



What can I do with a degree in math?

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Major Checklist

Have you taken everything you need? Check the list of courses below. Course descriptions follow the list.

Mathematics Courses

- MATH 270: Calculus I
- MATH 301: Calculus II
- MATH 302: Calculus III
- MATH 320: History of Mathematics
- MATH 350: Differential Equations
- MATH 360: Fundamentals of Mathematics
- MATH 462: Linear Algebra
- STAT 425: Basic Theory of Statistics I
- 18 hours MATH/STAT electives (Upper level mathematics and statistics electives must be approved by the Department.)

Other Courses

University

- UNIV 100: First Yr Seminar: Cajun Connection

Computer Science

- CMPS 150: Introduction to Computer Science

English

- ENGL 101: Introduction to Academic Writing
- ENGL 102: Writing & Research About Culture
- ENGL 365: Technical Writing
- 3 hours English electives (Literature)

Other Electives

- 3 hours arts electives (Must be selected from DANC, MUS, THEA, VIAR.)
- 3 hours history electives (Electives must be approved by the Department.)
- 6 hours behavioral sciences electives (Must be chosen from ANTH, ECON, GEOG, POLS, PSYC, or SOCI)

- 9 hours behavioral sciences electives (must be chosen from ANTH, ECON, GEOL, POLS, PSYC, or SOCI. At least one behavioral sciences elective must be at the 200 level or above.)
- 9 hours science electives (Science electives are to be chosen from both biological (BIOL or ENV5 150) and physical (CHEM, GEOL, or PHYS) sciences, two courses of which must be from the same science.)
- 3 hours humanities electives (Electives must be approved by the Department.)
- 33 hours free electives (Sufficient number of semester hours of electives must be at the 300 or 400 level in order to meet the requirement of 45 semester hours of 300 or 400 level courses. Electives must be approved by the Department.)

Course descriptions for required courses

- UNIV 100 – First Year Seminar
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Introduction to General Education through (often interdisciplinary) exploration of topics and contemporary interest and enduring importance. Increases knowledge and skills that improve academic success.
Rstr: Freshmen only.
- CMPS 150 – Introduction to Computer Science
3 Credit(s). 1 Hour(s) Lab. 3 Hour(s) Lecture.
Problem solving, structured design of algorithms, implementation of algorithms, and testing and debugging of programs. Data types, control structures, and abstractions. The laboratory component focuses on algorithm design and implementation.
Prereq: MATH 109 or MATH 110 or MATH 143 with a grade of C or better.
- ENGL 101 – Introduction to Academic Writing
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Designed to introduce students to the critical thinking, reading, and writing skills required in the university and beyond. Course will focus on writing effective, well-argued essays
Prereq: Minimum ACT English subscore of 18.
- ENGL 102 – Writing and Research About Culture
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Content varies. Through exploration of cultural themes, students will build on and advance the thinking, reading, and writing skills learned in English 101 while focusing on rhetoric and research. Satisfies diversity and international requirements.
Prereq: Minimum ACT English subscore of 28 or a grade of C or better in ENGL 101.
- ENGL 365 – Technical Writing
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Course in technical communication with an emphasis on practical documents. Recommended for students in technical majors and for students considering careers in technical/Professional writing.
Prereq: C or better in ENGL 102 or ESOL 102 or ENGL 115 or advanced placement, and at least 60.0 hours of credit toward degree.
Pre/Coreq: Fifteen hours credit in the student's major field.
- MATH 270 – Calculus I
4 Credit(s). 0 Hour(s) Lab. 4 Hour(s) Lecture.
Definitions, properties, and applications of derivatives and integrals. Graphing calculator required.
Prereq: Minimum ACT math score of 28 or SAT MATH score of 630, MATH 109 and MATH 110 with a grade of C or better, or MATH 143 with a grade of C or better or permission of department required.
- MATH 301 – Calculus II
4 Credit(s). 0 Hour(s) Lab. 4 Hour(s) Lecture.
Integration, applications and modeling, infinite series. Graphing calculator required.
Prereq: MATH 270 or MATH 272 with grade of C or better.
- MATH 302 – Calculus III
4 Credit(s). 0 Hour(s) Lab. 4 Hour(s) Lecture.
Partial derivatives, multiple integrals, vector fields in the plane and in space. Graphing calculator required.
Prereq: MATH 301 or MATH 309 with a grade of C or better.
- MATH 320 – History of Mathematics
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
The historical development of mathematics from ancient times to the present day. Emphasis on topics covered in high school courses.
Prereq: MATH 250 or MATH 270, MATH 251 or MATH 272 with a grade of C or better or permission of department required.
- MATH 350 – Differential Equations
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
First and second order equations, higher order equations, series solutions of second order equations, the Laplace transform, first order systems. Applications.
Prereq: MATH 301 or MATH 309 with a grade of C or better.
- MATH 360 – Fundamentals of Mathematics
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Logic, relations, functions, classification of infinite sets, cardinal numbers. Reading and writing proofs.
Prereq: MATH 250 or MATH 270, MATH 272 or MATH 251 a grade of C or better.
- MATH 450/451 – Linear Algebra

- MATH 402(G) – Linear Algebra
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Vector spaces and linear transformations. Matrices, determinants, linear systems, eigenvalues. Inner products.
Prereq: MATH 360 with a grade of C or better.
- STAT 425(G) – Basic Theory of Statistics I
3 Credit(s). 0 Hour(s) Lab. 3 Hour(s) Lecture.
Probability distributions, random variables, moments, sampling theory, estimation, hypothesis testing.
Prereq: MATH 302 with a grade of C or better.



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