

Note:

Course content may be changed, term to term, without notice. The information below is provided as a guide for course selection and is not binding in any form, and should not be used to purchase course materials.

COURSE SYLLABUS

BIOL 101

PRINCIPLES OF BIOLOGY

COURSE DESCRIPTION

An examination of the fundamental characteristics common among living things. Emphasis is placed upon studies of the cell, energy, metabolism, reproduction, heredity, ecology, phylogeny and the diversity of life.

RATIONALE

An understanding of the basic characteristics of life is a significant asset to an individual. The individual lives among and relates to (with or without cognizance) myriads of life forms around, on, and within him/her. As he/she begins to appreciate the diversity and ecological significance of life forms he/she begins to function more effectively and sensitively within the sphere of dominion God has allotted him/her.

I. PREREQUISITES

None

II. REQUIRED RESOURCE PURCHASE

Click on the following link to view the required resource for the term in which you are registered: <http://bookstore.mbsdirect.net/liberty.htm>

III. ADDITIONAL MATERIALS FOR LEARNING

- A. Computer with basic audio/video output equipment
- B. Internet access (broadband recommended)
- C. Microsoft Word
(Microsoft Office is available at a special discount to Liberty University students.)
- D. Software (“plug-ins”) to read Quicktime and Shockwave files (obtainable free online from Adobe and Quicktime sites)

IV. MEASURABLE LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- A. Logically organize, critically analyze, and apply scientific ideas, theories, and information.
- B. Apply basic biological and scientific principles to real and hypothetical circumstances in order to predict likely outcomes or behaviors.

- C. Apply biological and environmental principles from the Biblical worldview, to make informed decisions on moral and ethical issues and to weigh the consequences of those decisions.

V. CORE COMPETENCY LEARNING OUTCOMES

Upon successful completion of this course, the student will be able to:

- A. Evaluate information to determine if it is supported by the evidence.
- B. Apply reading comprehension strategies including interpreting, evaluating, and analyzing written content.

VI. COURSE REQUIREMENTS AND ASSIGNMENTS

- A. Textbook readings and lecture presentations/notes
- B. Discussion Board forums (5)

The student will respond to prompts provided and post an initial 100-word thread to the Discussion Board forum by 11:59 p.m. (ET) on Monday of the assigned module/week. The student must submit two replies of at least 20 words to two classmates' threads by 11:59 p.m. (ET) on Monday the following module/week, except in Module/Week 16, when replies are due by 11:59 p.m. (ET) on **Friday**.

- C. Individual Writing Assignments (2)

In Modules/Weeks 1 and 2, the student will compose and submit two brief compositions regarding significance of life and the scientific method. The compositions must be submitted by 11:59 p.m. (ET) on Monday of the assigned module/week.

- D. Quizzes (16)

Rather than a few comprehensive exams over the material, this course utilizes many quizzes, targeting smaller, specific content areas. Quizzes will contain multiple-choice questions that come solely from the textbook and will be **open-book/open-notes**. The quizzes will be timed; the student should review the learning outcomes, read the assignments, and be certain he or she has engaged in all the assignments **before** taking these quizzes. Quizzes are due by 11:59 p.m. (ET) on Monday of the assigned module/week, except for Quiz 16, which is due by 11:59 p.m. (ET) on **Friday** of Module/Week 16.

VII. COURSE GRADING AND POLICIES

- A. Points

Discussion Board forums (5 at 60 pts ea)	300
Individual Writing Assignments (2 at 30 pts ea)	60
Quizzes (16 at 40 pts ea)	640
Total	1000

- B. Scale

A = 900–1000 B = 800–899 C = 700–799 D = 600–699 F = 0–599

- C. Late Policies: There will be a 5% loss of credit per day that an assessment is late.
1. Quizzes: If the student fails to take the quiz within a week following the due date, a grade of zero will be given for that quiz.
 2. Individual Writing Assignments: Two individual assignments are due in Modules 1 and 2 (see Course Schedule for specific date). For each day they are late there is a loss of 5% of the credit until they are over a week late. Then they receive a grade of zero.
 3. Discussion Board Thread Submissions: After the assigned due date, there will be a 10% per day grade reduction for four days. Submissions five or more days late will not be accepted.
 4. Discussion Board Reply Submissions: After the assigned due date, there will be a 5% per day grade reduction. Submissions greater than one week late will result in a grade of zero.

D. Disability Assistance

Students with a documented disability may contact the Liberty University Online's Office of Disability Academic Support (ODAS) at LUOODAS@liberty.edu to make arrangements for academic accommodations.

COURSE SCHEDULE

BIOL 101

Textbooks: Detwiler et al., *Life by Design* (2012).

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
1	Detwiler et al.: ch. 1 & ch. 2: sections 2.1–2.2 2 presentations 1 article	Course Requirements Checklist Class Introductions Individual Assignment 1 Quiz 1	0 0 30 40
2	Detwiler et al.: ch. 2: section 2.3 & ch. 3 2 presentations	Individual Assignment 2 Quiz 2	30 40
3	Detwiler et al.: ch. 4 4 presentations	DB Forum 1 Thread Quiz 3	30 40
4	Detwiler et al.: ch. 5 2 presentations	DB Forum 1 Replies Quiz 4	30 40
5	Detwiler et al.: ch. 6: sections 6.1–6.6 5 presentations	Quiz 5	40
6	Detwiler et al.: ch. 6: sections 6.7–6.10 7 presentations	Quiz 6	40
7	Detwiler et al.: ch. 7 7 presentations	Quiz 7	40
8	Detwiler et al.: chs. 8–9 4 presentations	DB Forum 2 Thread Quiz 8	30 40
9	Detwiler et al.: ch. 10 7 presentations	DB Forum 2 Replies Quiz 9	30 40
10	Detwiler et al.: ch. 11 2 presentations	Quiz 10	40

WEEK/ MODULE	READING & STUDY	ASSIGNMENTS	POINTS
11	Detwiler et al.: ch. 12: sections 12.1–12.5 4 presentations	DB Forum 3 Thread Quiz 11	30 40
12	Detwiler et al.: ch. 12: sections 12.6–12.7 3 presentations	DB Forum 3 Replies Quiz 12	30 40
13	Detwiler et al.: ch. 13: sections 13.1–13.3 3 presentations	DB Forum 4 Thread Quiz 13	30 40
14	Detwiler et al.: ch. 13: sections 13.4–13.5 1 presentation	DB Forum 4 Replies Quiz 14	30 40
15	Detwiler et al.: chs. 14 & ch. 15: sections 15.1–15.2 5 presentations 1 website	DB Forum 5 Thread Quiz 15	30 40
16	Detwiler et al.: ch. 15: sections 15.3–15.7 & ch. 16 2 presentations	DB Forum 5 Replies Quiz 16	30 40
TOTAL			1000

DB = Discussion Board

NOTE: Each course week (except week 1) begins on Tuesday morning at 12:00 a.m. (ET) and ends on Monday night at 11:59 p.m. (ET). The final week ends at 11:59 p.m. (ET) on Friday.