Math Education

Associate in Math Education - DTA/MRP

Mathematics is the language of science and a powerful mechanism for describing the world around us. A mathematics degree at Lower Columbia College prepares students for bachelor's programs in areas such as mathematics, statistics, or math education.

For a roadmap that identifies the preferred sequencing of courses and other specific recommendations from faculty, please see the corresponding program map(s):

- Math Education Associate in Math Education - DTA/MRP (lowercolumbia.edu/program-maps/education/DTAMRP-Math-Education)

Degree Requirements

Total credits required to earn this degree: 90 in courses numbered 100 or above with a cumulative grade point average (GPA) of at least 2.0. A course cannot be credited toward more than one distribution or skill area.

LCC students must meet distribution requirements for bachelor degrees, associate degrees, and specific certificates. See Diversity and Distribution Lists (lowercolumbia.edu/publications/catalog/distribution-lists/) for more information.

General Education Requirements

- **Communications:**
  10 credits - ENGL& 101 English Composition I ***AND***
  ENGL& 102 Composition II.
- **Quantitative / Symbolic Reasoning Skills:**
  5 credits – MATH& 151* Calculus I (must be proficient in MATH 098 Pre-College Math III).
- **Humanities:**
  15-20 credits – CMST& 220 (was SPCH 110) Public Speaking ***AND***
  An additional 10 credits from the *Distribution List*. No more than 5 credits in foreign language at the 100 level, no more than 10 credits from any one discipline. No more than 5 credits of performance/skills courses are allowed.
- **Natural Sciences:**
  15-20 credits – MATH& 152* Calculus II ***AND***
  10 credits of science from Physics, Chemistry, Geology, or Biology from the *Distribution List*. Shall include at least one lab course.
- **Social Sciences:**
  15-20 credits – PSYC& 100 General Psychology ***AND***
  An additional 10 credits from the *Distribution List*. No more than 10 credits allowed from any one discipline.
- **Diversity:**
  5 credits – From the *Diversity Course List*. Courses that meet this requirement may also be used toward other graduation requirements. Diversity courses are listed in the quarterly schedule and identified by 'DIV' attached to the course title. Example: SOC& 101 – Introduction to Sociology:DIV.

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Program Requirements

Course Code	Course Title	Number of Credits
EDUC& 205	Intro to Education with Field Exp.:DIV	5
MATH& 153*	Calculus III	5
MATH& 254*	Calculus IV (was MATH 154)	5
MATH 220	Linear Algebra	5

Program Outcomes

Students completing this program should acquire the following skills and abilities:

- Prepared for transfer to a mathematics program at a 4-year college or university.
- Communicate mathematical ideas and concepts using appropriate symbols and terminology.
- Apply mathematical principles to find solutions to real world problems.
- Construct a reasonable argument to defend the overall importance of mathematics.
- Promote evidence-based thinking and decision making.

Notes

Revised April 2017 (effective Fall 2017)

If additional credits are required, the remainder shall be fully transferable as defined by the receiving institution.

* It is recommended that sequence courses be completed at one institution.

Program planning is based on information available at the time of preparation. It is the student's responsibility to meet with their LCC advisor *and* with an advisor at the college to which they plan to transfer for specific requirements. Consult the LCC catalog for LCC graduation requirements.

Most four-year universities require one year of a single foreign language as a graduation requirement.

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