

# Syllabus

BIO 106L: ENVIRONMENT and Society  
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## Course Description

This course is an introduction to ecological principles and their relevance to human impact on the natural environment. Issues to be covered include natural resources, legislative changes, terminology, urbanization, pollution, environmental ethics, and population dynamics.

**Credit Hours:** 1

**Prerequisite Courses:** None

## Course Outcomes

Upon successful completion of this course, you should be able to:

1. Articulate the steps used in the scientific method
2. Draw conclusions based on observations.
3. Design an experiment to test the hypothesis
4. Articulate the strengths and weaknesses of scientific inquiry.
5. Evaluate sources of information for scientific validity
6. Attain amateur expertise and hands-on experience in a sub-discipline of science
7. Articulate what is meant by a scientific world-view
8. Explain the concept of stewardship of the creation
9. Integrate a Christian world-view in the context of a scientific discovery

## Course Textbook(S)

Essential Environment 5<sup>th</sup> Edition: the science behind the stories, Pearson Publishing

## Course Technology

Mastering Environmental Science; [masteringenvironmentalscience.com](https://www.masteringenvironmentalscience.com)

The Habitable Planet: A Systems Approach to Environmental Science, Interactive Labs  
<https://www.learner.org/courses/envsci/interactives/index.php>

## IWU Diversity Statement

IWU, in covenant with God's reconciling work and in accordance with the Biblical principles of our historic Wesleyan tradition, commits to build a community that reflects Kingdom diversity.

We will foster an intentional environment for living, teaching, and learning, which exhibits honor, respect, and dignity. Acknowledging visible or invisible differences, our community authentically values each member's earthly and eternal worth. We refute ignorance and isolation and embrace deliberate and courageous engagement that exhibits Christ's commandment to love all humankind. (2016)

## Grading Scale

**NOTE:** In graduate level courses, a grade of C- or below will require the course to be repeated.

Grade	Quality Points Per Credit	Percentage	Score

<b>A</b>	4.0	95%-100%	285-300
<b>A-</b>	3.7	92%-94.9%	276-284
<b>B+</b>	3.3	89%-91.9%	267-275
<b>B</b>	3.0	85%-88.9%	255-266
<b>B-</b>	2.7	82%-84.9%	246-254
<b>C+</b>	2.3	79%-81.9%	237-245
<b>C</b>	2.0	75%-78.9%	225-236
<b>C-</b>	1.7	72%-74.9%	216-224
<b>D+</b>	1.3	69%-71.9%	207-215
<b>D</b>	1.0	65%-68.9%	195-206
<b>F</b>	0.0	0%-64.9%	0-194

## Grading Policies

Your grading policy for your course is dependent on your school and program. Your grading policies can be found in the [IWU Catalog](#).

## Letter Grade Equivalencies

**NOTE:** In graduate level courses, a grade of C- or below will require the course to be repeated.

Grade	Description of Work
<b>A</b>	Clearly stands out as excellent performance. Has unusually sharp insights into material and initiates thoughtful questions. Sees many sides of an issue. Articulates well and writes logically and clearly. Integrates ideas previously learned from this and other disciplines. Anticipates next steps in progression of ideas. Example "A" work should be of such nature that it could be put on reserve for all cohort members to review and emulate. The "A" cohort member is, in fact, an example for others to follow.
<b>B</b>	Demonstrates a solid comprehension of the subject matter and always accomplishes all course requirements. Serves as an active participant and listener. Communicates orally and in writing at an acceptable level for the degree program. Work shows intuition and creativity. Example "B" work indicates good quality of performance and is given in recognition for solid work; a "B" should be considered a good grade and awarded to those who submit assignments of quality less than the exemplary work described above.

<b>C</b>	Quality and quantity of work in and out of class is average. Has marginal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at least minimally.
<b>D</b>	Quality and quantity of work is below average. Has minimal comprehension, communication skills, or initiative. Requirements of the assignments are addressed at below acceptable levels.
<b>F</b>	Quality and quantity of work is unacceptable and does not qualify the student to progress to a more advanced level of work.

## Workshop One Outline

Title	Type	Due Dates	Time	Points
<b>Ecological Footprint Lab</b>	Dropbox	Due by the end of the workshop.	<b>5 hours</b>	50
<b>Totals</b>			<b>5 hours*</b>	<b>50</b>

\*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Workshop Two Outline

Title	Type	Due Dates	Time	Points
<b>Ecology Lab</b>	Dropbox	Due by the end of the workshop.	<b>5 hours</b>	50
<b>Totals</b>			<b>5 hours*</b>	<b>50</b>

\*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Workshop Three Outline

Title	Type	Due Dates	Time	Points
<b>Demographics Lab</b>	Dropbox	Due by the end of the workshop.	<b>5 hours</b>	50
<b>Totals</b>			<b>5 hours*</b>	<b>50</b>

\*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Workshop Four Outline

Title	Type	Due Dates	Time	Points
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<b>Disease Lab</b>	Dropbox	Due by the end of the workshop.	<b>5.5 hours</b>	50
<b>Totals</b>			<b>5.5 hours*</b>	<b>50</b>

\*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Workshop Five Outline

Title	Type	Due Dates	Time	Points
<b>Carbon Lab</b>	Dropbox	Due by the end of the workshop.	<b>5.5 hours</b>	50
<b>Totals</b>			<b>5.5 hours*</b>	<b>50</b>

\*These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Workshop Six Outline

Title	Type	Due Dates	Time	Points
<b>Energy Lab</b>	Dropbox	Due by the end of the workshop.	<b>5 hours</b>	50
<b>Totals</b>			<b>5 hours*</b>	<b>50</b>

## Course Assignments

<b>TOTALS</b>	<b>31 hours*</b>	<b>300</b>
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\* These timings are based on estimations of average times to complete each assignment. Actual assignment completion times will vary.

## Course Development Resources

Behe, M (1996) Darwin's Black Box, Free Press.

Colson, Chuck and H. Fickett (2005) The Good Life. Tyndale House Publishers.

Cain ML et al. (2001) Ecology 2<sup>nd</sup> Edition. Sinauer Associates

Coy C. and S. Conrad (2011) Lab Manual for Environment and Society, IWU in-house publication.

Denton, M (1985) Evolution: A Theory in Crisis, Adler and Adler.

Giberson, Karl and F. Collins (2011) The Language of Science and Faith. IVP.

Johnson, P (1991) Darwin On Trial, IVP.

Miller, Kenneth (1999) Finding Darwin's God. Clift Street Books, Harper Collins.

Ross, H. (1999) Beyond the Cosmos, Navpress.

Sailhammer, J (2001) Genesis Unbound. Dawson Media. Withgott J, and Laposata (2012)

Essential Environment 4<sup>th</sup> edition. Pearson Publishing.

<http://www.answersingenesis.org/media/video/ondemand/new-answers-2-dvd/best-proof-of-creation>

<http://reasons.org/explore/publications/rtb-101/read/rtb-101/2012/01/13/how-long-are-the-creation-days>

<http://biologos.org/resources/audio-visual/is-god-the-creator>

The Habitable Planet: A Systems Approach to Environmental Science, Interactive Labs <https://www.learner.org/courses/envsci/interactives/index.php>

## Expectations, Policies, and Important Student Information

School/Division	Link
DeVoe School of Business Division of Liberal Arts School of Services and Leadership	<a href="#">View School/Division Expectations, Policies, and Student Information</a>
School of Educational Leadership	<a href="#">View School/Division Expectations, Policies, and Student Information</a>
Wesley Seminary @ IWU	<a href="#">View School/Division Expectations, Policies, and Student Information</a>
Nursing - Undergraduate	<a href="#">View School/Division Expectations, Policies, and Student Information</a>
Nursing - Graduate	<a href="#">View School/Division Expectations, Policies, and Student Information</a>