



Syllabus

15800 Calvary Rd
Kansas City, MO 64147

COURSE: SCIA101D&DN Introduction to Science
CREDIT: 3 Semester Hours (class).
SEMESTER: Fall 2020 Cycles 2 and 3
INSTRUCTOR: Dr. Meredith Perhne
CONTACT INFO: Meredeth.perhne@calvary.edu
MEETING TIME: Tuesdays, 1:00 – 4:00 pm (Mountain Time)
LOCATION: Livestreamed

It's an exciting time to study science! Scientific discoveries are made every day and our understanding of nature has increased incredibly. Some suggest that the Bible is inconsistent with science. However, on the contrary, science and the Bible are completely consistent, and this should strengthen our faith as we discover more and more about the incredible, awesome nature of our Creator God! Those with a secular worldview try to use science to "disprove" the Bible. You will find that knowing some science will help you defend your faith when these fallacious arguments are used.

I. COURSE DESCRIPTION:

SCIA101 D&DN (3 hrs) This course is a broad introduction to the fundamentals, philosophies, and apologetics of science from the biblical worldview. Emphasis is placed on a conceptual understanding of the basic principles of physics, chemistry, biology, geology, and astronomy from a biblical perspective.

SCIA101 D&DN are blended classes, meaning that both campus and online students take this class together. Campus students attend the classes in person, online students attend the classes via the online classroom. All interaction and assignments for campus and online students are done in the online classroom.

II. COURSE OBJECTIVES:

A. General competencies to be achieved. The student will:

- 1) Demonstrate an understanding of the fundamental concepts of science from the biblical worldview.
 - a. Program Objectives 1 and 3.
 - b. Assessments – homework and exams.

B. Specific competencies to be achieved. The student will:

- 1) Demonstrate the ability to apply the concepts of science to real-world applications.
 - a. Program Objectives 1, 3, and 4.
 - b. Assessments – homework and exams.
- 2) Read literature covering the biblical worldview of science and demonstrate your understanding of these concepts by reporting on the literature clearly and concisely.
 - a. Program Objectives 2, 3, and 4.
 - b. Assessments – biblical worldview essays.

Our Mission: "...to prepare Christians to live and serve in the church and in the world according to the Biblical worldview."

III. REQUIREMENTS:

All students will be expected to:

- Complete reading assignments, listen to lectures, and complete homework, essays, and tests on schedule. The schedule will be posted on Canvas.
- Participate actively in lectures. Use of computers or cell phones during lectures for any non-academic, non-class related (non-class websites, texting, calls, etc.) purpose is not allowed. Taking pictures for academic reasons is acceptable. Computers may be used for working problems, taking notes, or other reasons approved by the instructor.

IV. METHODS:

- A. LECTURES:** Lectures will consist of material from a variety of sources. Students should take notes during lectures as the homework questions will be directly related to the lectures.
- B. READING:** Reading material will consist of material from the internet or materials provided by the professor. There is no required textbook.
- C. HOMEWORK QUESTIONS:** Homework questions will normally be completed using Canvas. It is imperative that you complete the homework problems in order to understand the material and to do well on tests. The concepts covered on the homework (and biblical worldview essays) will be used to create the test questions.
- D. BIBLICAL WORLDVIEW ESSAYS:** The purpose of this portion of the class is to develop your ability to understand the biblical worldview of science and to learn that you can defend your faith (1 Peter 3:15) using science. You will read articles or watch videos and then prepare essays that demonstrate your understanding of the topics. The concepts covered on the essays (and the homework) will be used to create the test questions.

Essays must follow the APA style according to the Publication Manual of the American Psychological Association, 6th edition except as noted in this paragraph. Essays should be around one-half page, single spaced, using Times New Roman 12 font. Essays should not be longer than one page. Do not include a title page or a reference page. Put a descriptive title and your name and date at the top of the page. Include the reference after the bottom of the essay. You will be graded on content and understanding of the topics. Your writing should be clear and concise. Proper writing style including clarity, grammar, and punctuation will be considered during grading. Do not use first person. Discuss what the article or video said and means, not what you think about it. Make sure you use quotation marks as needed.

Plagiarism is defined as copying any part of a book or paper without identifying the author. This also includes taking another person's ideas and presenting them as your own.

- E. TESTS:** The concepts covered on the homework and biblical worldview essays will be used to create the test questions. Test questions for the comprehensive portion of the final will be taken from the regular tests.

Students not taking tests during the class period on campus will need to use the ProctorU test proctoring service. See the ProctorU addendum at the end of this syllabus.

- F. MISSED OR LATE HOMEWORK OR BIBLICAL WORLDVIEW ESSAYS:** Grades on late homework and biblical worldview essays will be decreased for each day that they are late. Assignments that are more than one week late will not be accepted and will receive no credit.

G. HOW TO GET HELP:

I am available during my posted office hours in E. Ed. 224. Also, feel free to contact me via Canvas messages, email, or phone (see email address and phone numbers above).

The Clark Academic Center (learning@calvary.edu) is dedicated to providing free academic assistance for Calvary University students. Student tutors aid with all facets of the writing process, tutor in various subject areas, prepare students for exams and facilitate tests. Please take advantage of this service.

Students with disabilities have the responsibility of informing the DSS Coordinator (dss@calvary.edu) of any disabling condition that may require support.

V. GRADING See grading scale in the university catalog.

Homework	25%
Regular Exams	40%
Biblical Worldview Essays	25%
Final Examination (comprehensive)	10%

VI. MATERIALS – Required

- A) **The Bible:** The Bible is a required textbook in every course at Calvary University. To facilitate academic level study, students are required to use for assignments and research an English translation or version of the Bible based on formal equivalence (meaning that the translation is generally word-for-word from the original languages), including any of the following: New American Standard (NASB, English Standard Version (ESV), New King James (NKJV), or King James (KJV). Other translations and versions based on dynamic equivalence (paraphrases, and thought-for-thought translations like NLT and NIV) may be used as supplemental sources. Please ask the professor if you have questions about a particular translation or version.

VII. BIBLIOGRAPHY

Some **supplementary** books that would be useful for understanding the creation/evolution topics are:

- 1) *Evolution Exposed: Earth Science* by Roger Patterson (2010).
- 2) *The New Answers Book 1, 2, and 3* by Ken Ham, et al. (2007-2013).
- 3) *In Six Days* by multiple authors (2011).
- 4) *Wonders of Geology* by multiple authors (multiple years).
- 5) *Taking Back Astronomy* by Jason Lisle (2008).
- 6) *Evolution Exposed: Biology* by Roger Patterson (2007).

These books (and several others) are **FREE** at <https://answersingenesis.org/answers/books/>

VIII. TENTATIVE CLASS SCHEDULE:

A detailed version of the class schedule including due dates will be posted on Canvas. Any changes to the schedule will be announced in class, by email, and posted on Canvas.

TOPICS
Introduction to the fundamentals of science from the biblical worldview
The scientific method
Defining science properly
General and special revelation
Is Genesis History?
Introduction to physics
Introduction to chemistry
Introduction to biology
Introduction to geology
Introduction to astronomy
The Bible is the foundation for scientific laws
Should science be our authority?
Creation evangelism

ProctorU Addendum

Calvary University uses ProctorU test proctoring service. ProctorU is a live online proctoring service that allows you to take your exam from the comfort of your home. ProctorU is available 24/7, however, **you will need to schedule your proctoring session at least 72 hours in advance to avoid any on-demand scheduling fees.** Creating a ProctorU account is simple. You can do so by going to <https://go.proctoru.com/students/users/new?institution=2045>.

Students must read all information and comply with all directions below to be successful for their proctored exam experience. Calvary University hopes that students will have a smooth experience, and to decrease student anxiety and increase success, please use this guide to help you plan for your test. Please note that, per ProctorU, there will be penalties for students who miss their testing window. Technical trouble will not be an excuse for missing the window. Therefore, pay attention to all details within this guide, and all links included.

System Requirements: Please see the information below supplied by ProctorU for system requirements. If your computer does not have these capabilities, please consider borrowing a computer as you will still be required to complete the exam using the live proctor system with ProctorU. Please note that you will not be able to take your exam(s) in the Calvary University Library due to the activity that will be picked up in a public place.

In order to use ProctorU, you will need a high-speed internet connection, a webcam (internal or external), a Windows or Apple Operating System, and a government issued photo ID. ProctorU recommends that you visit <https://test-it-out.proctoru.com/> prior to your proctoring session to test your equipment. They recommend you click on the button that says “connect to a live person” to fully test out your equipment. If using Firefox, please make sure that you are using the current version of your Firefox browser and have downloaded the ProctorU extension available at <https://www.proctoru.com/firefox>.

Type	Minimum	Recommended	Calvary University Minimum
Web Camera	640×480 resolution	1280×720 resolution	1280×720 resolution
PC Users	Windows Vista	Windows 10 (10 S is not supported)	same
Mac Users	OS X 10.5 or higher	OS X 10.13 High Sierra	same
Internet Download Speed	.768 Mbps	1.5 Mbps	3 Mbps
Internet Upload Speed	.384 Mbps	1 Mbps	2 Mbps

RAM	1024 MB	2 GB	same
Ports	1935, 843, 80, 443, 61613, UDP/TCP	1935, 843, 80, 443, 61613, UDP/TCP	same

- Desktop computer or laptop (not a tablet, Chromebook or cell phone).
- Webcam and microphone (built-in or external) – test your webcam at <https://test.webrtc.org/>
- Connection to network with sufficient internet speed: at least 3 Mbps download speed and 2 Mbps upload – test internet speed at www.speedtest.net
- Operating systems: Windows Vista or newer, Mac OS X 10.5 – or newer
- Browser with pop-up blocker disabled: Google Chrome v39 or later, Mozilla Firefox v34 or later.

Additionally, please visit and review the test-taker resource center by going to <https://www.proctoru.com/proctoru-live-resource-center>. You should expect the startup process with the proctor to take about 10-15 minutes. However, this time will not affect your exam time. Please feel free to direct any questions to the student support team via the live chat within your account.

******If you have any questions or concerns, contact Proctor U’s technical support team 24/7 via their live chat support at <https://www.proctoru.com/contact-us>**

Costs for ProctorU exams are listed below and are payable to ProctorU at the time of the test. These costs assume that a student will schedule their exam at least 72 hours in advance of the exam start time:

- 60 minutes or less - \$8
- 61 – 120 minutes - \$10
- 121 – 180 minutes - \$12

For those not scheduling an exam at least 72 hours in advance, late scheduling charges are added in addition to the above fee structure. There are two options for late scheduling:

- “Take It Soon” allows a test to be scheduled less than 72 hours but more than 24 hours before the desired start time. This option includes an additional fee of \$8.00. (Total cost for a 60 minute exam scheduled as “Take It Soon” would be \$16.)
- “Take It Now” allows a test to be taken on-demand with no appointment needed. This option includes an additional fee of \$12.00. (Total cost for a 60 minute exam scheduled as “Take It Now” would be \$20.)

These options are for the convenience of the examinee. Any charges applicable to the examinee must be paid with a credit or debit card. The test taker will be required to enter payment information on a secure page connected to a third-party card processor. The page is encrypted and secure and ProctorU does not see or store any credit card data.

Examinees will be required to re-enter payment information each time new charges are incurred.