

MATHEMATICS

MATH UNDERGRADUATE

MAJOR MAP



LEARN

EXPERIENCE

NETWORK

POST-GRAD
PREP

YEAR 1

- [MATH 125](#) Calculus I – the Math Pathway course (Fulfills your Core 34 Math & Statistics requirement)
- [MATH 126](#) Calculus II
- Begin Core 34 general education
- Visit the [University Career Center](#)
- Get to know the [Math Department](#) & its faculty
- Explore a minor, double major, or the Actuarial Science certificate, STEM Teach
- Join [Math Club](#)
- Create a KU Mentoring profile
- Book a “Getting Started” appointment at the [University Career Center](#)
- Explore your career with [PathwayU](#)
- Check out a first-year friendly [Career Fair](#)

YEAR 2

- [MATH 127](#) Calculus III
- [MATH 290](#) Elementary Linear Algebra
- [MATH 320 / 220 / 221](#) Differential Equations
- [MATH 590](#) Linear Algebra
- Apply for internships in data, tech, or actuarial work
- Explore undergraduate research (REU) opportunities
- Attend department colloquia & seminars
- Apply for mathematics scholarships
- Log into [Handshake](#) and fill out your profile
- Book a resume appointment with a [Career Advisor](#) or check out [SkillsFirst](#)
- Check out [Mocktails & Mingle](#) and network with professionals!

YEAR 3

- [MATH 558](#) Introductory Modern Algebra
- Begin a List A/B sequence & a Math Application sequence
- Pursue a summer REU or faculty research project
- Build coding skills: Python, R, MATLAB
- Create and maintain a [LinkedIn](#) account
- Identify professors who can serve as strong references
- Explore job simulations through Forage OR secure an internship
- Use [Skillsfirst](#) to develop resumé and interview skills.
- Check out the [Career and Internship Expo](#)

YEAR 4

- [MATH 600](#) Advanced Calculus (Satisfies your Capstone requirement)
- Finish your second math sequence & electives (450+)
- Reach 24 hrs of advanced math
- Complete 120 total hours
- Complete a reading or research project
- Assemble a portfolio of projects & code
- Apply for departmental scholarships & awards
- Present your research at a symposium
- A mock interview and feedback with a [UCC advisor](#)
- Get the inside scoop on top companies at [Vault](#)
- Visit the Career and Internship Expo and Just in Time Career Fair

WHERE DO KU
MATHEMATIC
GRADUATES
WORK?

Data & Analytics

Data scientists & analysts
Statisticians
Operations research analysts

Finance & Insurance

Actuaries
Financial & quantitative analysts

Technology

Software developers
Machine learning engineers

Education

Secondary math teachers
Postsecondary teachers & professors

Government & Research

Mathematicians
Cryptographers & intelligence analysts

SCAN QR CODE

