RISE TO THE CHALLENGE

At Clemson University, students apply dynamic principles across disciplines to tackle the major issues of the 21st century.
Developing medicines, securing cyberspace, making solar energy cost-competitive, advancing technology, providing access to clean water, and ending extreme poverty and hunger are all vital goals that call for the best and brightest minds.

Clemson University’s College of Engineering, Computing and Applied Sciences is committed to producing outstanding graduates capable of improving the security, sustainability, health and joy of living both now and in years to come.

But top-ranked academics are just the beginning of building a brighter future.

Here you’ll find research opportunities, mentoring programs, study abroad, work experience and campus involvement are key to a vibrant undergraduate career. Here you’ll make meaningful connections that last a lifetime. Here you’ll always have a place to call home.

FROM LEARNER TO LEADER – GET READY TO MAKE AN IMPACT.
Advanced Scholarship

*U.S. News & World Report* ranks Clemson No. 23 on its list of best national public universities. Our dedication to student success in such a distinctive academic environment makes our alumni some of the most well-rounded visionaries and collaborators in their fields.

Experiential Learning

We encourage students to take the lessons they’ve learned here and put them to the test in real-life situations. By the end of their time at Clemson, undergraduates are prepared to showcase the kind of comprehension and skills that stand out in a competitive workplace.

Global Engagement

Clemson invests in student success at every turn through a wide array of educational, pre-professional, research, service-learning and cultural programs, all designed to nurture curiosity, creativity, understanding and accomplishment. We believe the pursuit of knowledge extends far beyond the classroom.
The General Engineering (GE) Advantage

Academic Advising: Dedicated advisers at the centralized GE advising center provide information, personal counseling, guidance and motivation in course selection, major choice, success strategies and study techniques tailored to individual needs.

Career Counseling: Faculty work closely inside and outside the classroom to help their students understand the challenge and satisfaction of an engineering career. GE students are exposed to all engineering disciplines at Clemson from both academic and professional perspectives.

Class Size: Small classes are a big difference between Clemson’s GE program and comparable programs at other major universities. Freshman engineering courses rarely exceed 50 students per section. We’ve found an intimate learning environment is critical to creating a successful student.

Your degree is your pathway to a career that makes a difference. And with so many exciting fields to choose from, it’s important to know what truly inspires you to be an engineer. That’s why Clemson’s General Engineering (GE) program begins with an exploration of the world of engineering.

Every student who plans to major in engineering starts with admittance into GE. You’ll spend your first year taking courses designed to bridge the gap between high school and college-level learning, while examining the ten undergraduate engineering disciplines offered at Clemson. Then you’ll determine which specialty best fits your talents and interests.

“The idea is to give students sufficient time to learn about each department so they can make a more informed decision for their future,” explains Ashley Childers, GE Lecturer and Course Coordinator. “There are no silos here — we build connections by collaborating in multidisciplinary teams.”

Childers knows the name of each new student in her class by the second week of the semester. She likes to play music during group work sessions and frequently circulates the round tables to troubleshoot problems and celebrate victories.

GE coursework is structured to shape students into more independent learners, laying the groundwork for extraordinary achievement in their future careers.

What You’ll Study

Here’s a preview of standard courses for first-year engineering majors:

- Engineering 1000 Major Discovery Seminar is an introduction to all the engineering majors offered by Clemson. You’ll learn about the engineering profession, best student practices and potential career paths through lectures and demonstrations given by faculty and industry professionals.

- Engineering 2200 Evaluating Innovation: Fixtures, Fads and Flops presents foundational theories used to critically analyze the success of consumer products and other technological innovations. You’ll think critically and gain exposure to entrepreneurship by examining case studies that exhibit the interactions between innovation and society.

“Expectations are high, but there are also opportunities to grow from mistakes,” says Childers. “Our professional advisers and undergraduate teaching assistants work closely with faculty to support students while still treating them like adults.”

For Childers, what makes teaching GE courses so rewarding are the lightbulb moments of discovery that students enjoy during their first year in Clemson’s engineering program.

She says, “The best part of my job is giving students the foundational tools to be successful throughout their time at Clemson and long after graduation.”

Not an engineer? Dive straight into your degree program.

If you’re interested in computing (computer information systems or computer science) or geology, you’ll be admitted directly into your major.

An assigned adviser in your department of interest will help you set academic goals and then map out a plan to reach them. Of course, you’ll still have access to the same level of attention and resources as GE students: leading faculty, elite facilities, advanced technology and relevant involvements that enrich your education.
Clemson is classified in the top tier for research activity with the R1 designation of “Doctoral Universities – Highest Research Activity,” per the Carnegie Classification of Institutions of Higher Education.

Hands-On Research

Creative Inquiry (CI) combines engaged learning and undergraduate research so that students can solve local, national and even international problems. Team-based investigations are led by a faculty mentor, but inquiries are often initiated by the students themselves. That means CI participants develop the ability to think critically, while honing important communication and presentation skills.

Research Experiences for Undergraduates (REU) are opportunities made available during the summer months. These research internships, often funded by the National Science Foundation or other public agencies, are a chance for students to get involved in innovative research projects and get paid for their work.

Senior Capstone, mentoring and paid lab work familiarize students with multiple departments, classmates and faculty, helping to shape the course of a student’s academic endeavors. And throughout the year, a variety of on-campus seminars and symposia are offered almost weekly, introducing students to scientists and engineers from around the country.

Collin Braeuning

Collin Braeuning went to his first meeting of The Design and Entrepreneurship Network (The DEN) for the free food when he was a freshman. He stayed for the passion he found there and now, two years later, serves as the program’s student leader.

Collin Braeuning

Computer engineering major

Breaking Stereotypes

Braeuning spends a lot of his time planning those meetings, setting up outreach events, and scheduling CEOs and other business leaders as guest speakers.

“I’m sure you know the stereotype that engineers aren’t good with people,” Braeuning said. “But I feel like if you have the technical knowledge combined with communication, business and entrepreneurship skills, that’s way more valuable than someone who would just sit behind a computer and program all day.”

Enter the Makerspace

Braeuning is dreaming big. One of his largest projects is a proposal to turn a soon-to-be-vacated bookstore into makerspace that would be furnished with equipment, such as 3D printers and laser cutters, that students could use to create new things.

“I hope you know the prototypes and the companies they had made, and I wanted to be part of that,” he said.

The DEN provides a platform for students to share ideas for a business product or concept, and to form teams to develop those ideas. They receive instant feedback from professionals, faculty members and student peers in weekly meetings.

“Those people were just so excited about the prototypes and the companies they had made, and I wanted to be part of that,” he said.

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Grand Challenges Scholars Program

The complex questions facing modern society require engineers who can also shape public policy and move innovation to the marketplace. Our college encourages students to think beyond technical training and contribute to social science and the humanities through the National Academy of Engineering Grand Challenges Scholars Program.

This educational and extracurricular program revolves around the 14 “grand challenges for engineering” identified by the academy. Participants choose one grand challenge as a focus and develop their own research projects, alongside other scholars and faculty mentors.

Each student must achieve five competencies:

• Talent competency (mentored research/ creative experience)
• Multidisciplinary competency
• Viable business/entrepreneurship competency
• Multicultural competency
• Social consciousness competency

Automotive Engineering Certificate

The Clemson University International Center for Automotive Research offers an Automotive Engineering Certificate program for undergraduate students in their junior or senior year. Courses include the following:

• Vehicle dynamics
• Advanced and electrified powertrains
• Automotive project tools and prototyping
• Autonomous vehicles
• Vehicle testing and characterization lab
• Digital manufacturing

Participants receive classroom instruction, work in state-of-the-art laboratories and collaborate on projects with automotive industry clients.

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FALL 2017 COLLEGE OF ENGINEERING, COMPUTING AND APPLIED SCIENCES
FRESHMEN

36% out-of-state

27% female
19% minorities

FALL 2017 COLLEGE OF ENGINEERING, COMPUTING AND APPLIED SCIENCES
FRESHMAN MEDIAN TEST SCORES

1350 SAT
30 ACT

The Princeton Review
ranks Clemson No. 6 for
“best alumni network.”

Did you know there are many ways to reach the same end goal? Visit our degrees web page, which matches your career interests with the different programs offered here. clemson.edu/degrees

Learn more about the college and the departments. clemson.edu/cecas

NUMBER OF STUDENTS BY DEPARTMENT
Bioengineering
clemson.edu/cecas/departments/bioe
Undergraduate Enrollment: 356
Chemical and Biomolecular Engineering
clemson.edu/cecas/departments/cbe
Undergraduate Enrollment: 262
Civil Engineering
clemson.edu/cecas/departments/cce
Undergraduate Enrollment: 332
School of Computing (Computer Science and Computer Information Systems)
clemson.edu/cecas/departments/computing
Undergraduate Enrollment: 841
Electrical and Computer Engineering
clemson.edu/cecas/departments/ece
Undergraduate Enrollment: 517
Environmental Engineering and Earth Sciences (Biosystems Engineering, Environmental Engineering and Geosciences)
clemson.edu/cecas/departments/eees
Undergraduate Enrollment: 204
Industrial Engineering
clemson.edu/cecas/departments/ie
Undergraduate Enrollment: 464
Materials Science and Engineering
clemson.edu/cecas/departments/mse
Undergraduate Enrollment: 140
Mechanical Engineering
clemson.edu/cecas/departments/me
Undergraduate Enrollment: 867
Bioengineering
B.S.
Computer Engineering
B.S.
Chemical Engineering
B.S.
Computer Information Systems
B.S.
Chemical and Biomolecular Engineering
B.S.
Computer Science
B.A., B.S.
Civil Engineering
B.S.
Industrial Engineering
B.S.
Materials Science and Engineering
B.S.
Mechanical Engineering
B.S.
Geology
B.S.
Industrial Engineering
B.S.
Material Science and Engineering
B.S.
Environmental Engineering
B.S.
Biosystems Engineering
B.S.
Environmental Engineering and Earth Sciences
B.S.
Calhoun Honors College

Nearly 1,500 of Clemson’s most academically competitive students call our Calhoun Honors College home. The Honors College combines the strengths of a public, land-grant university with those of a highly selective small college. Outstanding students take specialized courses taught by our best professors and participate in a wide range of innovative learning experiences on campus, across the nation and around the world. Here’s a snapshot of the 2017 freshman honors class:

• 415 students
• 1480 average SAT
• 32 average ACT
• Top 4 percent average high school class rank

Madison Maddox

Computer science major

Calhoun Honors College student Madison Maddox says her biggest challenge is navigating a schedule packed with academic and extracurricular activities. But if these are the best four years of her life, she’s going to make the most of every second.

As a University Innovation Fellow (UIF), Maddox is charged with leading change in higher education. Six weeks of training culminated in a trip to Silicon Valley, where she met other fellows from around the world and heard presentations from trailblazing companies such as Microsoft and Google.

“The UIF program goes hand in hand with the Network for Innovation and Marketable Skills (NIMS), one of Maddox’s two Creative Inquiry teams. NIMS participants are working to make sure every student has easy access to shared campus resources, ranging from the Makerspace to the Immersive Space to all the different departmental machine and woodworking shops.

“Clemson places a strong emphasis on cross-disciplinary education,” she said. “The chance to take courses outside core curricula, to start new initiatives, and to have conversations with mentors who share from their own experiences has shaped the way I learn.”

In 2017 Clemson had 29 national scholarship winners including National Science Foundation Graduate Research Fellows, Fulbright grant awardees and Goldwater scholars.

EUREKA! Summer Research

EUREKA! (Experiences in Undergraduate Research, Exploration and Knowledge Advancement) is a five-week program available to incoming first-year honors students.

Through EUREKA! honors students conduct research alongside Clemson’s top faculty. Depending on the nature of the project, some participants work with a faculty member in one-on-one mentored relationships. In other cases, EUREKA! participants may be part of a research team involving faculty, graduate students and other undergraduates.

Opportunities are open in almost every major and range from math, science and engineering to the social sciences and humanities.

Some of the benefits of EUREKA! include:

• connecting with a family of academic mentors made up of a faculty adviser and that adviser’s graduate students and associates,
• learning an advanced skill that will contribute toward reaching your academic goals,
• an opportunity to stand out early for Rhodes, Goldwater, Fulbright and other major scholarships and
• the chance to get a jump on making Clemson your new home!

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Bringing VR to CU

Maddox is an officer of the Virtual Reality Club, which serves as a hub for students and faculty interested in experimenting with virtual reality and augmented reality headsets, software and desktops.

“Again, we want to make the incredible technology we have here as accessible as possible,” she explains. “There’s always staff present who can teach you about development or help you get further involved.”

The Mountains are Calling

When she’s not coding, Maddox is climbing. She’s vice president of the Climbing Club and a Clemson Outdoor Recreation and Education (CORE) trip leader specializing in rock climbing and whitewater rafting adventures. Representing the Tigers at the national collegiate climbing competition in San Diego ranks among her most epic accomplishments.
Imagine a freshman year where your first class on your first day is full of familiar faces, and finding a study group is as simple as stepping outside your residence hall room door.

This is what it looks and feels like to be part of Residents in Science and Engineering (RISE), the largest Living-Learning Community on campus. RISE spans two buildings and incorporates a staffing model to support students with a faculty director, faculty fellows, graduate assistant, and team of 25 tutors and 36 resident assistants who will serve over 750 students this year.

Residence hall-wide events provide ready-made social activities, while built-in study groups provide academic support during the all-important first year. The result? A unique co-ed residence hall where College of Engineering, Computing and Applied Sciences students enjoy a high rate of success — academically and socially.

“The staff and professors care about you and want to see you succeed,” says Alex Harrison, a bioengineering major who called RISE home. “Being surrounded by other engineering and science majors definitely helps with school work and my busy schedule.”

Students are just as likely to spend time studying with their fellow engineering classmates and RISE residents as they are to spend the day tailgating and cheering on the Tigers.

"Academically, I don’t think I could have made it through freshman year without RISE,” says Jessica Kende, a materials science and engineering major who was a RISE resident as a freshman. “There is always someone to ask for help because many people are taking similar classes. Not only will you know people in your class, but you meet more people in your dorm, and it’s really easy to form study groups.”

RISE by the numbers
- Over 750 STEM students will call RISE home their freshman year.
- RISE students are twice as likely to interact with faculty outside the classroom and to be involved with their resident community programs.
- More than 96 percent of RISE students reported RISE eased their transition to college and would recommend the program to a friend.

“Special programs and services unique to RISE include
- in-hall tutoring services five nights a week,
- weekly programs to provide academic support and professional development,
- behind-the-scenes industry tours and events,
- peer mentoring,
- specialized leadership development and service-learning initiatives,
- weekly e-newsletters,
- in-hall faculty director and clustered courses with fellow residents.

Clemson is ranked No. 2 in the nation for “their students love these colleges” by The Princeton Review.

Find Your Fit!
Clemson’s 17 nationally recognized Living-Learning Communities cater to a variety of academic needs, interests and backgrounds.
- Air Force ROTC
- Army ROTC
- Call Me MISTER®
- Civics and Service House (CASH)
- Clemson IDEAS (Innovation, Design, Entrepreneurship for Students)
- Clemson University Design Community (CUDC)
- Community for Undergraduate Business Students (CUBS)
- CONNECTIONS
- CREATE
- Cultural Exchange Community (CEC)
- Honors Residential College at Core Campus
- Leading for our Environment and Future (LEAF)
- PGA Golf Management (PGA GM)
- Residents in Science and Engineering (RISE)
- Wellness
- Women in Animal and Veterinary Sciences (WAVS)
- Women in Science and Engineering Residence (WISER)

Interested in joining RISE or another Living-Learning Community? Space is limited, so visit clemson.edu/cecas/ri...
Clemson offers 90 minors to help you pursue special interests and complement your chosen field.

- Accounting
- Adult/Extension Education
- Aerospace Studies
- Agricultural Business Management
- Agricultural Mechanization and Business
- American Sign Language Studies
- Animal and Veterinary Sciences
- Anthropology
- Architecture
- Art
- Athletic Leadership
- Biochemistry
- Biological Sciences
- Brand Communications
- British and Irish Studies
- Business Administration
- Chemistry
- Chinese Studies
- Cluster
- Communication Studies
- Computer Science
- Creative Writing
- Crop and Soil Environmental Science
- Cybersecurity
- Digital Production Arts
- East Asian Studies
- Economics
- English
- Entomology
- Entrepreneurship
- Environmental Science and Policy
- Equine Industry
- Film Studies
- Financial Management
- Food Science
- Forest Products
- Forest Resource Management
- French Studies
- Gender, Sexuality and Women's Studies
- Genetics
- Geography
- Geology
- German Studies
- Global Politics
- Great Works
- History
- Horticulture
- Human Resource Management
- International Engineering and Science
- Italian Studies
- Japanese Studies
- Legal Studies
- Management Information Systems
- Mathematical Sciences
- Microbiology
- Middle Eastern Studies
- Military Leadership
- Music
- Natural Resource Economics
- Nonprofit Leadership
- Nuclear Engineering and Radiological Sciences
- Packaging Science
- Pan African Studies
- Park and Protected Area Management
- Philosophy
- Physics
- Plant Pathology
- Political and Legal Theory
- Political Science
- Precision Agriculture
- Psychology
- Public Policy
- Race, Ethnicity and Migration
- Religious Studies
- Russian Area Studies
- Science and Technology in Society
- Screenwriting
- Sociology
- Spanish Studies
- Spanish-American Area Studies
- Sustainability
- Theatre
- Travel and Tourism
- Turfgrass
- Urban Forestry
- Wildlife and Fisheries Biology
- Women's Leadership
- Writing
- Youth Development Studies

Prospective students can learn more about Clemson engineering and set up a department-specific tour by visiting clemson.edu/cecas/psu.

**Dual-Education Programs**

The College of Engineering, Computing and Applied Sciences enrolls more than 350 transfer students a year and has dual-education programs with several four-year institutions across the Southeast. Dual-education programs allow students to study two or three years at one institution and complete their B.S. degrees at Clemson University. Transfer students interested in engineering disciplines at Clemson are admitted into general engineering and must complete a common freshman-year curriculum before being admitted into an engineering baccalaureate program. Transfer students interested in computing or geology will go directly to those departments.

Clemson has dual-education programs with these institutions:
- Anderson University
- Charleston Southern University
- Coastal Carolina University
- Converse College
- Elon University
- Erskine College
- Francis Marion University
- Furman University
- Lander University
- Newberry College
- North Georgia College
- North Greenville College
- Presbyterian College
- Wofford College

**Accreditation**

The Bachelor of Science (B.S.) degree programs in bioengineering, bioprocess engineering, chemical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, environmental engineering, materials science and engineering, and mechanical engineering are each accredited by the ABET Engineering Accreditation Commission. The B.S. program in computer science is accredited by the ABET Computing Accreditation Commission.
Explore the World
Study-abroad opportunities are available for all College of Engineering, Computing and Applied Sciences students, offering courses directly related to most majors, minors or cultural interests. You can spend three weeks or an entire semester abroad, earn an international science and engineering minor, or participate in Global E3 (Global Engineering Education). Opportunities are affordable, with many options costing the same or less than in-state tuition rates at Clemson.
clemson.edu/studyabroad

• Faculty-led programs: Several College of Engineering, Computing and Applied Sciences professors lead summer study abroad programs. Students enroll in classes at Clemson, but they study around the world at sites pertinent to their studies.

• Third-party provider/independent study: Clemson screens and recommends programs for individual students. If there’s a place you’d like to go, you’ll probably find a study abroad program there.

• Exchange programs: Exchange agreements with institutions around the world give Clemson students the chance to study at an overseas university, and “in exchange,” a student from the overseas university studies at Clemson.

Carson Brewer

Bioengineering major

Carson Brewer made some of her most unexpected college friendships in Tanzania. The bioengineering major went to the East African nation for nearly seven weeks with two other students at the end of her sophomore year, and the experience made a lasting impression.

“We actually lived in the communities,” Brewer said. “We became one of the Tanzanians and got to learn everything about them — their culture, their health care system and how we can take a step toward fixing the broken links.”

A Global Perspective

When Brewer reflects on her time abroad, one person sticks out in her mind. She described him as a young man named Weston, who helped her — and the other students — bridge the language barrier.

“One evening, he brought the three of us over to his home and cooked a homemade dinner for us and welcomed us in to meet his family,” Brewer recalled. “That was such a rewarding feeling. This guy knew nothing about us, other than that we’re just three Clemson kids coming to try and save the world, and he opened his door to us and took us in as his own.”

Developments that Make a Difference

The trip to Tanzania was part of a Creative Inquiry project led by Professors John DesJardins and Delphine Dean.

The information that Brewer and her team gathered led to the development of a portable patient monitor for doctors on medical missions. This device has a hand crank to generate its own power in order to measure blood pressure, temperature and blood-oxygen level. The monitor, now on its second prototype, also includes an electrocardiogram.
Before she majored in bioengineering at Clemson, Julia Brisbane studied piano for 12 years at a magnet school for the arts. Math and science classes were not her top priority then, but stepping out of her comfort zone changed everything.

"Bioengineers give people new life through orthopedic developments," Brisbane said. "My long-term goal is to earn a Ph.D. and further advance research and education efforts in this area."

Julia Brisbane

Bioengineering major

The Class of 1956 Academic Success Center (ASC) offers Peer-Assisted Learning, academic coaching and tutoring free to every Clemson student. Conveniently located in the center of campus, the ASC is designed to help students significantly improve their grades and maintain their scholarships through a better understanding of difficult class material.

Students seek out the ASC to attend academic skills workshops or meet with groups in designated study areas, and some even get paid to come here: Approximately 225 students with proven coursework success (an A in the class) and a GPA of 3.4 or higher deliver the tutoring and mentoring services at the ASC.
clemson.edu/asc

The Center for Career and Professional Development is ranked No. 1 in the nation by The Princeton Review for its career services programs.
- Head to the Michelin Career Center for career counseling and assessments, to perfect a résumé or cover letters, and to practice mock interviews.
- UPIC (University Professional Internship/Co-op) offers over 900 paid positions on campus to students who work closely with a faculty or staff member in their field of interest. We also facilitate access to off-campus internships.
- The Cooperative Education Program allows participants to alternate semesters of academic study with semesters of paid, career-related experiences to strengthen the connection between classroom lessons and their application in professional practice.
career.clemson.edu

Get Connected
Her passion for research ignited the summer before her freshman year officially began. She was on campus for the FIRE program, which gives underrepresented engineering and science students a head start on math, research and campus life.

During those two weeks, she learned about the support systems available through PEER (Programs for Educational Enrichment and Retention) and WISE (Women in Science and Engineering).

"PEER & WISE workshops made me think beyond just earning good grades, and about graduate school and summer research experiences," Brisbane said.

Through Clemson, Brisbane has worked with professional bioengineers at the Medical University of South Carolina. She landed an internship in the cardiac research division, and then returned to the physical therapy research lab for an undergraduate summer research program.

Brisbane is now an undergraduate teaching assistant for general engineering courses, which means she supports the professor by taking attendance, facilitating questions and holding night hours to help students with their work.

Most importantly, Brisbane hopes to challenge other minority females to pursue engineering fields.

"There might not be many people who look like me in my degree program," she said. "But everyone is rooting for you here, and all the resources that are available mean you’re never alone."
Student Organizations and Clubs
We've found well-rounded students perform better academically, are more satisfied with their college experience and are more likely to graduate. Clemson offers a wide variety of extracurricular activities, but if your passion isn't represented yet, you can start your own club! clemson.edu/campus-life/student-orgs

College of Engineering, Computing and Applied Sciences Professional Clubs and Student Chapters Include:
- Alpha Omega Epsilon (AOE)
- American Institute of Chemical Engineers (AIChE)
- American Society of Civil Engineers
- American Society of Mechanical Engineers - Student Chapter (ASME)
- Association of Computing Machinery - Women
- Association of Computing Machinery (ACM)
- Biosystems Engineering Club
- CES Student Advisory Board (CESSAB)
- Chemical Engineering Graduate Student Organization (CEGSO)
- Chi Epsilon, National Civil Engineering
- Clemson Bioengineering Society
- Clemson Engineers for Developing Countries (CEDC)
- Clemson University Geology Club (Geology Club)
- CU Cyber
- CUICAR Graduate Student Association (CUICAR SA)
- Engineers Without Borders
- Formula SAE (FSAE)
- Institute of Industrial Engineers
- Material Advantage (MA)
- Materials Research Society (MRS)
- National Society of Black Engineers (NSBE)
- Phi Psi Honors Fraternity (Phi Psi)
- Pi Tau Sigma (PTS)
- School of Computing Graduate Student Association (SoCGSA)
- Society of Hispanic Professional Engineers (SHPE)
- Society of Women Engineers (SWE)
- Structural Engineers Association of Clemson University (SEA)
- Tau Beta Pi (TBP)
- Theta Tau Professional Engineering Fraternity (Theta Tau)
- Undergraduate Clemson Bioengineering Society (UCBS)

Jake Flynn
Industrial engineering major

For Jake Flynn, being a member of Clemson University’s men’s club soccer team provides a much-needed outlet from his class assignments and research projects.

“I work in the lab at Freeman Hall until about 7 p.m., and then I head out for a little ‘me’ time,” Flynn said. “I can go out and pass the ball around with a bunch of my buddies, and for two hours I don’t have a care in the world.”

The industrial engineering major believes that being healthy, exercising and having fun contributes to a work-life balance that fosters educational and career success.

Aircraft Breakthroughs
Flynn’s performance in ergonomics class caught the eye of Sara Riggs, an assistant professor in industrial engineering. She invited Flynn to become a member of her lab team. They’re currently investigating unmanned aerial vehicles (UAV).

“Right now, the Army and Air Force employ three pilots to one UAV,” says Flynn. “Dr. Riggs is looking for a way to flip and improve that ratio. The objective is eventually to have individuals controlling multiple machines.”

Beyond the Lab
Flynn has taken the opportunity to apply his classroom knowledge to real-world situations through Clemson’s Cooperative Education Program.

“At first I wasn’t interested in co-oping, but then I met Jeff Neal, Clemson’s co-op director,” Flynn says. “He transformed my entire Clemson career by giving me the confidence to consider working for the premier companies of the Fortune 500.”

His enthusiasm for cooperative education led him to become an ambassador for the program. “The advantage to co-oping? According to Flynn, “You graduate with a year of experience and you get an extra football season. What’s not to like?”

Get involved
Clemson offers more than 500 student clubs and organizations.

Get experience
More than 50 pre-professional, research and service-learning clubs are available for College of Engineering, Computing and Applied Sciences undergraduate students.

Get competitive
Competitions for engineering, computing and science students abound, including:
- Concrete Canoe Team
- Steel Bridge Team
- Formula SAE
- Mini Baja
- Many other competitions affiliated with professional societies and clubs

For more information visit clemson.edu/campus-life/student-orgs.
Douglas (DJ) and Meredith Edmonson met and fell in love while both were pursuing degrees in the College of Engineering, Computing and Applied Sciences. The couple now lives in California where DJ is a software engineer at Apple, and Meredith is an independent contractor.

Just five years ago, DJ was a Clemson student competing in a hackathon, working for CCIT on campus, and creating iOS applications through a Creative Inquiry project. Now he's putting his problem-solving skills to the test at the largest technology company in the world.

“My work is centered around iOS and user interface. I work on a team with three other developers who are in charge of a medium-sized project. I have the autonomy to make decisions, solve problems, and own the outcome of my work.”

During college Meredith was an officer of the American Society of Civil Engineers and Chi Epsilon; a member of the steel bridge team; and a tour guide for the civil engineering department. She also interned with a division of The Lane Construction Corporation.

“During school I was exposed to the type of work that interests me most.”

Meredith recalled how her faculty adviser and undergraduate coordinator answered countless questions and provided constant support: “They helped me plan out my course schedule for core classes and area of emphasis, and made sure I included some fun electives like archery!”

Currently she works on AutoCAD and data analysis, and sets her own schedule: “I’m able to use a lot of the same technical and analytical skills that I learned and honed at Clemson, and really enjoy the freedom to do the type of work that interests me most.”

The Edmonson’s advice for incoming freshmen?

“Go into college with an open mind and be willing to try things outside of your comfort zone,” Douglas said.

Meredith added, “Be curious and flexible. Clemson has a small-school atmosphere but big-school opportunities. You don’t feel like you’re lost in a sea of people, but at the same time, there really is something for everyone.”

“Long after you cross the stage to shake the president’s hand and receive your diploma, the feeling of family continues.”

There are approximately 300 to 400 employers worldwide who participate in the Cooperative Education Program as teaching partners for College of Engineering, Computing and Applied Sciences students.
There is far more to the Clemson experience than the superior academics that make us such a sought-after university. Our students come from many different places and backgrounds. But with broad opportunities to grow personally and professionally, it’s inevitable that they all leave here with not only the ambition to do something great, but the education to follow it through.

This is a place where students can acquire new understanding and abilities, and still enjoy their college years — all of which combine to create a family of Clemson Tigers that are active citizens of a global community.
On a campus tour you and your family can see first-hand the programs and facilities available to undergraduates. The Class of 1944 Visitors Center — located at 230 Kappa Street in the Strom Thurmond Building — offers a variety of informational services including guided tours, audiovisuals, departmental contacts and publications about the University and surrounding areas. A virtual tour app is available by download or on lendable electronic devices. Check out clemson.edu/visit.

Schedule Your Departmental Visit

Structured afternoon tours are offered Fridays in the fall and spring for those considering engineering, computer science and computer information systems majors. Prospective geology students may arrange an individual appointment with the department. To view available dates and schedule tours of the College of Engineering, Computing and Applied Sciences, visit clemson.edu/cecas/tour.