

Where It Can Take You

Critical thinking skills developed while studying mathematics apply across a range of fields. What about becoming a climate analyst, mathematical biologist, actuary, or a computer programmer? Banking and teaching are always in demand, or you can continue to graduate school in a STEM field of science, technology, engineering, or mathematics.

Become a Leader

actuary
animator
appraiser
banker
climate analyst
commodities trader
computer programmer
cryptoanalyst
epidemiologist
foreign exchange trader
forensic analyst
market research analyst
pollster
professor
research scientist
software engineer
statistician
systems biologist
teacher
technical writer
underwriter

Learn More

www.cnso.nova.edu

B.S. in Mathematics

Realize your full potential in mathematics. Accept new challenges and learn new aspects of a foundational field. Go beyond the numbers and build skills in critical thinking crucial for careers in science, business, and technology.

What you'll study

Core courses in laboratory science and calculus progress into advanced study of pure and applied mathematics. A large selection of electives investigates important aspects of analysis, algebra, and probability.

How you'll learn more

Participate in the mathematics colloquium series and hear about new research and applications. Compete in a brain bowl contest or be involved in a Pi Day event. Consider a research project with a faculty mentor or obtain an internship in a STEM field.

Unique Opportunities

- student symposium: present your research or analytical work; awards presented
- local, national conferences: attend or present your work based on your interests
- clinic exploration program: shadow health professionals at one of NSU's health clinics
- lab facilities: gain hands-on experience with chemical instrumentation and equipment used in industry/research facilities
- climate-sustainability lecture series: learn about the science, technology, and policies relating to climate change and sustainable development
- national honor societies: join based on your academic achievement



Mathematics

BACHELOR OF SCIENCE

Mathematics Major Curriculum 2015–2016

Students are required to complete 30 credit hours as part of the General Education Program.

MATHEMATICS MAJOR REQUIREMENTS (53 Credits)

Core Courses (27 credits)			Credits
MATH 2100	Calculus I		4
OR			
MATH 2100H	Calculus I Honors		4
MATH 2200	Calculus II		4
OR			
MATH 2200H	Calculus II Honors		4
MATH 2500	Introduction to Advanced Mathematics		3
OR			
CSIS 2050	Discrete Mathematics		3
MATH 3200	Calculus III		4
MATH 3300	Introductory Linear Algebra		3
MATH 3400	Ordinary Differential Equations		3
MATH 4050	Advanced Calculus I		3*
OR			
MATH 4350	Abstract Algebra I		3*
MATH 4060	Advanced Calculus II		3*
OR			
MATH 4360	Abstract Algebra II		3*

*Can be counted only once, either as a core course requirement or a major elective requirement

Note: 6 credits of MATH may fulfill the General Education requirements.

Laboratory Science 8 credits

Select 8 credits from the following courses:			Credits
CHEM 1300	General Chemistry I/Lab		4
OR			
CHEM 1300H	General Chemistry I/Lab Honors		4
CHEM 1310	General Chemistry II/Lab		4
OR			
CHEM 1310H	General Chemistry II/Lab Honors		4
CSIS 2101	Fundamentals of Computer Programming		4
CSIS 3101	Advanced Computer Programming		4
PHYS 2350	General Physics I/Lab		4
PHYS 2360	General Physics II/Lab		4
PHYS 2400	Physics I/Lab		4
PHYS 2500	Physics II/Lab		4

Note: 6 credits of CHEM/PHYS may fulfill the General Education requirements.

Major Electives (18 credits)

Select 18 credits from the following courses:			Credits
MATH 3050	Mathematics and Biology		3
MATH 3260	Combinatorics		3
MATH 3270	Logic		3
MATH 3340	Linear Algebra II		3
MATH 3350	Number Theory		3
MATH 3450	Elementary Differential Geometry		3
MATH 3900	History of Mathematics		3
MATH 4050	Advanced Calculus I		3*
MATH 4060	Advanced Calculus II		3*
MATH 4100	Introduction to Topology		3
MATH 4200	Complex Variables		3
MATH 4300	Numerical Methods		3
MATH 4350	Abstract Algebra I		3*
MATH 4360	Abstract Algebra II		3*
MATH 4400	Partial Differential Equations		3
MATH 4450	Basic Probability		3
MATH 4500	Probability and Statistics		3
MATH 4600	Introduction to Applied Mathematics		3
MATH 4700	Applied Cryptography		3
MATH 4900	Special Topics in Mathematics		3
MATH 4950	Internship in Mathematics		1–12
MATH 4990	Independent Study in Mathematics		1–3

*Can be counted only once, either as a core course requirement or a major elective requirement

The following courses are excluded for credit toward the mathematics major:

MATH 3030	Applied Statistics II	3
MATH 4020	Applied Regression Analysis	3
MATH 4040	Applied Multivariate Statistical Analysis	3
MATH 4080	Introduction to Statistical Computations	3

This publication should not be viewed as a substitution for official program requirements and outcomes. A student is responsible for meeting the curriculum and program requirements in the *Undergraduate Student Catalog* that are in effect when the student enters the program.

Nova Southeastern University admits students of any race, color, sexual orientation, and national or ethnic origin. ■ Nova Southeastern University is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award associate's, baccalaureate, master's, educational specialist, doctorate, and professional degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Nova Southeastern University. 09-083-15_60PGA

Admissions

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NOVA SOUTHEASTERN
UNIVERSITY

Halmos College of Natural
Sciences and Oceanography