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

Conservation and Resource Studies, Lower Division B.S.

PROGRAM

The **Conservation and Resource Studies** (CRS) major is administered by the Department of Environmental Science, Policy, and Management (ESPM). The major is an interdisciplinary program designed for students interested in environmental issues and interactions among disciplines related to natural resources, population, energy, technology, societal institutions, and cultural values.

Because CRS students draw on the course offerings of the entire campus, they have the flexibility to incorporate any combination of courses in the social sciences, biological sciences, physical sciences, or humanities to address complex environmental problems. Sample topics include environmental justice and education, sustainable development of world populations, energy and environmental policy, conservation and culture, and ecological restoration and policy, to name a few. Students may also draw upon appropriate community resources in the development of individual programs of study.

Despite the flexibility and breadth, all CRS curricula share a demonstrable commitment to gaining a truly interdisciplinary education. It differs from other ESPM majors in its individualized program that prepares students for a wide range of careers with an environmental leaning.

For more information:
CRS Student Academic Advisor
Office of Instruction and Student Affairs
Rausser College of Natural Resources
260 Mulford Hall
(510) 642-0542
e-mail: crs.emf.ugrad@berkeley.edu
website:
https://nature.berkeley.edu/advising/majors/conservation-and-resource-studies

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 students **must** complete all articulated lower division major requirements by the end of the **spring** term preceding fall enrollment at Berkeley. Exceptions are highly unlikely. NOTE: The ESPM Environmental Science Core and the ESPM Social Science Core requirements may be taken at Berkeley if no course is articulated at student's home institution.

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 crs.emf.ugrad@berkeley.edu.

There are two options for fulfilling the lower division major requirements:

Option 1: With the exception of ESPM 90, one calculus or statistics course, and one course in biology with lab, IGETC Certification will satisfy ALL lower division requirements for the Conservation and Resource Studies major. IGETC certification will satisfy both halves of the Reading and Composition requirement, but IGETC Is not required if students complete Reading and Composition through individually articulated coursework. Applicants must complete one course in biology with lab prior to fall enrollment at Berkeley, (Biology 1B [recommended], 1A, or other approved biology courses listed below). ESPM 90 will be completed at Berkeley.

Option 2: Transfer students can fulfill articulated lower division CRS major requirements at their institution. Students are highly encouraged to supplement their coursework with courses in environmental sciences, ecology, biology and preparation courses to the student's individualized upper division course plan.
The ESPM Environmental Science Core and the ESPM Social Science Core requirements may be taken at Berkeley if no course is articulated at student's community college.

ADDITIONAL REQUIREMENTS

One UC-Tranferable course in Physical Science (3-4 Units)

One UC-Tranferable course in Social and Behaviorial Sciences (3-4 Units)

One UC-Tranferable course in Humanities (3-4 Units)

Two UC-Tranferable courses prepartory to upper division area of interest (6-8 Units)
(Area of interest, determined by the student, should be in an environmental or resource management-related area such as biology, ecology, environmental studies, geography, etc.)

Additional courses in the Biological, Environmental, and Physical Sciences are recommened.

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.

AP TEST CREDIT

The Conservation and Resource Studies major will accept the following AP credit:

- AP Biology, with a score of 4 or 5 = Bio 1B, or Bio 11
- AP Calculus AB, with a score of 3, 4, 5 = Math 1A or Math 16A
- AP Calculus BC, with a score of 3 or 4 = Math 1A or Math 16A
- AP Chemistry, with a score of 4 or 5 = Chemistry 1A & 1AL
- AP English Literature, with a score of 3 = Entry Level Writing Requirement
- AP English Literature, with a score of 4 = First half of Reading & Composition (ENGLISH R1A)
- AP English Literature , with a score of 5 = both halves of Reading & Composition (ENGLISH R1A and R1B)
- AP English Language, with a score of 3 = Entry Level Writing Requirement
- AP English Language, with a score of 4 or 5 = First half of Reading & Composition (ENGLISH R1A)
- AP Environmental Science, with a score of 4 or 5 = ESPM Environmental Science Core
- AP Statistics, with a Score of 3, 4, 5 = Statistics 2

Please note that substituting AP scores for science and math coursework is accepted, but not recommended. Students who use AP scores for these requirements may struggle in subsequent coursework.

Please refer to the Rausser College of Natural Resources Handbook for more information about substitutions for the English R1A and R1B requirements:
http://nature.berkeley.edu/handbook

READING AND COMPOSITION REQUIREMENT

Please refer to additional important General Information section above

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)

ONE COURSE IN CALCULUS OR STATISTICS

Select 1 Course(s) from the following

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 16A - Analytic Geometry and Calculus (3.00)	←	**MATH 1A** - Calculus (5.00) **--- Or ---** **MATH 1AH** - Calculus - HONORS (5.00)

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 C8 - Foundations of Data Science (4.00) Same-As: INFO C8, COMPSCI C8, DATA C8	←	No Course Articulated
STAT 20 - Introduction to Probability and Statistics (4.00)	←	No Course Articulated

ONE COURSE IN BIOLOGY WITH LAB

Select 1 Course(s) from the following

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 1B - General Biology (Plant Form & Function, Ecology, Evolution) (4.00) • *Recommended*	←	**BIOL 6A** - Form and Function in the Biological World (6.00) **--- And ---** **BIOL 6C** - Ecology and Evolution (6.00) **--- Or ---** **BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00) **--- And ---** **BIOL 6C** - Ecology and Evolution (6.00) **--- Or ---** **BIOL 6A** - Form and Function in the Biological World (6.00) **--- And ---** **BIOL 6CH** - Ecology and Evolution - HONORS (6.00) **--- Or ---** **BIOL 6AH** - Form and Function in the Biological World - HONORS (6.00) **--- And ---** **BIOL 6CH** - Ecology and Evolution - HONORS (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
Other courses that satisfy the Biology requirement for the Conservation and Resource Studies major:	←	No Course Articulated

ESPM ENVIRONMENTAL SCIENCE CORE COURSE

Select 1 Course(s) from the following

ESPM 2 - The Biosphere (3.00)	←	No Course Articulated
ESPM 6 - Environmental Biology (3.00)	←	No Course Articulated
ESPM C10 - Environmental Issues (4.00) Same-As: LNS C30V	←	**ESCI 19** - Environmental Biology (5.00)
ESPM 15 - Introduction to Environmental Sciences (3.00)	←	**ESCI 1** - Environmental Science (4.00)
ESPM C46 - Climate Change and the Future of California (4.00)	←	No Course Articulated

ESPM SOCIAL SCIENCE CORE COURSE

Select 1 Course(s) from the following		
ESPM 5 - From Farm to Table: Food Systems in a Changing World (4.00)	←	No Course Articulated
ESPM C22AC - Fire: Past, Present and Future Interactions with the People and Ecosystems of California (4.00) Same-As: ANTHRO C12AC	←	No Course Articulated
ESPM 50AC - Introduction to Culture and Natural Resource Management (4.00)	←	No Course Articulated
ESPM 52 - History of Native American Land, Colonialism, and Heritage Preservation (3.00)	←	No Course Articulated
ESPM 60 - Environmental Policy, Administration, and Law (4.00)	←	**E S 6** - Introduction to Environmental Law (4.00)

INTRODUCTION TO CONSERVATION AND RESOURCE STUDIES MAJOR

Course(s) must be taken at university		
ESPM 90 - Introduction to Conservation and Resource Studies Major (2.00)	←	This course must be taken at the university after transfer

END OF AGREEMENT