At Clemson University, students have room to become exactly who they want while tackling the major issues of the 21st century.

2019-2020>>
What problem do you dream of solving?

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 that 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. 24 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.
DISCOVER YOUR PATH

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 kind of engineer you truly want to be. 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 10 undergraduate engineering disciplines offered at Clemson. From there, you’ll determine which specialty best fits your talents and interests.

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.

A Great Return on Investment

Clemson is one of Forbes’ “Best Value Colleges,” Money magazine’s “Best Colleges” and The Princeton Review’s “Colleges That Pay You Back.”

What You’ll Study

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

- **ENGR 1020 Engineering Disciplines and Skills**
  Solving basic problems that engineers face is the foundation for a career in engineering. With ENGR 1020, students will demonstrate those growing skills through modeling techniques and determine and interpret the validity of experimental results. The class also introduces the professional and societal issues that arise in engineering.

- **ENGR 1410 Programming and Problem Solving**
  The formulation and solving of engineering problems is at the heart of ENGR 1410 using MATLAB. Throughout the course, students will learn to read, interpret and write programs as well as iterate and evaluate conditional statements and debug. Technical communication is a key component to this first-year course. (Not required for Chemical Engineering students. You’ll enroll in CHE 1300.)

- **ENGR 1020 Programming and Problem Solving**
  A Ph.D. in civil engineering, immediately after receiving his doctorate, Martin dove into the world of teaching and has been here ever since.

Martin lives and breathe engineering every day, both in and out of the classroom. His time as a lecturer is spent convincing students that the work they start is a strong base for whatever focus they take in engineering down the road. Outside the classroom, Martin is engaging students through his work as a RISE (Residents in Science and Engineering) faculty fellow in Byrnes Hall and through Creative Inquiry (CI) projects that connect engineering to students’ day-to-day lives.

“"We are working on a CI now that involves green roofs, urban agriculture and how those work together,” Martin said. “We are also introducing freshmen and sophomores to the concept of infrastructure and gaining a better grasp on that within the stormwater systems of Clemson University.”

Additionally, Martin hosts hands-on events, like basic soldering and machine building, at Byrnes Hall to get students to challenge themselves with projects outside the classroom setting.

“It’s not just about teaching them skills but helping students find something that they can be truly interested in and passionate about,” he said.

Not an engineer? Dive straight into your degree program.

If you’re interested in computer science, computer information systems or geology, you are admitted directly to 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 involvement opportunities that enrich your education.

Learn more about general engineering, [clemson.edu/ge](http://clemson.edu/ge)
Shawn Patel’s affinity for biology and math and his desire for campus and community involvement led him to choose Clemson for a bioengineering degree. It’s also what will keep him, and his research, here for graduate school.

Most recently, Shawn’s lab time has revolved around the decellularization process in pig hearts, a field of tissue engineering that has huge implications for the future of medicine. As an undergraduate, Patel found himself working alongside graduate students and post-docs in the cutting-edge field of regenerative medicine.

As a grad student, he will continue his tissue engineering research, and he will keep building a knowledge foundation for medical advances that could one day do everything from cure aneurysms to build new heart valves out of tissue components and stem cells.

His ambitious undergraduate efforts have received accolades from mentors. But Shawn said the most rewarding part of his early research has been doing something that will make a difference in the future, whether that means working in his own lab or eventually finding his fit with a pharmaceutical or medical device company.

“I got involved with research and my lab at Clemson because I found it fascinating,” Shawn said. “I plan on doing more design and industry-based research (in graduate school) so that I can actually create products that build upon the research of others.”

Shawn Patel
Bioengineering
Class of 2019
Goose Creek, South Carolina

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 and help 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.

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.

Learn more about the Creative Inquiry program. clemson.edu/ci
Bioengineering B.S.

The goal of bioengineering is the same as it has been for generations: create integrated, innovative technology to improve human health. The ways to reach that goal, on the other hand, are as varied as ever. Clemson’s Department of Bioengineering tackles tough issues through research and hands-on experiences.

What research opportunities are available to undergrads?
In a diverse medical field, graduates in bioengineering find themselves all over the country and the world, helping to solve some of the most vexing health-related problems. Those companies might include:
- Pharmaceutical industries
- Medical device firms
- Hospitals and medical centers
- Government regulatory agencies

Some of the department’s most recent graduates have been hired at Medtronic, Johnson and Johnson, Abbott, Pfizer and Abbott.

What research opportunities are available to undergrads?

Biosystems Engineering B.S.

Biosystems engineering is a focus of almost any field in the modern world. The discipline’s sustainable designs for energy, water and food are paramount at a time where shortages of all three are not only possible but almost inevitable. At Clemson, you have an opportunity to study and research biofuels, bioactive molecules and biomaterials in green-processing technologies, among many others. Or design the next sustainable community through stormwater retention and ecologically sound food and energy crop production.

Where can biosystems engineering take me?
Most major industries are looking to make an impact in sustainability, putting biosystems engineering at the top of many industry wish lists. Those companies might include:
- Pharmaceutical industries
- Medical device firms
- Hospitals and medical centers
- Government regulatory agencies

Some of the department’s most recent graduates have been hired at Medtronic, Milliken, Poly-Med, Zimmer Biomet, Epic and Cook Medical, to name just a few.

What research opportunities are available to undergrads?

Chemical Engineering B.S.

By combining chemistry, biology, physics and mathematics, chemical engineers create, purify and transport advanced materials from lab to commercial sale. Clemson’s program is a small yet strong discipline that offers increased interaction between students and faculty as they dive into the fields of chemical and biomolecular engineering.

Where can chemical engineering take me?
Careers for the chemical engineer are expansive, ranging from:
- Environmental conservation
- Advanced and renewable materials
- Energy conservation
- Consumer products
- Health and biotechnology

Internships
Internship opportunities are available at companies such as Johnson and Johnson, Medtronic, Pfizer and Abbott.

Global Engagement
Biosystems engineering majors have the chance to study abroad in sustainable engineering and German culture in German cities such as Trier, Birkenfeld and Munich.

Employers in alternative energy, consulting firms, manufacturing, gas and oil extraction, and nuclear power consistently reach out to this department for job recruitment.

What research opportunities are available to undergrads?
Nearly 60 percent of all chemical engineering students participate in some sort of research. Many of those opportunities arise through Creative Inquiry projects that are advised by a faculty member and conducted during the school year or over the summer.

Civil Engineering B.S.

Quality of life and economic growth are at the heart of what civil engineering is built for. Clemson civil engineering students learn to create, plan, design, construct, maintain and operate the structures, facilities and systems that keep the economy running and build a better future for all. A large research investment and diverse faculty raise our civil engineering program to the top, utilizing hands-on lab experiences, strong student/faculty relationships and a curriculum that works toward your desired outcomes.

Where can civil engineering take me?
Civil engineering is among the fastest-growing and most in-demand fields in the Southeast and entire nation. It is consistently rated among the top five most valuable engineering careers by U.S. News & World Report and offers a wide range of employment opportunities in:
- Government agencies
- Construction
- Consulting firms
- National research labs
- Local municipalities
- State transportation departments

What research opportunities are available to undergrads?
Clemson’s civil engineering program is a leader on campus in hands-on research projects and opportunities. Recently, the department was awarded a $2 million grant by the National Science Foundation to prepare students for future challenges by infusing authentic learning throughout the undergraduate program.

Learn more about the College and the departments. clemson.edu/degrees
UNDERGRADUATE DEGREES

Computer Engineering B.S.

263
Fall 2018 undergraduate enrollments

Computer engineering programs must evolve with growing and changing technologies from every aspect of hardware and software design. From the basics of circuits and electronics to digital logic and computer organization, Clemson University allows computer engineering students a versatile array of technical electives in software, computer architecture, biomedical systems, communication systems, digital signal process and intelligent systems, among others.

Where can computer engineering take me?

There are no boundaries to a degree in computer engineering. Whatever your passion, find yourself in fields like:
- Information security
- Communications and wireless networks
- Computational science and engineering
- Mobile computing
- Computer architecture
- Robotics
- Embedded systems

Co-ops and internships
Nearly 90 percent of students in the department participate in a co-op and/or internship experience while at Clemson.

Our recent and frequent employers
include some of the biggest names in tech, such as Amazon, Google, Facebook, General Electric, BMW, IBM and Intel, among others.

What research opportunities are available to undergrads?
Experience dozens of research opportunities through the Holcombe Department of Electrical and Computer Engineering. Recent Creative Inquiry undergraduate research projects have ranged from advanced cyber infrastructure and video game development to robot networks and human/machine interface.

clemson.edu/cecas/departments/computing

Computer Science B.A., B.S.

871
Fall 2018 undergraduate enrollments

Clemson’s School of Computing offers three undergraduate degree options, and each starts with a common computing core curriculum with exposure to a variety of programming languages and fundamental concepts. From there, you can choose how technical (computer science B.S.) or interdisciplinary (computer science B.A.) you want to be.

Or, combine elements of advanced computer science concepts with business, management and accounting coursework in the computer information systems degree.

Where can computer science and computer information systems take me?

There are any number of paths through business, research or management firms by getting these computing degrees. The most prominent include:
- Software development
- Project management
- Technical consulting
- Network engineering
- Software analyst

Co-ops and internships
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Our recent and frequent employers
include Amazon, Google, Boeing, Bank of America, BMW and more.

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clemson.edu/cecas/departments/computing

Electrical Engineering B.S.

265
Fall 2018 undergraduate enrollments

Innovation is at the heart of the modern world, but it can come with its own set of problems. Electrical engineers are tasked with helping to solve those global issues, especially as they relate to energy, communication, health care, climate change and security. Clemson’s electrical engineers dive into digital logic, computer organization, power systems, electromagnetics and communication and control to tackle global issues head-on.

Where can electrical engineering take me?

As electrical systems and devices increasingly run the world, most every sector needs electrical engineering in some way. Many Clemson graduates have found themselves in:
- Banking and finance
- Health care
- Automotive engineering
- Robotics
- Telecommunications

More than 70 percent of Clemson undergraduate students in electrical engineering have multiple job offers in hand before graduation. Recent employers have included IBM, Amazon, Google, Boeing, Duke Energy, Texas Instruments and Exxon Mobil, to name a few.

What research opportunities are available to undergrads?
Undergraduates can engage with summer Research Experience for Undergraduates (REU) programs, multiple Creative Inquiry undergraduate research projects and the senior honors thesis research project. Recent CI projects have revolved around subjects such as video game development, robot networks, human/machine interface, advanced cyber infrastructure, and deep learning and big data.

clemson.edu/cecas/departments/computing

Environmental Engineering B.S.

88
Fall 2018 undergraduate enrollments

Things vital to life on Earth are clean water and clean air. Environmental engineers are on the frontlines of world issues through the design of water treatment plants or creating devices to improve air quality or restore contaminated sites. Clemson University has the first ABET (Accreditation Board for Engineering and Technology Inc.)-accredited undergraduate degree program in South Carolina for environmental engineering and offers a core curriculum that emphasizes areas including wastewater treatment, air pollution control, sustainability and risk assessment.

Where can environmental engineering take me?

In a field with so much at stake, nearly every level of business or government relies on environmental engineering:
- Federal and state governments
- Water utilities
- Engineering consulting firms
- Manufacturing
- International industries

Recent graduates of Clemson’s environmental engineering program have gone on to jobs with the North Carolina Department of Transportation, Thomas & Hutton in Charleston, South Carolina; and Eastman Chemical.

What research opportunities are available to undergrads?
Recent Creative Inquiry undergraduate research offerings include environmental effects of co-contaminant exposure, industrial assessment of energy and resource efficiency and water-quality monitoring. Students may also have the chance to work with a faculty member on a multi-semester research project.

clemson.edu/cecas/departments/eees

Learn more about the College and the departments, clemson.edu/degrees
Geology is a broad field, and Clemson University embraces the flexibility that comes with that. As an applied science, geology combines concepts from chemistry, physics and biology with other fields in its study of the Earth. Unlike other majors with a strict list of required classes, geology offers more flexibility in class selection so you can better map out career goals based on your interests and strengths. That could mean anything from becoming a hydrologist or environmental consultant to working for an oil or gas company.

Where can geology take me?
Though there has been a shortage of new geologists entering the job market in recent years, many companies and businesses are looking for them, and geological services are in high demand. One-third of geology majors are employed by the oil and gas industry, though others include:
- Environmental consulting
- Government agencies
- Research groups
- Nonprofit agencies

What research opportunities are available to undergrads? Field work is a major component for the Clemson geology major. Every student must complete at least six credit hours of field work across the Southeast. There is a deliberate balance of individual and group work.

Where can materials science and engineering take me?
The beauty of a materials science and engineering degree is that it is an almost direct path to industry positions in the field. Those who remain in school often pursue graduate degrees or attend a professional school for their MBA, law or medical degree. Companies who seek out Clemson graduates include Boeing, Corning Glass, Michelin, Milliken and General Electric.

Career Opportunities
- Industry
- Government
- Business

This is demonstrated through the well-known companies Clemson graduates find employment with, including General Motors, IBM, Lockheed Martin, NASCAR, BASF, Michelin, DuPont, Fluor, Ford, General Electric and Duke Energy. In addition, the department offers study leading to Master of Science and Doctor of Philosophy degrees.

Where can mechanical engineering take me?
For most graduates, the following areas are most popular:
- Industry
- Government
- Business

Mechanical engineering finds its way into nearly every discipline of the engineering field. The work in this program can touch bioengineering, environmental and life-support systems, food production and materials processing. Clemson’s curriculum goes a step further by covering fundamental engineering sciences as well as the arts and humanities to develop a deeper understanding of today’s complex modern society. There is a deliberate balance of individual and group work where professional communication is encouraged and emphasized.

What research opportunities are available to undergrads?
The experience gained in a Creative Inquiry research project setting moves students toward a graduate degree or immediate employment. The fields of research range from experimental, analytical and computational work in bioengineering and biomaterials to design, fluid mechanics, transportation systems and more.

Experimental, Analytical and Computational Work
Creative Inquiry projects in industrial engineering are wide-reaching through CI have ranged from Clemson University’s bicycle sharing initiative to offering improved access to faculty, labs and a student lounge and conference room.

Career Opportunities
- Industry
- Government
- Business

This is demonstrated through the well-known companies Clemson graduates find employment with, including General Motors, IBM, Lockheed Martin, NASCAR, BASF, Michelin, DuPont, Fluor, Ford, General Electric and Duke Energy. In addition, the department offers study leading to Master of Science and Doctor of Philosophy degrees.

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Clemson offers more than 90 minors to help you pursue special interests and complement your chosen field.

Accreditation
The Bachelor of Science (B.S.) degree programs in bioengineering, biosystems 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, abet.org.

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 bachelor’s degree 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 applied sciences disciplines will go directly to those departments.

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

Prospective students can learn more about Clemson engineering and set up a department-specific tour by visiting clemson.edu/cecas/psu.
EUREKA! Summer Research
EUREKA! (Experiences in Undergraduate Research, Exploration and Knowledge Advancement) is a five-week program available to incoming first-year honors students.

In 2018-19, six Clemson students received National Science Foundation Graduate Fellowships, and three were awarded Barry Goldwater Scholarships.

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!

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 2018 freshman honors class:
- 313 students
- 1,482 average SAT
- 33 average ACT
- Top 4 percent average high school class rank

Sarah Sandler
Materials Science and Engineering
Class of 2019
Long Island, New York

Senior materials science and engineering major Sarah Sandler was passionate about her field of study, but she wanted to learn more about the world around her. As a Calhoun Honors College student, she was able to do just that.

Her involvement with the Honors College’s Dickson Global Policy Scholars Program opened her eyes to the world outside of Clemson. This program selects students to explore global policy issues affecting different cultures around the world. It also broadened her horizons inside Clemson as she collaborated with students from different majors who she traditionally might not have crossed paths with. “This program really took me out of my element and challenged my worldviews. It was definitely one of my most rewarding experiences at Clemson,” she said.

During her time at Clemson, Sarah made use of the countless other resources provided by the Honors College, such as priority registration, study spaces in the center of campus and travel enrichment grants. By the end of her senior year, she was awarded a prestigious National Science Foundation Graduate Research Fellowship, which will allow her to continue to pursue research by funding three years of graduate school.

“Clemson allowed me to explore every part of who I am as a person. I never felt limited in what I could do,” Sarah said.

See if our Calhoun Honors College is right for you. clemson.edu/cuhonors
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, a graduate assistant and a team of 25 tutors and 36 resident assistants who will serve more than half the students in the College.

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.

Clemson RISE is a first-year experience designed to help students thrive inside and outside the classroom. From move-in day to transitioning into your major, the RISE team is here to support you. You will have opportunities to engage with fellow students and faculty, develop and apply your strengths, discover and invent new ideas and achieve academically in the living-learning environment.

"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 or computing classmates definitely helps with schoolwork and my busy schedule."

Students are just as likely to spend time mastering their 3D printing skills in the RISE Makerspace 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 spent her freshman year as a RISE resident. "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."

Clemson is ranked No. 1 in the nation for “Their Students Love These Colleges” by The Princeton Review.

RISE by the numbers
- Over half of the students in the College 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,
- In-hall Makerspace exclusive to RISE,
- Clustered courses with fellow residents,
- Weekly programs to provide academic support and professional development,
- In-hall faculty director,
- Behind-the-scenes industry tours and events,
- Peer mentoring,
- Specialized leadership development and service-learning initiatives and
- Weekly e-newsletters.

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 Cribb and DesChamps halls
- 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)

housing.clemson.edu/living-learning

Interested in joining RISE or another Living-Learning Community? Visit clemson.edu/cecas/wise, and then contact the housing office as soon as possible.
Morgan Daughtridge
Mechanical Engineering
Class of 2019
Huntingtown, Maryland

Senior mechanical engineering major Morgan Daughtridge never imagined that by the time she graduated college she would have visited more than 47 countries. The study abroad opportunities she found at Clemson inspired her to pursue a passion for travel that has transformed her college experience.

Morgan’s first study abroad experience was in South Africa, and it was funded by an education enrichment grant from the Calhoun Honors College. The Honors College student worked as a surf instructor with a nonprofit that organized an after-school program for kids. Prior to the trip, Morgan had never even surfed or worked with kids intensely before.

“I would go out at 6 in the morning to teach myself how to surf, and then I would go out at 4 in the afternoon to teach my kids how to surf! It was extremely unconventional, but it challenged me as a person and as a leader,” she said.

She began taking more risks and pushing herself outside of her comfort zone to continue exploring the world beyond South Carolina and outside of the United States. This led her to countries such as Fiji, Colombia and Germany, just to name a few.

“Through travel, I have been challenged as a person in the best ways,” Morgan said. “Clemson helped me discover this passion that has changed my life.”

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 providers/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.

Learn more about studying abroad. clemson.edu/studyabroad
Even though he grew up just a few miles from Clemson University, Patrick Mispireta never really visited the campus or even rooted for its sports teams growing up. But by the time college applications started, Clemson was on his radar for its engineering school. Between that and a recommendation from his high school chemistry teacher, Patrick decided that Clemson's hometown atmosphere and location in the South Carolina Upstate was where he was meant to be.

The first-generation college student didn’t take long to make his mark on the University when he arrived. A “proud Latino,” Patrick set forth starting a Latin dance club and the Latino fraternity Lambda Theta Phi. He even brought a Latino comedian to campus for the first time. He won awards for bridging the African American and Hispanic communities and found a special place with PEER & WISE as a mentee and, later, a mentor.

“PEER & WISE program provides important resources, friendships and just someone to talk to and lean on that freshman year,” Patrick said. “It exposes them to different organizations, provides support after tests and is intentional in being a resource.”

Patrick has studied abroad in Singapore and served on the Multicultural Greek Council as treasurer. He also joined the Society of Professional Hispanic Engineers, working with members and high school students across the Southeast.

Patrick knows that outreach is important to his success and the success of any student. It’s why you will see him embodying the mantra he sticks to: “None of us get through Clemson by ourselves.”
Student Organizations and Clubs

We've found that 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

See for yourself

The College of Engineering, Computing and Applied Sciences has dozens of professional clubs and student chapters including those for civil engineering, engineers for developing countries, CU Cyber, CU-ICAR and more.

For a full list of available clubs, visit clemson.edu/cecas/current-students/beyond/clubs.html.

Harold Hyte

Computer Science
Class of 2019
Anderson, South Carolina, by way of Stamford, New York

Harold Hyte, a senior computer science major and German studies minor, wasn't exactly the most involved student during his high school years. It took a visit to Clemson and admission to the Calhoun Honors College to make him realize that there was a lot more this first-generation college graduate could do to help himself, his school and the students who come after him.

From his passion for the Clemson Tigers football team to his experience as a teaching assistant for more than four semesters, Hyte engaged in the campus life of Clemson University more than he thought possible.

That culminated in his radio program on Clemson's radio station, WSBF-FM, where his ability to problem solve and perform technical troubleshooting offered a unique perspective. With just a box of CDs and an interest in indie and electronic music, Harold was able to reflect on his Clemson life through the music he shared with his audience.

"Doing my own radio show was like my computer science classes," Harold said. "You just have this bin of music, and you have to find a way to fit it together to fill the right amount of time. It's problem-solving at its best."

His problem-solving skills continued with participation in the first two CUhackit hackathons on campus. Participants were tasked with collaborating in small teams over an intense 24-hour period to empower each other in the design process and bolster creativity through hands-on learning.

Harold graduated in May 2019 and now works for Allied Financial in Charlotte, N.C., the same company he interned with during college.

"At Clemson, it's really about the learning to learn," Harold said. "In a fast-moving field like technology, you have to learn to think fast and change what you know quickly. Clemson gave me the tools to do that inside and outside the classroom."

McGill University

In 2017-18, 81.5 percent of CECAS graduates participated in an internship or co-op program.

Nearly 1,000 CECAS students participated in co-op rotations in each of the last three years.

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

Explore student clubs and organizations. clemson.edu/campus-life/student-orgs
Parker Raymond
Biosystems Engineering
Class of 2020
Atlanta, Georgia

When Atlanta native Parker Raymond started applying to colleges, he looked all over the country, including in Hawaii, across the Midwest and in his own backyard at Georgia Tech. And even after all of that, something still didn’t feel “quite right.”

What he did know was that he wanted to be an engineer. So, when his mother made the last-minute suggestion to apply and take a visit to Clemson University, Parker figured, “Why not?”

“(Clemson) was the last school I visited, and there was just this, well, vibe about it,” Parker said. “As soon as I visited, I knew I wanted to start a community here, make friends and create relationships.”

At Clemson, Parker also has worked several semesters as a Young Life leader with middle school students. Opportunities to work with the next generation was originally what sparked his interest in biosystems engineering.

Part of that community was in biosystems engineering, a place where he knew he could make a difference to people at home and around the world. It led him to his most trusted adviser, associate professor Caye Drapcho, then to an internship with Clemson performing sustainable carbon capture. And he spent the summer of 2019 in Guatemala asking, and perhaps even answering, some tough questions about quality of life there.

“I have been to Guatemala over the last five years, but never for as long as I will spend there this summer,” Parker said. “Getting to meet these families and talk to community leaders will be a whole new experience for me.”

Cooperative Education (Co-ops) and internships are not required for any of our undergraduate degrees but highly encouraged if you plan to go directly into the workforce or apply for a graduate program that encourages work experience. Our Center for Career and Professional Development assists students with identifying and preparing for these opportunities and providing support during their interview and work assignment. Students’ advisors and professors also assist them by identifying which program, if any, is best for their intended career path.

Learn more about co-op and internship opportunities. clemson.edu/career
Walter Lee
2018 Outstanding Young Alumni Award, CECAS

Growing up in Goose Creek, South Carolina, Walter Lee remembers preparing to head to Clemson University for summer camp — but not the one all his friends probably expected.

"'You skipped basketball camp to go to a science camp?'" Lee recalled his friends asking him. And the answer was a resounding, "Yes."

That science camp at Clemson led him to apply, enroll and graduate from the University with a degree in industrial engineering in 2010. And he hasn’t slowed down since. He got his master’s degree from Virginia Tech in industrial systems engineering and then his Ph.D. in engineering education. He stuck around Blacksburg, Virginia, and is currently the assistant director for research at the university’s Center for the Enhancement of Engineering Diversity. He’s done all that before his 30th birthday and continues to strive in bettering himself as well as the generations of engineers to come.

A project that holds particular significance is working with the National Society of Black Engineers and Purdue University to research the SEEK program, a summer camp for students in grades 3-5. The camps are held in 16 cities with high populations of African American students, and part of Lee’s work is to secure funding to keep those camps going.

Many of his passion projects include outreach. It was something instilled in him at Clemson as a member of PEER. In fact, PEER’s director at the time, Sue Lasser, was the first to suggest he pursue a Ph.D. and set him on the journey he currently travels.
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 also the education to make it happen.

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 firsthand the programs and facilities available to undergraduates. The Class of 1944 Visitors Center — located at 230 Kappa St. 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.

If you do not have a tour reserved, a limited number of walk-in guests are accepted on days tours are not at capacity. If a tour is shown as full on the registration system, walk-in spots will likely not be available.

During the fall and spring semesters, the Visitors Center is open from 8 a.m. to 4:30 p.m. Monday through Friday and on select Saturdays. 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 on select 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.
### DEGREES

Students can complement their degree with more than 90 minors, including:

- Cluster - Engineering
- Computer Science
- Cybersecurity
- Digital Production Arts
- Environmental Science and Policy
- Geology
- International Engineering and Science
- Nuclear Engineering and Radiological Sciences
- Sustainability

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