

Sustainability Certificate of Accomplishment - Active

Department: Engineering & Technology

Approval: October 2012

The Sustainability Certificate Program is designed for working professionals, business owners, and students working towards a degree who wish to understand and apply sustainability concepts to their existing or future educational pathways and careers.

Learning Outcomes

Upon completion of this program, students will be able to:

- Analyze the scientific evidence underlying environmental and resource issues and relate the findings to their political, social, and historical context.
- Compare and contrast the pivotal roll that energy occupies in modern society and the ongoing tension between sustainability and energy provisioning and management.
- Analyze the science and mechanisms, and appraise the benefits and negatives attributed to the most promising renewable energy sources as well as the most prevalent sources of energy in use today.
- Critically evaluate proposed solutions to environmental and resource issues especially for their integration of environmental, economic and social goals.
- Apply principles and practices of sustainability to their lifestyle choices and chosen professions.

Participants may obtain the certificate by completing the following courses at City College of San Francisco with a grade of "C" or higher in each course. The certificate can be awarded in as early as two semesters or can be completed over several years.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

Courses Required for the Certificate of Accomplishment in Sustainability

Course	Units
Required courses:	
SUST 31/BIO 31/GEOG 31 - Introduction to Environmental Science	3.00
ENRG 3 - Introduction to Alternative Energy	3.00
SUST 91 - Applied Research in Sustainability	2.00
Total:	8.00
Choose 6 units from the following elective courses:	
Biology Department:	
BIO 19 - Ecology	4.00
BIO 26 - Habitat Restoration Field Studies	1.00
BIO 21J - Agroecology	1.00
Earth Sciences Department:	
GEOG 1 - Physical Geography	3.00
GEOG 4 - Cultural Geography	3.00
GEOG 7 - Economic Geography	3.00
GEOG 41A - Climate Change	1.00
GEOL 30 - Environmental Geology	3.00
GEOL 30L - Environmental Geology Lab	1.00
Engineering and Technology Department:	
BTEC 5 - Briefings in Biotechnology	1.00
ENRG 3L - Introduction to Alternative Energy Laboratory	1.00
ENRG 130/CNST 130 - Residential Energy and Efficiency Measures	3.00
Total:	6.00
Total:	14.00

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