

Name: _____ ID: _____ Date: _____ Advisor: _____

Bachelor of Science in Mathematics

If you would like a particular specialty listed on your transcript, please look at our list of specific options. This option allows students and advisors to create a program that differs from the pre-approved option. Such a program must be approved by the advisor at least one year before graduation.

COURSE	TAKEN ?	NOTES
MATH 1401 – Calculus I		
MATH 2411 – Calculus II		
MATH 2421 – Calculus III		
MATH 3000 – Introduction to Abstract Math		
MATH 3191 – Applied Linear Algebra		
MATH 3200 – Elementary Differential Equations		
MATH 3250 – Problem Solving Tools		
MATH 3800 or 4810 – Probability and Statistics for Engineers or Probability		
MATH 4779 – Math Clinic		
One analysis course from the following listing: Math 4201, 4310, 4650 or 4733- Topology, Intro to Real Analysis I, Numerical Analysis I or Partial Differential Equations.		
One modeling course from the following listing: Math 4387, 4791, 4792, 4793 or 4794-Regression Analysis, Modeling and Time Series, Continuous Modeling, Probabilistic Modeling, Discrete Math Modeling or Optimization Modeling		
One course from the following listing: Math 3140, 3301, 3302, 4408 or 4409- Introduction to Modern Algebra, Introduction Operations Research I, Operations Research II, Applied Graph Theory or Applied Combinatorics.		
Three Math classes above 3000 excluding 3040. These classes must be chosen to provide breadth and depth in your program.		

If a cancellation, non-offering, or scheduling conflict prevents the timely completion of the Mathematics major, contact an advisor. No class may be used for more than one category. You must also meet the following requirements.

1. In order for this option to appear on your transcript, you must complete a form with your CLAS advisor before the last semester of your senior year.
2. An advisor must approve the classes in your major. This should be done before completing MATH 3000.
3. A C- or better is needed in each class counted towards your major. Your grade point average must be at least 2.0 in all MATH classes. You must take at least 15 upper division (3000 or above) MATH credits (5 classes) at UC-Denver.

4. The semester you graduate, you must:
 - Create a portfolio containing two papers demonstrating your mathematical and writing abilities. These papers can be projects done while taking a class.
 - Participate in an exit interview with one Math faculty. This can be scheduled through Angela Beale.
 - Complete a senior survey.
5. You must satisfy the requirements of the College of Liberal Arts and Sciences (CLAS). Contact CLAS advising office (303-556-2555) for details.
6. The following is a list of sample courses that will satisfy the depth requirement:
 - a. Math 4650 & 4660 (Numerical Analysis I & II)
 - b. Math 3301 & 3302 (Operations Research I & II)
 - c. Math 3200 & 4733 (Elementary Diff. Eq. & Partial Diff. Eq.)
 - d. Math 4810 & 4820 (Probability and Statistics)
 - e. Math 4408 & 4409 (Graph Theory and Combinatorics)
 - f. Math 3210 & 4220 (Higher Geometry I & II)
 - g. Math 4310 & 4320 (Intro to Real Analysis I & II)
 - h. Math 3140 & 4110 (Modern Algebra and Number Theory)
 - i. Math 3191 & 5718 (Applied Linear Algebra)
7. To graduate as a Mathematics major, must have a minimum of 30 hours of resident credit (letter grades received at UCD). Furthermore, 21 out of the last 30 hours must be taken in UCD CLAS courses. Finally, at least 15 upper-division mathematics credits must be taken at UC Denver. For the most current CLAS residency requirements, please visit:
<http://thunder1.cudenver.edu/clas/advising/coreGeneral.html>

Those considering graduate study in mathematics should take Introduction to Real Analysis I and II (MATH 4310 and 4320). Students with at least a 3.5 major grade point average, at least 3.2 overall grade point average, and who have done an honors project are eligible to graduate with honors. See an advisor (or the honors advising sheet) for details.