



UNC
COLLEGE OF
ARTS & SCIENCES

THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

DEPARTMENT OF MATHEMATICS

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DATE: September 15, 2016

TO: Administrative Boards of the College of Arts and Sciences and the General College

FROM: Jeremy Marzuola, Director, Undergraduate Studies
Rich McLaughlin, Chair, Department of Mathematics

RE: Proposed changes to degree requirements for the Mathematics Major

Dear Administrative Boards:

We are writing to propose two changes to the degree requirements for obtaining degrees in Mathematics. The Undergraduate Committee and the faculty in the Department of Mathematics have approved these changes, effective in the 2017-2018 academic year, pending approval by the Administrative Boards.

(1) In the **Mathematics Major B.S. – Applied Option**, the series of courses 383L/528L/529L will be added to the selection of core requirement courses for the current degree requirements as follows:

One line of **Mathematics Major B.S. – Applied Option** reads:

“Five of MATH 522, 523, 524, 528, 529, 535, 548, 564, 566, 661, 668; with at least three from 528, 529, 564, 566, 661, 668.”

This line is to be replaced with the following:

“Five of MATH 522, 523, 524, 528, 529, 535, 548, 564, 566, 661, 668, (Sequence 383L, 528L and 529L) with at least three from MATH 528, 529, 564, 566, 661, 668, (Sequence 383L, 528L and 529L).”

(2) One line of **Mathematics Major B.A.** reads:

“At least three more MATH courses numbered above 500, excluding MATH 528L and 529L.”

This line is to be replaced with the following:

“At least three more MATH courses numbered above 500, including (Sequence 383L, 528L, and 529L).”

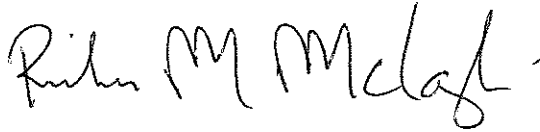
With the changes proposed in both (1) and (2), students wishing to major in the **Mathematics Major B.S. – Applied Option** and **Mathematics Major B.A.** have more flexibility.

These proposed changes are also reflected in the attached edits to the Undergraduate Bulletin. Thank you for your consideration of our request.

Best regards,



Jeremy Marzuola
Director, Undergraduate Studies in Mathematics



Rich McLaughlin
Chair, Department of Mathematics

Cc: Nicholas Siedentop, Curriculum Director, Office of Undergraduate Curricula

Department of Mathematics

- Use this document to submit curriculum changes for the 2017-2018 academic year.

Mathematics Major, B.A.

Core Requirements

- MATH 381* and 383
- MATH 521
- MATH 547 or 577 (preferably before the senior year)
- At least three more MATH courses numbered above 500, [including sequence MATH 383L + 528L + 529L](#) ~~excluding MATH 528L and 529L~~
- Eighteen hours of C or better (not C-) in MATH 233, 381, 383, or MATH courses numbered above 500

Additional Requirements

- MATH 231 or 241, 232 or 283, and 233

* A current or former major in mathematical decision sciences may substitute STOR 215 for MATH 381.

All Foundations, Approaches, Connections, and Supplemental General Education requirements apply (see the “General Education Requirements” in this bulletin).

Mathematics Major, B.S.

Core Requirements

- COMP 110, 116 or MATH 565
- MATH 381* and 383
- MATH 521
- MATH 522, 523, 528, or 566
- MATH 533, 534, 578, or 548
- MATH 547 or 577 (preferably before the senior year)

- At least three additional MATH courses numbered above 520, excluding MATH 528L and 529L

- Eighteen hours of C or better (not C-) in MATH courses numbered above 520

Additional Requirements

- MATH 231 or 241, 232 or 283, and 233

- One or two semesters of physics chosen from the following options:

- PHYS 118 (recommended)

- PHYS 114

- PHYS 104 and 105

- PHYS 116 and 117

- At least four courses in the Division of Natural Sciences and Mathematics (beyond the General Education requirements), but not in mathematics

* A current or former major in mathematical decision sciences may substitute STOR 215 for MATH 381.

Mathematics Major, B.S.–Applied Option

Core Requirements

- COMP 110 or 116

- MATH 381* and 383

- MATH 521

- Five of MATH 522, 523, 524, 528, 529, 535, 548, 564, 566, 661, 668, ([sequence 383L + 528L + 529L](#)) with at least three from 528, 529, 564, 566, 661, 668 ([sequence 383L + 528L + 529L](#))

- MATH 547 or 577

- Eighteen hours of C or better (not C-) in MATH courses numbered above 520

Additional Requirements

- MATH 231 or 241, 232 or 283, and 233

- One or two semesters of physics chosen from the following options:
 - PHYS 118 (recommended)
 - PHYS 114
 - PHYS 104 and 105
 - PHYS 116 and 117
- Strongly recommended: MATH 535/STOR 435 and STOR 555
- At least four courses in the Division of Natural Sciences and Mathematics (beyond the General Education requirements), but not in mathematics. STOR 555 can be counted for this requirement.

Students must complete either the B.S. or B.S.–Applied Option for a B.S. degree with a major in mathematics. All Foundations, Approaches, and Connections requirements of the General Education curriculum apply to students in both options.

* A current or former major in mathematical decision sciences may substitute STOR 215 for MATH 381.

Mathematics Minor

Core Requirements

- MATH 381* and 383
- Three mathematics courses numbered above 500, all with a grade of C (not C-) or better

Additional Requirements

- MATH 231 or 241, 232 or 283, and 233

* A current or former major in mathematical decisions sciences may substitute STOR 215 for MATH 381.