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

Genetics and Plant Biology, Lower Division B.S.

PROGRAM

College Admission Requirements for Transfer Students

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

The Genetics and Plant Biology (GPB) major is housed within UC Berkeley's Rausser College of Natural Resources, within the Department of Plant and Microbial Biology. From oxygen to food to shelter to energy to shade, plants provide us with virtually everything we need to survive and to thrive. GPB majors study the distribution and diversity of plant life from the sub-molecular to the organismal level. There is momentous work to be done for those who want to unravel the mystery of genes, bring expertise to medical school, educate future biologists, or develop methods to feed the world!

GPB combines traditional plant sciences (physiology, biochemistry, morphology) and more recent biological disciplines (molecular genetics and genomics) to study the role of plants in the global environment. The discipline emphasizes the study of plants from the sub-molecular levels to the organismal level. Relevant applications include biotechnology, bioenergy agriculture, biomedical, food science, bio informatics, and genetic counseling.

For more information:

GPB Student Academic Advisor Office of Instruction and Student Affairs Rausser College of Natural Resources (510) 642-0542

e-mail: pmb.ugrad@berkeley.edu

http://nature.berkeley.edu/advising/majors/genetics-and-plant-biology

For more information on the Rausser College of Natural Resources:

http://nature.berkeley.edu

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 <u>must</u> complete the minimum admissions requirements by the end of the <u>spring</u> term preceding fall enrollment at Berkeley, and are encouraged to complete as many additional lower division requirements as possible. Exceptions are highly unlikely.

Please pay particular attention to how courses from your community college articulate to Berkeley. If courses for a particular subject are articulated as a group (for example, a 3-course series at your college may articulate to a 2-course series at Berkeley), you will need to take all of the courses noted in order for the articulation to work. If you have questions about articulation, please contact our Office of Instruction and Student Affairs, Rausser College of Natural Resources, https://nature.berkeley.edu/advising/meet-cnr-advisors

In general, students will be evaluated on:

- The strength of academic preparation and the completion of lower division requirements in biology, chemistry, and math
- GPA in the required courses
- Cumulative GPA
- The personal statement

MINIMUM ADMISSIONS REQUIREMENTS

Equivalent of: English R1A and English R1B Chemistry 1A and 1AL Chemistry 3A and 3AL Chemistry 3B and 3BL Biology 1A and 1AL Biology 1B Math 16A (or Math 1A or Math 10A) Math 16B (or Math 1B or Math 10B)

Strongly recommended courses:

Physics 8A (or Physics 7A) and Statistics 2 (or Statistics 20) are strongly recommended.

Although IGETC is not required, certification will fulfill requirements for English R1A, English R1B and all Humanities and Social Sciences breadth courses. Please refer to the Rausser College of Natural Resources Handbook website for more information about substitutions for the English R1A and R1B requirements: https://nature.berkeley.edu/handbook

BTOLOGY

Must complete biology sequence prior to transferring.

CHEMISTRY

Must complete one course in general chemistry + two courses in organic chemistry (and labs) prior to transferring.

MATHEMATICS

Must complete math courses prior to transferring.

UCB MATH 16A + MATH 16B or MATH 1A + MATH 1B or MATH 10A + MATH 10B.

PHYSICS

It is highly recommended that you complete the Physics requirement prior to transferring. If an equivalent to PHYSCIS 8A is unavailable, student should complete Physics 7A. Course must have a prerequisite of calculus.

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 requirement prior to transferring. (IGETC satisfies this requirement)

STATISTICS

It is highly recommended that you complete the Statistics requirement prior to transferring.

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.

TEST CREDIT

HUMANITIES AND SOCIAL SCIENCES BREADTH At least 15 semester units of UC-transferable courses from fields such as economics, history, philosophy, art, music, political science, and/or foreign language (a maximum of 6 units allowed). (IGETC satisfies this requirement)

Some Advanced Placement, International Baccalaureate, and A-Level exams can fulfill requirements in the Rausser College of Natural Resources. For details, please see <u>AP, IB, and A-level Exam Equivalency Chart</u>.

BIOLOGY

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

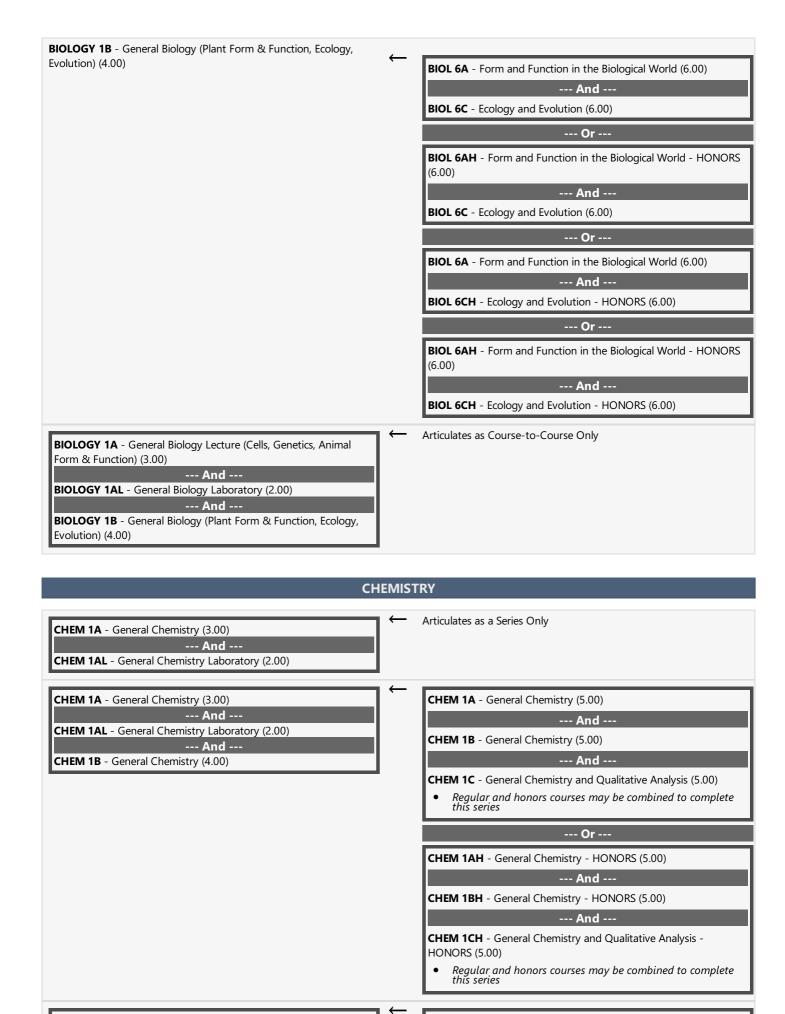
--- And --
BIOLOGY 1AL - General Biology Laboratory (2.00)

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)



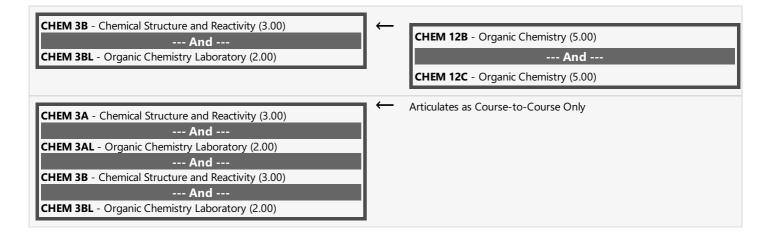
CHEM 12A - Organic Chemistry (5.00)

CHEM 12B - Organic Chemistry (5.00)

--- And --

CHEM 3A - Chemical Structure and Reactivity (3.00)

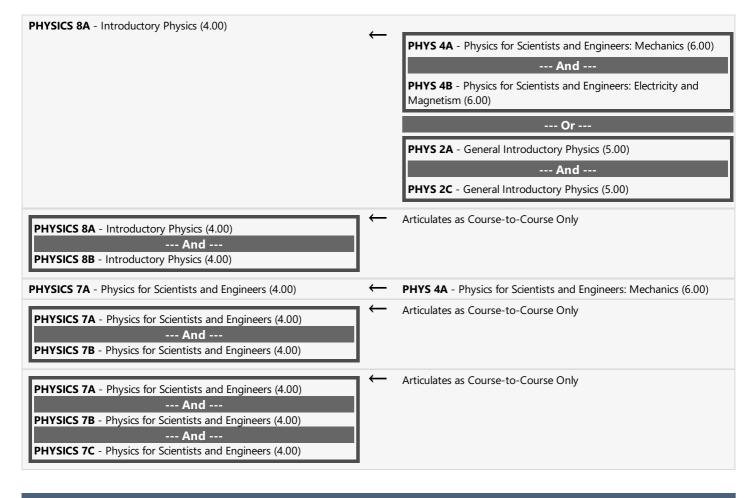
CHEM 3AL - Organic Chemistry Laboratory (2.00)



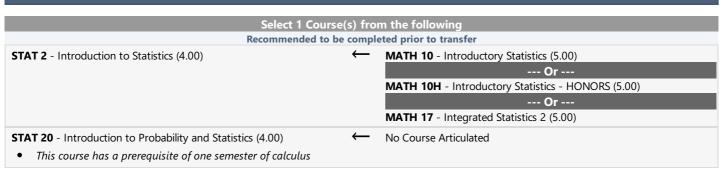
MATHEMATICS

Select 1 Seque	nce(s) fr	om the following
MATH 16A - Analytic Geometry and Calculus (3.00)	\leftarrow	MATH 1A - Calculus (5.00)
		Or MATH 1AH - Calculus - HONORS (5.00)
MATU 16D Applytic Cooperator and Colorius (2.00)	\leftarrow	
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)	\leftarrow	MATH 1A - Calculus (5.00)
		And
		MATH 1B - Calculus (5.00)
		Reaular 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 10A - Methods of Mathematics: Calculus, Statistics, and Combinatorics (4.00)	←	No Course Articulated
MATH 10B - Methods of Mathematics: Calculus, Statistics, and Combinatorics (4.00)	←	No Course Articulated

PHYSICS



STATISTICS



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

END OF AGREEMENT