

PATHWAYS | MATHEMATICS

Bachelor of Science in Mathematics



COLLEGE OF
SCIENCES &
MATHEMATICS

COURSE SELECTION

FRESHMAN

- By taking core classes, develop a basic understanding how mathematics can be useful in other courses.
- Take Pre-Cal course if you have not already taken it so as to be ready to start with the Calculus sequence.

SOPHOMORE

- Develop a more advanced understanding of the calculus concepts and skills in differential equation and linear algebra. Plan to finish all the MATH 2000 level and MATH3100 courses.

JUNIOR

- Complete MATH3100 so that you are ready to take advanced courses in Abstract Algebra, Analysis, and Numerical Analysis.

SENIOR

- Bring together your understanding of mathematical concept including modeling, proofs, and applications.
- Take the GRE/subject GRE during the fall semester if you plan on going to graduate school.

ASK FOR ASSISTANCE

- Meet with your academic advisor regularly for individual planning and guidance.
- Math department provides free tutoring for most 2000-level courses; free tutoring also available from Study Partners and COSAM's Drop-In Center.
- Talk to your faculty advisor in Parker Hall about selecting a minor that fits your academic and professional goals.
- Discuss with your faculty advisor your interest in graduate studies.
- Meet with someone in the Career Center to explore career options and receive individual assistance.
- Talk to your faculty advisor about internships.
- Consider participating in a study abroad program.
- Begin exploring graduate program options and preparing for Graduate Record Examinations (GRE). Also, find out if your intended program requires a subject specific GRE
- Ask the Career Center for help in preparing your resume (CV) and statement of intent, for use in graduate school and job applications.
- Identify your reference letter writers early and provide plenty of notice for writing your letters.

GAIN EXPERIENCE

- Attend the Wednesday Graduate Students Seminar in Parker Hall to hear from Math Faculty and Graduate Students about research being done in the department.
- Use LinkedIn (linkedin.com/alumni) to identify past graduates of the department to set up informal interviews and gain understanding of uses of mathematics in the workplace.
- Volunteer to help a professor with a research project and talk the professor for the possibilities about conducting your own research.
- Attend department colloquia as well as conferences, like the Alabama Academy of Sciences (AAS) and of the Mathematical Association of America (MAA), to get professional exposure.
- Apply for Undergraduate Teaching Assistantship (UTA) in the tutoring center or in some mathematics courses in order to gain experience in teaching.
- If you are planning to go for Graduate Studies, consider enrolling in the Undergraduate Research Course.
- Continue working as UTA to enhance your chances of being awarded an assistantship for your graduate work.
- Attend career events like the All Majors Career Expo.
- Present your research at AU Research Week, AAS, SIAM, and MAA meetings.

GET INVOLVED

- Join the AU Math Club to connect with and receive advice from other undergraduates, and attend informative events with featured speakers.
- Attend meetings of Council of Undergraduate Mathematics Students at Auburn (CUMSA) where you can share your advice and make your concerns known.
- Utilize AUInvolve (auburn.edu/auinvolve) to identify organizations of interest to attend meetings and enhance your resume.
- Attend meetings of the AU Math Club and of CUMSA to share your suggestions and for networking with seniors.
- Explore leadership opportunities within AU Math Club, CUMSA, GSA and other organizations to develop practical skills and abilities. Leadership can be a great way to gain related experience.
- Become a student member of a professional organization, such as the MAA, SIAM, and AAS, and attend their meetings in order to stay current in the field and take advantage of networking opportunities.



CAREER PLANNING

AUBURN UNIVERSITY CAREER CENTER

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

This program allows for a great variety of selection in the courses that you would like to pursue. Many of the career options in this field require graduate education and so your academic performance will be especially important. Also, be sure to advantage of opportunities within the department to gain experience.

OPERATION RESEARCH ANALYST
MINIMUM EDUCATION: B.S.

ENTRY LEVEL SALARY RANGE: \$52.3K - \$88.9K

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

QUANTITATIVE FINANCIAL ANALYST
MINIMUM EDUCATION: B.S./M.S.

ENTRY LEVEL SALARY RANGE: \$30.0K - \$69.6K

UNIVERSITY PROFESSOR
MINIMUM EDUCATION: Ph.D.

ENTRY LEVEL SALARY RANGE: \$39.5K - \$74.5K



Mary Martin Hall, home of the Auburn University Career Center

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