



## Syllabus: **BIO 105N-2: Introduction to Environmental Biology**

### Course Information

Course Title: Introduction to Environmental Biology  
Course Prefix/Number: BIO 105N-2  
Semester: Spring 2021  
Class Days/Times: Monday and Wednesday 5:30 -7:00pm  
Credit Hours: 4

### Instructor Information

Name: Mark Clytus  
Phone/Voice Mail: 480-747-4296  
E-mail: mclytus@tocc.edu  
Office location: IT office, SCAC Admin Building  
Office hours: By appointment only or after class

### Course Description

Fundamentals of ecology and their relevance to human impact on natural ecosystems. Includes ecosystem structure and function, population dynamics, and human impacts on air, water, land, and biodiversity. Lecture and lab are taught simultaneously. The course will provide students with a broad survey of environmental science with emphasis on scientific literacy, current events, global and international issues, and historic context. The course will provide students with specific environmental project management theories and tools to address environmental issues.

### Student Learning Outcomes

- Read and critically evaluate current literature relating to Indigenous communities of the environmental issues.
- Demonstrate skills in discussing issues with a variety of people, respecting differences, and seeking common ground (Clarify Purpose and Perspective, Practice Citizenship).

---

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

- Develop and apply scientific knowledge (biological, physical, socio-economic) to evaluate and justify decisions about natural resource use and conservation (Learn and Integrate)
- Develop your science communication skills (through your practice as discussion participant, discussion lead, and presenting the brief historical overview of a topic). Communicate effectively by listening actively, formulating, articulating, and explaining ideas clearly using oral and written techniques
- Practice team-based learning by teaming as a presenter and as a discussion participant.

## Course Structure

The course will be taught online and with scheduled lectures via Zoom of the course. We will have a conceptual pilot environmental project working in teams.

Due to nature of the online course in CANVAS; videos, simulations, hands-on training, and other multimedia learning materials related to the reading assignments will also be completed on your own. Office hours are available to answer additional questions and deepen knowledge.

## Course Learning Materials and Textbook Information

Title & Edition: Essential Environment: The Science Behind the Stories, 6th edition

Authors: Matthew Laposata, Jay H Withgott

ISBN-13: 9780135213193

## Courses Outline and Important Dates

Instruction for this course is provided through the course activities and Lecture on Zoom in the CANVAS online learning portal. Assignments are completed ONLINE through the CANVAS learning management system unless otherwise specified.

Student Preparation for Each Week:

- Read the text chapters assigned according to the assignment due dates in Canvas.
- Complete any other assignments as described in Canvas.
- Send any questions you have via e-mail to [mclytus@tocc.edu](mailto:mclytus@tocc.edu). *Email heading must have [Bio105N-2](#).*

### Course Lecture:

Join Zoom Meeting

<https://zoom.us/j/96136023092>

Meeting ID: 961 3602 3092

One tap mobile

+13462487799,,96136023092# US (Houston)

+16699006833,,96136023092# US (San Jose)

**Study Time for Hybrid or Blended Courses**

For a hybrid or blended course of one (1) credit hour, a student is expected to spend three (3) hours per week studying the course materials.

**Study Time for Online Courses**

For an online course of one (1) credit hour, a student is expected to spend four hours (4) per week studying the course materials.

Example: (4) credit hour course = approximately (12) hours per week study course materials.

Important Administration Dates: [SCAC 2020-2021 Academic Calendar](#)

**TENTATIVE COURSE SCHEDULE**

<b>Week</b>	<b>Class Subject Section</b>	<b>Chapters</b>	<b>Assignments</b>	<b>Date Due</b>
<b>(1/19 -1/22)</b>	Orientation and Course Breakdown	<b>Read Text Ch. 1-4</b>	Introduction: Student short bio and what is student learning goal. Student & Instructor orientation: Establish Google hangout Chat day or Video posts for class discussion.	Students Bio due 1/22
<b>(1/25- 1/29)</b>	Section 1 Air Quality: EPA monitoring, Introduction to NEPA law and Policy.	Read Text Ch. 5	Article discussion summary	Discussion Summary 1/29
<b>(2/1 - 2/5)</b>		Read Text Ch. 13	Guest Lecture: NAU Inter-Tribal Environmental Professionals (ITEP) program	2/1/2021
<b>(2/8 -2/12)</b>		Read Text Ch. 7, 8	Article discussion summary	Discussion Summary 2/12
<b>(2/15 -2/19)</b>		Section 2 Water Quality Law and Policy,	Read Text Ch. 9, 11	Article discussion summary & TBD Guest Speaker
<b>(2/22 - 2/26)</b>	Environmental Forestry, Fish & Wildlife,	Read Text Ch. 14, 15	Article discussion summary & TBD Guest Speaker	Discussion Summary 2/26

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

<b>(3/1 - 3/5)</b>	Sustainability and Fire Prevention, Rangeland Management	Read Text Ch. 16, 17	TBD Guest speaker, Discuss Project Proposals	Proposal summary due 3/3
<b>(3/8 - 3/12)</b>			Review for Midterm 3/8 & 3/10	MIDTERM DUE 3/12/2021 at midnight
<b>(3/15 - 3/19)</b>	Section 3 Preparation Environmental Eco-Restoration and Environmental Project Management Pilot Project		Article discussion summary & TBD Guest Speaker	Discussion Summary 3/19
<b>(3/22 - 3/26)</b>			Article discussion summary & TBD Guest Speaker	Discussion Summary 3/26
<b>(3/29 - 4/2)</b>			Project Draft Report	Draft due 3/31
<b>(4/5 - 4/9)</b>			TBD	
<b>(4/12 - 4/23)</b>				PILOT PROJECT PRESENTATIONS/REPORT DUE
<b>(4/26 - 4/30)</b>			<b>FINALS Preparation</b>	
<b>(5/3 - 5/7)</b>			<b>FINALS</b>	FINAL 5/5/2021

### Evaluations and Grading & Assignments:

90 and above is an A

80 - 89 is a B

70 - 79 is a C

60 - 69 is a D

Under 60 is Failing

### Your grade will be determined by the following:

---

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

- I. Homework/Discussion Summary** **[20% of Total]**  
Homework is designed to be a tool that will help you understand the concepts covered in class. All students are required to complete homework and manage a digital portfolio on a cloud service (Google Drive, MS OneDrive, Dropbox). The homework that need be filled out and completed, will then be submitted digitally. Students are encouraged to work together *but each student is required to submit their own work through the digital portfolio.*
- II. Project** **[30% of Total]**  
This will be small pilot project on an environmental issue within Native Community. Students will be in small groups with rubric on group participation for overall project points.
- III. Test** **[50% of Total]**  
Tests are designed to measure a student's comprehensive knowledge. There are only two tests during the semester: (1) the Mid-term, and (2) the Final. The exams dates are set for a whole day and students can turn them in through Canvas due at midnight day assigned. Further discussion of tests must be done by the students through email to the instructor. The course website will inform students of information on the dates.
- IV. Extra Credit** **[+20%]**  
Will be given for extraordinary effort in homework, quizzes, and tests at the discretion of the instructor.

## Apache Cultural Component

San Carlos Apache College is in the process of developing culturally relevant curriculum and coursework in Apache history, culture, and language. Student and community feedback will guide this process. All SCAC instructors will find ways to incorporate culturally relevant topics and materials into their courses as appropriate.

## Policies and Expectations

### Attendance Policy:

You are expected to arrive to class on time and be prepared to participate in each class period. Four unexcused absences may result in withdrawal and a "W" or "Y" will be recorded. You may request to be excused from class for religious observances and practices, for illness, for school or work-related travel or for personal or family emergency. If you will be absent, please notify the instructor as soon as possible. (Revise as needed for the online environment.)

### Academic Integrity:

Violations of scholastic ethics are considered serious offenses by San Carlos Apache College. Students may consult the SCAC Student Handbook sections on student code of conduct, on scholastic ethics and on the grade appeal procedure.

All work done for this class must be your own, or the original work of your group. While you may discuss assignments with other class members, the final written project must clearly be original. You may use work from books and other materials if it is properly cited.

**Course Feedback:**

All assignments will be graded and returned to the students promptly, typically within a week after the assignment is closed for handing in. Email and phone messages will be returned within two days. A student or the instructor may request a student conference at any time during the semester. Quarterly grade reports will be provided to each student, either in person, by email or via the electronic system of Canvas.

**Incomplete Policy**

Incomplete (I) grades are not awarded automatically. The student must request an "I" from the instructor who can choose to award an Incomplete only if all three of the following conditions are met:

1. The student must be in compliance with the attendance policy.
2. The student must have unavoidable circumstance that would prohibit the student from completing the course.
3. The student must have completed over 75% of the course requirements with at least a "C" grade.

Incompletes are not a substitute for incomplete work due to frequent absences or poor academic performance. Incomplete grades that are not made up by the end of the ninth week of the following semester will be automatically changed to an F if the agreed upon work, as stipulated on the written form signed by the instructor and the student when the I grade is awarded, is not completed.

**Instructor Withdrawals**

Students who have missed four consecutive classes (or the equivalent) not submitted any assignments nor taken any quizzes by the 45th day census report, due on [date of 45th day found in Academic Calendar on SCAC website] are assumed NOT to be participating in the class and may be withdrawn at the faculty member's discretion. [faculty members should be clear in their withdraw policy, if you do not withdraw students please note in appropriate sections].

**Student Withdrawals**

Students may withdraw from class at any time during the first 2/3 of the semester without instructor permission and without incurring any grade penalty. Please be sure to withdraw yourself by [withdrawal deadline date found in Academic Calendar on SCAC website] if you do not expect to complete the class, otherwise you may receive an "F" grade.

**Special Withdrawals (Y) Grade**

The "Y" grade is an administrative withdrawal given at the instructor's option when no other grade is deemed appropriate. Your instructor must file a form stating the specific rationale for

awarding this grade. "Y" grades are discouraged since they often affect students negatively. Your instructor will not award a "Y" grade without a strong reason.

### **Equal Access Statement/Disability Accommodations**

San Carlos Apache College seeks to provide reasonable accommodations for qualified individuals with disabilities. The College will comply with all applicable regulations, and guidelines with respect to providing reasonable accommodations as required to ensure an equal educational opportunity. This process includes self-identifying as a student with a disability, providing supporting documentation of their disability, and being approved for services through the Disability Resources Office (DRO). It is the student's responsibility to make known to their instructor(s) the student's specific needs within the context of each class in order to receive appropriate accommodations. We will work together in order to develop an accommodation plan specifically designed to meet the individual student's requirements.

For more information or to request academic accommodations, please contact: Anthony Osborn, TOCC Disabilities Resource Coordinator, aosborn@tocc.edu, or 520-383-0033 for additional information and assistance.

### **Title IX**

San Carlos Apache College encourages each student to have the knowledge and skills to be an active bystander who intervenes when anyone is observed or being harassed or endangered by sexual violence. Sexual discrimination and sexual violence can undermine students' academic success and quality of life on campus and beyond. We encourage students who have experienced or witnessed any form of sexual misconduct to talk about their experience and seek the support they need.

### **Conduct: Bias, Bullying, Discrimination and Harassment**

San Carlos Apache College faculty and staff are dedicated to creating a safe and supportive campus environment as a core value. Harassment based on age, class, color, culture, disability and ability, ethnicity, gender, gender identity and expression, immigration status, marital status, political ideology, race, religion/spirituality, sex, sexual orientation, and tribal sovereign status will not be tolerated.

### **Course Policies:**

- 1) Students are expected to attend each class., arriving on time, except in the case of an excused emergency.
- 2) Students are expected to contact instructor prior to absences, coming late to class or leaving early.
- 3) Unexcused late arrivals or early departures will count against attendance record.

- 4) Class participation and preparation are essential to student success. Students must read textual material, prepare for projects, complete required research as stated on the course schedule.
- 5) Students are expected to come to class prepared for class and having done any preliminary work required as per the course schedule.
- 6) Students are expected to stay in class and work diligently throughout the whole time. Sleeping, frequent/continued exiting from the class during the class period will constitute one (1) absence.
- 7) No cell phone use is allowed during class. Use of cell phones during class, unless permitted by instructor, is a violation of the T-So:son.
- 8) Late work is marked down 10 points for each day of tardiness.

**Make-up policy:**

Late assignments that can be made up will be accepted but will be penalized 25%. Laboratories cannot be made up except in the case of college closure. At the instructor's discretion, extra credit opportunities and optional activities may be provided.

**Classroom Behavior**

- Visitors may be only allowed at class sessions or on field trips with instructor approval, visitor's safety and behavior are the responsibility of the student.
- Possession of drugs, alcohol or firearms on college property is illegal.
- Food and beverages are allowed in classrooms at discretion of the instructor.
- Cellphones should be turned off during class, unless the instructor is allowing students to use their tools (calculator, internet access).
- Students creating disturbances that interfere with the conduct of the class or the learning of others will be asked to leave.
- Student behavior is also detailed in student handbook under Student Code of Conduct Violations

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.