

PATHWAYS | BIOSYSTEMS ENGINEERING



SAMUEL GINN COLLEGE OF
ENGINEERING

Bachelor of Biosystems Engineering

Bachelor of Biosystems Engineering
Ecological Engineering option

Bachelor of Biosystems Engineering
Forest Engineering option

COURSE SELECTION

FRESHMAN

- Familiarize yourself with engineering requirements and explore interest areas
- Gateway courses: MATH 1610/1620, PHYS 1600, CHEM 1030/1031, ENGR 1110/1100

SOPHOMORE

- Maintain a good GPA, seek academic support early and often.
- Discuss appropriate electives and minor options with your advisors.
- Gateway courses: MATH 2630/2650, ENGR 2050, BIOL 1020/21

JUNIOR

- Continuing developing knowledge
- Work with faculty advisor, begin to select elective courses that align with your future goals
- Gateway courses: BSEN 3310/3230, BIOL 3200, CHEM 1040, STAT 3010

SENIOR

- Continue to ensure your courses align with your career interest
- Synthesize skills to complete senior design project
- Gateway courses: BSEN 4300/5220,

ASK FOR ASSISTANCE

- Meet with your assigned faculty advisor each semester to discuss class schedule and academic plan
- Check out free tutoring, study partners and academic coaching to get off to a strong start



Corley Building, home of Biosystems Engineering student advising.

- Utilize all areas of academic support to improve your performance: free individual and group tutoring and Study Partners
- Visit the Engineering Career Connections Office and/or the AU Career Center to help build a resume, find out about internships and on campus recruiting activity
- Meet with your faculty advisor to register for classes in your major field
- Meet with someone in Engineering Career Connections and/or AU Career Center to explore company options, receive individualized assistance and update your eportfolio, resume, and cover letter.
- Meet with BSEN faculty and the AU Career Center to explore career options, receive individualized assistance and update your eportfolio, resume, and cover letter sample.
- Meet with Graduate Advisors in your department to learn about graduate opportunities

GAIN EXPERIENCE

- Attend CO-OP orientation
- Attend Internship and Part-Time Fair-Fall and/or Spring semester
- Visit the Engineering Career Connections Office to help build a resume, find out about internships and on campus recruiting activity
- Participate in an internship or CO-OP, this adds valuable experience to your resume
- Prepare professional eportfolio
- Attend the BSEN Career Fair in Spring
- Consider study abroad opportunities and seek out undergraduate research projects
- Update eportfolio
- Attend professional development conferences, the STEM Career Expo, take industry tours
- Attend the BSEN Career Fair in Spring
- If pursuing graduate school get involved with undergraduate research projects.
- Attend the STEM Career Expo, All Majors Career Fair and/or the Graduate and Professional School Fair
- Update eportfolio and prepare for job interviews
- Attend the BSEN Career Fair in Spring

GET INVOLVED

- Check out the engineering student organizations in your area of interest
- The American Society of Agricultural and Biological Engineers (ASABE) student branch is a professional organization for students interested in engineering for sustainable tomorrow



- Join other BSEN students in international engineering competitions for design, undergraduate research, essay competition and video production, and War Eagle Pullers (1/4 scale tractor team)
- Volunteer and seek out opportunities that cater to your interests and also challenge you to get out of your comfort zone
- Utilize AUIinvolve (auburn.edu/auinvolve) to identify organizations of interest to attend meetings and enhance your resume
- Pursue leadership roles in the ASABE student branch organization
- Alpha Epsilon is the honor society for biosystems engineers that is dedicated to recognizing your academic achievements
- Pursue leadership roles in other organizations

CAREER PLANNING

AUBURN UNIVERSITY CAREER CENTER

303 MARY MARTIN HALL | AUBURN.EDU/CAREER

The program prepares graduates to apply engineering principles to the challenges and opportunities presented in biological systems, natural resources, and the environment. They can be found in a variety of areas including bioenergy, water resources, engineering, forest operations engineering, watershed modeling, stream and river restoration and others.

ENVIRONMENTAL ENGINEER
MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$45K - \$65K

STORM WATER ENGINEER
MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$45K - \$70K

PLANT/PROCESS ENGINEER
MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$50K - \$75K

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



Mary Martin Hall, home of the Auburn University Career Center

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