



Sustainability Certificate

This certificate advances students' understanding of the principles of sustainability and sustainable practices with respect to ecosystems, green buildings, business, agriculture, nutrition, natural resource management and conservation, waste management, energy, transportation systems, urban planning and design, and more. Theoretical and practical aspects of sustainability are explored, including social, economic, and environmental dimensions.

Total Units: 12

First Year

Semester 1

12 Units

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
GEOG 302 Z Environmental Studies & Sustainability	3		F, S
3 units from List A	3	See List A	See List A
3 units from List A	3	See List A	See List A
3 units from List A	3	See List A	See List A

Z At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

[^]You must have passed the prerequisite course(s) with a "C" or better; Corequisite must be taken during the same semester; Advisory means it is recommended but not required to enroll in the course.

*(O) = online available (P) = partially online

List A

List A-a minimum of 9 units from the following:

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
ARCH 332 Z Design Awareness	3		Check Class Schedule for offering

Career

Options/Outlook:

Address organizational sustainability issues, such as waste stream management, green building practices, and green procurement plans. **Career opportunities require more than two years of college study.**

A sample of reported job titles:

Champion of Sustainable Design; Chief Specialist, LEED (Chief Specialist, Leadership in Energy and Environmental Design); Lead Sustainability Specialist; Senior Sustainability Advisor; Senior Sustainability Consultant; Sustainability Coordinator; Sustainability Specialist; Sustainable Design Consultant; Sustainable Design Coordinator

Projected job openings in California (2018-2028):

28,620

COURSE	UNITS	PRE-REQS [^]	SEMESTERS OFFERED*
ARCH 342 Z Introduction to Green Buildings	3		S
BIOL 350 Environmental Biology	3	Advisory: ENGRD 312 & ENGWR 101	Check Class Schedule for offering
BIOL 352 Z Conservation Biology	3		Check Class Schedule for offering
CONST 143 Z Solar Photovoltaic Systems	3		Check Class Schedule for offering
ECON 306 Environmental Economics	3	Advisory: MATH 120 or 125	F
GEOG 300 Z Physical Geography: Exploring Earth's Environmental Systems	3	Advisory: co-req: GEOG 201	F, S
GEOG 305 Z Global Climate Change	3		F(O), S(O)
HORT 300 Z Introduction to Horticulture	3		F, S
HORT 302 ¹ Z Soils, Soil Management, and Plant Nutrition	3	HORT 300	S
HORT 313 ² Z Sustainable Agriculture	3		S
NUTRI 303 ² Z Plant-Based Nutrition	3		F, S
NUTRI 331 ² Z Plant-Based Food Principles and Preparation	3		F

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¹ Also listed as PLTS 310.

² Completion of HORT 313, NUTRI 303, and NUTRI 331 satisfy the requirements for the **Certificate of Achievement in Plant-Based Nutrition & Sustainable Agriculture**.

Projected growth in California (2021-2031):

14% growth

Median Salary in California with advanced degree (2021):

\$75,960/yr

Source:

<https://www.onetonline.org/link/summary/13-1199.05>

About this program map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course

availability or financial aid applicability.

Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.

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