

**Ecology and Natural History of Jasper Ridge Biological Preserve
BIO/EARTHSYS 105 A/B**

Winter and Spring 2022

Thursday 1:30 PM** to 5:00 PM (PT)

Sun Field Station, Jasper Ridge Biological Preserve
4001 Sand Hill Road, Woodside CA 94062

Instructors: Rodolfo Dirzo, Jorge Ramos

TAs: Jamie Leonard, Julien Ueda

** Vans depart from the oval on main campus

COURSE DESCRIPTION

Completion of both Winter and Spring sequence training program is required to join the Ecology and Natural History of Jasper Ridge Biological Preserve course.

The Ecology and Natural History of the Jasper Ridge Biological Preserve is an upper-division course that aims to help students learn ecology and natural history using a “living laboratory”, the Jasper Ridge Biological Preserve. The course’s central goal is that, as a community of learning, we examine –via introductory discussions, followed by hands-on experiences in the field– the scientific basis of ecological research, archaeology, edaphology, geology, species interactions, land management, and multidisciplinary environmental education. The first 10 sessions that compose the academic program are led by the instructors, faculty (world-experts on the themes of each session), and JRBP staff. In addition, this 20-week class (winter and spring quarters) trains students to become JRBP Docents that will join the Jasper Ridge education affiliates community.

After completing the 20-week **Ecology and Natural History of Jasper Ridge Biological Preserve** course and as new affiliates of Jasper Ridge, participants will be able to lead research-focused educational tours, assist with classes and research, and attend continuing education activities available to members of the JRBP community.

A community of learning and respect. The 20-week course operates as a community-based learning environment in which **diversity, inclusion and belonging** are central. Participants commit to be respectful and thoughtful in their interactions and we expect that everyone feels comfortable in sharing ideas, asking questions, listening actively, and collaborating effectively.

Tentative schedule:

Week	Date / Location	Topic	Instructors
Week 1	January 6 <i>JR Field Station</i>	Introduction to course, Jasper Ridge and Jasper Ridge ecosystems walk	Rodolfo Dirzo, Jorge Ramos, Julien, Jamie.
Week 2	January 13 <i>JR Field Station</i>	Geology of Jasper Ridge	Richard Nevle, <i>Earth Systems Program</i>
Week 3	January 20 <i>JR Field Station</i>	Jasper Ridge Soils	Scott Fendorf, <i>Earth System Science</i>
Week 4	January 27 <i>JR Field Station</i>	Archaeology, anthropology, and Native American History.	Laura Jones, <i>Archaeology Center</i>
Week 5	February 3 <i>Escobar gate</i>	Each one teaches one	Rodolfo Dirzo, <i>Biology</i> Stu Koretz, <i>JR Docent</i>
Week 6	February 10 <i>JR Field Station</i>	Introduction to Ecology and quantitative analysis of plant communities	Rodolfo Dirzo, <i>Biology</i>
Week 7	February 17 <i>JR Field Station</i>	Grazing and plant communities	Rodolfo Dirzo, <i>Biology</i>
Week 8	February 24 <i>JR Field Station</i>	Plant Evolution	Katherine Preston, <i>Human Biology</i>
Week 9	March 3 <i>JR Field Station</i>	Jasper Ridge Research: Overview	Nona Chiariello, <i>JRBP</i>
Week 10	March 10 <i>JR Field Station</i>	Carbon cycling in Jasper Ridge	Jorge Ramos, <i>JRBP</i>
Finals	March 17	Final Exam Due	
Spring break	March 21-24	Prepare for BIO / ESYS 105 B	