluency</u>	-	Requirement fulfilled within the curriculum requirements

To see what courses are available in each GEP category visit the NC State GEP Course List at: [ucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements](https://ucc.dasa.ncsu.edu/general-education-program-gep/gep-category-requirements).

# SPECIAL INTEREST COURSES

Some students may enroll in courses outside of their engineering degree requirements to fulfill requirements towards a minor, second major, or extracurricular activity such as music performance. We encourage students to plan these additional course requirements as early as possible and to speak with an academic advisor regarding any questions or concerns.

Engineering First Year students will be pre-registered for some common classes but will still make updates to their schedules including adding additional courses to achieve the recommended number of credit hours to make updates to their schedules including adding additional courses to achieve the recommended number of credit hours. Examples of possible updates might

include swapping your current calculus course for a lower level because you want to improve your understanding before moving on, or dropping chemistry (CH 101 and CH 102) because you received your AP Chemistry score of 3 or better. Examples of adding courses might include adding an HESF 100-level course as one of the required physical education courses or enrolling in a history course to satisfy one of the humanities requirements of the General Education Program (GEP).

Before classes start, you should aim to have 15-17 credit hours of appropriate courses in your fall semester. Review your degree audit after solidifying your schedule to be sure planned courses fulfill your expected requirements.

<b>USP 110</b>	<b>University Scholars Program (U.S.P.)</b>  <i>U.S.P. students are strongly encouraged to also enroll in an additional Honors / Scholars course (designated with an "H")</i>
<b>HON 202</b>	<b>University Honors Program (U.H.P.)</b>  <i>U.H.P. students <b>must</b> be enrolled in an HON seminar during their first semester</i>
<b>E 144</b>	<b>Women and Minority Engineering Programs (WMEP)</b>
<b>STS 302H</b>	<b>Benjamin Franklin Scholars Program</b>
<b>MUS 131</b>	<b>Marching Band</b>
<b>Q Courses</b>	<b>First Year Inquiry</b>  <i>Courses with a "Q" are inquiry courses that have small class sizes and are designed for easy discussion and active participation. Example: HI 205Q</i>



# FOREIGN LANGUAGE REQUIREMENT

All students at NC State must demonstrate competency at the Elementary II level in a foreign language (FL\* 102) as a requirement for graduation.

## Methods of demonstrating proficiency:

- At least 2 years/units of high school study of the same language with a C (77) or better
- NC State Foreign Language Placement Test
  - Chinese, French, German, Spanish and Latin -- available online at [https://apps.chass.ncsu.edu/placement\\_test/webc\\_ape/placement\\_test.php](https://apps.chass.ncsu.edu/placement_test/webc_ape/placement_test.php)
- For other languages — contact the Department of Foreign Languages and Literatures.
- Transferable foreign language credit from another institution
- Advanced Placement (AP) scores
- Non-native English speakers

**NOTE:** Students who do not meet the proficiency requirement should take a placement test to determine where they will start at NC State if they do not wish to begin at the introductory level of a language. If a non-native English speaker's degree audit still does not show Foreign Language Proficiency credit midway through the semester, the student should contact Dr. Scott Despain.

[fill.chass.ncsu.edu/undergraduate/placement.php](http://fill.chass.ncsu.edu/undergraduate/placement.php)

Dr. Scott Despain ▪ 319 Withers Hall ▪ 919.513.1482 ▪ [despain@ncsu.edu](mailto:despain@ncsu.edu)

# AP, IB AND TRANSFER CREDIT

Advanced Placement (AP) Credit [admissions.ncsu.edu/apply/credit-opportunities/advanced-placement-ap](http://admissions.ncsu.edu/apply/credit-opportunities/advanced-placement-ap)

International Baccalaureate (IB) Credit [admissions.ncsu.edu/apply/credit-opportunities/international-baccalaureate-ib](http://admissions.ncsu.edu/apply/credit-opportunities/international-baccalaureate-ib)

North Carolina Community College Equivalencies  
<https://transfer.ncsu.edu/transfer-agreements/>

North Carolina School of Science and Mathematics Articulation Agreement  
[www.acs.ncsu.edu/php/transfer](http://www.acs.ncsu.edu/php/transfer)

Additional Transfer Credits  
[www.acs.ncsu.edu/php/transfer](http://www.acs.ncsu.edu/php/transfer)

# OPPORTUNITIES



# CliftonStrengths®



## COMMON EXPERIENCE

Engineering First Year (EFY) students are encouraged to participate in the Clifton Strengths Assessment prior to the start of classes. More information about the Clifton Strengths will be provided by New Student Programs. Over 4000 members of the Wolfpack have taken the CliftonStrengths Talent Assessment!

## LIVING AND LEARNING VILLAGES

Villages are interest-based communities that engage students both inside and outside the classroom through partnerships. They enhance your learning experience by supporting and integrating students' academic and personal development. A rich variety of villages allows you to engage in active and collaborative learning with peers, faculty and staff. Formal and informal interactions foster a sense of community, creating an intellectually stimulating environment that sets the stage for your learning and success.

Visit <https://housing.dasa.ncsu.edu/residential-communities/living-learning-villages/> to see the full list.

ENGINEERING VILLAGE

ECOVILLAGE

WOMEN IN SCIENCE & ENGINEERING  
(WISE) VILLAGE

HONORS VILLAGE

Live, Learn and Achieve



# STUDENT COMPUTING

Nearly all incoming students are now bringing a wireless laptop. For additional information, see the website below.

[oit.ncsu.edu/my-it/hardware-software/your-computer](http://oit.ncsu.edu/my-it/hardware-software/your-computer)

Information Technology and Engineering Computer Services (ITECS)

Campus Box 7901 ▪ 204 Daniels Hall + 1002 Engineering Building I ▪ 919.515.2458 ▪ [soc-support@ncsu.edu](mailto:soc-support@ncsu.edu) ▪ [eoshelp@ncsu.edu](mailto:eoshelp@ncsu.edu)

# HIGH-IMPACT EXPERIENCES

High-Impact Activities are essential to your long term success. Get involved and make the most of your education, always remember: student success — your success — is our number one priority.

**WORK** ▪ **SERVICE** ▪ **RESEARCH** ▪ **INTERNATIONAL**



[studentinvolvement.dasa.ncsu.edu](http://studentinvolvement.dasa.ncsu.edu)

# FALL SCHEDULE REVIEW AND REGISTRATION PREPARATION

Your goal is to have 15 to 17 credit hours before the start of the semester and to have all of your questions answered prior to leaving orientation. If you have questions after orientation you can send your questions to [engineering@ncsu.edu](mailto:engineering@ncsu.edu) or contact your academic advisor.

**E102 is on my fall schedule:**

☐ Yes

☐ No, I will add it

**E 115 is on my fall schedule:**

☐ Yes

☐ No, I will attempt to add

☐ No, I plan to take in the spring

**ENG 101\* is on my spring schedule:**

☐ Yes

☐ No, I will attempt to add after July 1

*\*International students should enroll in FLE 101 as an ENG 101 substitution*

☐ No, I have credit

☐ No, I plan to take in the spring

**CH 101 & 102 are on my fall schedule:**

☐ Yes

☐ No, I have credit

☐ No, I will attempt to add after completing the Chemistry Placement Modules

☐ No, I am enrolled in CH 111

**The correct math course is on my fall schedule:**

☐ Yes

☐ No, I have earned credit for all possible math courses & do not wish to retake them

☐ No, I will add the correct course as soon as possible (after AP scores have been released, etc.)

**I currently have \_\_\_\_ credit hours on my schedule.**

**I need to add \_\_\_\_ number of credits to reach my desired course load of 15 to 17 credit hours.**

In addition to the courses mentioned above you may add General Education Courses (generally 3 credit hours) or

Health & Exercise Studies courses (generally 1 credit hour) to reach the recommended course load. If you have credit for MA 141 and are in need of credit hours you may consider adding PY 205 & 206 particularly if you have credit for CH 101 & 102 (please discuss with an advisor); we generally do not recommend taking two lab classes in the first semester.

Questions I would like to discuss with an advisor include:

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# SCHEDULING TIPS

You will have an opportunity to make changes to your fall schedule after you have completed the engineering advising tutorials available to you in Moodle and continuing until your first day of class. As you adjust your schedule based on the academic advising resources you have reviewed, your personal educational background and goals, and preferences regarding times, etc. we hope you will seek out resources when needed.

## WHO TO CONTACT:

- When a class requires “Departmental Approval Permission” to add = Call the department offering the class; contact information can be found on departmental websites.
- When a class requires “Instructor Approval / Permission” to add = Call or email the instructor teaching the course; contact information can be found on the NC State directory.
- When deciding whether to add or drop a class = if you have questions of this nature, you should contact your individual academic advisor; advisor assignments can be found in MyPack

## WHEN ADDING CLASSES:

- Keep in mind that you cannot have more than 18 credit hours in your schedule/shopping cart, including waitlisted courses.
- Adding CH 101 to your schedule? Ensure you are also adding CH 102 simultaneously (both classes must be in your shopping cart).
- Adding PY 205 to your schedule? Make sure you are also adding PY 206 at the same time (both classes must be in your shopping cart).
- Courses without a time listed or with a section number of 601 are distance education courses.
- Use your Degree Audit in MyPack Portal to see how your AP / Transfer / IB credits are counting toward your degree. Learn more about your Degree Audit here: [studentservices.ncsu.edu/your-degree/degree-planning/degree-audit](https://studentservices.ncsu.edu/your-degree/degree-planning/degree-audit).
- When Adding Classes: Hover over the “i” in the blue circle to determine if remaining seats in a class are restricted to certain types of students.

**Trouble getting one or two classes you want? Don't panic.** The registration system is dynamic and some seats will open as the summer progresses. Check the registration system regularly throughout the summer if you would like to make additional changes to your schedule after orientation. In particular, try checking for open seats the day after tuition is due.

## MAKING SCHEDULE ADJUSTMENTS:

- Do not drop a course for a new day/time adjustment; use the SWAP feature to make such changes. Watch the YouTube tutorial here: [youtu.be/k277rXykp4E](https://youtu.be/k277rXykp4E)
- Use your Degree Audit in MyPack Portal to see how your AP / Transfer / IB credits count toward your degree.
- If you know you have credit for a course and do not intend to retake it; please drop it to make room on your schedule and allow another student who needs the course to enroll.

## COMMON CONCERNS AND HELPFUL HINTS

- Health Exercise and Studies courses can be taken for pass/fail or credit-only grading.
- 400-level courses and beyond are for juniors and seniors and should not be taken in your first year.
- Completed most or all of your GEP requirements? Searching for more credit hours to add? Minors require at least 15 additional credit hours. Explore second majors, minors, and certificates offered at NC State at [advising.dasa.ncsu.edu/explore-majors-and-minors](https://advising.dasa.ncsu.edu/explore-majors-and-minors) to complement your engineering degree or to pursue other academic interests.
- There is no instructor listed for the course. When will you know who is teaching that course? Departments may not input instructors until classes start, as fall schedules for faculty are finalized. Do not let a lack of instructor within MyPack Portal prevent you from enrolling.
- You can walk anywhere on Main Campus in 15 minutes.
- You typically need 30 minutes to commute from Main Campus to Centennial Campus.



# FOLLOW THE COLLEGE



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# Engineer Your Experience (EYE) Program

Unlock Opportunities to Enhance Your Engineering Education

Engineer Your Experience (EYE) is an exceptional program exclusively designed for ambitious undergraduate engineering students at NC State University. It is a gateway to endless high impact experiences, empowering students to shape their engineering journey beyond the classroom. With a vibrant community and personal and professional growth opportunities, the EYE Program prepares students to become future leaders and innovators in the engineering industry, equipped to impact society positively.

The EYE Program supports your journey toward a well-rounded and impactful engineering education. We challenge you to take advantage of high-impact experiences that the EYE Program can support.

STUDENT DESIGN  
COMPETITIONS

GREEN ONLINE  
CERTIFICATE

STUDY ABROAD

CAREER  
DEVELOPMENT  
WORKSHOPS

ALTERNATIVE  
SERVICE BREAK  
(ASB)

TECHNICAL  
CERTIFICATIONS

PROFESSIONAL  
CONFERENCES

## REQUEST DEADLINES

### FALL SEMESTER: DECEMBER 1

*SUBMIT REQUESTS FOR EVENTS OCCURRING FROM THE FIRST DAY OF CLASSES  
THROUGH DECEMBER 31.*

### SPRING SEMESTER: APRIL 1

*SUBMIT REQUESTS FOR EVENTS OCCURRING FROM JANUARY THROUGH MID-  
SEPTEMBER.*

# Grand Challenges Scholars Program (GCSP)



The Grand Challenges Scholars Program (GCSP) is based on the National Academy of Engineering (NAE) grand challenges and is a multi-year, research-based program that is designed to prepare students to be 21st-century problem solvers. At NC State Engineering, the GCSP includes a multitude of unique experiences that combine coursework, research, extracurricular activities, internships, study abroad, and volunteer opportunities. The NC State Engineering GCSP leverages our engineering curriculum and programs, institutes and centers, as well as diverse experiences supported throughout and beyond our campus. These combined opportunities ensure that scholars achieve a rich portfolio centered upon a Grand Challenge that builds five Core Competencies.

The students' Area of Research focuses on one or more of the four pillars of the Grand Challenges:



# **Benjamin Franklin Scholars Program**



The Benjamin Franklin Scholars program, established at NCSU in 1990, is a program for students who want to pursue two degrees at the same time: a bachelor's degree in engineering and a bachelor's degree in humanities or social sciences (including economics). Students in our program have a passion for a broad education.

Most students join the program the summer before starting at NCSU.

An application can be found [here](#). Applications are due by August 1.

Information sessions will be held during New Student Orientation.

For questions, please get in touch with the program's director, Professor Ross Bassett [ross@ncsu.edu](mailto:ross@ncsu.edu)







### Orientation Parking

- 1 Lee Lot4 Fountain Dining Hall3 Lee Residence Hall
- 2 West Lot5 Talley Student Union5 Talley Student Union

### Orientation Dining

- Indicates Gate Access OnlyTalley Market (2nd Floor)9 Carmichael Gymnasium
- Port City Java (2nd Floor)10 Case Academic Center

### Orientation Sessions and Activities

### Student Services Offices

- 5 Talley Student Union
- Wolfpack One Card Office
- PNC Bank
- 6 Harris Hall - Student Services Center
- Registration and Records
- Cashier's Office
- Scholarships and Financial Aid
- 7 Pullen Hall
- University Housing
- 8 Campus Health Center
- Health Insurance
- Immunization Records

### Orientation Housing

- 3 Lee Residence
- Hall 11 North Hall

NC State University is dedicated to equality of opportunity. The University does not condone discrimination against students, employees, or applicants in any form. NC State University promotes equal opportunity and prohibits discrimination and harassment based upon one's age, color, disability, gender identity, genetic information, national origin, race, religion, sex (including pregnancy), sexual orientation and veteran status.



# Getting Around



## Wolfpack One Card

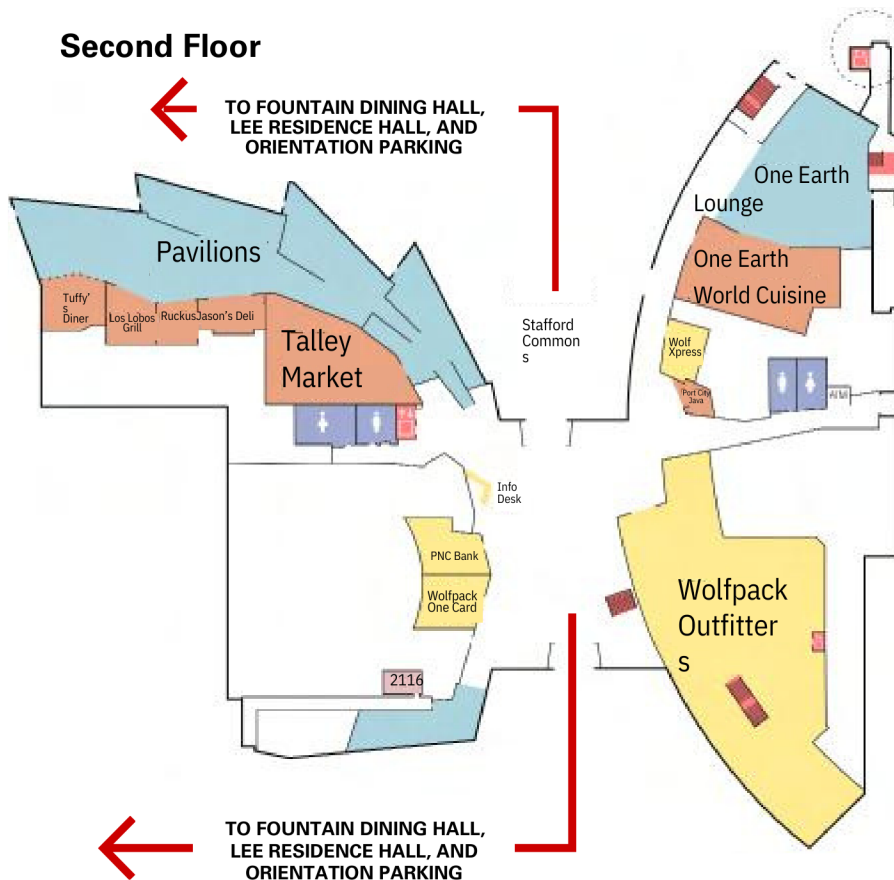
Your ticket to dining, recreation, and more

Stop by the Wolfpack One Card Office (main level lobby) with a government-issued ID during one of the following times to get your Wolfpack One Card student ID:

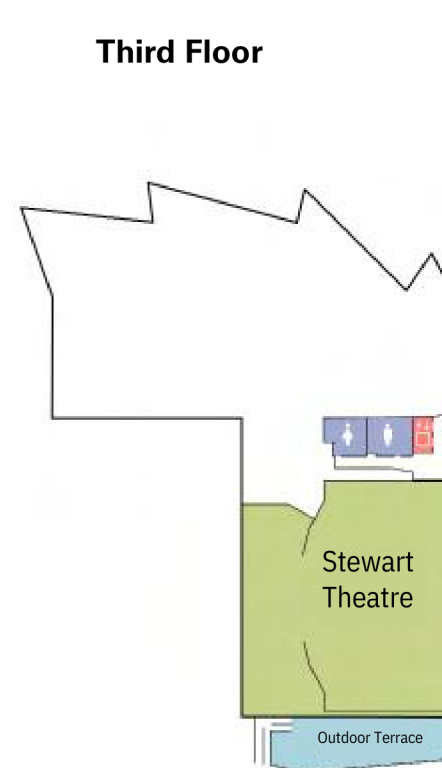
- › After you check in to Orientation
- › With your Orientation group during
- › Lunch When you return to campus in August

## Talley Student Union

### Second Floor



### Third Floor





**Taking Care of Business** If needed, submit verification forms to Scholarships and Financial Aid (#6 on back cover map).



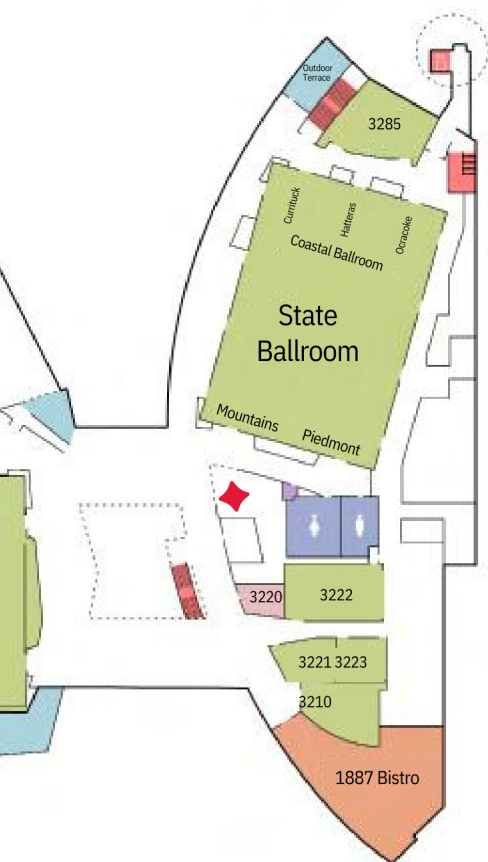
**Need a Pick Me Up?** Grab some coffee or a snack from Talley Market or Port City Java.



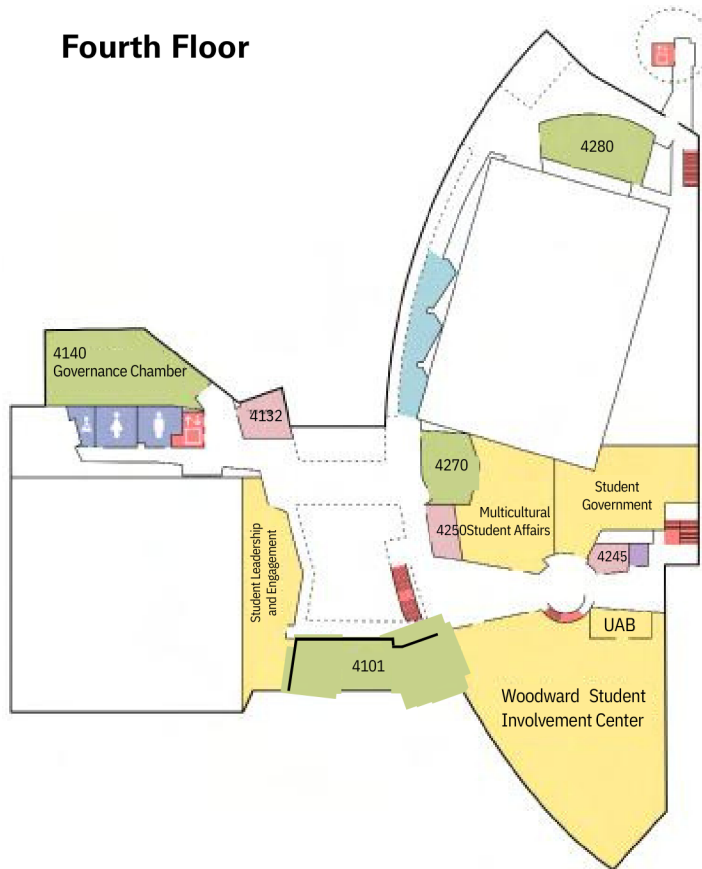
**Explore Campus** Check out the NC State sights around campus. Feel free to use the campus map provided on the back cover and visit some of NC State's most iconic spots like the University Plaza (commonly known as 'The Brickyard').



**Questions?** Stop by our Information Table in Talley Student Union to speak with a New Student Programs staff member.



## Fourth Floor



◆ **Orientation Information Table**

● **Student Services**

● **Dining**

● **Lounge**

● **Event Spaces**

● **Conference**

● **Restrooms**

● **Single**

● **Restroom Building Features**

**Occupancy**