The Auburn Advantage

Solid academics and a campus with a strong sense of place make Auburn special. Our alumni recall a friendly, safe campus with a sense of family, caring professors, academic variety and challenge, and extracurricular activities that helped them grow into leaders.

- Classic college town atmosphere
- Outstanding instruction
- Hands-on lab projects
- Research opportunities
- Co-op education and internships
- Scholarship opportunities
- Mentoring
- Academic support
- Diversified faculty and student body
- Résumé service for alumni
- Job search assistance
- Variety of career opportunities

Contact Us

Sue Ellen Abner, Administrative Assistant
Department of Chemical Engineering
230 Ross Hall
Auburn University, AL 36849
334.844.2014
seabner@eng.auburn.edu
www.eng.auburn.edu/chen
www.auburn.edu/student_info

Auburn engineers are designing advanced polymeric drug delivery systems such as sustained release contact lenses that deliver medications to the eye.
At a Glance
This diverse curriculum opens the door to a wide range of employment opportunities in industries such as manufacturing, pharmaceuticals, healthcare, pulp and paper, petrochemicals, food processing, specialty chemicals, microelectronics, electronic and advanced materials, polymers, business services, biotechnology, and environmental health and safety. The average starting salary for Auburn chemical engineers is more than $55,000.

Chemical Engineering
Auburn University first offered courses in chemical engineering in 1913. Today, the Department of Chemical Engineering, one of nine departments in the Samuel Ginn College of Engineering, ranks 25th nationally in the number of undergraduate degrees awarded.

Undergraduate Curriculum
Bachelor of Chemical Engineering with specializations available in biochemical engineering, computer control engineering, environmental chemical engineering, pre-medicine/biomedical engineering, and pulp, paper and bioresource engineering.

The department offers a balanced, challenging curriculum that prepares graduates for success, emphasizing hands-on experience through laboratory projects and state-of-the-art computer simulation.

Our program provides students with capabilities in core chemical engineering areas including material and energy balances, thermodynamics, chemical equilibrium, heat and mass transfer, reaction engineering, separations, dynamics, statistics, and control. Real-world design experience is interspersed throughout a curriculum that employs advanced computer process and control simulators and experimental control systems.

Research Areas
The Department of Chemical Engineering conducts research activities in areas such as:
- Biotechnology and biochemical engineering
- Advanced energy systems, energy conversion and utilization
- Molecularly engineered materials and nanotechnology
- Sustainable engineering and green chemistry
- Intelligent materials for medical and sensor applications
- Environmental and industrial separations
- Pharmaceuticals and drug delivery systems
- Optical methods and image processing
- Pulp, paper, and bioresource engineering
- Polymer engineering and chemistry
- Reactor design and catalysis

Laboratory Facilities
Our research facilities offer students an opportunity to develop special skills in emerging technologies. The department is affiliated with several Auburn University research centers, including:
- Pulp and Paper Research and Education Center
- Center for Microfibrous Materials Manufacturing
- Environmental Institute
- Space Research Institute

Modern analytical, process and computation equipment is available in all of our research areas. These include gas and liquid chromatographic; high-pressure reactors and fermenters; particle size analyzers; ultraviolet, visible and infrared spectrometers; atomic force microscopy; high-pressure digesters; and specialty separation equipment.

Extracurricular Opportunities
Auburn engineering students can participate in a wide variety of educational activities beyond the classroom, gaining experience with teamwork and project management.

Chemical engineering students are encouraged to participate in campus chapters such as:
- American Institute of Chemical Engineers
- Omega Chi Epsilon honor society
- Technical Association of the Pulp and Paper Industry
- Society of Women Engineers
- National Society of Black Engineers
- American Chemical Society

Advising/Support Services
To ensure progress toward completion of degree requirements, an engineering advisor, the department chair and a department undergraduate program officer are available to discuss and advise on curriculum choices and requirements. In addition, each student is assigned to a faculty member for informal consultation, personal guidance and professional advice.

Auburn Engineering is committed to helping students succeed. The following services are available at no cost:
- Study Partners mentoring program
- MentorNet e-mentoring network
- College of Engineering Tutoring Program
- BellSouth Minority Engineering Program tutors

Scholarships/Financial Assistance
Loan and grant opportunities are available, including:
- Pell grants
- Guaranteed student loans
- Research internships with professors
- Birdsong study abroad scholarships
- Departmental scholarships

As students progress, the number of available scholarships and grants increases. Although some consideration is given to financial need, most scholarship awards are based on academic achievement.