

## Bachelor of Science in Mathematics Applied Option

COURSE	MATH credits	Other credits
Take <b>ONE</b> of the following programming courses: MATH 1376: Programming for Data Science <i>or</i> CSCI 1410, 1411 Introduction to programming (C++)	3	4
MATH 1401 – Calculus I	4	
MATH 2411 – Calculus II	4	
MATH 2421 – Calculus III	4	
MATH 3000 – Introduction to Abstract Math	3	
MATH 3191 – Applied Linear Algebra	3	
MATH 3382 – Statistical Theory	3	
MATH 4310 – Introduction to Real Analysis I	3	
MATH 4779 – Math Clinic	3	
MATH 3200 – Differential Equations	3	
MATH 4733 – Partial Differential Equations	3	
MATH 4650 – Numerical Analysis	3	
6 Additional Credits (typically two courses) above 3000 excluding MATH 3195, 3511, 3800, 3999, and 4830.	6	
9 additional credits (typically 3 courses) countable towards a major in one of the following subjects: Biology, Business, Chemistry, Computer Science, Economics, Geography and Environmental Sciences, Health and Behavioral Sciences, Physics, Sociology. Other areas allowable with approval from the Undergraduate Committee.		9

\*Note, courses above MATH5000 require consent of the instructor.

1. A C- or better is needed in each class towards your major and your grade point average must be at least 2.25 in these MATH classes.
2. The semester you graduate, you must:
  - a. Complete the MFAT Exam and participate in an exit interview. These requirements will be scheduled through the department Administrative Assistant (303-315-1702).
  - b. Complete a senior survey.
3. You must satisfy the requirements of the College of Liberal Arts and Sciences (CLAS). Contact the CLAS advising office (303-315-7100) for details.
4. There are a several residency credits that must be satisfied to graduate as a Mathematics major at CU Denver. Graduating students must:
  - a. Take at least 15 upper division (3000 or above) MATH credits (5 classes) at CU Denver.
  - b. Take a minimum of 30 hour of resident credit (letter grades received at CU Denver).
  - c. 21 out of the last 30 hours must be taken in CU Denver CLAS courses.

For the most current CLAS residency requirements, please visit <https://clas.ucdenver.edu/advising/>.

5. Students with at least a 3.5 upper-division major grade point average and at least 3.2 overall grade point average may qualify for honors and should contact a math advisor for more details.