

San José State University
College of Social Science/Department of Environmental Studies
ENVS 110 (43914), Natural Resource Analysis, Fall 2021

Course and Contact Information

Instructor:	Rachel Lazzeri-Aerts
Class Days/Times/Location:	Lect: Mon/Wed 12:30-1:45pm Lab: Tue/Thur 9:00-10:15am OR 10:45am-12:00pm Access all class Modules, materials, assignments through Canvas LMS In-person Lab Meetings: WSQ 113
Contact Me:	Canvas Messages/Inbox (preferred) or rachel.lazzeriaerts@sjsu.edu
Office Hours:	after class and by appointment
Prerequisites:	ENVS 001, ENVS 010, STAT 95

Course Overview and Description

Quantitative analysis of Earth's natural resources. Topics typically include the status and trends of resources such as topsoil, agriculture, water, energy, wildlife and the impacts of human population growth on these resources. Emphasis is on problem solving and computational methods applied to resource management problems. Prerequisite: ENVS 1, ENVS 10, STAT 95.

Natural resources include all of the materials that we use to sustain our lives, build our civilizations, and create the luxuries and entertainments that we enjoy. There is nothing that we have that does not originate from the earth, from the sea, or from the sky. In an era of super-abundance it is easy to lose touch with the importance of these resources and the processes that renew them, but as resources become scarce our dependence on them is apparent. Human populations are increasing globally, escalating the pressure on limited resources. Throughout much of human history our response to natural resource deficits has been post-hoc, and reactionary. Our growing understanding of resource use on a global scale gives us an opportunity for conscious stewardship, not only of individual resources, but of the ecological cycles and processes that allow for sustainable productivity over the long term.

Learning Objectives

Program Learning Objectives (Environmental Studies)

- 1) Students are able to write a logical analytical paper using good writing style and construction supported by appropriate research. Assignments will require students to understand and summarize materials in relevant scholarly/technical articles, and to identify basic solutions from an interdisciplinary standpoint.
- 2) Students are able to determine, apply, and interpret appropriate basic statistical or other quantitative analyses to environmental data. Students will be able to articulate and test hypotheses, and read and understand graphs and basic statistics.

Course Learning Objectives

This course has been designed to help students explore and analyze issues related to natural resource management. Specific LOs include

- 1) Students will be able to describe the ways natural resources are used, and summarize issues surrounding natural resource use.
- 2) Students will undertake independent research in a topic related to natural resources, their use, or their regulation. Students will be able to identify important topics, conduct a literature review, and analyze data to answer question about their topic.
- 3) Students will be able to evaluate solutions to issues of natural resource use and management including issues of environmental justice, diversity, and inclusion.

Information Literacy Learning Objectives

- 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.

Required Course Materials

Readings

Stokes, Dale. 2014. *The Fish in the Forest*. UC Press. ISBN 10:9 0520269209.

Townend, John. 2003. *Practical Statistics for Environmental and Biological Scientists*. Wiley. ISBN 13: 9780471496656.

The both books are available in the SJSU Bookstore, on Amazon ([Stokes](#), [Townend](#)) and in Canvas as a scanned PDFs. All additional course readings and materials will be available on Canvas.

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](#). We will be using Zoom for class activities and communication. 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 eCampus Support](#)
 - ecampus@sjsu.edu
 - 408-924-2337
- In Canvas, click the “Help” button in the left-side menu for several options.

Library Liaison

Peggy Cabrera (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.

Course Requirements and Assignments

Class Format

The lecture portion of this course will be completely online through Canvas the Learning Management System used by SJSU. The lab portion of the course will have both in-person and online components. Class content, readings, video lectures, assessments, activities, and exams 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.

While most of the material can be done at a time of your choosing, there are specific due dates for activities, assessments, discussions, and exams. You must complete these components at the due date and time. Late work is not accepted. Additionally, there will be required Zoom meetings roughly every other week for lecture, and in-person and/or Zoom lab meetings every week. All meetings (Zoom and in-person) will be during our scheduled class time. Exact dates are provided in the Course Schedule.

Student Responsibilities

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally three hours per unit per week) for instruction, preparation/studying, or course related activities, including but not limited to internships, labs, and clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus.

It is your responsibility to access the Canvas course, come prepared to lab meetings, engage thoroughly with each Module and associated components, carefully read directions, prepare thoughtful submissions for assignments, discussions, and activities, submit all assignments on-time, and make a commitment to quality work in this course. If you are in doubt about something in the course, ask! Utilize the Question Café Discussion board, send me a Canvas Message, or attend office hours.

Assignments

There will be varying types of assessments, activities, labs, and assignments throughout the course. These assignments are designed to aid in your understanding of the course material, as well as develop skills in evaluating, analyzing, and communicating information about science and environmental issues. Assignments may include low stakes short quizzes, lab reports, other written work, short video responses and discussions via Canvas, cases studies, “in-person” activities via Zoom, in-person labs, and other activities to apply course concepts to real world examples. The culminating project for the course will be designing and completing a research project on a natural resource related topic of your choice.

Exam

One final exam will be given to test your understanding of, and ability to apply, the material presented. The exam will be cumulative, and may consist of multiple choice, true-false, matching, analysis, and short answer questions. Please do not miss the exam as you will not have the opportunity to make it up. Make-up exams may be considered for legitimate and documented circumstances (medical emergency, death in the family).

Participation

Students will be expected to actively participate in their learning. This means that you must actively engage with the material presented in the Canvas Modules. Do the reading. Watch the videos. Think about the questions presented to you. Additionally, as much of this course is based on activities, presentations, and discussions, each student's participation is necessary for the class to function successfully. Just because the course is presented in a hybrid modality, does not mean collaboration with your peers is not essential. Discussions, video responses, Zoom meetings, lab activities, 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; there are no makeup points for missed lab activities, online activities, or Zoom classes.**

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.

Grading Policy

Your grade will be based on your assessments, exam, assignments, and class participation. All assignments are to be turned in through Canvas before the specified due date and time.

Grade Scale

<i>Grade</i>	<i>Percentage</i>
A plus	97 to 100%
A	93 to 96%
A minus	90 to 92%
B plus	87 to 89 %
B	83 to 86%
B minus	80 to 82%
C plus	77 to 79%
C	73 to 76%
C minus	70 to 72%
D	60 to 69%
F	Less than 60%

Late Work

All graded work is **due BEFORE 11:59pm on the due date**. Late work is **NOT** accepted. Plan accordingly, and do not wait until the last minute to submit an assignment. Exceptions may be considered for legitimate and documented circumstances (ie. medical emergency, death in the family).

Rubrics

Some assignments may 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

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

Assignment	Points	Learning Objectives
Popular Media + Current Events	30	CLO 1, 2; ILLO 1, 2, 3
Redwood Case Study Poster	30	PLO 1; CLO 1, 2; ILLO 1, 2, 3
Lab Report Dissection	20	PLO 1, 2
Lab Reports	180 (30 each)	PLO 1, 2; CLO 1, 2
Avian Mini Project	50	PLO 1, 2; CLO 1, 2, 3; ILLO 1, 2, 3
Research Project Proposal + Peer Review	40	PLO 1, 2; CLO 1, 2, 3; ILLO 1, 2, 3
Final Research Project Report	100	PLO 1, 2; CLO 1, 2, 3; ILLO 1, 2, 3
Research Project Presentation	50	CLO 3
Conservation vs Preservation Paper + Debate	60	CLO 1, 2
Final Exam	100	PLO 2; CLO 1, 2
Other Activities, Discussions, and Participation	300-400	PLO 1, 2; CLO 1, 2,
TOTAL	~1,000	

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [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, electronic materials and programs, and web based materials and programs must be created to be accessible by all. The [Accessibility at SJSU website](#) has information on the specific laws and policies regarding accessibility, as well as information on SJSU's programs to ensure accessibility. In this course, my goal is to have all 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.

Academic Integrity

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 own, or the use of another person's ideas without giving proper credit) will result in a failing grade and sanctions by the University.** For this class, all assignments are to be completed by the individual student unless otherwise specified. If you would like to include in your assignment any material you have already submitted, or plan to submit for another class, please note that SJSU's Academic Policy F15-7 requires approval of both instructors.

COVID

All students are expected to comply with campus/CSU policies regarding COVID precautions. Review President Papazian's [August 2, 2021 directive](#) and the resources below to ensure that you understand and follow current policies and guidelines.

- [SJSU Health Advisories: Vaccination and Testing](#) page has information regarding campus and CSU vaccination and/or testing policies
- [SJSU Health Center: Vaccine Requirements](#) page includes additional information about vaccine requirements, reporting, etc.
- [SJSU Health/Safety Protocols](#) page contains information regarding the university's steps, as well as your responsibilities as a SJSU community member, to prevent the spread of COVID among students, faculty, and staff
- [SJSU Symptom Check Tool](#) allows you to do a quick self-check for symptoms
- [SJSU Health Advisories: Resources](#) page contains links to COVID-related information from both the university and outside sources

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. You must obtain the instructor's permission to make audio or video recordings in this class. See [University Policy S12-7](#), <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.

Resources for Students

There are many resources on campus available to you. Some examples include: SJSU Peer Connections Center, the College of Social Science Access Center, SJSU Writing Center, SJSU Counseling and Psychological Service, SJSU Student Health Center, the Academic Success Center, and many places to use or get help with technology. See the [Syllabus Information web page](#) for more info. If you are not sure where to get assistance, please email me/come see me. I can help you find the right campus resources and get you connected with them.

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:

- [SJSU Cares Information website](#)
- sjsucares@sjsu.edu
- 408-924-1234
- Direct link to the [Request Assistance Form](#)

Accessible Education Center (AEC)

The Accessible Education Center is committed to redefining ability for students with disabilities by providing comprehensive services in support of the educational development and success of students with disabilities in a student-centered and professional environment. To receive appropriate accommodations for temporary or permanent disabilities, you must register with the AEC. Additionally, please make an appointment with me as soon as possible, so we can discuss the best ways to implement your accommodations to ensure your success in the course. AEC contact information:

- [AEC website](#)
- aec-info@sjsu.edu
- 408-924-6000

Counseling and Psychological Services (CAPS)

The SJSU Counseling and Psychological Services is located on the corner of 7th Street and San Carlos in the new Student Wellness Center, Room 300B. Professional psychologists, social workers, and counselors are available to provide confidential consultations on issues of student mental health, campus climate, or psychological and academic issues on an individual, couple, or group basis. Numerous workshops for students are offered every semester. Hours are Monday through Friday 8:30am to 5:30pm and Friday 8:30am to 4:30pm. For 24/7 crisis intervention help, call the number below and select “option 4”. Contact information:

- [Counseling and Psychological Services website](#)
- counseling.services@sjsu.edu
- 408-924-5910