

# Articulation Agreement by Major

Effective during the 2022-2023 Academic Year

To: University of California, Berkeley  
2022-2023 General Catalog, Semester

From: De Anza College  
2022-2023 General Catalog, Quarter

## Nutritional Science, Lower Division B.S.

### PROGRAM

#### College Admission Requirements for Transfer Students

This major is offered by the Rausser College of Natural Resources.

The Department of Nutritional Sciences and Toxicology offers three undergraduate specializations: **Physiology & Metabolism** studies nutrients from food to cells, and the many functions of nutrients, including in energy and metabolism and the generation of internal secretions known as autocrine. **Dietetics** prepares students for careers as Registered Dietitians. **Toxicology** focuses on the molecular and physiological effects of natural and human-made environmental toxins. All three specializations relate food and/or toxins to human health and disease risk.

**NOTE:** The Rausser College of Natural Resources will no longer be admitting new first year or junior transfer students to the **Nutritional Science - Dietetics** major after Fall 2022. This specialization is being discontinued in order to start a new Masters in Nutritional Science Dietetics (MNSD) program to align with the ACEND requirements for becoming a Registered Dietitian Nutritionist (RDN). The other specializations, **Physiology & Metabolism** and **Toxicology**, will remain unchanged.

#### For more information:

NST Undergraduate Academic Advisor  
Office of Instruction and Student Affairs  
Rausser College of Natural Resources  
(510) 642-2879  
e-mail: [nst.ugrad@berkeley.edu](mailto:nst.ugrad@berkeley.edu)  
Website: <https://nature.berkeley.edu/advising/majors-minors>

#### 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>

### REQUIREMENTS

#### PREPARATION FOR TRANSFER AT THE JUNIOR LEVEL

Transfer applicants **must** complete the minimum major admissions requirements, and are encouraged to complete as many additional lower division requirements as possible. IGETC certification will satisfy Reading & Composition and humanities/social science breadth requirements for the Nutritional Science majors. For more information, see the minimum requirements to transfer linked on this page: <https://nature.berkeley.edu/advising/transfer-applicants>. You can also contact our Office of Instruction and Student Affairs, Rausser College of Natural Resources, <https://nature.berkeley.edu/advising/meet-rausser-advisors> or (510) 642-0542.

To ensure full articulation of transfer coursework: if a series of courses at a community college is required (e.g., Chemistry 101 + 102 + 103 = Chemistry 1A, 1AL + 1B at UC Berkeley), all the courses in the series must be completed, and must (unless otherwise indicated) be completed at the same community college. Partial completion of the series (e.g., 2 of the 3 required courses) may result in no credit toward the requirement(s), and completion of series courses at different community colleges is not guaranteed to satisfy the requirement. Courses taken out of series will be evaluated by college faculty during the transfer admissions process.

#### MINIMUM MAJOR ADMISSIONS REQUIREMENTS

Transfer students must fulfill these minimum major requirements before entering UC Berkeley.

Equivalent of:

English R1A and English R1B

Nutritional Sciences 10 (For **Physiology & Metabolism** and **Dietetics** track ONLY)

Chemistry 1A and 1AL

Chemistry 3A and 3AL

Chemistry 3B and 3BL

Biology 1A and 1AL

Molecular and Cell Biology 32 & 32L

Math 16A and Math 16B or Math 1A and Math 1B

Statistics 2

## BIOLOGICAL SCIENCE

Must complete all biology courses prior to transfer.

## CHEMISTRY

Must complete entire chemistry series prior to transfer.

One semester of general chemistry with lab and two semesters of organic chemistry with labs.

## HUMANITIES and SOCIAL SCIENCES

IGETC Certification will satisfy this requirement.

**Physiology & Metabolism and Toxicology:** at least 6-7 semester units selected by the student from fields such as literature, history, foreign language, anthropology, psychology, sociology, philosophy, economics, political science, etc.

**Dietetics:** The following courses are required as part of the pre-professional curriculum for the Dietetics specialization, including a) economics (one course which satisfies both macro and micro, or completion of both a micro- and macroeconomics course equaling Berkeley's ECON 1 or ECON 2), and b) Psychology 1 or Sociology 1 or Sociology 3 or Anthropology 3.

**NOTE:** The Rausser College of Natural Resources will no longer be admitting new first year or junior transfer students to the **Nutritional Science - Dietetics** major after Fall 2022. This specialization is being discontinued in order to start a new Masters in Nutritional Science Dietetics (MNSD) program to align with the ACEND requirements for becoming a Registered Dietitian Nutritionist (RDN). The other specializations, **Physiology & Metabolism** and **Toxicology**, will remain unchanged.

## MATHEMATICS

Must complete one of the sequences prior to transfer.

## PHYSICS

Highly recommended but not required prior to transfer. One semester of physics required for the **Physiology & Metabolism** and **Toxicology** specializations. Physics not required for completion of the Dietetics specialization.

Students pursuing a pre-med curriculum may want to include an additional semester of physics (equivalent to Physics 8B at Berkeley.)

**NOTE:** This institution may cover the topics in Berkeley's PHYSICS 7ABC series in a different order. Students who transfer before completing courses equivalent to the entire 7ABC series may need to enroll in Berkeley's PHYSICS 49 to complete missing topics such as wave motion (7A) or heat (7B).

## READING & COMPOSITION

Must complete Reading and Composition prior to transfer.

Courses comparable to Berkeley's READING & COMPOSITION (R&C) 1A & 1B.

## STATISTICS

Must complete one of the variations prior to transfer.

## READING AND COMPOSITION REQUIREMENT

**ENGLISH R1A** - Reading and Composition (4.00)



**EWRT 1A** - Composition and Reading (5.00)

--- Or ---

**EWRT 1AH** - Composition and Reading - HONORS (5.00)

--- Or ---

**ESL 5** - Advanced Composition and Reading (5.00)

**ENGLISH R1B** - Reading and Composition (4.00)



**EWRT 1B** - Reading, Writing and Research (5.00)

--- Or ---

**EWRT 2** - Critical Reading, Writing and Thinking (5.00)

--- Or ---

**EWRT 1BH** - Reading, Writing and Research - HONORS (5.00)

--- Or ---

**EWRT 2H** - Critical Reading, Writing and Thinking - HONORS (5.00)

## NUTRITION

**NUSCTX 10** - Introduction to Human Nutrition (3.00)



**NUTR 10** - Contemporary Nutrition (4.00)

## CHEMISTRY

**CHEM 1A** - General Chemistry (3.00)

--- And ---

**CHEM 1AL** - General Chemistry Laboratory (2.00)



Articulates as a Series Only

**CHEM 1A** - General Chemistry (3.00)

--- And ---

**CHEM 1AL** - General Chemistry Laboratory (2.00)

--- And ---

**CHEM 1B** - General Chemistry (4.00)



**CHEM 1A** - General Chemistry (5.00)

--- And ---

**CHEM 1B** - General Chemistry (5.00)

--- And ---

**CHEM 1C** - General Chemistry and Qualitative Analysis (5.00)

- *Regular and honors courses may be combined to complete this series*

--- Or ---

**CHEM 1AH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1BH** - General Chemistry - HONORS (5.00)

--- And ---

**CHEM 1CH** - General Chemistry and Qualitative Analysis - HONORS (5.00)

- *Regular and honors courses may be combined to complete this series*

**CHEM 3A** - Chemical Structure and Reactivity (3.00)

--- And ---

**CHEM 3AL** - Organic Chemistry Laboratory (2.00)



**CHEM 12A** - Organic Chemistry (5.00)

--- And ---

**CHEM 12B** - Organic Chemistry (5.00)

**CHEM 3B** - Chemical Structure and Reactivity (3.00)

--- And ---

**CHEM 3BL** - Organic Chemistry Laboratory (2.00)



**CHEM 12B** - Organic Chemistry (5.00)

--- And ---

**CHEM 12C** - Organic Chemistry (5.00)

**CHEM 3A** - Chemical Structure and Reactivity (3.00)

--- And ---

**CHEM 3AL** - Organic Chemistry Laboratory (2.00)

--- And ---

**CHEM 3B** - Chemical Structure and Reactivity (3.00)

--- And ---

**CHEM 3BL** - Organic Chemistry Laboratory (2.00)



Articulates as Course-to-Course Only

## MATHEMATICS

Select 1 Sequence(s) from the following

**MATH 16A** - Analytic Geometry and Calculus (3.00)



**MATH 1A** - Calculus (5.00)

--- Or ---

**MATH 1AH** - Calculus - HONORS (5.00)

**MATH 16B** - Analytic Geometry and Calculus (3.00)



**MATH 1B** - Calculus (5.00)

--- Or ---

**MATH 1BH** - Calculus - HONORS (5.00)

**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*

## STATISTICS

Select 1 Course(s) from the following

**STAT 2** - Introduction to Statistics (4.00)



**MATH 10** - Introductory Statistics (5.00)

--- Or ---

**MATH 10H** - Introductory Statistics - HONORS (5.00)

--- Or ---

**MATH 17** - Integrated Statistics 2 (5.00)

**STAT 20** - Introduction to Probability and Statistics (4.00)



No Course Articulated

- *This course has a prerequisite of one semester of calculus*

## BIOLOGICAL SCIENCES

**BIOLOGY 1A** - General Biology Lecture (Cells, Genetics, Animal Form & Function) (3.00)

--- And ---

**BIOLOGY 1AL** - General Biology Laboratory (2.00)



**BIOL 6A** - Form and Function in the Biological World (6.00)

--- And ---

**BIOL 6B** - Cell and Molecular Biology (6.00)

--- Or ---

**BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00)

--- And ---

**BIOL 6B** - Cell and Molecular Biology (6.00)

**BIOLOGY 1A** - General Biology Lecture (Cells, Genetics, Animal Form & Function) (3.00)

--- And ---

**BIOLOGY 1AL** - General Biology Laboratory (2.00)

--- And ---

**BIOLOGY 1B** - General Biology (Plant Form & Function, Ecology, Evolution) (4.00)



Articulates as Course-to-Course Only

**MCELLBI 32** - Introduction to Human Physiology (3.00)

--- And ---

**MCELLBI 32L** - Introduction to Human Physiology Laboratory (2.00)



**BIOL 40A** - Human Anatomy and Physiology (5.00)

--- And ---

**BIOL 40B** - Human Anatomy and Physiology (5.00)

--- And ---

**BIOL 40C** - Human Anatomy and Physiology (5.00)

## PHYSICS

Select 1 Course(s) from the following

Recommended to be completed prior to transfer

**PHYSICS 8A** - Introductory Physics (4.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

--- And ---

**PHYS 4B** - Physics for Scientists and Engineers: Electricity and Magnetism (6.00)

--- Or ---

**PHYS 2A** - General Introductory Physics (5.00)

--- And ---

**PHYS 2C** - General Introductory Physics (5.00)

**PHYSICS 8A** - Introductory Physics (4.00)

--- And ---

**PHYSICS 8B** - Introductory Physics (4.00)



Articulates as Course-to-Course Only

--- Or ---

**PHYSICS 7A** - Physics for Scientists and Engineers (4.00)



**PHYS 4A** - Physics for Scientists and Engineers: Mechanics (6.00)

**PHYSICS 7A** - Physics for Scientists and Engineers (4.00)

--- And ---

**PHYSICS 7B** - Physics for Scientists and Engineers (4.00)



Articulates as Course-to-Course Only

**PHYSICS 7A** - Physics for Scientists and Engineers (4.00)

--- And ---

**PHYSICS 7B** - Physics for Scientists and Engineers (4.00)

--- And ---

**PHYSICS 7C** - Physics for Scientists and Engineers (4.00)



Articulates as Course-to-Course Only

## HUMANITIES AND SOCIAL SCIENCES

**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*

**PSYCH 1** - General Psychology (3.00)



**PSYC 1** - General Psychology (4.00)

--- Or ---

**SOCIOL 1** - Introduction to Sociology (4.00)



**SOC 1** - Introduction to Sociology (4.00)

--- Or ---

**SOCIOL 3AC** - Principles of Sociology (4.00)



No Course Articulated

--- Or ---

**ANTHRO 3** - Introduction to Social and Cultural Anthropology (4.00)



**ANTH 2** - Cultural Anthropology (4.00)

--- Or ---

**ANTH 2H** - Cultural Anthropology - HONORS (4.00)

**END OF AGREEMENT**