Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Berkeley	From: De Anza College
2022-2023 General Catalog, Semester	2022-2023 General Catalog, Quarter

Operations Research and Management Science, Lower Division B.A.

COLLEGE OF LETTERS AND SCIENCE

COLLEGE ADMISSION REQUIREMENTS FOR TRANSFER STUDENTS
THIS MAJOR IS OFFERED BY THE COLLEGE OF LETTERS AND SCIENCE (L&S).

By the end of the spring term preceding fall enrollment at Berkeley, you must complete:

1) The L&S Requirements in Reading & Composition, Quantitative Reasoning, and Foreign Language; **OR**
2) IGETC

Major Requirements:
Complete as many lower division major requirements as possible. See details on preparation for this major below.

Primary selection criteria for admission, in general:
- completion of L&S Requirements (or IGETC), plus
- strength of academic preparation, and
- grade point average.

For more information on admission to UC Berkeley:
http://admissions.berkeley.edu

For more information on majors at UC Berkeley:
Berkeley Academic Guide: http://guide.berkeley.edu

PROGRAM

In the **Operations Research and Management Science** major (**ORMS**), students will develop solid quantitative, model building, and problem-solving skills through core courses in mathematics, statistics, and operations research, and will learn how to apply these skills in solving problems in an area of their choice. Students may design their own concentrations according to their interests, with guidance from their faculty advisor in Industrial Engineering and Operations Research. Such areas might include legal systems (for pre-law students for example), government/political systems, and international economic systems.

To declare the ORMS major you <u>must</u> have a UC Berkeley 3.0 overall GPA <u>and</u> a 3.2 UC Berkeley GPA in:
MATH 53, MATH 54, ECON 1, 2 or 3C, and UGBA 10.

Students must apply to the major prior to reaching 80 units of post-high school coursework (including in-progress courses). We do not accept applications from graduating seniors or students in their fourth (or later) year of studies, even if it is not the student's first major. There are no exceptions.

Prerequisite Coursework: Math 53, Math 54, Econ 1, 2 or 3C, and UGBA 10 must be completed prior to acceptance to the major and all must be taken for a letter grade. Students should apply to the major at the end of the semester in which they are enrolled in their final prerequisites. UC Summer session prior to the academic year does not count as the first semester.

Engin 7 and Comp Sci 61A may be taken after acceptance to the major.

For more information:
Student Affairs Officer
Department of Operations Research and Industrial Engineering
(510) 642-5485
ieor-student-services@berkeley.edu
ORMS - UC Berkeley IEOR Department - Industrial Engineering & Operations Research

LOWER DIVISION MAJOR REQUIREMENTS

MATH 1A - Calculus (4.00) ←

> **MATH 1A** - Calculus (5.00)
> **--- And ---**
> **MATH 1B** - Calculus (5.00)
> - *Regular and honors courses may be combined to complete this series*
>
> **--- Or ---**
>
> **MATH 1AH** - Calculus - HONORS (5.00)
> **--- And ---**
> **MATH 1BH** - Calculus - HONORS (5.00)
> - *Regular and honors courses may be combined to complete this series*

MATH 1B - Calculus (4.00) ←

> **MATH 1B** - Calculus (5.00)
> **--- And ---**
> **MATH 1C** - Calculus (5.00)
> - *Regular and honors courses may be combined to complete this series*
>
> **--- Or ---**
>
> **MATH 1BH** - Calculus - HONORS (5.00)
> **--- And ---**
> **MATH 1CH** - Calculus - HONORS (5.00)
> - *Regular and honors courses may be combined to complete this series*

MATH 53 - Multivariable Calculus (4.00) ←

> **MATH 1C** - Calculus (5.00)
> **--- And ---**
> **MATH 1D** - Calculus (5.00)
> - *Regular and honors courses may be combined to complete this series*
>
> **--- Or ---**
>
> **MATH 1CH** - Calculus - HONORS (5.00)
> **--- And ---**
> **MATH 1DH** - Calculus - HONORS (5.00)
> - *Regular and honors courses may be combined to complete this series*

MATH 54 - Linear Algebra and Differential Equations (4.00) ←

> **MATH 2A** - Differential Equations (5.00)
> **--- And ---**
> **MATH 2B** - Linear Algebra (5.00)
> - *Regular and honors courses may be combined to complete this series*
>
> **--- Or ---**
>
> **MATH 2AH** - Differential Equations - HONORS (5.00)
> **--- And ---**
> **MATH 2BH** - Linear Algebra - HONORS (5.00)
> - *Regular and honors courses may be combined to complete this series*

ECON 1 - Introduction to Economics (4.00)	←	**ECON 1** - Principles of Macroeconomics (4.00)
		--- And ---
		ECON 2 - Principles of Microeconomics (4.00)
		• *Regular and honors courses may be combined to complete this series*
		--- Or ---
		ECON 1H - Principles of Macroeconomics - HONORS (4.00)
		--- And ---
		ECON 2H - Principles of Microeconomics - HONORS (4.00)
		• *Regular and honors courses may be combined to complete this series*

--- Or ---

ECON C3 - Introduction to Environmental Economics and Policy (4.00) Same-As: ENVECON C1	←	**ECON 1** - Principles of Macroeconomics (4.00)
		--- And ---
		ECON 2 - Principles of Microeconomics (4.00)

ENGIN 7 - Introduction to Computer Programming for Scientists and Engineers (MATLAB) (4.00)	←	No Course Articulated

--- Or ---

COMPSCI 61A - The Structure and Interpretation of Computer Programs (4.00)	←	No Course Articulated

UGBA 10 - Principles of Business (3.00)	←	**BUS 10** - Introduction to Business (5.00)

END OF AGREEMENT