**Math BS / Accelerated 3-Year Plan (Sample)**

This academic map is a sample 3-year schedule to complete your major in an accelerated format. This map is not a substitute for academic advisement. Contact your advisor when making final selections. Courses in red text should be taken in the semester shown. This will help you graduate on time.

* Denotes courses offered in consecutive 8-wk format.

### Fall Year 1
- **INTDIS 1003: University Studies**
- **ENGL 1100: First-Year Writing**
- **MATH 1030: College Algebra**
- **MATH 1035: Trigonometry**
- **GEN ED: Humanities and Fine Arts**
- **GEN ED: US History and Gov't**

### Fall Year 2
- **MATH 2000: Analyt. Geom. and Calc III**
- **MATH 3250: Foundations of Math.**
- **MATH 2020: Intro to Differential Equat.**
- **GEN ED: Social Sciences**
- **GEN ED: Communication**
- **Elective or Minor**

### Fall Year 3
- **MATH/CMP SCI/STATS 4000+ Elective**
- **MATH 4400: Intro to Abstract Algebra I**
- **GEN ED: Social Sciences**
- **Cultural Diversity Requirement**
- **Elective or Minor**
- **Elective or Minor**

### Spring Year 1
- **CMP SCI 1250: Intro to Computing**
- **MATH 1320: Intro to Prob. and Stats**
- **MATH 1800: Analytic Geom. & Calc. I**
- **GEN ED: US History and Government**
- **GEN ED: Humanities and Fine Arts**
- **GEN ED: Social Sciences**

### Spring Year 2
- **MATH 4100: Real Analysis I**
- **MATH/CMP SCI/STATS 4000+ Elective**
- **MATH/CMP SCI/STATS 4000+ Elective**
- **Related Area Elective**
- **Related Area Elective**
- **ENGL 3130: Technical Writing**

### Spring Year 3
- **MATH 4160: Complex Analysis**
- **MATH 4450: Linear Algebra**
- **Related Area Elective**
- **GEN ED: Humanities and Fine Arts**
- **Elective or Minor**
- **Elective or Minor**

### Summer Year 1
- **MATH 1900: Analyt Geom. and Calc. II**
- **MATH 2450: Elementary Linear Algebra**

### Summer Year 2
- **Elective or Minor**
- **Elective or Minor**

---

**Control the pace** by taking courses in the two-week January term or as Advanced Credit (ACP) courses in high school to jumpstart your degree program.

University of Missouri - St. Louis | 304 JC Penney Building | St. Louis, MO 63121
(314) 516-7005 | degreein3@umsl.edu | www.umsl.edu/degreein3
**Example Careers**
- Actuaries
- Mathematicians
- Statisticians
- Operations Research Analysts
- Computer Systems Analysts
- Financial Analysts
- Postsecondary Teachers
- Survey Researchers

**SKILLS**
- Write clear, logically consistent proofs.
- Read, understand and assess the veracity of logical arguments or mathematical proofs.
- Reformulate problems or questions in relevant mathematical terms.
- Solve problems which involve analysis, algebra or linear algebra, elementary number theory.
- Interpret, formulate and solve applied problems in probability and statistics.
- Interpret, formulate and solve applied problems in mathematics relating to annuities, bonds and derivative investments.

**CAREER OUTLOOK**
The logical and analytical skills fostered through the study of mathematics are attractive to a wide range of employers such as banking, finance, research groups, software engineers, computer systems analysts, statisticians (Bureau of Labor Statistics, Bureau of the Census, NSA, Department of Defense, etc.), and insurance companies for careers in actuarial science.

**TAKE THE NEXT STEP**
**Ready to be an UMSL Triton?**
www.umsl.edu/admissions

University of Missouri - St. Louis
Degree in 3
304 JC Penney Bldg
St. Louis, MO 63121-4400
(314) 516-7005

UMSL Office of Admissions
(314) 516-5000