Mathematics, B.A.
Applied Concentration

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:

Actuary

Operations and Research Analyst

Engineering

Secondary Math Education

Mathematician

Computer Programmer

Physicist & Astronomer

Meteorology

Accountancy, Finance or Banking

Science Center (SCA) 239

mathadvise@usf.edu

www.

Contact Us

USF Math Club

Nagle Lectures

American Mathematical Society

Mathematical Association of America

Society of Actuaries

Career Services

Get Involved!

Mathematics and Statistics Department
Mathematics – Applied Concentration, B.A.

Example Four Year Plan

Year 1

Fall	Spring	Summer
Supporting Science and Lab (CHM, BSC, GLY, PHY)	Supporting Science and Lab (CHM, BSC, GLY, PHY)	Non-Major Elective
MAC 2311: Calculus I**	MAC 2312: Calculus II	Enhanced Gen-Ed: Info & Data Literacy
ENC 1101: Composition 1	ENC 1102: Composition 2	
Core Humanities	Enhanced Gen-Ed: Creative Thinking	
Total Hours: 14	Total Hours: 14	Total Hours: 6

Year 2

Fall	Spring	Summer
MAC 2313: Calculus III	Foreign Language Level 2	Upper-Level Non-Major Elective
Foreign Language Level 1	MGF 3301: Bridge to Abstract Math	Upper-Level Non-Major Elective
Enhanced Gen-Ed: Human/Cultural Diversity	MAP 2302: Differential Equations	
Core Social Science Course	Non-Major Elective	
Total Hours: 14	Total Hours: 13	Total Hours: 6

Year 3

Fall	Spring	Summer
MAS 3105: Linear Algebra	COP 4313: Symbolic Computation	
MAS 3156: Vector Calculus	MAS 4301: Elementary Abstract Algebra	
Non-Major Elective	MAP 4341: Introduction to Partial Differential Equations	
Non-Major Elective	Enhanced Gen-Ed: High Impact Practice	
Non-Major Elective	Non-Major Elective	
Total Hours: 15	Total Hours: 15	Total Hours: 0

Year 4

Fall	Spring	Total Credits to Graduation
Major: Numerical/Algorithms Requirement	Major: Statistics/Probability Requirement	**Major Requirements:** 53 credit hours
Major: Upper-Level Elective Requirement	Major: Discrete Requirement	
Enhanced Gen-Ed: Ethical Reasoning & Civic Engagement	Upper-Level Non-Major Elective	**General Education Requirements:** 27 credit hours
Upper-Level Non-Major Elective	Non-Major Elective	
		Other Degree Requirements: 41 credit hours
Total Hours: 12	Total Hours: 12	Total= 120-121

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