



ACADEMIC CATALOG

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# Mathematics for Business, B.A.



The [Department of Mathematics and Statistics](#) offers an undergraduate program of study leading to a Bachelor of Arts (B.A.) degree in Mathematics for Business. This degree is a practical applied mathematics program that provides the flexibility that students need to choose from a variety of career paths in the corporate and commercial world, including banking, investment, and insurance agencies.

All program-level Admissions and Progression Requirements are in addition to the [University of North Carolina at Charlotte Admission Requirements](#).

# ***Admission Requirements***

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## ***Freshmen and Transfers***

- See [University Admission Requirements](#)
- *Minimum GPA:* 2.0
- *Prerequisite Courses:* GPA of at least 2.0 in each of the following categories:
  - All MATH, STAT, and OPRS courses taken
  - All 2000-level and above MATH, STAT, and OPRS courses taken
- *Transferable Credit Hours:* 24

## ***Currently Enrolled Students***

- *Declaration of Major:* Change of Major forms accepted year-round. Forms are available on the [Math Department web-site](#). Orientation/advising session is required after declaration.

# ***Degree Requirements***

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A Major in Mathematics for Business for the B.A. degree consists of a minimum of 36 hours of approved Mathematics (MATH), Operations Research (OPRS), or Statistics (STAT) courses, one programming course in Computer Science (ITCS), and 18 hours of approved related coursework in an area outside of the department or an approved University minor from outside the department.

## ***General Education Courses (31-32 credit hours)***

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For details on required courses, refer to the [General Education Program](#). Total hours to satisfy General Education Requirements may vary as some general education requirements may be double-counted in the major with departmental approval. Please see your advisor for information.

## ***Foreign Language Requirement (0-8 credit hours)***

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For details on required courses, refer to the [Klein College of Science Foreign Language Requirement](#).

## ***Major Courses (40-43 credit hours)***

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### ***Core Courses (31-34 credit hours)***

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- [ITSC 1212 - Introduction to Computer Science I](#) (4)
- [MATH 1120 - Calculus](#) (3) \*
- [MATH 2120 - Intermediate Applied Calculus](#) (3) \*
- [MATH 2164 - Matrices and Linear Algebra](#) (3)
- [MATH 2688 - Mathematics Awareness Seminar](#) (0)
- [MATH 3227 - Mathematical Theory of Interest and Applications](#) (3)
- [MATH 4051 - Computer Exploration and Generation of Data](#) (3)
- [OPRS 3111 - Operations Research: Deterministic Models](#) (3)
- [STAT 1220 - Elements of Statistics I \(BUSN\)](#) (3)
- [STAT 2223 - Elements of Statistics II](#) (3)
- [STAT 3110 - Applied Regression](#) (3)

\*Note: [MATH 1120](#) and [MATH 2120](#) may be replaced by the three-course sequence [MATH 1241](#), [MATH 1242](#), and [MATH 2241](#).

Also, [MATH 1120](#) is not equivalent to [MATH 1241](#), and [MATH 2120](#) is not equivalent to [MATH 1242](#).

## ***Restricted Elective Courses (9 credit hours)***

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Select 9 credit hours of approved courses from MATH, STAT, or OPRS at the 3000-level or above.

## ***Business Elective Courses (9 credit hours)***

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*Select three from the following:*

- ACCT 2121 - Principles of Accounting I (3)
- ACCT 2122 - Principles of Accounting II (3)
- ECON 2101 - Principles of Economics - Macro (3)
- ECON 2102 - Principles of Economics - Micro (3)
- INFO 2130 - Introduction to Business Computing (3)

## ***Related Elective Courses (18 credit hours)***

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Select 18 credit hours of electives in related courses. Elective courses should be chosen from related disciplines or an approved minor in another discipline. Students should select courses in consultation with the department and/or their advisor. Students can double count courses in a minor and the Business electives.

## ***Unrestricted Elective Courses***

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As needed to complete the credit hours required for graduation.

## ***Degree Total = 120 Credit Hours***

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## ***Cooperative Education Program***

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Students may participate in the Mathematics Cooperative Education Program in either the parallel or alternate track. The parallel track combines part-time academic study and part-time cooperative experience during the same semester, while the alternate track alternates semesters totally devoted to work with semesters totally devoted to academic study. Students in the Mathematics Cooperative Education Program must participate in a minimum of two semesters in the program. Students who are in good standing with the University, have a minimum overall GPA of 2.5, and have completed 30 credit hours are eligible to apply. Transfer students are required to complete 12 credit hours at the University prior to application. Students interested in participating in the program should contact the Coordinator of Undergraduate Programs in the Department of Mathematics and Statistics or the University Career Center for information.

## ***Progression Requirements***

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An overall GPA of at least 2.0 and a GPA of at least 2.0 in all math courses is required.

## ***Honors Program***

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For details about the Honors Program in Mathematics, visit the [program page](#).



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