



### **Course Learning Objectives (CLOs)**

Upon successful completion of this course students will have a clear understanding of basic ecology, environmental studies, and sustainability topics. Students will be able to create and teach an effective lesson on a science or environmental topic including hands on activities. After successful completion of this course, students will be able to:

- 1) Answer the questions: What is environmental education? Who am I as an educator?
- 2) Describe, evaluate, and apply appropriate pedagogical approaches to teaching science and environmental topics.
- 3) Summarize and explain basic science and environmental science concepts and current environmental issues.
- 4) Develop, deliver, and reflect on an original environmental education lesson plan that includes hands-on activities and integrates California K-12 teaching standards.

### **Information Literacy Learning Objectives (ILLOs)**

- 1) An information literate student determines the nature and extent of the information needed. The information literate student defines and articulates the need for information, as well as identifies a variety of types and formats of potential sources for information.
- 2) An information literate student evaluates information and its sources critically and incorporates selected information into his/her knowledge base. Students summarize the main ideas to be extracted from the information gathered, articulates and applies criteria for evaluating both the information and its sources, and synthesizes main ideas to construct new concepts.
- 3) The information literate student understands the economic, legal, and social issues surrounding the use of information, and accesses and uses information ethically and legally.

### **Library Liaison**

Peggy Cabrera ([peggy.cabrera@sjsu.edu](mailto:peggy.cabrera@sjsu.edu) or 408-808-2034) is the Library Liaison for the Department of Environmental Studies. She is a great resource. Email her for help via email or to set up a Zoom appointment.

### **Required Course Materials**

#### **Readings**

Broda, H.W. 2007. *Schoolyard Enhanced Learning: Using the Outdoors as an Instructional Tool, K-8*. Stenhouse Publishers. ISBN-13: 978-1571107299.

The Broda book is available in the SJSU Bookstore, [on Amazon](#), and in Canvas as a scanned PDF. The scanned PDFs are not screen reader compatible, so if you need the AEC to create alternate formats, please get a copy from the bookstore. All additional course readings and materials will be integrated into the course Modules and available on Canvas as PDFs or links. These materials will be screen reader compatible.

#### **Technology**

You will need consistent access to a computer with an Internet connection. You should be using the latest version of Chrome, Firefox, Edge, Respondus Lockdown Browser (as applicable), or Safari, and can view a complete list of [Supported Browsers through Canvas Guides](#). Zoom will be used for class meetings and Office Hours. Additionally, we will sometimes be using video recordings to share thoughts and ideas as part of activities or discussions. Canvas has a built-in Media Recorder that is easy to use.

Students are expected to have the following basic computer skills:

- Utilize Canvas LMS and associated tools/features
- Microsoft Office including Word, Excel, and PowerPoint
- File management including downloading, uploading, creating, editing, and saving
- Email including sending, receiving, and managing attachments
- University library searches
- Navigating internet searches, websites, and interactive components

Please note that I do not provide technical help beside instructions on how to access or utilize a particular application. If you need computer or technical help, please utilize the following resources:

[Student Canvas Help Guide](#)

[SJSU Information Technology](#)

- o [itservicedesk@sjsu.edu](mailto:itservicedesk@sjsu.edu)
- o 408-924-1530

left-side menu for several options.

## **Course Requirements and Assignments**

### **Class Format**

This course has virtual class meetings. We will also be utilizing Canvas, the Learning Management Systems used by SUSU. Class content, readings, video lectures, assessments, activities, and exams will be available within Canvas and will be organized into Modules by topic. The course is designed to expand and grow with each Module, and many sections will refer back to previous Modules. Complete the tasks in the order presented to get the most out of the course. Class communications (outside of our meetings) will also be through Canvas.

While some of the material can be done at a time of your choosing (such as readings), there are specific due dates for activities, assessments, discussions, teaching experiences, and exams. You must complete these components before the due date and time. Late work is not accepted. Almost all class meetings will be required. Additionally, there will be one day in late October or early November that you will be teaching a lesson in-person to a K-6 grade class. We will discuss the details within the first few weeks of the semester so that you have plenty of time

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Assignments may include low stakes short quizzes, written work, short video responses and discussions via Canvas, cases studies, and Zoom activities. The major project for the course will be writing and teaching a science or environmental science related lesson plan. We will be collaborating with the SJSU affiliated [CommUniverCity](#) to teach a lesson to elementary and/or middle school students.

### **Formatting for Written Work**

Please note that all assignments need to be formatted as follows: 12 point font, Times New Roman, 1 inch margins, doubled spaced, include a header with name and date, and use Turabian/Chicago, MLA, or APA author-year citation style where applicable. There will be a points deduction for not following these guidelines.

### **Participation**

Students will be expected to actively participate in their learning. This means that you must actively engage with the material presented both on Zoom and in the Canvas Modules. Do the reading. Watch the videos. Think about the questions presented to you. Participate in activities and discussions. Additionally, as much of class to function successfully. Discussions, video responses, assignments, and any other activities that come up during the semester may be used as participation points toward final course grade. **You must be present and prepared to receive participation points for activities**

## Rubrics

Most assignments will be graded using a rubric. For assignments and discussions that utilize a rubric, you can review the rubric before submitting your work to ensure you have met all assignment guidelines and requirements.

[How to view a rubric for an assignment?](#)

[How to view a rubric for a discussion?](#)

[How to view rubric results for my assignments?](#)

## Extra Credit

Students are responsible for recording the details of any offered extra credit assignments.

## Grading Overview and Assessment of Learning Objectives

Please note that points possible may change based on class progression.

Assignment	Points	Learning Objectives
Lesson Plan Dissection	15	CLO # 2
Backward Design Template	20	CLO # 2, 4
Written Lesson Plan	50	CLO # 2, 3, 4, ILLO #1, 2, 3
Lesson Plan Teaching Experiences	50	CLO # 2, 3, 4
Environmental Education Philosophy	40	PLO # 1, CLO #1, 2, 4
Biome Poster	25	CLO #2, 3, ILLO #1, 2, 3
Conservation Activity	20	PLO # 1, 3, CLO #2, 3
Sustainability Activities	20	PLO # 1, 3, CLO #2, 3
Final Exam	100	PLO # 3, CLO #1, 2, 3, 4
Other Activities, Discussions, and Participation	300-400	PLO # 1, 3, CLO #1, 2, 3, 4, ILLO #1, 2, 3
TOTAL	~800	

## University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic

[Syllabus](#)

[Information web page.](#)

## Diversity, Inclusion, and Accessibility

In accordance with San José State University's Policies, the Student Code of Conduct, and applicable state and federal laws, discrimination based on gender, gender identity, gender expression, race, nationality, ethnicity, religion, sexual orientation, or disability is prohibited in any form. The [SJSU Diversity website](#) has information on campus policies and programs, the Office of Diversity, Equity, and Inclusion, and how to report instances of bias.

Students are expected to participate fully in all class activities. It is expected that students will be open-minded, participate fully in discussions in-class and online, and debate in a mature and respectful manner. Use of derogatory, condescending, or offensive language including profanity is prohibited. Expressing disagreement should always include an explanation of your reasoning and whenever possible, evidence to support your position.

The CSU and SJSU both mandate that all students, staff, faculty, and visitors have equal and inclusive access to information and educational materials and programs. Therefore, all instructional documents and materials,

materials, readings, videos, etc. created in an accessible format. If you find a course component that is not accessible to you, please let me know, so that I can make corrections.

Additionally, the accessibility statements and resources (as available) for websites, software, and tools that we may be using in the course can be found at the links below.

[Canvas](#): Learning Management System used by SJSU

[Canvas Studio](#): audio/video recording tool within Canvas LMS

[Google](#): SJSU email, calendar, and online tools

[OpenStax](#): online open access textbooks

[Pressbooks](#): online open access textbooks

[Turnitin](#): plagiarism check tool used in Canvas LMS

[YouTube](#): video hosting/viewing

[Zoom](#): synchronous web conferencing

### **Consent for Recording of Class and Public Sharing of Instructor Material**

Common courtesy and professional behavior dictate that you notify someone when you are recording him/her.

[University](#)

[Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf](http://www.sjsu.edu/senate/docs/S12-7.pdf)

Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent.

### **Academic Integrity**

Please read the [Academic Integrity Policy](#). You should know and understand both plagiarism and cheating.

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University's [Academic Integrity Policy F15-7](#) requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The [Student Conduct and Ethical Development website](#) has more information. Instances of academic dishonesty will not be tolerated. **Cheating or plagiarism (presenting the work of another as your**

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**sanctions by the University.** For this class, all assignments are to be completed by the individual( /Span /MCda/MCda

*SJSU Cares*

Students experiencing challenges meeting their basic needs including, but not limited to, access to food, shelter, and a safe space are encouraged to contact SJSU Cares. The SJSU Cares program can help connect students to both on and off campus resources. Contact information: