

# PATHWAYS | AEROSPACE ENGINEERING

Bachelor of Aerospace Engineering



SAMUEL GINN COLLEGE OF  
ENGINEERING

## COURSE SELECTION

### FRESHMAN

- Familiarize yourself with engineering requirements & various majors.
- Pre-engineering required: MATH 1610 & MATH 1620 (C grade or better), CHEM 1030/1031 & PHYS 1600, COMP 1200 (Matlab preferred), ENGR 1100 & ENGR 1110
- Maintain a good GPA, seek academic support early and often.

### SOPHOMORE

- Continue to meet every semester with student services coordinator. Discuss future elective options.
- Gateway courses: ENGR 2050, MATH 2630/2650, AERO 2200 (must make C or better in all courses)
- Consider adding a minor.

### JUNIOR

- Continue to meet every semester with student services coordinator. Discuss future elective options.
- Conclude Co-Op rotation if possible.
- Gateway courses: AERO 3110, 3120, 3130, 3610

### SENIOR

- Complete: AERO 4620/4630, 4710/4720, and electives
- Schedule Graduation Credit Check with ESS advisor one semester prior to graduation.
- Register for UNIV 4AA0 EN1 (the graduation list) for your final semester.

## ASK FOR ASSISTANCE

- Meet with student services coordinator each semester to discuss class schedule and academic plan.
- Check out free ESS tutoring to get off to a strong start. ([eng.auburn.edu/current-students](http://eng.auburn.edu/current-students))



Davis Hall, home of Aerospace Engineering student advising.

- Academic Support provides several free resources to improve performance including Study Partners, Supplemental Instruction and academic coaching. ([auburn.edu/academicsupport](http://auburn.edu/academicsupport))
- Visit Engineering Career Connections (1210 Shelby) & the AU Career Center to help build a resume, find out about internships, and on-campus recruiting activities.
- Work with staff in Engineering Career Connections and/or AU Career Center to explore company options, receive individualized assistance, and update your resume and cover letter.
- Update resume and cover letter. Continue developing interview skills. (see Career Center for mock interviews)
- Meet with Student Services Coordinator and Graduate Program Officer to learn about graduate school opportunities.

## GAIN EXPERIENCE

- Explore CO-OP opportunity (CO-OP orientation is 1st 3 weeks each semester)
- Attend Internship & Part-Time Job Fair in Fall/Spring. ([auburn.edu/career](http://auburn.edu/career))

- Intern and/or participate in CO-OP to add valuable work experience to your resume.
- You may pursue internships in any engineering field.
- Explore options for Study Abroad.
- Explore undergraduate research. (Utilize college website, faculty, and advisors for options)

- Attend the STEM Career Expo in Fall/Spring.
- Consider graduate school (Plan to take the GRE)
- Get involved with undergraduate research projects and explore publication options.

- Attend the STEM Career Expo in Fall/Spring, All Majors Career Fair and/or the Grad School Info Day.
- Seek job opportunities and send out resumes.

## GET INVOLVED

- Check out AU Involve ([auburn.edu/auinvolve](http://auburn.edu/auinvolve)) to identify organizations of interest.
- Check out Aerospace Engineering opportunities like The American Institute of Aeronautics and Astronautics (AIAA), University Student Launch Initiative (USLI) and Design/Build/Fly (DBF) competition teams, Auburn University Rocketry Association (AURA), Club Europa, and others. ([eng.auburn.edu/current-students](http://eng.auburn.edu/current-students))



- Join an organization & attend meetings to develop your interests, build social connections, and enhance your resume.
- Continue to participate in competition teams to expand experience and develop leadership skills.
- Pursue leadership roles in Engineering and University-wide organizations to gain experience and enhance your resume.
- Become team leads and project managers.
- Become involved with departmental alumni as a resource for job opportunities, internships and post-graduate work.

## CAREER PLANNING

### AUBURN UNIVERSITY CAREER CENTER

303 MARY MARTIN HALL | [AUBURN.EDU/CAREER](http://auburn.edu/career)

The program prepares students for entry into a variety of positions. Like all engineering fields, critical thinking and problem solving ability are to being successful. Aerospace engineers are especially concerned with aerodynamics, propulsion, dynamics, and a variety of challenges associated with flight both in and beyond the atmosphere.



Mary Martin Hall, home of the Auburn University Career Center

Updated: May 26, 2016

ENGINEERS IN LEADERSHIP - VARIOUS  
MINIMUM EDUCATION: B.A.E.

ENTRY LEVEL SALARY RANGE: \$85.5K - \$124.4K

MISSILE SYSTEMS ENGINEER  
MINIMUM EDUCATION: B.A.E.

ENTRY LEVEL SALARY RANGE: \$60.0K - \$83.9K

AERODYNAMICS ENGINEER  
MINIMUM EDUCATION: B.A.E.

ENTRY LEVEL SALARY RANGE: \$63.0K - \$108.3K

These are just three options out of many that aerospace engineering majors pursue. For more career options be sure to check out "What Can I Do With a Major In..." on [auburn.edu/career](http://auburn.edu/career).