

REQUIREMENTS FOR THE BA ECONOMICS MAJOR WITH **QUANTITATIVE EMPHASIS**
UNIVERSITY OF COLORADO BOULDER

D. Elective Courses in Economics

6 credit hours of 4000-level economics electives (9 hours if transferring six credits of micro and macro Principles courses).

II. **REQUIRED MATHEMATICS COURSES**

Note: Many of the following courses listed below have prerequisites. Students are responsible for completing prerequisites before enrolling in these courses.

A. Required Calculus Courses

- Take all MATH 1300 Analytic Geometry and Calculus 1 (5 hrs.)
- MATH 2300 Analytic Geometry and Calculus 2 (5 hrs.)
- MATH 2400 Calculus 3 (4 hrs.) **OR** MATH 2130 Introduction to Linear Algebra (3 hrs)

Note: APPM 1350 and APPM 1360 may substitute for MATH 1300 and 2300, respectively. APPM 2350 and APPM 2360 May substitute for MATH 2400 AND 2130, respectively.

B. Mathematics, Applied Mathematics and Computer Science Courses

At least three credit hours selected from courses listed below:

- MATH 2400 Calculus 3 (4 hrs.)
- MATH 2130 Intro. to Linear Algebra (3 hrs.)
- MATH 3001 Analysis 1 (3 hrs.)
- MATH 4001 Analysis 2 (3hrs)
- MATH 4120 Introduction to Operations Research (3 hrs.)
- MATH 3430 Ordinary Differential Equation (3 hrs.)
- MATH 4510 Introduction to Probability Theory (3 hrs.)
- MATH 4520 Introduction to Mathematical Statistics (3 hrs.)
- MATH 4540 Introduction To Time Series (3 hrs.)
- APPM 4570 Statistical Methods (3 hrs.)
- APPM 4580 Statistical Methods for Data Analysis (3 hrs.)
- CSCI 4502 Data Mining (3 hrs.)
- CSCI 2820 Linear Algebra with Computer Science Applications

The following table lists approved substitutes for some courses listed above:

<u>Course</u>	<u>Substitutes</u>
	APPM 2360
MATH 2400 <u>Calculus 3</u> (4 hrs.)	APPM 2350 <u>Calculus 3 for engineers</u> (4 hrs.)
MATH 2130 <u>Intro. to Linear Algebra</u> (3 hrs.)	APPM 2360 _____
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