

 FLORIDA ATLANTIC UNIVERSITY	COURSE CHANGE REQUEST Undergraduate Programs	UUPC Approval <u>2/26/24</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Geosciences College Science	
Current Course Prefix and Number ESC 2000	Current Course Title The Blue Planet	
<i>Syllabus must be attached for ANY changes to current course details. See <u>Template</u>. Please consult and list departments that may be affected by the changes; attach documentation.</i>		
Change title to: Change prefix From: _____ To: _____ Change course number From: _____ To: _____ Change credits* From: _____ To: _____ Change grading From: _____ To: _____ Change WAC/Gordon Rule status** Add <input type="checkbox"/> Remove <input type="checkbox"/> Change General Education Requirements*** Add <input type="checkbox"/> Remove <input type="checkbox"/> <small>*See <u>Definition of a Credit Hour</u>.</small> <small>**WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to this form. See <u>WAC Guidelines</u>.</small> <small>***GE criteria must be indicated in syllabus and approval attached to this form. See <u>Intellectual Foundations Guidelines</u>.</small>	Change description to: Using the scientific method, critical thinking skills, and data analysis, this course will examine the fundamental processes of the Earth system, composed of an atmosphere, hydrosphere, lithosphere, biosphere, and exosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize Earth's connections with humans. Change prerequisites/minimum grade to: Change corequisites to: Change registration controls to: Please list existing and new pre/corequisites, specify AND or OR and include minimum passing grade (default is D-).	
Effective Term/Year for Changes: Fall 2024	Terminate course Effective Term/Year for Termination:	
Faculty Contact/Email/Phone Tobin Hindle / thindle@fau.edu / 7-2846		
Approved by Department Chair _____ College Curriculum Chair _____ College Dean _____ UUPC Chair _____ Undergraduate Studies Dean _____ UFS President _____ Provost _____	Date _____ _____ _____ _____ _____ _____	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.



FLORIDA ATLANTIC UNIVERSITY

ESC 2000-E01 16575

The Blue Planet

3 Credit(s)

Spring 2024 - 1 Full Term

Instructor Information

Professor: xxxxxxxx

Email: xxxxxxxx

Office: xxxxxxxx

Office hours: xxxxxxxx

TA name	xxxxxx xxxxxxxx
Office	xxxxxx
Office hours	MWF xx:xx – xx:xx
Telephone	561-297-xxxx
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Course Description

Using the scientific method, critical thinking skills, and data analysis, this course will examine the fundamental processes of the Earth system, composed of an atmosphere, hydrosphere, lithosphere, biosphere, and exosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize Earth's connections with humans.

Instructional Method

Fully Online Class

100% of the course is delivered online.

Required Texts/Materials

Blue Planet

ISBN: 9780471236436

Publisher: John Wiley & Sons, Incorporated

Edition: 3rd

Course Objectives/Student Learning Outcomes

- Students will use critical thinking to recognize the rigorous standards of scientific theories.
- Students will analyze and synthesize Earth science data to draw scientifically valid conclusions.
- Students will recognize the different time scales associated with different Earth processes.
- Students will effectively communicate the importance of the interactions between humans and the Earth's spheres.
- Students will apply their understanding of these Earth science principles to complex global and local issues.

Faculty Rights and Responsibilities

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise. To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the Student Code of Conduct [University Regulation 4.007](#).

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Course Evaluation Method

You are responsible for completing the graded online Canvas Assessments, Google Earth Pro Investigations and Class Discussions during the times they are available. The due dates can be found in the Syllabus Schedule, in the CANVAS weekly Announcements and CANVAS Course Calendar.

Each week, an announcement will be posted on CANVAS detailing the specific assignments for that week. In general, you should first **read the chapters** for the week, then **listen to the corresponding lecture**, **explore/view any supplemental material**, then complete the assigned **Assessments, Class Discussions**, and the **Google Earth Pro Investigation**. A table outlining the class schedule is available in the Syllabus provided on FAU's CANVAS site. Please note that the assignment deadlines listed in the schedule are subject to changes that will be announced using CANVAS. **Students are responsible for reading these Announcements on a weekly basis.**

- **Canvas Assessments:** After reading each chapter topic, viewing the corresponding lecture and exploring/viewing the topic activities/videos you must complete a graded Assessment. Each Assessment can be taken up to three times, with your final score being the average of all attempts.
- **Google Earth Pro Investigations:** Each investigation utilizes one or more scientific data sets to explore and analyze a particular aspect of the Earth system.

Within the context of a case study, these investigations guide students through a step-by-step process in which they access data and use analysis tools to explore real issues and questions in Earth system science. In completing an investigation, students analyze maps, graphs, images or other data products. The ultimate goal of each investigation is to build students skills and confidence in conducting their own scientific research of the Earth system. Investigations can be taken up to three times, with your final score being the average of all attempts.

- **Class Discussions:** For each Module, students must post discussion questions of their own and answers to other students' questions in the Class Discussion forum in Canvas. See scoring rubric in Canvas for how posts are graded.
- **Final Exam:** Feature length video "The 11th Hour" with Assessment **The course final grade is composed of the following components:**

Syllabus confirmation	Completion Required
Canvas Assessments	40%
Google Earth Pro Investigations	40%
Class Discussions	15%
Final Exam	5%
Total	100%

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Attendance Policy Statement

Students are expected to attend all their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of nonattendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations, or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances, and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Students are expected to access the course at least three times per week to ensure you do not miss pertinent postings, messages, or announcements. It is imperative that you meet course deadlines and stay active in discussion boards, group projects, etc. If you are experiencing major illnesses, absences due to university duties, or other large-scale issues, contact the instructor immediately to formulate a resolution (if possible). Electronic mail is a critical communication tool in an online course! Please note that this course conforms to the FAU student email policy. All course-related email will be sent to your FAU email account. All students must regularly (at least three times weekly) access their FAU email accounts, Except for Saturdays, Sundays, and holidays, the Instructor or TA typically will respond to messages within 48 hours.

Religious Accommodation Policy Statement

In accordance with the rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs regarding admissions, registration, class attendance, and the scheduling of examinations and work assignments. University Regulation 2.007, Religious Observances, sets forth this policy for FAU and may be accessed on the FAU website at www.fau.edu/regulations.

Any student who feels aggrieved regarding religious accommodations may present a grievance to the executive director of The Office of Civil Rights and Title IX. Any such grievances will follow Florida Atlantic University's established grievance procedure regarding alleged discrimination.

Time Commitment Per Credit Hour

For traditionally delivered courses, not less than one (1) hour of classroom or direct faculty instruction each week for fifteen (15) weeks per Fall or Spring semester, and a minimum of two (2) hours of out-of-class student work for each credit hour. Equivalent time and effort are required for Summer Semesters, which usually have a shortened timeframe. Fully Online courses, hybrid, shortened, intensive format courses, and other non-traditional modes of delivery will demonstrate equivalent time and effort.

Course Grading Scale

Letter Grade	Letter Grade
A	94 - 100%
A-	90 - 93%
B+	87 - 89%

Letter Grade	Letter Grade
B	83 - 86%
B-	80 - 82%
C+	77 - 79%
C	73 - 76%
C-	70 - 72%
D+	67 - 69%
D	63 - 66%
D-	60 - 62%
F	Below 60

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[University Regulation 4.002](#) of the University Regulations contains information on the grade appeals process

Policy on Make-up Tests, Late work, and Incompletes

Because a generous block of time is provided for completing all assignments, it is the student's responsibility to ensure that they are completed PRIOR to the due date. Makeups with written documentation of a medical or family emergency must be requested as soon as feasible. If you miss an assignment for unexcused reasons, you lose credit for it unless you contact the instructor within two days of the due date. Late work may be granted with a 5% deduction per day late penalty at the discretion of the instructor. If you know that you can't submit an assignment beforehand, be sure to contact the instructor to see if it can be administered at a

different time or date. Additionally, since it is always possible to have a computer issue at any time, students should avoid waiting until the last minute to complete homework and tests.

Special Course Requirements

Google Earth Pro Investigations require the use of Google Earth Pro desktop software. **Google Earth Pro on desktop is free for users and is available for PC, Mac, or Linux operating systems.**

<https://www.google.com/earth/versions/>. Note that Google Earth Pro on desktop is **NOT** compatible with Chromebooks, Android, or iOS devices.

Policy on the Recording of Lectures

Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Student Support Services and Online Resources

- [Center for Learning and Student Success \(CLASS\)](#)
- [Counseling and Psychological Services \(CAPS\)](#)
- [FAU Libraries](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Center for Global Engagement](#)
- [Office of Undergraduate Research and Inquiry \(OURI\)](#)
- [Science Learning Center](#)
- [Speaking Center](#)
- [Student Accessibility Services](#)
- [Student Athlete Success Center \(SASC\)](#)
- [Testing and Certification](#)
- [Test Preparation](#)
- [University Academic Advising Services](#)
- [University Center for Excellence in Writing \(UCEW\)](#)
- [Writing Across the Curriculum \(WAC\)](#)

Course Topical Outline

	ESC 2000 Schedule
Week	Topics / Assignments
1	Getting Started with The Blue Planet Chapter 1: The Earth System
2	Chapter 2: Energy Chapter 3: Matter
3	Chapter 4: Space and Time Google Earth Investigation 1

4	Chapter 5: The Tectonic Cycle Chapter 6: Earthquakes and Volcanoes
5	Chapter 7: The Rock Cycle Google Earth Investigation 2
6	Chapter 8: The Hydrologic Cycle Chapter 9: The Cryosphere
7	Chapter 10: The World Ocean Google Earth Investigation 3
8	Chapter 11: Atmosphere Chapter 12: Wind and Water Systems
9	Chapter 13: The Climate system Google Earth Investigation 4
10	Chapter 14: Life, Death and Evolution Chapter 15: Ecosystems, Biomes and Cycles of Life
11	Chapter 16: Populations, Communities and Change Google Earth Investigation 5
12	Chapter 17: The Resource Cycle Chapter 18: Mineral and Energy Resources
13	Chapter 19: The Changing Earth System Google Earth Investigation 6
14	Final Exam: The 11th Hour (Movie + Assessment)

Science and Natural World Syllabus Description

Intellectual Foundation (General Education) Program Outcomes.

Scientific principles are behind what we find in nature and in natural occurrences. Scientific issues, such as those dealing with stem-cell research, cloning and global warming, are hotly debated by policy makers. Courses that meet this requirement share the goal of seeking to understand patterns and principles behind phenomena and occurrences, both in the inorganic world and in the living world. They typically fall within either the physical sciences (astronomy, physics, chemistry, and the earth sciences) or the biological sciences.

Students who satisfy the Science and the Natural World requirement will be able to:

- Explain important scientific concepts, principles, and paradigms.
- Explain how principles of scientific inquiry and ethical standards are used to develop and investigate research questions.
- Explain the limits of scientific knowledge and of how scientific knowledge changes.
- Critically evaluate scientific claims, arguments, and methodology.

After completion of the associated lab, the student will be able to:

- Demonstrate and explain how experiments are conducted.
- Analyze resulting data and draw appropriate conclusions from such data.