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| NORTH CENTRAL TEXAS COLLEGECOURSE SYLLABUS |

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| *Course Title:*  | BIOL 2406 Environmental Biology |
| *Course Prefix & Number:*  | BIOL 2406 | *Section Number:*  | 0341 | *Semester/Year:*  | Fall2021 |
| *Semester Credit Hours:*  | 4 | *Lecture Hours:*  | 48 | *Lab Hours:*  | 32 |
| *Course Description (NCTC Catalog):* Principles of environmental systems and ecology, including biogeochemical cycles, energy transformations, abiotic interactions, symbiotic relationships, natural resources and their management, lifestyle analysis, evolutionary trends, hazards and risks, and approaches to ecological research. \*Note: This course is a 16-week fully online course with pre-recorded lectures and online labs.  |
| *Course Prerequisite(s):*  |
| *Required Course Materials:***Lecture Book:***Principles of Environmental Science* 9th edition, Cunningham and CunninghamISBN 978-1260219715 |

**INSTRUCTOR INFORMATION**

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| *Name of Instructor:* | Amy Hoffman, M.S.  |
| *Campus/Office Location:* | Online office hours:Mondays & Thursdays: 9:00am- 11:00am & 1:00pm- 3:00pmMy goal is to respond to all emails within 24 hours. If you would like a video meeting please make an appointment through Canvas email or CiscoWebex.Face-to-face office hours:Wednesdays:Corinth, 261- 11:00am- 2:00pmDenton, 241- 4:00pm- 5:00pm |
| *Telephone Number:* | 940-668-4290 (fastest contact is via Canvas email) |
| *E-mail Address:* | ahoffman@nctc.edu |

**STUDENT LEARNING OUTCOMES** (From Academic Course Guide Manual/Workforce Education Course Manual/NCTC Catalog

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| *At the successful completion of this course the student will be able to:* |
|  | **Lecture Learning Outcomes**1. Explain the structure and impact of biogeochemical cycles.
2. Describe energy transformations across trophic levels.
3. Illustrate abiotic/biotic interactions and symbiotic relationships.
4. Identify various types of natural resources, human impact on these resources, and common resource management practices.
5. Quantify and analyze the impact of lifestyle on the environment.
6. Depict evolutionary trends and adaptations to environmental changes.
7. Describe environmental hazards and risks and the social and economic ramifications.
8. Describe ecological and statistical techniques and approaches used in the study of environmental biology.

**Lab Learning Outcomes**Upon successful completion of this course, students will:1. Apply scientific reasoning to investigate questions and utilize scientific tools such as microscopes and laboratory equipment to collect and analyze data.
2. Use critical thinking and scientific problem solving to make informed decisions in the laboratory.
3. Communicate effectively the results of scientific investigations.
4. Explain the structure and impact of biogeochemical cycles.
5. Describe energy transformations across trophic levels.
6. Illustrate abiotic/biotic interactions and symbiotic relationships.
7. Identify various types of natural resources, human impact on these resources, and common resource management practices.
8. Quantify and analyze the impact of lifestyle on the environment.
9. Depict evolutionary trends and adaptations to environmental changes.
10. Describe environmental hazards and risks and the social and economic ramifications.
11. Describe ecological and statistical techniques and approaches used in the study of environmental biology.
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**TENTATIVE COURSE SCHEDULE ON LAST PAGE OF SYLLABUS**

**GRADING CRITERIA**

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| *# of Graded Course Elements* | *Graded Course Elements* | *Percentage or Point Values* |
| 3 | Lecture Homework Assignments | 15% |
| 12 | Discussions/ Lecture Group Work/ Quizzes (drop lowest 2**+**) | 10% |
| 3 | Lecture Exams (15% each, multiple choice) | 45% |
| 1 | \*\*Optional Comprehensive Final Exam (multiple choice) | \*\*15% |
| 16 | Laboratory Assignments (drop lowest 2**+**) | 30% |
| Total |  | 100% |

**\*\*An optional comprehensive final will be offered as a make-up for missed exams or to replace the lowest exam grade.**

**+If an assignment is REQUIRED it cannot be dropped.**

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| **Grading Scale** |
|  **89.5% & up = A**  **79.5-89.4% = B**  **69.5-79.4% = C**  **59.5- 69.4% = D** **Below 59.5% = F** |

**HOW TO MAKE A WEBEX APPOINTMENT**

1. Log into Canvas.
2. Click on the Canvas shell for our course.
3. Click on Cisco Webex on the left-hand side.
4. Click on Office Hours.
5. Click on a time you would like to meet.
6. Cisco Webex will email you a link for the meeting.

\*If you are unable to meet at one of the times offered please email me for an appointment.

**QUIZ/ EXAM INSTRUCTIONS**

The are several individual assignments for this course, these include: Lab Quizzes/ Assignments, Lecture Quizzes, and Lecture Exams. The Google Chrome Browser seems to work best.

***Lab Assignments/ Quizzes***

Labs will be handouts and will be posted in Modules. For extra help, there are Additional Resource pages with links and introduction videos to each lab throughout the course in Modules.

For Lab Quizzes students will get 2 attempts in taking each Quiz and the highest score will be kept. The time limit is 15 minutes. The quiz questions will come from a question bank, so for each attempt students will receive different questions.

***Lecture Quizzes***

Lecture Quizzes are based on the provided powerpoints and pre-recorded Video lectures posted in Modules. There will be one Lecture Quiz in the middle of each Unit. There are 20 multiple choice questions. Students will get 2 attempts in taking the Quiz and the highest score will be kept. The time limit is 15 minutes. The quiz questions will come from a question bank, so for each attempt students will receive different questions. The Exam Review is a great way to study for these quizzes.

***Lecture Exams***

Lecture Exams are based on the provided powerpoints, Video lectures, Lecture Quizzes, Homework, and the Lab Handouts posted in Modules. The Lecture Exam Review is a great way to study for the Lecture Exams. Each Lecture Exam is 35 multiple choice questions. Students will get 2 attempts in taking the Exam and the highest score will be kept. The time limit is 20 minutes. The exam questions will come from a question bank, so for each attempt students will receive different questions. The Lecture Exam will be available on the date(s) indicated on the syllabus and grades will be re-weighted after the Exam closes. The Final Lecture Exam can replace the student’s lowest Lecture Exam grade. If the student receives a lower grade on the Final Lecture Exam (compared to his or her other Lecture Exam grades) the Final will not hurt their grade.

**PARTICIPATION & HOMEWORK POLICY**

Students are expected to participate by asking questions, commenting respectfully on subject matter, engaging in the discussions, and taking appropriate notes. Attendance will be taken once a week and is based on the completion of the weekly assignments.

Assignments are due by the stated time on the syllabus, Canvas, and/or the date on the worksheet. The Canvas Calendar can be used to keep track of due dates. **No late assignments will be accepted.** It is strongly encouraged for students to turn in assignments early. All assignments except for the Exam will be open when the Unit opens. Specific dates are on the last pages of the syllabus.

***Group Work***

Group Work will be submitted individually. Students can work with others if they wish, but each student will need to submit their own answers. You are welcome to complete Group Work assignments on your own in an online course.

***Homework and Lab Assignments***

Homework and Lab assignments will be individual. Please do not plagiarize or submit another student’s homework or lab assignment.

***Discussions***

There will be at least one graded Discussion for each Unit. Please comment respectfully with other students and write in complete sentences.

**SUBMISSION INSTRUCTIONS**

Due dates are indicated in Canvas, on the provided worksheet and/or on the last pages of the syllabus.

Students are only required to submit the answers to the questions (typed or handwritten). Students can choose to download the assignment and fill in the blanks around the questions.

Students can submit assignments by clicking on the individual assignment in Canvas and uploading a picture (jpeg) or other attachment (pdf, word doc, pages). Students can also answer the questions in the text box for the assignment on Canvas. Students are also welcome to submit answers via Canvas or NCTC email if they are having issues with uploading in Canvas.

In the event the instructor is unable to open a student’s submission of a Homework, Group Work, and/or special non-quiz Lab assignment the student must resubmit the assignment within 24 hours once the instructor has notified the student via comments on that specific assignment in Canvas. If the instructor is unable to open the document each student is allowed **one** resubmission of **one** assignment during a semester. There will be 10 points taken off the assignment.  Students are welcome to email the instructor to ask if something has been uploaded correctly.

**ATTENDANCE POLICY**

Attendance will be taken once a week and is based on the completion of the weekly assignments. Regular and punctual attendance is expected of all students in all classes for which they have registered. All absences are considered to be unauthorized unless the student is absent due to illness or emergencies as determined by the instructor. It is the student responsibility to provide documentation as to the emergency for approval and judgment by the faculty member. Approved college sponsored activities are the only absences for which a student should not be held liable and only when provided by a college official ahead of the absence. Valid reasons for absence, however, do not relieve the student of the responsibility for making up required work. Students will not be allowed to make up an examination missed due to absence unless they have reasons acceptable to the instructor. A student who is compelled to be absent when a test is given should petition the instructor, in advance if possible, for permission to postpone the exam. Students will be dropped from a class by the Registrar upon recommendation of the instructor who feels the student has been justifiably absent or tardy a sufficient number of times to preclude meeting the course’s objectives. Persistent, unjustified absences from classes or laboratories will be considered sufficient cause for College officials to drop a student from the rolls of the College. From Board Policy FC (LOCAL)

*Absences exceeding 9 contact hours of lecture and or laboratory of BIOL 2406 may result in the student being dropped from the course. It shall be at the discretion of the instructor to drop students who are absent in excess of 9 contact hours.*

Last day to withdraw from a course with a “W” is \_\_\_\_\_ November 1, 2021.

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| If a student cannot complete all the requirements of this course due to illness or some unavoidable conflict, they must request in writing a grade of “I” (incomplete) in order to be allowed to finish the requirements at a later date. When the instructor receives the request, he/she must reply in writing to the request, explaining why the grade of “I” will or will not be assigned. The student needs to be in good standing (passing with an A or B) to apply for an “I”. |

**DISABILITY SERVICES** (Office for Students with Disabilities)

The Office for Students with Disabilities (OSD) provides support services for students with disabilities, students enrolled in technical areas of study, and students who are classified as special populations (i.e. single parents).

Support services for students with disabilities might include appropriate and reasonable accommodations, or they may be in the form of personal counseling, academic counseling, career counseling, etc. Furthermore, OSD Counselors work with students to encourage self-advocacy and promote empowerment. The Counselors also provides resource information, disability-related information, and adaptive technology for students who qualify.

If you feel you have needs for services that the institution provides, please reach out to either Wayne Smith (940) 498-6207 or Yvonne Sandman (940) 668-4321. Alternative students may stop by Room 170 in Corinth or Room 110 in Gainesville.

North Central Texas College is on record as being committed to both the spirit and letter of federal equal opportunity legislation, including the Americans with Disabilities Act (ADA) of 1990, ADA Amendments Act of 2009, and Section 504 of the Rehabilitation Act of 1973 (P.L. 93-112). <http://www.nctc.edu/StudentServices/SupportServices/Disabilityservices.aspx>

**CORE CURRICULUM FOUNDATIONAL COMPONENT AREA** (For classes in the Core)\_\_\_\_\_\_\_\_

 Communication

 Mathematics

X Life and Physical Science

 Language, Philosophy & Culture

 Creative Arts

 American History

 Government/Political Science

 Social and Behavioral Sciences

 Component Area Option

**REQUIRED CORE OBJECTIVES** (For classes in the Core)

X Critical Thinking

X Communication

X Empirical and Quantitative

X Teamwork

 Personal Responsibility

 Social Responsibility

**COURSE TYPE**

 Academic General Education Course (from ACGM but not in NCTC Core)

**X** Academic NCTC Core Curriculum Course

**** WECM Course

**STUDENT HANDBOOK**

Students are expected to follow all rules and regulations found in the student handbook and published online.

**ACADEMIC DISHONESTY**

Scholastic dishonesty shall include, but is not limited to cheating, plagiarism, academic falsification, intellectual property dishonesty, academic dishonesty facilitation and collusion. Faculty members may document and bring charges against a student who is engaged in or is suspected to be engaged in academic dishonesty. See Student Handbook, “Student Rights & Responsibilities: Student Conduct ([FLB(LOCAL)]”.

Consequences for academic dishonesty may include:

1. A zero “0” for the assignment and/or Exam.

**NCTC TOBACOO-FREE POLICY**

NCTC restricts the use of all tobacco products including E-cigarettes, cigarettes, cigars, pipes and smokeless tobacco on campus property. NCTC is aware that tobacco use influences underage students, which cumulates unsightly tobacco litter and interferes with assuring clean air for all who come to NCTC. NCTC recognizes the health hazards of tobacco use and of exposure to second hand smoke. Information on a tobacco cessation program is available for students, faculty, staff who wish to stop using tobacco products. We would like to "thank you" for your help in making our campuses Tobacco-Free. For questions or concerns please contact the Office of Vice President of Student Services at 940.668.4240.

**EARLY ALERT AND** [**CARES**](https://www.nctc.edu/cares-team/index.html)

For help:

NCTC main phone number: 940-668-7731

Students can TEXT NCTC at: 940-251-0701

Students can email NCTC with advising questions at: advising@nctc.edu.

The NCTC Early Alert program assists students who are at risk of failing or withdrawing from a course. Faculty and staff may refer students through the Early Alert process at any point in the semester in an effort to provide appropriate intervention and access to support services. Examples of behaviors that could prompt an Early Alert referral could be missing assignments, failing tests, excessive absences, or personal circumstances impacting academic performance. A student submitted as an Early Alert will be contacted by an [academic advisor or success coach](http://www.nctc.edu/counseling-advising/index.html) through text, phone, and/or via their NCTC e-mail address to discuss any current challenges as well as helpful resources and success strategies-we want our students to finish strong and know that education is a partnership!

The [NCTC CARES Team](http://www.nctc.edu/cares-team/index.html) is concerned not only about our students' academic success, but also their emotional and physical well-being. As a student, you have the ability to report concerning behavior which could impact your own safety or the safety of another NCTC student, such as stalking, harassment, physical or emotional abuse, violent or threatening behavior, or self-harm. Visit the NCTC CARES site to also locate [campus and community resources](https://www.nctc.edu/counseling-advising/community-resources.html), or email counseling@nctc.edu.  As always, if you feel there is an immediate threat to your own safety or welfare (or to another student), please call 911 immediately.

**OTHER SERVICES**

[**Affinity Groups**](http://www.nctc.edu/affinity-groups/index.html)

Staff and faculty representing the Employee Resource Groups (ERG’s), along with academic advisors, counselors and success coaches, serve as mentors for NCTC’s student-centered ​Affinity Groups​.

An ​Affinity Group​ is a population of students who have specific needs, barriers or systems they are needing to navigate not only within college, but within life. Providing mentorship, support and resources for identified Affinity Groups such as Black/African American students, veterans and active military, single parents, students with disabilities, adult learners, Latinx, LGBTQ+ and students who have experienced foster care and/or homelessness, enables us to make more impactful, meaningful connections with students who are in dire need of equity and understanding.

[**Career Services Center**](https://www.nctc.edu/career-services/index.html)

In need of employment? NCTC Career Coaches meet one-on-one to provide training in writing resumes, job searches, interviewing, and more. The Skills to Succeed Academy is also a free interactive, online employability training program focused on building the skills and confidence you need to find the best career.

[**Completion Center**](http://www.nctc.edu/student-services/completion-center/index.html)

The Completion Center provides a variety of services for first-time in college students. These include academic success coaching, goal setting, course planning, student resources, career development, and job placement services for all new college students. Free online Success Seminars are also available through [Student Lingo](https://studentlingo.thoughtindustries.com/nctc/tye5arkyzk5k3wt4) and new students will also enroll in a First Year Experience (NCTC 1001) course to get started on the right track!

[**Counseling and Advising**](http://www.nctc.edu/counseling-advising/index.html)

Academic Advisors and Counselors help students explore majors and programs offered, how to take the best combination of classes to meet your goals, assist with questions related to university transfer, and guide students towards academic and personal success, and more. At NCTC, you are assigned to a specific advisor or success coach based on your major or career interests. You can locate our advisors and their majors, along with contact information on the Meet Your Advisor page-and even schedule an appointment with them through their online calendar!

[**Equity, Diversity and Inclusion (EDI)**](http://www.nctc.edu/equity-diversity-inclusion-division/index.html)

EDI partners with the entire campus community to create, maintain and demonstrate NCTC’s commitment to an equitable, diverse and inclusive learning environment where NCTC students succeed. NCTC defines equity as encompassing the practice of acknowledging individual differences and systemic disparities when developing new programs and resources for our campus community, which may sometimes challenge our own beliefs and assumptions, in order to ensure balanced educational opportunities toward completion. Everyone Included. Everyone Belongs. Everyone Valued. Everyone Inspired.

[**Financial Aid**](http://www.nctc.edu/financial-aid/index.html)

The Office of Financial Aid provides students with information and guidance with applying for eligible types of financial assistance, such as the FAFSA (Free Application for Federal Student Aid). Students who have any types of exemptions or tuition waivers will also work with the Financial Aid Office to have these funds applied to their accounts. Additionally, the [Scholarship Office](http://www.nctc.edu/external-affairs/scholarships/index.html) provides local scholarship opportunities through an online application process, and tips on how to secure other types of scholarship awards which can help finance educational goals.

[**Student Success Center**](http://www.nctc.edu/student-services/student-success/tutoring/index.html)

The Student Success Center is designed to help all students at NCTC develop tools to achieve their academic goals. The center links students to FREE tutoring, including a Writing Center, a Math Lab, and free online tutoring. Student Success offers academic coaching, tutoring, including a Writing Center, and a Math Lab to assist new students acclimate to college by providing computer lab services for prospective students. First generation students can also participate in [TRIO](http://www.nctc.edu/student-services/trio-student-support-services/index.html) which offers specialized services.

[**Testing Services**](http://www.nctc.edu/testing-center/index.html)

The mission of NCTC Testing Services is to provide high-quality testing services that adhere to the professional standards and guidelines to meet the needs of students, faculty, and community members.

**COVID INFORMATION (if you go on campus- Note our course is online only.)**

**Syllabi statement regarding potential Conversion of Onsite Classes to Online/Remote Format:** North Central Texas College students should be aware that in the event of a college closure due to COVID-19 or other health related crisis, onsite classes will be converted to an online/remote format. Students should plan ahead to ensure they have access to the computer equipment (either PC, MAC, or tablet), webcam, and internet connectivity to continue their classes in an online/remote format. Please read all your official North Central Texas College student emails as the transition from onsite to online/remote might require a reorganization in your personal situation. Students will be granted a 72-hour transition and grace period. Online classes will continue as scheduled without disruption. Contact your Instructor as the situation arises. These policies and procedures were updated on July 27, 2021 and are subject to change as conditions change.

**Syllabi Statement Regarding Face Coverings:** Per the North Central Texas College guidance on face coverings on campus, in the instructional setting, faculty and students are not required to wear face coverings, such as masks or face shields. In May, Texas Governor Gregg Abbott released an Executive Order prohibiting Government entities from mandating the use of masks. As a political subdivision of the State of Texas, NCTC will follow the Governor’s Executive Order for Government entities and effective immediately NCTC is no longer mandating the use of masks while on campus. This order does not mean that you cannot choose to wear a mask, rather it is no longer allowed to be mandated. These policies and procedures were updated on May 19, 2021 and are subject to change.

**Return to Standard Attendance Protocol for Face-to-Face Meetings:** In spring 2020, we faced an unprecedented situation in which all of us had to be flexible and make prudent decisions in the best interest of our families, our campus, and our community. In light of this, North Central Texas College is temporarily establishing the requirement that faculty keep records of student attendance for face-to-face course meetings as well as a documented seating chart. In addition, students who are sick or need to quarantine should not attend classes. Students will not be required to provide formal documentation from a health care provider and will not be penalized for COVID-19 related absences when proper notification to campus health officials is made in accordance with the guidelines stated below.

Faculty will:

* Notify students about important course information and delivery changes through Canvas and campus email.

Students should:

* Provide notification to campus officials if they have tested positive for COVID-19 or have to quarantine so we can confirm reported absence with instructors, monitor, and assist the campus community.
* Notify instructors in advance of the absence.
* Connect with that class through Webex if the class session is being transmitted in a hybrid fashion.
* Keep up with and/or make up missed classwork or assignments.
* Submit assignments digitally through Canvas or other means as announced by your instructor.
* Work with their instructors to reschedule exams, labs, and other critical academic activities described in the course syllabus.
* Check Canvas and campus email daily to receive important announcements pertaining to the course.

During the fall 2021 semester, faculty with face-to-face meetings will establish assigned seating/work stations to facilitate roll-taking, and, if necessary, contact tracing. Additionally, we ask all members of the College community to be attentive to their health, and safeguard others, by following the CDC’s guideline to “stay home when you are sick.” You should stay home if you have symptoms. More information on what to do if you are sick is available at the CDC’s website.

Additional NCTC information is available at <http://www.nctc.edu/coronavirus/index.html>

**QUESTIONS, CONCERNS, or COMPLAINTS**

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| Name of Chair:  | Mrs. Jaime Noles |
| Office Location: | 408, Gainesville Campus |
| Telephone Number: | 940-668-7731 ext. 4930 |
| E-mail Address: | jnoles@nctc.edu |
| Name of Instructional Dean:  | Sara Flusche |
| Office Location: | Gainesville Campus |
| Telephone Number: | 940-668-3321 |
| E-mail Address: | sflusche@nctc.edu |

**Laboratory Safety Guidelines**

***\*\*******Although this course is Online, there will be a state required Safety Quiz in the Introduction Module.***

1. Locate safety equipment and know how to use the safety equipment.
2. Do not eat or drink in the laboratory.
3. Wear appropriate attire for laboratory work. **Students cannot wear open toed shoes, e.g., sandals, “flip-flops”**
4. Monitor risk: inform the instructor if you are pregnant, taking immunosuppressive medicines, or have any medical condition that might require special precautions in the lab, such as medications that would influence your response or reflex time. Under NO circumstances should you attend a lab session while “under the influence” of any chemical substance.
5. Avoid spills: place liquids toward the center of the bench, away from the edges.
6. Labels: read labels carefully before removing substances from containers.
7. Discard used chemicals and materials into appropriately labeled containers, do not dispose of them down the sink unless specified by the instructor.
8. Broken glass: be careful handling broken glassware with bare hands. Dispose of all cracked or broken glassware in special puncture resistant containers found in the labs, not the regular trash can.
9. Report any spills, accidents, strange occurrences, or other safety incidents to the instructor.
10. Professional conduct is expected to avoid creating dangerous situations. If you have any questions concerning the safety of a procedure, consult your instructor.
11. Immediately report damaged equipment to your instructor.
12. Thoroughly wash hands with soap and water before leaving the laboratory.

**ENVIRONMENTAL BIOLOGY LECTURE & LAB SCHEDULE (tentative)**

***\*NCTC is closed Sept. 6th (Labor Day) and Thanksgiving Break (Nov. 24th – 28th).***

*\*\*Each unit will open at specific times set by the instructor. Lecture Exams will only be open on the specific dates and times below. If there is a conflict please notify the instructor immediately and see the Attendance section of the Syllabus.*

All assignments will be graded after their due date.

Sometimes there are several assignments due the same day. It is recommended to turn in work and/or complete the work early.

**Unit 1: The Essentials**

***Open: Monday, Aug. 23rd 12:00am***

**Syllabus Quiz Due: Monday, Aug. 30th 11:59pm**

**Lab Safety Quiz Due: Monday, Aug. 30th 11:59pm**

**Environmental Intro. Discussion: Due: Monday, Aug. 30th 11:59pm**

**Ch. 1 Understanding the Environment**

**Lab:**

**Scientific Method Lab Due: Thursday, Sept. 2nd 11:59pm**

**Microscope Quiz Due: Thursday, Sept. 2nd 11:59pm**

**Ch. 2 Environmental Systems**

**Lab:**

**Biogeochemical Cycles Lab Due: Tuesday, Sept. 7th 11:59pm**

**Ch. 3 Evolution, Species Interactions, and Communities**

**Lab:**

**Food Webs & Sampling Lab Due: Tuesday, Sept. 7th 11:59pm**

**Lecture Quiz 1: Covers Ch. 1, 2, and 3. Due: Due: Thursday, Sept. 9th 11:59pm**

**Ch. 5 Biomes & Biodiversity**

**Lab:**

**Biomes & Biodiversity Lab Due: Monday, Sept. 13th 11:59pm**

**HW 1 Due: Saturday, Sept. 18th 11:59pm**

**Invasive Species Lab Due: Monday, Sept. 20th 11:59pm**

**Ch. 6 Environmental Conservation**

**GW Conservation Due: Thursday, Sept. 23rd 11:59pm**

**Lecture Exam 1**

***Open: Saturday, Sept. 25th 12:00am***

***Closes: Sunday, Sept. 26th 11:59pm***

**Unit 2: Human Population & Activity**

***Open: Sunday, Sept. 26th 12:00am***

**Ch. 4 Human Populations**

**GW Population Due: Thursday, Sept. 30th 11:59pm**

**Lab:**

**Population Growth Due: Monday, Oct. 4th 11:59pm**

**Ch. 7 Food & Agriculture**

**GW Food Survey Due: Monday, Oct. 4th 11:59pm**

**Lab:**

**Marine Fisheries Due: Thursday, Oct. 7th 11:59pm**

**Soil Due: Thursday, Oct. 7th 11:59pm**

**Ch. 14 Solid & Hazardous Waste**

**GW Trash Due: Monday, Oct. 11th 11:59pm**

**Lab:**

**Consumption Due: Due: Monday, Oct. 11th 11:59pm**

**Lecture Quiz 2: Covers Ch. 4, 7, and 14. Due: Thursday, Oct. 14th 11:59pm**

**HW 2 Due: Saturday, Oct. 16th 11:59pm**

**Ch. 8 Environmental Health & Toxicology**

**Toxin Discussion Due: Monday, Oct. 18th 11:59pm**

**Ch. 12 Geology & Earth Resources**

**GW Geology Due: Thursday, Oct. 21st 11:59pm**

**Lecture Exam 2**

***Open: Saturday, Oct. 23rd 12:00am***

***Closes: Sunday, Oct. 24th 11:59pm***

**Unit 3: Pollution & The Future**

***Open: Sunday, Oct. 24th 12:00am***

**Ch. 11 Water Pollution**

**GW Water Due: Thursday, Oct. 28th 11:59pm**

**Lab:**

**Water Quality Pt. 1 Due: Monday, Nov. 1st 11:59pm**

**Water Quality Pt. 2 Due: Monday, Nov. 1st 11:59pm**

**Ch. 9 Climate**

**GW Climate Due: Thursday, Nov. 4th 11:59pm**

**Lab:**

**Climate Change** **Due: Monday, Nov. 8th 11:59pm**

**Ch. 10 Air Pollution**

**GW Air Due: Thursday, Nov. 11th 11:59pm**

**Lab:**

**Air Pollution** **Due: Monday, Nov. 15th 11:59pm**

**Lecture Quiz 3: Covers Ch. 11, 9, and 10. Due: Tuesday, Nov. 18th 11:59pm**

**HW 3 Due: Saturday, Nov. 20th 11:59pm**

**Ch. 13 Energy**

**Lab:**

**Energy Due: Monday, Nov. 22nd 11:59pm**

**Ch. 15 Economics & Urbanization**

**Lab:**

**Urbanization Due: Monday, Nov. 29th 11:59pm**

**Future Discussion Due: Thursday, Dec. 2nd 11:59pm**

**Required Quiz Due: Thursday, Dec. 2nd 11:59pm**

**Lecture Exam 3**

***Open: Saturday, Dec. 4th 12:00am***

***Closes: Sunday, Dec. 5th 11:59pm***

**Extra Credit Due: Sunday, Dec. 5th 11:59pm**

**Finals**

**Final Lecture Exam**

***Open: Tuesday, Dec. 7th 12:00am***

***Closes: Wednesday, Dec 8th 11:59pm***