



The mission of Concord University is to provide quality, liberal arts based education, to foster scholarly and creative activities and to serve the regional community (<http://www.concord.edu/academics/>).

Course Prefix, Number and Title: PHSC 104 – Concepts in Physical Science: Earth and Space Sciences

Course CRN # and Section: 20265 (lecture), 20266 and 20267 (lab), Section 01

Semester Taught (including year): Spring 2019

Professor: Jennifer Phillippe

Credit Hours: 4

Office Location: SCI 402B

Prerequisites: none

**Office Hours: W 9-11, 1-3 & R 11-1 (Beckley) M 6-7pm & W 6-7pm
Or by appointment**

**Course Time (if applicable): 9:30 – 10:45 TR (lecture)
11:00 – 12:50 T or 2:00 – 3:50 T (lab)**

Email: jphillippe@concord.edu

Building and Room Number (if applicable): SCI 400 (lecture) or SCI 301 (lab)

Phone: 304-384-5157

Office Fax: 304-384-6022

**College/Department Website
<http://www.concord.edu/physci/>**

Course Description/Rationale: This course is primarily intended for Elementary Education majors, but is also offered as a general studies lab science. A primary goal of this course is to explore topics covered in the Next Generation Science Standards for Grades K-8 for Earth and Space Sciences (www.nextgenscience.org). Other course goals include the development of critical thinking skills to investigate the nature of scientific inquiry and the development of lab-based skills related to geologic observation and description. Topics include: common minerals and rocks; plate tectonics; geologic hazards and processes; the earth's oceans and atmosphere; and the formation of the universe and the solar system, including planets and stars.

Course Management System (Blackboard/Moodle or other systems): Moodle

Hardware/Software Needed (include privacy policies, if applicable): none

Text requirements: Foundations of Earth Science, 7th ed., by Lutgens, et al and Applications and Investigations in Earth Science, 9th ed., by Tarbuck, et al. *You must have hardcopy of lab manual.*

Concord University Educational Goal(s) The educational programs of Concord University are designed to foster skills, knowledge, and attitudes. As a general education course, PHSC 104 directly addresses and assesses the following educational goals: Skills (1.2), An ability to employ observational, logical, analytical, and critical thinking skills to problem solving; and Knowledge (2.2), An awareness of the fundamental characteristics and properties of the physical universe.

National Standards: None

Specific Learning Outcomes:

Be able to communicate complex scientific concepts for a variety of audiences.

Course Requirements

Regularly attend class, take detailed notes, read and study a college-level textbook, and complete college-level laboratory work and homework assignments. This class uses Moodle activities to supplement in class activities and lecture. It is important to your learning that you complete online activities. Completing them on time is also important to your grade!

Instruction in this course will include online activities supplemented by discussions, case studies, and miscellaneous activities/assignments that require critical thought and analysis. Some will be homework assignments, including problem sets and exercises requiring access to the internet (e.g., use of Google Earth, Moodle, etc.). Lab work emphasizes observation, description, and deduction. Writing is required throughout the course.

Miscellaneous Assignments and Quizzes: Numerous short, exercises, quizzes, and/or homework problems will be assigned throughout the semester (generally 1 to 3 per week). Please note that the lowest grade in this category are dropped. Short quizzes on Moodle will also be scheduled most weeks. The Moodle quizzes are open book with unlimited time, so be sure to complete them before they close because I will not reopen them. The Moodle quizzes are generally worth 10 pts. Most other assignments will be graded on a 5-point scale as follows: 5 pts. -Excellent; 4 pts. -Mostly correct; 3 pts. -Could use some additional support for answers; <3 pts. Significant improvement required – see instructor for help!

Exams: It is impossible to learn earth and space science by reading the book the night before each exam. There is just too much specialized vocabulary. It is highly recommended that you follow a regular study and reading schedule to keep up with the material. As a general guideline, you should be completing 2-3 hours of homework and reading for each hour of instruction in class. You must have a good knowledge of specialized vocabulary terms to understand, solve, and answer exam questions. Exams will be a combination of multiple choice and short answer questions.

Attendance: Attendance is required for the laboratory and recommended for lecture. You must receive a passing grade (60%) in lab in order to pass the class. Your lowest lab grade for the semester will be dropped; however, if you aren't in lab or lecture you will be missing important instruction that may be key to assignments or exams.

"Success is an accident. Showing up, even if it's just for 5 minutes, makes us accident-prone." ~ Paul Budnitz

Email: You are welcome to contact me through email or the Moodle forum. However, if it is through email, please include PHSC 104 as part of the subject line so that I don't miss the message. Please write your questions using complete sentences with capital letters and punctuation. Please use your university email account so that messages do not end up caught in the spam filter.

Internet Requirements and Moodle site: I will be using Moodle to offer lecture slides (from previous classes – these should help you focus on important points in the text), notes, assignments, and other items of interest. You will also submit the majority of your assignments through Moodle. Your MyCU login will grant you access to the site. As a general rule, you should check Moodle **every day**.

Technology in Class: Use of headphones/ear buds, cell phones, and other electronic devices, other than a calculator or tablet/laptop is prohibited. If you are using a laptop or tablet computer during class, it should be for class not facebooking, texting, tweeting, surfing, etc. You will be asked to stop on the first offense and continued use will result in being asked to leave the class room. Photography and internet usage is strictly forbidden during exams. If you are found violating this restriction during an exam, you will be removed from the exam, assigned a zero, and face charges of academic dishonesty (see below).

Grading Policy and Scale, Make-up Policy, Late Work

Final course grades will be weighted as follows:

Lab (equal weight per lab; lowest grade dropped)	30%
Misc. Assignments and quizzes (lowest grade dropped)	30%
Regular exams (4 @ 5% each)	20%
Final Exam (comprehensive)	<u>20%</u>
	100%

Your final course grade will be determined by your total average score at the end of the course:

A	90-100%	Indicates superior performance and thorough understanding of class material
B	80-89%	Indicates good performance and above average understanding of class material
C	70-79%	Indicates average performance and an adequate understanding of class material
D	60-69%	Indicates below average performance or incomplete understanding of class material
F	<60%	Inadequate performance

Make-up Policy: You must be present for each exam or lab. Make-up exams and labs are highly discouraged and will be considered for approval only with appropriate pre-notification. Approved make-up exams will be different than the original, and must be completed within 48 hours of the originally scheduled exam. Make-up exams will only be considered in the case of a written medical emergency or a preapproved University activity. Most labs require materials and instruction that will only be present only during scheduled lab hours. There are no makeup labs and you must be present in lab to turn in your lab. No late labs will be accepted. Your lowest lab grade is dropped so if you are ill or absolutely must miss one lab week, the zero will be your dropped grade and not included in final grade calculations.

Late Assignment Policy: Late work will not be accepted. Internet outages will not be accepted as an excuse for late work and I will not reopen Moodle quizzes, so please don't ask. Plan ahead. The lowest lab grade and the lowest quiz/miscellaneous assignment grades are dropped – use these wisely since you never know when you might need a sick day.

Course Timeline (Schedule of Assignments/Assessments/Presentations)

Day	Reading	Lecture Topics	Lab Topics	Exams/Projects
Jan 14 th Week #1	Intro and online readings	Scientific Method	Conversions & Measurements	
Jan 21 st Week #2	Ch 1	Matter and Minerals	Mineral Identification	
Jan 28 th Week #3	Ch 2	Rocks and Solid Earth Materials	Rock Identification	Mineral Commercial
Feb 4 th Week #4	Ch 8	Geologic Time	Geologic Time	Exam #1 (Ch 1, 2, 8, & Scientific Method)
Feb 11 th Week #5	Ch 5	Plate Tectonics	Plate Tectonics	
Feb 18 th Week #6	Ch 6	Earthquakes	Earthquakes	
Feb 25 th Week #7	Ch 7	Volcanoes	Volcanoes	Exam #2 (Ch 5, 6, & 7)
Mar 4 th Week #8	Ch 3	Surface Water and Groundwater	Groundwater	My Favorite Volcano
Mar 11 th Week #9	Spring Break			
Mar 18 th Week #10	Ch 9 & Ch 10	Oceans	Intro to Oceanography	
Mar 25 th Week #11	Ch 11	Atmosphere	Waves, Currents, and Tides	Exam #3 (Ch 3, 9, & 10)
Apr 1 st Week #12	Ch 12	Winds	Earth/Sun Relationship/ Heating the Atmosphere	
Apr 8 th Week #13	Ch13	Clouds and Precipitation	Atmospheric Moisture, Pressure, and Wind	
Apr 15 th Week #14	Ch14	Air Masses and Severe Weather	Air Masses	Exam #4 (Ch 11, 12, 13, & 14)
Apr 22 nd Week #15	Ch 15	Formation of the Solar System/Planets	Patterns in the Solar System/Motions of the Earth-Moon System	
Apr 29 th Week #16	Ch 16	Other Stars and Galaxies	Presentations	Choose Your Topic
May 9 th	Comprehensive FINAL EXAM at 9 am			



Accessibility/Accommodations:

Concord University is committed to responding to the needs of students with disabilities as defined by the Americans with Disabilities Act. Please inform your instructor at the beginning of the class semester if you have a disability and are requesting accommodations. It is your responsibility to self-disclose that you are requesting accommodations. The University and instructor will provide you with a reasonable accommodation. You should register with CU's Disability Services Office, located in the Athens campus Jerry and Jean Beasley Student Center, Bottom Floor, across from the Campus Post Office. The Disability Services Office phone is 304-384-6086 or you can email the Director, Nancy Ellison, at nellison@concord.edu for assistance.

Academic Dishonesty

Academic dishonesty is morally unacceptable as well as destructive to the learning and teaching atmosphere. Academic dishonesty includes the giving or receiving of improper help on examinations or assignments, falsifying documents, and plagiarism (the act of stealing and using, as one's own, the ideas or the expression of the ideas of another). Such dishonesty can lead to a variety of penalties — including but not limited to failure of assignment, failure of course, loss of institutional privileges, or dismissal from the University. (See University Catalog Academic Policies and Procedures.)

Concord University Honor Code

A Concord University Honor Code was approved by students, staff, faculty, administration, and the CU Board of Governors. The Code states:

"As a member of the Concord University Community I will act with honesty and integrity in accordance with our fundamental principles and I will respect myself and others while challenging them to do the same."

The Honor Code is intended to unite the Concord community behind a culture of honesty, integrity, and civility.

Class/Online Attendance Policy

Regular class attendance is part of a student's academic obligation at Concord. Irregular attendance may affect academic performance adversely and is detrimental to the atmosphere of a class. (See University Catalog Academic Policies and Procedures.)

Emergency Alert System

In an effort to increase safety and security on our campus, Concord University encourages everyone to register for instant text message alerts. Alerts will only be used for security and safety notices. All students, faculty, and staff are eligible to receive text message alerts on their cell phones or email alerts. Please contact the IT Help Desk for further assistance (304-384-5291).

Emergency Information

Emergency/courtesy telephones are located at the main entrance of each residence hall and at various other locations on campus. Emergency telephones can be identified by the flashing blue light and will provide the user with a direct link to Public Safety at the press of a button. To report an on-campus emergency, call 304-384-5357 or 911. The Office of Public Safety is located on the bottom floor of the

Rahall Technology Center. For further emergency information go to:
<http://www.concord.edu/administration/office-public-safety>.

Inclement Weather Policy

As a general policy, the University will remain in normal operations during adverse weather conditions. In the event of severe weather conditions, the following may occur:

University Closure

No students or employees are to report.

Classes Cancelled

Students do NOT report BUT employees are expected to report to work at their normal time.

Operating on an Inclement Weather Delay

Under this schedule, all 8 a.m. classes will start at 10 a.m. Students and faculty will follow the Inclement Weather Schedule. (See <http://www.concord.edu/emergency-alerts> for Athens/Beckley Inclement Weather Schedules.)

**Announcements invoking the late schedule or other options referenced above are aired on area radio and television stations and are sent as text and email messages to those enrolled for this service.*

Student Conduct

In classrooms, online, laboratories, and during any activities that are part of course requirements, students are expected to observe reasonable rules of conduct.

Sexual Harassment & Assault

Federal law, Title IX, and Concord University policy prohibits discrimination, harassment, and violence based on sex and gender (Including sexual harassment, sexual assault, domestic/dating violence, stalking, sexual exploitation, and retaliation). If you or someone you know has been harassed or assaulted, you can receive confidential counseling support through the Concord University Counseling Center (304-384-5290). Alleged Violations can be reported non-confidentially to the Concord University Title IX Coordinator at 304-384-6327 or titleix@concord.edu. Reports to Campus Security can be made at (304-384-5357). As an employee at Concord University, I am a mandatory reporter which means I must report any sexual misconduct I am made aware of. This includes verbal or written (such as in an assignment) disclosures of sexual harassment or sexual assault.

Technology Services

Contact the CU Help Desk at extension 5291 from campus or 304-384-5291 off campus. You may also e-mail cuhelpdesk@concord.edu.

Syllabus Disclaimer

"This syllabus is subject to change based on the needs of the class. Please check it regularly."