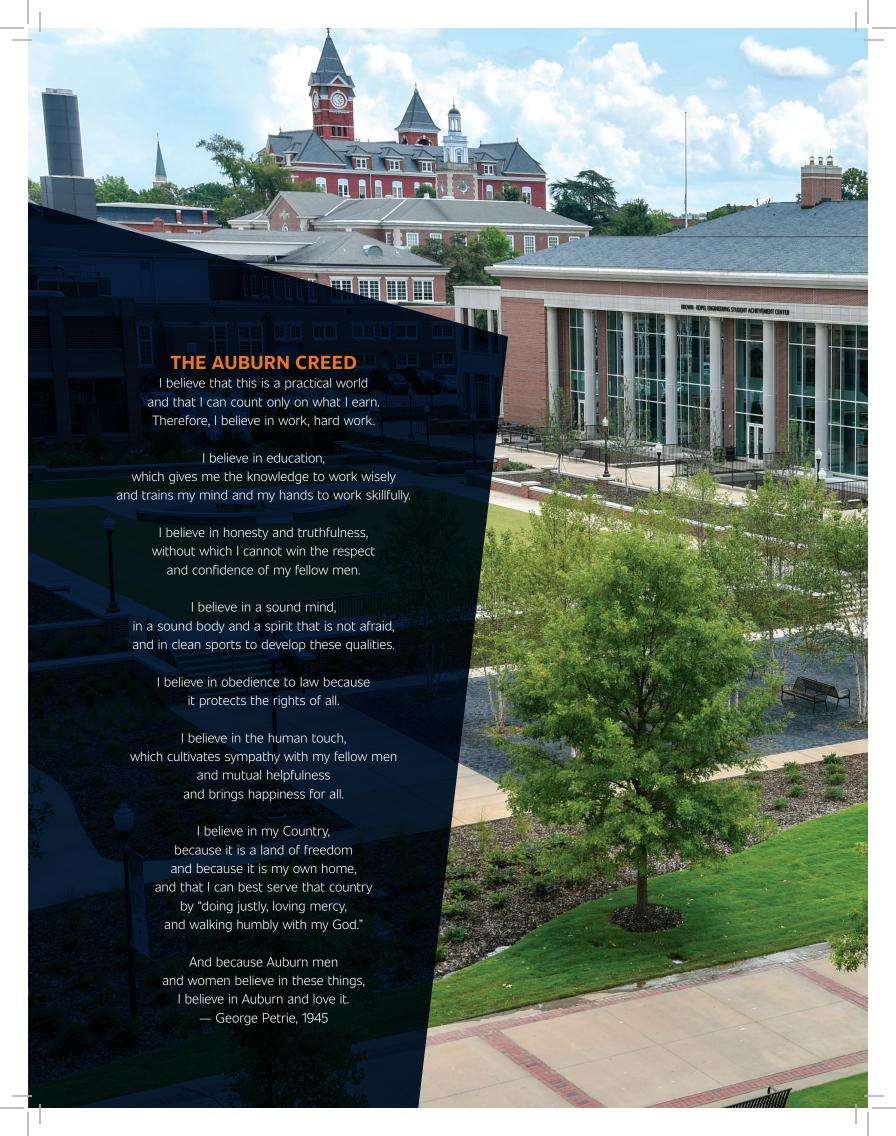


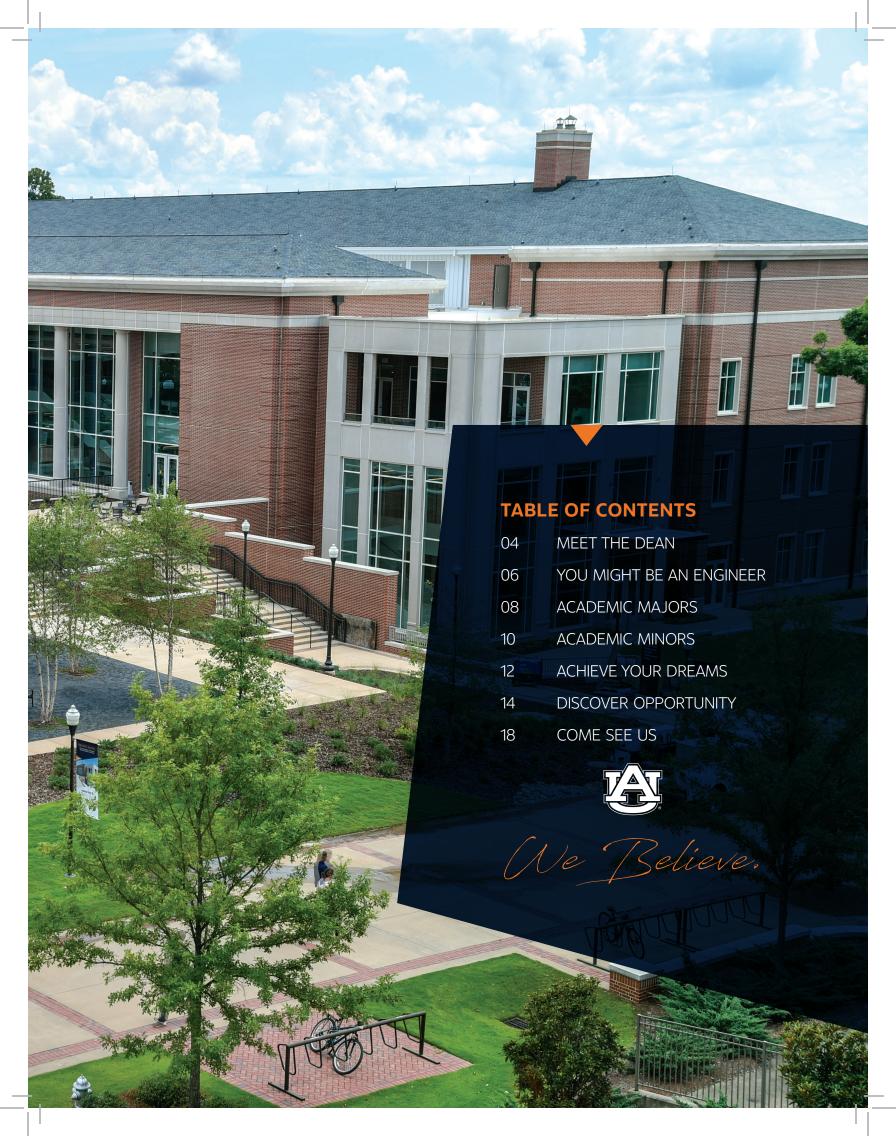
Viewbook

SAMUEL GINN COLLEGE OF ENGINEERING



UNIVERSITY









YOU MIGHT BE AN ENGINEER.

There are plenty of schools out there, but few can provide the life-changing experience awaiting you at Auburn University. Join our family and become a part of the best student-centered engineering college in the country.

Ask yourself...

- Do you want to understand how things work?
- > Are you a problem solver?
- Do you enjoy academic challenges and have the discipline to manage your time?
- Do you want a career that's interesting and varied?
- Do you like to work with other creative, inventive individuals?
- Do you want to make a difference in the world?

Freshman

During your first year, you will learn about different engineering disciplines offered at Auburn and will take the first of the science and math courses that form the foundation of your engineering education. As a pre-engineer, you will also take courses covering basic engineering principles, computer programming and computer-aided design, as well as classes that make up the university's core curriculum.

Sophomore

During your second year, you will complete your foundation math and science classes and begin courses in engineering design.

You'll also take additional core classes and broaden your academic horizons through electives.

Junior

As you complete the basics, you will begin applying the principles you have learned. Discipline-specific design courses teach you how to devise a system, component or process to meet a desired outcome. You will also take additional electives and complete the required university core classes.

Senior

The foundation is laid and you are ready for hands-on experience. Course work designed to integrate what you've learned concludes with a senior project, working with a team to solve practical challenges.

First-Year Students

Applications to the university must be submitted online through the Office of Undergraduate Admissions. For dates and deadlines, visit

auburn.edu/admissions

Transfer Students

For detailed information on transferring to Auburn, check out auburn.edu/transfer eng.auburn.edu/transfer

International Students

Our engineering student body includes students from more than 100 countries, bringing with them contributions to the institution's diversity of academic thought, language and culture.

auburn.edu/international



ENGINEERED EDUCATION.

MAJORS

" Choosing Auburn was one of the best decisions I've ever made. I visited a few other schools with great engineering programs, but they seemed too impersonal. Auburn was different. It was a perfect fit. It had a beautiful campus, there was a great mix of people to meet, and it offered a top-notch engineering education at the same time. It just felt like what you wanted college to feel like."

Nick Kellenberger '19 Biosystems Engineering

Aerospace

Aerospace engineers apply their knowledge of aerodynamics, astrodynamics, propulsion, structures, controls and performance in the design, development, testing and analysis of aerospace vehicles and systems used for national defense, communications, earth observation, space exploration and the transport of people and goods.

eng.auburn.edu/aero

Biosystems

Options: Bioprocess, Biosystems, Ecological, Forest

Biosystems engineers ensure that we have the necessities of life: a safe and plentiful supply of food and fiber, clean water to drink, renewable fuels, alternative energy sources and a healthy environment. They combine engineering concepts with biology to meet challenges and opportunities presented by living ecosystems and the natural environment.

eng.auburn.edu/bsen

Chemical

From the medicines we take and the fuel that powers our cars to the foods we eat and the environment in which we live, chemical engineering touches every part of our lives. Chemical engineers develop, design and control processes and products that involve molecular change.

eng.auburn.edu/chen

Civil

Civil engineers conceive, plan, design, construct, operate and maintain facilities and systems that serve the basic needs of our society. From buildings, bridges and transportation systems to power and water systems, civil engineers provide the foundation of our infrastructure while also protecting the environment.

eng.auburn.edu/civil

Computer Science and Software

Degrees: Computer Science, Software

Computer scientists and software engineers design, analyze and develop software for the computer systems and networks that drive today's world, from personal computing and entertainment systems to critical applications such as medical, flight and space systems.

eng.auburn.edu/csse



ENGINEERED EDUCATION.

MINORS

"Auburn has instilled a work ethic in me and a desire to learn and better myself that I hope will translate to the study of medicine. It is a great place to learn and to grow. The faculty are knowledgeable and helpful and have gone out of their way to help me achieve my goals."

Tyler Compher '19 Chemical Engineering

Automotive Engineering and Manufacturing

Prepares students for jobs in the automotive industry **eng.auburn.edu/autominor**

Business-Engineering-Technology

A curriculum designed to bridge the gap between engineering and business cultures

eng.auburn.edu/bet

Computer Science

Provides students with fundamental programming and theory for further study in the field of computing

eng.auburn.edu/compminor

Materials Engineering

Provides basic knowledge of the structure, processing and properties of materials, with an emphasis on materials performance in engineering applications **eng.auburn.edu/matlminor**

Materials Science

Provides basic knowledge of the structure, processing and properties of materials, with an emphasis on the solid state sciences that control materials properties **eng.auburn.edu/matlminor**

Nuclear Power Generation Systems

Readies students for careers specializing in the support and service of America's nuclear power generation industry

eng.auburn.edu/nuclear

Tribology and Lubrication Science

Prepares students for careers that require specialized knowledge of friction, wear and lubrication

eng.auburn.edu/tribology



ACHIEVE YOUR DREAMS.

Our graduates move directly into lucrative engineering positions in both the private and public sector, or they pursue graduate studies that lead to a career in research and academia. The options are limitless.





The Office of Career Development and Corporate Relations

We are here for you, the Auburn Engineering student. We can provide you with professional development skills, experiential education opportunities and valuable information regarding career options available in each engineering field.

We'll also offer you access to some of the most powerful companies and organizations in the nation, all eager to hire Auburn engineers.

We'll give you the resources you need to become one of the more than two million engineers working in the U.S. today – in fields ranging from defense infrastructure to telecommunications, consumer electronics and beyond - who are making the world a better place.

For more information about Career Development and Corporate Relations, email engineering careers@auburn.edu.

DISCOVER OPPORTUNITY.

If you're happy and you know it, you might be an Auburn Engineer. The Princeton Review recently ranked Auburn University students as the happiest in the country. Auburn Engineering's fantastic opportunities for hands-on experience are just some of the many reasons why.

"One thing I think every freshman should know is that there are so many opportunities and so much assistance available to help students with their course load. It's easy to start college feeling like you're all alone, but that just isn't the case at Auburn. There are Study Partners at the library that help students understand course material, and also tutors available just for engineering majors. It's really, really beneficial."

Tyler Kynard '22 Electrical Engineering

College of Engineering Scholarships

Incoming freshmen and transfer students accepted for admission to Auburn University must complete the scholarship application (AUSOM) to receive consideration for Samuel Ginn College of Engineering scholarships. General engineering scholarships are not restricted according to major, but may be restricted according to state or county of residency, as well as financial need. Departmental engineering scholarships are awarded to those students who have declared that major on his or her admissions application. More information including important dates and deadlines can be found on the Office of University Scholarships website.

Students are encouraged to complete the Free Application for Federal Student Aid to receive financial aid. FAFSA is available online at fafsa.ed.gov and should be received for consideration of financial aid, including need-based scholarships.

eng.auburn.edu/scholarships | auburn.edu/scholarships | auburn.edu/finaid

Cooperative Education (co-op) and Internships

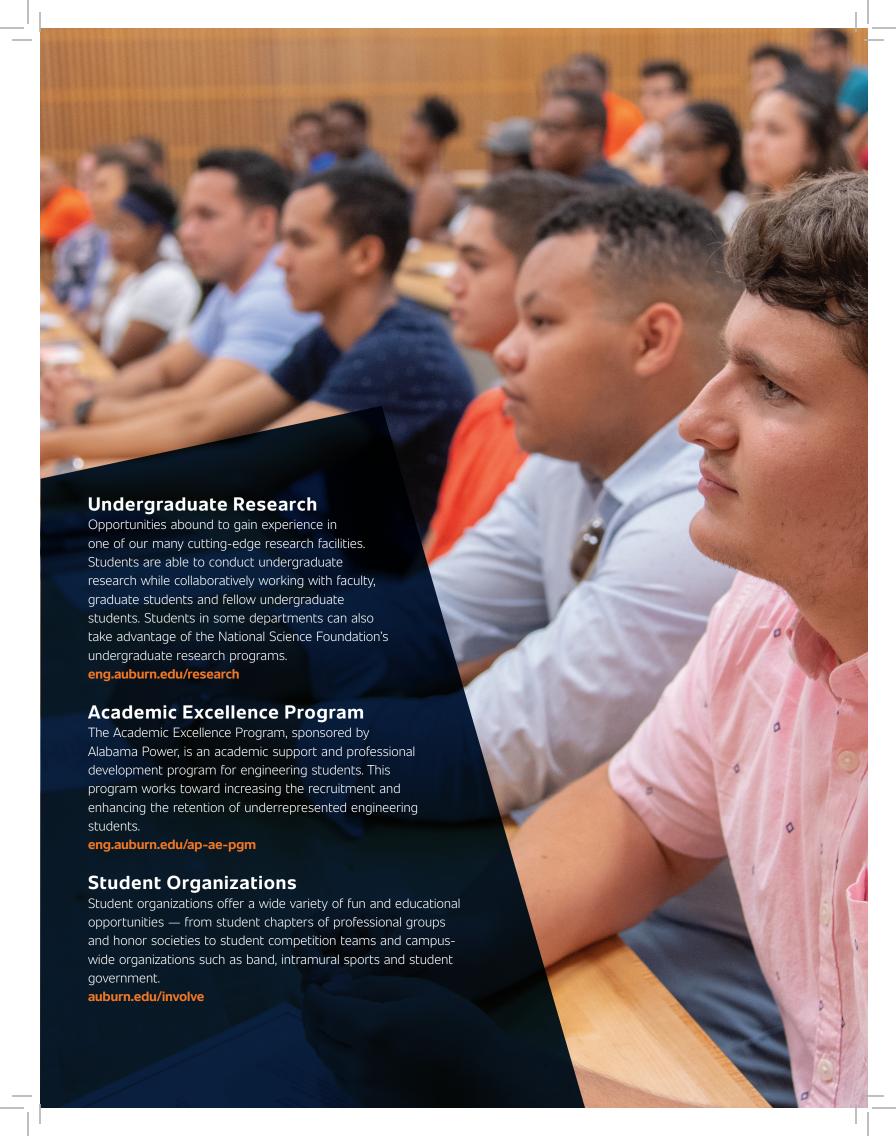
Enrich your résumé by gaining real engineering work experience before graduation. Students can visit the Office of Career Development and Corporate Relations in the Brown-Kopel Center to review their résumé, enhance their interviewing skills or secure an internship or job.

eng.auburn.edu/career | auburn.edu/co-op

Student Competition Teams

Students gain hands-on experience in competition teams that include Baja SAE all-terrain vehicles, Formula SAE race cars and unmanned aerial vehicles as well as fuel cell-powered cars, robotics, DBF, theme park, concrete canoes, steel bridge and computer programming.

eng.auburn.edu/organizations





Engineering Global Programs

Given our global economy, Auburn Engineering offers a wide range of faculty-led service, study abroad and exchange programs, including opportunities with Engineers Without Borders. One recent example? The Biomechanics and Engineering in the Arts program in Florence, Italy, where Auburn Engineers are learning about the biomechanical roots of ballet, the symphony, opera and even painting by exploring the lives and engineering influence of Leonardo Da Vinci and Giovanni Borelli, the Father of Biomechanics. If you're going to learn about the foundational relationship between art and science, why not do it in the cradle of the Renaissance?

eng.auburn.edu/global

it again. It was a great

experience."

Mechanical Engineering

Will Leitner '19



COME SEE US.

Join Us for E-Day

One of the most exciting times to visit Auburn Engineering is on E-Day, our annual engineering open house. 7th-12th graders, along with their family and friends, are invited to this free event to view departmental displays, talk with representatives from each engineering department, take tours of our facilities and gain an inside look at life on the Auburn campus. E-Day is always the last Friday in February — mark your calendar.

eng.auburn.edu/eday

Engage with Engineering Outreach

Hands-on activities and summer camps expose K-12 students to the world of engineering.

eng.auburn.edu/outreach eng.auburn.edu/summercamps

Participate in Engineering Tours and Information Sessions

We offer engineering tours and information sessions throughout the year, with the exception of holidays and weekends. The best time to schedule your visit is during the academic calendar year when you can interact with our students.

eng.auburn.edu/visit

Explore the City

Known for its friendly community and strong sense of family, Auburn University is located at the center of a lively downtown with a variety of restaurants and numerous entertainment, arts and recreational opportunities. Auburn is an easy drive to Atlanta, Montgomery, Birmingham and the Gulf Coast.

aotourism.com













SAMUEL GINN COLLEGE OF ENGINEERING

Office of Engineering Student Services

1161 Brown-Kopel Center | Auburn, Alabama 36849 334.844.7897 | futureengineer@eng.auburn.edu

eng.auburn.edu









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eng.auburn.edu/flickr

