



College of Coastal Georgia
ISCI 2001 Integrated Science – Life / Earth Science
Spring Semester 2018

CRN: 20205

Days: Tuesday, Thursday

Time: 3:30-5:20 pm

Room: ACS 201

INSTRUCTOR INFORMATION

Instructor: Prof. James Deemy

Title: Visiting Professor of Environmental Science

Office: Correll 212M

Office Hours: 1:30-3:30 Mondays and by appointment

E-mail: jdeemy@ccga.edu, or through D2L platform

Response Time: 24 hours M-F, 48 hours on weekends, if no response after 24 hours, send the email again

Preferred Method of Contact: *E-mail*. Aside from weekends, I will respond to your e-mail within 24 hours. Note: for more prompt responses E-mail me during business hours (8 am – 6 pm).

Appointments: I am very happy to meet with you outside of office hours, but this requires an appointment. Please schedule appointments via E-mail or with in person before or after class.

Course Description :

ISCI Life / Earth Science

2 class hours, 2 laboratory hours

3 Credits

Prerequisites: Completion of Area A math requirement and both Area D science requirements.

This is an activity-based and inquiry-based Area F content course for early childhood education majors. This course will emphasize the characteristics of life, biodiversity/heredity, energy flow, the interdependence of life, the cell, earth systems, and the lithosphere, hydrosphere, and biosphere. These topics are in direct correlation with the Georgia Performance Standards (GPS) for K-5.

Learning Outcomes:

Life Science Component:

General Learning Outcomes:

A student who completes this course successfully will be able to demonstrate knowledge and understanding of

Life and its fundamental properties.
 Biodiversity and heredity.
 Cellular respiration, photosynthesis, and energy flow in ecosystems.
 The interdependence of organisms and the basic principles of population dynamics.
 The cell as a functional unit.

Earth Science Component:

General Learning Outcomes:

A student who completes this course successfully will be able to demonstrate knowledge and understanding of

The general attributes of the known universe and its visible constituents.

The similarity and differences of the main objects that constitute the solar system.

The position of the Earth within the solar system and their relationship of its motions of celestial bodies.

The Earth's component systems and how they interact to make up home for humankind.

What powers the external and internal processes that influence the evolution and the distribution Earth's landscapes.

Text and Other Required Materials

Text: *Conceptual Integrated Science, 2nd Edition*, by Hewitt, Lyons, Suchocki & Yeh

Using the textbook is a critical aspect of this course and is absolutely mandatory for success in this course.

Lab Manual: *Laboratory Manual to Accompany Conceptual Integrated Science, 2nd Edition*, by Dean Baird

Using the lab manual is a critical aspect of this course and is absolutely mandatory for success in this course.

D2L: I frequently post assignments, events, and resources on D2L. Check D2L daily for updates and explore the site for new resources each week.

Using D2L is a critical aspect of this course and is absolutely mandatory for success this course.

Classroom Policy:

Instruction: Lectures, group discussions, power-point presentations, written and or oral assignments, laboratory assignments, videos, slides and tutorials will comprise the majority of class time. Supplemental handouts, special reading assignments will be assigned as appropriate.

Exams: Exams 1 - 5 will consist of multiple choice and/or short answer questions. **Anything in lecture, assignments or assigned readings is a potential exam question.** Exams cannot be made up, except in certain circumstances as determined by the instructor on a case-by-case basis (e.g. college-sponsored activities, extreme illness with doctor's note).

Dates for examinations, quizzes or other graded assignments are scheduled in the course outline as well as the D2L calendar and students should be prepared as scheduled unless they are notified of any changes by their instructor. Students who miss an examination in the event of illness or emergency must contact the instructor **before or on the day of the scheduled exam**. Make-up or early exams are permitted only at the discretion of the instructor. If an excuse is deemed valid by the instructor and supporting documentation is provided, a make-up exam may be scheduled. ***Any assignments, exams or quizzes must be made up before the last day of classes. Work not completed at that point will receive a grade of "0"***. Note that make-up exams may differ significantly in the format from the regular exam and consist primarily of essay questions.

Students with Disabilities: As required by the Americans with Disabilities Act, appropriate accommodations will be provided to ensure equal opportunity for students with documented disabilities. If you have a disability that requires accommodations, contact Student Disability Services at 279-5800 (2nd Floor Student Center).

Withdrawal Policy: *Any student who is considering withdrawing from a class must see the instructor and advisor prior to withdrawal.* The process of withdrawing involves filling out a drop form with your advisor, obtaining the signatures of both instructor and advisor, and processing the form through the Registrar's Office prior to the last drop date. *Failure to do this will result in an "F" for the course.* For more information, consult the *CCGA College Catalog*.

Laboratory Policy:

Lab Participation: Participation in laboratory exercises is expected, in the same way attendance is expected for class. The instructor has the right to subjectively allocate or deduct points on lab assignments on the basis of timely attendance, completing laboratory activities and utilizing time, as well as active engagement as demonstrated by asking questions, and interacting with class peers, etc.

Lab Exams: Four laboratory exams are scheduled during the semester. Details about these exams will be provided at a later date. For an excused absence (as noted in exams) the instructor will provide a special assignment for the student to complete.

Lab Exercises/assignments: Weekly lab exercise assignments are due at the end of each laboratory period. Details of the assignment will vary with the exercise and will be described by the instructor for the given lab exercise.

Method of Evaluation:

Weighting of the Components of the Course:

Exams	(4 @ 100 pts each) =	400 points
Integrate Labs		100 points
Life Sciences Teaching Portfolio (Final Exam)		100 points
Life Sciences Teaching Philosophy		50 points
Lab Exams	(2 @ 50 pts each) =	100 points
Labs		200 points
	Total:	1000 points

Grading Scale (based on points earned)

A = 900-1000 points (90-100%)
 B = 800-899 points (80-89%)
 C = 700-799 points (70-79%)
 D = 600-699 points (60-69%)
 F = 599 points or below (59% or below)

InTeGrate Modules

At the end of the semester students will work through several modules created by the InTeGrate Program. These modules will guide students through comparing scientific process among disciplines, applying geoscientific thinking, and developing curriculum appropriate lessons from available online materials. Find descriptions and materials for the Exploring Geoscience Methods InTeGrate Module on D2L. These materials will serve to provide a capstone learning experiences for the semester and all products produced will be eligible for inclusion as parts of the teaching portfolio assignment (with approval).

Other Pertinent Information:

Expectations Concerning ISCI 2001 Class:

- It is each student's responsibility to be prepared for class.
- Proper class decorum is expected with a minimum of interruptions. A class environment conducive to active learning and participation is expected and encouraged.
- Students are expected to follow the guidelines for academic honesty as described under "Academic Responsibilities" in the CCGA *Student Handbook*. Infractions will result in a student receiving a zero for the quiz, assignment, lab component, or test involved as well as a referral to the appropriate CCGA student office.

Student handbook Policies:

E-mail communication:

All students are provided with an e-mail account. This account is created 24 hours after students register for classes the first time. There is no charge for this service. Electronic mail is used heavily on campus for communicating all kinds of information. To find out your e-mail address, access your personal information by logging into <http://www.eega.edu/studres/home.html> clicking on the link to COAST and click on "Student Information" and you will see the link related to e-mail information.

At the College of Coastal Georgia, e-mail is an OFFICIAL means of correspondence between the College and its students. The College of Coastal Georgia e-mail messages with official College announcements are transmitted to students using their College of Coastal Georgia e-mail addresses. You must check your College of Coastal Georgia e-mail regularly or make sure it is forwarded to an active private e-mail account that you use.

Division of Mathematics, Science, and Physical Education
Class Attendance Policy

The Division of Mathematics, Science, and Physical Education (DMSPE) recognizes the importance of class attendance for success in college courses. The emphasis on class attendance may vary with the instructor, the course and the method of instruction being used.

The DMSPE attendance policy is as follows:

- *Class attendance is a student responsibility.*
- *Class attendance is strongly encouraged. The DMSPE will support any instructor who chooses to include a statement concerning absences and/or tardiness in his/her syllabus.*
- *DMSPE instructors can give an "F" to a student who, for any reason, is counted absent from 25% or more of the regularly scheduled class hours of a course.*
- *DMSPE instructors can use absences and tardiness as factors when calculating the final grade.*

The attendance policy for each course must be distributed in writing by the instructor at the beginning of each semester. The announcement will include a statement concerning academic penalties that may result from excessive absences or tardiness.

CHILDREN ON CAMPUS POLICY

It is the goal of College of Coastal Georgia (CCGA) to provide a safe and effective learning environment for all students. Any action, which interferes with this goal, will not be permitted. Children must not be left unattended at any time on campus. If an emergency arises which requires a student to bring an underage child (defined as any child under the age of sixteen who is not a CCGA student enrolled in a credit course) to campus, the child must be under the direct supervision of an adult at all times. Parents or guardians of children considered disruptive or unsupervised will be asked to remove the children from the campus immediately.

Bringing children to the classroom is not permissible under most circumstances. However, if an emergency arises which necessitates bringing a child to class the student must receive the prior consent of the faculty member involved. Children who are ill may not be brought to class regardless of the circumstances. Due to the nature of the equipment, the subject matter involved, and the level of supervision necessary, underage children will not be allowed in college laboratories or in the Learning Center at any time and/or under any circumstances.

Similarly, College of Coastal Georgia must provide an effective working environment. Therefore, children of employees should not be brought to campus. If an emergency arises which requires an employee to bring a child to campus, it must be with the consent of the faculty/staff member's immediate supervisor. The faculty member or staff member whose child(ren) is (are) considered disruptive or unsupervised will be asked to remove the child immediately.

Children enrolled in non-credit classes must be under the direct supervision of an adult at all times. Likewise, children attending campus events must be supervised at all times. Any child under the age of 16 must be under the direct supervision of his/her parent, legal guardian, or other responsible adult when in the college library unless the child is part of a class AND the supervising teacher or paraprofessional is present.

Policy on Cell Phones and Other Personal Electronic Devices: *All such devices must be turned off and put away during ALL class and laboratory periods.*

The carrying and use of cell phones, pagers, and other personal electronic devices are allowed on the College of Coastal Georgia Brunswick and Camden Center. Users of these devices, however, must be attentive to the needs, sensibilities, and rights of other members of the College community. Furthermore, the use of these devices must not disrupt the functions of the College overall and its classrooms and laboratories. Students participating in off-campus course related activities must follow the electronic devices policies of the agency or organization where they are visiting or working.

Cell phones, pagers, and other personal electronic devices must be off and out of sight in classrooms, laboratories, the library, study spaces, and other academic settings and during such events as plays, concerts, lectures, and College ceremonies. The term "laboratories" includes computer laboratories. These electronic devices may be turned on and set on silent mode only with the expressed consent of the instructor. In addition, cell phones and other personal electronic devices incorporating a camera must be turned off and out of sight in any area in which an individual has a reasonable expectation of privacy such as restrooms, locker rooms, showers and other locations.

Beyond the basic College policy stated herein, faculty members, at their discretion, also may have strict individual policies related to cell phones, pagers, and other personal electronic devices outlined in their syllabi in order to provide and maintain a classroom environment that is conducive to learning and the respect of others. These policies may include penalties for violation. If cell phones, pagers, calculators, recorders, digital cameras, PDA's, MP3 players or other personal electronic devices are used inappropriately for the purposes of cheating or academic dishonesty, then students who do so will be penalized appropriately under the Academic Honesty policy of College of Coastal Georgia.

ISCI 2001: COURSE OUTLINE: SPRING SEMESTER 2017
Lecture and Laboratory outlines are tentative and subject to change.

Week	Lecture/Discussion	Chapter	Laboratory Exercises
1/22	Basic Unit of Life – The Cell	15	Lab Safety Eye on the Tiny/ Are You In or Out? (pp. 185 - 193)
1/29	Genetics	16	DNA/Real Life Inheritance (pp 205 – 206, 219 - 222)
2/5	Evolution of Life	17	Understanding Darwin (p. 227)
2/12	Diversity of Life on Earth	18	What Is It? Bacterium Protist, Fungi? (pp. 235 – 236)
2/19	EXAM 1: Ch. 15, 16, 17 Human Biology I – Control and Development	19	The Amazing Senses (pp. 239 – 244)
2/26	Human Biology II – Care and Maintenance	20	Muscles and Bones (pp. 247 – 249)
3/5	EXAM 2: Ch. 18, 19, 20		LAB EXAM 1 Keep Pumping (pp. 255 – 258)
3/12	SPRING BREAK: Assignment TBD		Assignment: TBD
3/19	Ecology	21	Ecological Footprints (pp. 261 – 262) Identifying Minerals (pp. 275 – 279)
3/26	Plate Tectonics Rocks and Minerals	22, 23	What is that Rock? (pp 285 – 289)
4/2	Earth's Surface: Land and Water Surface Processes	24, 25	Soil and Water (pp. 299 – 301)
4/9	Weather Environmental Geology	26, 27	Hot Spot Volcanoes (pp. 319 – 321)
4/16	EXAM 3: Ch. 21, 22, 23, 24, 25, 26 The Solar System	28	InTeGrate Unit 1
4/23	The Universe	29	InTeGrate Unit 2
4/30	EXAM 4: Ch. 27, 28,29 LAB EXAM 2		InTeGrate Unit 3
4/30 – 5/7	Final Exams		