

## What will I be studying?

The undergraduate mathematics program offers a diversity of courses designed not only to enable the student to pursue a profession in mathematics itself, but also to enhance the student's competence in the fields of engineering, the physical sciences, the life sciences, and the social sciences. The program emphasizes the broad nature of modern mathematics and its close associations with the real world and prepares students for careers in industry or secondary education, as well as entry into graduate school.

## Career Ideas!

**Mathematicians can work in any industry or any government agency in a variety of roles\*\*:**

- ❖ Economist
- ❖ Education
- ❖ Computer Programmer Systems
- ❖ Systems Analyst
- ❖ Actuary
- ❖ Data miner
- ❖ Market Research Analyst
- ❖ Financial Analyst
- ❖ Post-secondary Academia & Research
- ❖ Data Analyst/Scientist
- ❖ Statistician
- ❖ Insurance Underwriter

\*\*Please note this is not a complete list of careers



**Science Center (SCA) 239**



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[math.usf.edu](http://math.usf.edu)

## Contact Us

**USF Math Club**

**Nagle Lectures**

**American Mathematical Society**

**Mathematical Association of America**

**Society of Actuaries**

## Get Involved!

# Example Four Year Plan

Year 1		
Fall	Spring	Summer
Supporting Science and Lab (CHM, BSC, EVR, PHY)	STA 2023: Introductory Statistics I	Enhanced Gen-Ed: Info & Data Literacy
MAC 2311: Calculus I**	MAC 2312: Calculus II	Non-Major Elective
ENC 1101: Composition 1	ENC 1102: Composition 2	
Core Humanities	Enhanced Gen-Ed: Creative Thinking	
Total Hours: 14	Total Hours: 13	Total Hours: 6
Year 2		
Fall	Spring	Summer
COP 2030	Major: Elective Requirement	Upper-Level Non-Major Elective
MAC 2313: Calculus III	STA 4442: Introduction to Probability	Upper-Level Non-Major Elective
ST 3024: Introductory Statistics II	Enhanced Gen-Ed: Human/Cultural Diversity	
Core Social Science Course	Non-Major Elective	
Total Hours: 13	Total Hours: 12	Total Hours: 6
Year 3		
Fall	Spring	Summer
STA 4321: Introduction to Mathematical Statistics I	MAS 3156: Vector Calculus	
STA 4102: Computation Methods for Applied Statistics	MAS 3114: Computational Linear Algebra	
Enhanced Gen-Ed: Ethical Reasoning & Civic Engagement	Enhanced Gen-Ed: High Impact Practice	
Non-Major Elective	Upper-Level Non-Major Elective	
Non-Major Elective	Non-Major Elective	
Total Hours: 15	Total Hours: 15	Total Hours: 0
Year 4		
Fall	Spring	Total Credits to Graduation
MAP 4103: Mathematical Modeling	ISM 4117: Data Mining & Predictive Analytics	<b>Major Requirements:</b> 55 credit hours
MAP 2302: Differential Equations	ISM 4930: Selected Special Topics	
Upper-Level Non-Major Elective	Upper-Level Non-Major Elective	<b>General Education Requirements:</b> 27 credit hours
Upper-Level Non-Major Elective	Non-Major Elective	
Non-Major Elective	Non-Major Elective	<b>Other Degree Requirements:</b> 39 credit hours
Total Hours: 15	Total Hours: 12	Total= 120 - 121

\*\*May require completion of additional math pre-requisites (consider the [MPT](#) or [CPT](#) exams)