

PATHWAYS | INDUSTRIAL AND SYSTEMS



SAMUEL GINN COLLEGE OF
ENGINEERING

Bachelor of Industrial & Systems Engineering

COURSE SELECTION

FRESHMAN

- Familiarize yourself with engineering requirements and explore interest areas
- Pre-engineering required: MATH 1610 & MATH 1620, CHEM 1030/1031 & PHYS 1600, COMP 1200 (MATLAB), ENGR 1100 & ENGR 1110

SOPHOMORE

- Maintain a good GPA, seek academic support early and often.
- Required courses:
- Fall or Spring: STAT 3600 (C grade or better)
- Spring: MATH 2660, STAT 3610/3611, Spring only : INSY 3020/3021
- Choose Engineering elective.
- Consider adding a minor.

JUNIOR

- Required courses:
- Fall only: INSY 3010,3400 (C or better), 3410 (C or better), Stat 3610/3611
- Spring only: INSY 3420, 3700, 3800
- Fall or spring: INSY 3600, Tech elective

SENIOR

- Required courses:
- Fall only: INSY 4330, 4500, 4700
- Spring only: INSY 4800
- Choose 2 INSY electives and 1 Tech elective.
- 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 your assigned ESS academic advisor 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)
- Enroll in ISE department email list. (email to simslua@auburn.edu)

- Academic Support provides several *free* resources to improve performance including Study Partners, Supplemental Instruction and academic coaching. (auburn.edu/academicsupport)

- Visit Engineering Career Connections & the AU Career Center to help build a resume, find out about internships and on-campus recruiting activities.
- Attend ISE advising in 3301 Shelby Center

- 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 Graduate Advisors in your department to learn about graduate opportunities.

GAIN EXPERIENCE

- Explore CO-OP opportunity with start date summer semester after sophomore year.
- Attend Internship & Part-Time Job Fair in fall/spring. (auburn.edu/career)
- Attend technical seminars.
- Explore ISE Jobs Portal.

- Consider internships and/or CO-OP to add valuable work experience to your resume.

- Pursue internship if not CO-OP.

- Explore options for Study Abroad.

- Explore undergraduate research.

- Use Tiger Recruiting Link (TRL) to explore employers actively hiring in your field and search part-time jobs that can add experience to your resume (jobs.auburn.edu).



TIGER RECRUITING LINK
jobs.auburn.edu

- Attend the STEM Career Expo
- Consider graduate school. Apply to Accelerated Masters Program if qualified.
- Get involved with undergraduate research projects.
- Attend the STEM Career Expo, All Majors Career Fair and/or the Graduate and Professional School Fair.
- Seek job opportunities and send out resumes.

GET INVOLVED

- Join at least one professional society such as Society of Women Engineers (SWE), Society of Hispanic Professional Engineers (SHPE), National Society of Black Engineers (NSBE), or Engineers Without Borders (EWB). (abet.org/about-abet/member-societies/list-of-member-societies)



- You may also consider joining departmental organizations like Institute of Industrial and Systems Engineers (IISE), Institute for Operations Research and the Management Sciences (INFORMS), American Society of Safety Engineers (ASSE), and Human Factors and Ergonomics Society (HFES)
- Attend at least one professional society meeting.

- Join an organization & attend meetings to develop your interests, build social connections, and enhance your resume

- Pursue leadership roles in Engineering and University-wide organizations to gain experience and enhance your resume.

- 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 provides educational experiences that prepares students to enter into a variety of fields like the service industry, entertainment, shipping and logistics, and healthcare. Though the programs includes multiple opportunities for in-class experience, exceptional candidates will want to seek out industry related experience as well.

BUSINESS ANALYST

MINIMUM EDUCATION: B.I.S.E./B.S.

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

MANUFACTURING ENGINEER

MINIMUM EDUCATION: B.I.S.E.

ENTRY LEVEL SALARY RANGE: \$60.5K - \$109.2K

TECHNICAL SALES REPRESENTATIVE

MINIMUM EDUCATION: B.I.S.E./B.S.

ENTRY LEVEL SALARY RANGE: \$29.5K - \$74.2K

These are just three options out of many that industrial & systems 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

Updated: May 26, 2016

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