



**ADDITIONAL  
LEVEL I COURSES  
APPLICATION FORM**

To apply for additional Level I courses, please complete the following information and submit this form and the course syllabus to [CCP@highered.ohio.gov](mailto:CCP@highered.ohio.gov).

College or University:

Contact Name & Title:

Phone Number:

Email Address:

Course Name:

Please provide a description of how having access to this particular course would benefit College Credit Plus students as a Level I course (250 word maximum). Please include information about the requirements this course could meet for students (such as potential high school graduation, in-demand career pathway or degree requirements) and other Level I course offerings at the college in this subject area that would meet similar requirements as this course.

Is this course eligible to be designated as an OTM, TAG or CTAG course?

- Yes** If yes, describe below why the college is not pursuing an OTM, TAG or CTAG
- No** designation for the course.

Email this application along with the course syllabus and letter of support to [CCP@highered.ohio.gov](mailto:CCP@highered.ohio.gov).



Department of  
Higher Education

# OHIO CHRISTIAN UNIVERSITY

October 30, 2020

Randy Gardner  
Chancellor  
Ohio Department of Education  
25 South Front Street  
Columbus, OH 43215

Dear Chancellor,

I am writing in support of the adoption of PHS 2010 Principles of Physical Science as part of Ohio Christian University Model 30-credit hour Pathway, under Ohio Administrative Code 3333-1-65.12 (B)(3)(d).

Each Ohio Christian University course begins as a proposal that is created and reviewed by an appropriate school's faculty, submitted to a University-wide curriculum committee for its review and approval, and, if approved, is then written by a faculty member of Ohio Christian University.

We take the quality of our courses seriously and have created a course review schedule in which course materials are continuously reviewed, revised, and changed when appropriate with the input of faculty, community advisory groups, and students.

Should you have questions or concerns related to PHS 2010 Principles of Physical Science or Ohio Christian University's program in general, please contact me.

Sincerely,



Bradford Sample, Ph.D.  
Provost



**PHS2010 – Principles of Physical Science**  
**Ohio Christian University Spring Semester 2019**  
**Dr. Brian Campbell – Instructor**

**Email:** bcampbell3@ohiochristian.edu

**Instructional Times**

Lecture: TR 4:00 – 5:30 PM, EC 103

Lab: T 5:35 – 6:30 PM, EC 103

**Resources**

Textbook: Tillery, B.W., (2017). *Physical Science* (11<sup>th</sup> ed.). New York: McGraw-Hill.

Online: PhET simulations: <https://phet.colorado.edu/>

Laboratories will be written by the instructor with source material cited.

**Course Description**

This course will provide an overview of physics, chemistry, astronomy, and earth science. There will be a particular emphasis on how the practice of science impacts how we view the world and how we practice our faith. Because of the breadth of the content in this course, we will not go into significant details on some topics covered in the textbook (OCU offers more in depth courses on each of the four major areas covered.). There will be a weekly laboratory.

Prerequisite: Recommended completion of high school algebra or chemistry.

**Objectives**

At the conclusion of this course students should be able to do the following:

1. Obtain a basic understanding of the major concepts in physics, chemistry, astronomy, and earth science.
2. Use the scientific method to conduct simple laboratory studies of the major areas of physical science.
3. Develop a greater appreciation through the physical sciences.
4. Critically evaluate scientific content available in popular literature (i.e. news reports, magazine articles, televised content, etc.).

## Course Requirements

Students must complete the following requirements to earn credit for SI 130 (1000 points possible):

- 7 in-class quizzes (50 points each, 350 total)
- 7 homework assignments (10 to 15 points each, 100 total)
- 13 laboratory exercises (20 points each, 260 total)
- 7 worldview discussions to be conducted online (20 points each, 140 total)
- Final exam (150 points)

## Grading Scale

Course grades will be earned based on the following scale:

Grade	Percentage	Grade	Percentage
A	100 - 92	C	77 - 72
A -	91 - 90	C -	71 - 70
B +	89 - 88	D +	69 - 68
B	87 - 82	D	67 - 62
B -	81 - 80	D -	61 - 60
C +	79 - 78	F	59 - 0

Grades will round up at 0.5 and above.

## Course Calendar - Subject to change

Week	Tuesday	Thursday
1		Jan. 10 - Lecture
2	Jan. 15 - Lecture; Lab #1	Jan. 17 - Lecture
3	Jan. 22 - Lecture; Lab #2	Jan. 24 - Lecture; Quiz #1
4	Jan. 29 - Lecture; Lab #3	Jan. 31 - Lecture
5	Feb. 5 - Lecture; Lab #4	Feb. 7 - Lecture; Quiz #2
6	Feb. 12 - Lecture; Lab #5	Feb. 14 - Lecture
7	Feb. 19 - Lecture; Lab #6	Feb. 21 - Lecture; Quiz #3
8	Feb. 26 - Lecture; Lab #7	Feb. 28 - Lecture

9	Mar. 5 - Lecture; Lab #8	Mar. 7 - Lecture; Quiz #4
	Mar. 12 - Spring Break, No Class	Mar. 14 - Spring Break, No Class
10	Mar. 19 - Lecture, Lab #9	Mar. 21 - Lecture
11	Mar. 26 - Lecture, Lab #10	Mar. 28 - Lecture; Quiz #5
12	Apr. 2 - Lecture, Lab #11	Apr. 4 - Lecture
13	Apr. 9 - Lecture, Lab #12	Apr. 11 - Lecture; Quiz #6
14	Apr. 16 - Lecture, Lab #13	Apr. 18 - Lecture
15	Apr. 23 - Lecture, Make-up Lab	Apr. 25 - Lecture; Quiz #7

Final Exam - Tuesday April 30, 2019 at 4:00 PM

### Course Policies

Attendance - Attendance will be taken in accordance with OCU policy. If at all possible please notify me ahead of time if you know you are going to be absent from a class or lab. Laboratories will not be made up (see below). Students will be held harmless for any laboratory missed with a valid, documented excuse. Quizzes may be made up with a valid, documented excuse through the library. Students that are more than 15 minutes late for a class will be considered tardy. Three tardies is equal to one full absence. Further reading on the OCU attendance policy can be found on page 20 of 2018-19 OCU Course Catalog.

Laboratory - The lab is a required part of the course. The laboratory period (Tuesdays from 5:35 to 6:30 PM) is for the completion of the laboratory procedures. Any corresponding handouts based on the procedures must be completed and submitted by the beginning of the next class meeting. Late assignments will only be accepted one class period late and with a 50% penalty. Assignments that are more than one class period late will not be accepted. If a laboratory period has to be cancelled, a makeup assignment will be posted on e360. Each student must use appropriate personal protective equipment as dictated by the instructor. The final laboratory period is designated as a make-up period for students who miss one of the previous periods with an unexcused absence. It can also be used for bonus points by students who have completed all of the prescribed labs.

Personal Technology - Personal technology (laptops, cell phones, tablets, etc.) may be used during lecture times as an aid for note-taking or for analyzing data only. Personal technology should not be used (or necessary) during laboratory. The only allowable technology for quizzes and the final exam is a calculator. Cell phones, tablets, and computers must be put away and turned off for exams.

Quiz and Exam Procedures – Students will be provided with reference material for quizzes and the final exams on an as-needed basis. You will need to supply your own calculator (Graphing calculators are not necessary.). Quizzes will be designed to last about 40 minutes. Most class periods will also have about 40 minutes of lecture following the quiz.

Online Discussions – There will be seven of these discussions that will occur throughout the semester. Discussion threads will likely require some outside reading to complete. Once a discussion question is posted, students will have a full week to post comments. In order to be eligible for full credit a student must compose his or her own original answer and post at least one constructive comment to another student's answer. Submissions that are one class period late will be subject to a 50% penalty. Submissions that are more than one class period late will not be accepted for credit. Please be civil in your discussions and respectful of others who may not believe the same as you do.

Homework Assignments – Homework will be assigned periodically. The homework is meant to serve as a study guide for the quizzes, and will be due on quiz days. Submissions that are one class period late will be subject to a 50% penalty. Submissions that are more than one class period late will not be accepted for credit.

### **Academic Honesty** (from OCU Course Catalog)

Students are expected to be honest in all of their academic work and are responsible for their own work for course requirements. Scholastic dishonesty is a violation of both academic standards and Biblical teachings, and is an affront to other students and the faculty. Academic dishonesty includes the following:

- Cheating. Examples include (but are not limited to the following):
  - Obtaining quiz/exam questions in advance
  - Providing information to others about a quiz / exam
  - Collaborating on homework / quiz / exam
  - Using notes during a quiz / exam
  - Googling questions during a quiz / exam
  - Opening a textbook during a quiz / exam
  - Looking at a cell phone during a quiz / exam
  - Turning in assignments in which part or the entirety was done by someone else
  - Providing work to another student to submit as his or her own
  - Submitting the same (or essentially the same) paper or project in more than one course

- Padding bibliographies: listing sources on the bibliography page that have not been cited
- Submitting a paper or project in which part or the entirety was done by someone else. (This does not include designated group assignments in which the student participates).
- Any act that violates the rights of other students from completing their academic assignments (e.g., deliberate withholding of necessary academic material, or willful harm to another student's work.)

All instances of academic dishonesty must be reported to the Provost's Office for recording in the student's permanent file. Students found guilty of academic dishonesty will be penalized by the instructor for the first offense. For this course a student who is found guilty on a first offense will receive **zero credit** for the assignment or exam upon which the act was perpetrated. Further reading on Academic honesty is located at page 21 of the 2018-19 OCU Course Catalog.

### **Accommodations Policy**

In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disability Act (ADA), the University will provide reasonable and appropriate accommodations for individuals with disabilities on a case-by-case basis. Accommodations are made in relation to a documented disability. The University will collaborate through its 504 Compliance Officer with appropriate external agencies to provide some accommodations. The 504 Compliance Officer is responsible for coordinating OCU's efforts in complying with applicable Federal and State laws and regulations, including the University's duty to address any inquiries or complaints regarding discrimination or denial of equal access. The student must complete a form provided by the 504 Compliance Officer with appropriate documentation of his or her disability. The documentation must be within three (3) years of first request to OCU and must include information that diagnoses the disability, indicates the severity and longevity of the condition, and offers recommendations for necessary and appropriate auxiliary aids, or services, academic adjustments, or other accommodations. In addition to this form, a qualified professional must complete the Verification of Disability form provided at <https://www.ohiochristian.edu/about-ocu/general-institutional-information/disability-services>. Direct additional questions or comments to [complianceofficer@ohiochristian.edu](mailto:complianceofficer@ohiochristian.edu).

### **Disclaimer**

Items in this syllabus are subject to change. As the instructor I reserve the right to make appropriate changes to the course.