

Sample Syllabus Bio 111W INET Principles Of Biology

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REQUIRED TEXT AND MATERIALS

Textbook - You have a choice but once unwrapped there can be NO REFUND for any reason so please attend the orientation or come to class before opening.

- **Go fully digital - purchase access card available in bookstore**
 - Hoefnagel. 2013. *Biology: The Essentials* with Connect Plus Access Card package includes Connect eBook, LearnSmart and access to all assignments
- **Printed book + Connect Plus bundled with text**
 - Hoefnagel. 2013. *Biology: The Essentials* Printed (hard copy) textbook bundled with Connect Plus access, LearnSmart and eBook

Lab Manual

eScience Labs, Inc. - Custom Biology Lab Supply Kit
Redemption Access Card (Sku #####) Kit number:

WHAT TO EXPECT

The Big Picture, Principles of Biology is an introductory course in biology usually taken to fulfill general education requirements at transfer institutions (also applies toward your Delta degree). *The class will transfer as a four-credit science/lab course and is geared toward non-majors.* This course is a “survey course” designed to expose students to the broad range of topics in a field of study, i.e. biology from A to Z. In other words, we will quickly touch on most of the essential concepts in the study of life. The goal is to increase your scientific literacy, dispel misconceptions and foster a better awareness and appreciation for the living world around you. *Whenever possible the focus will be on how to apply biological concepts to the everyday world.*

INET. You need a reliable internet connection, technology skills and time to manage the learning cycle to be successful in an INET class. The learning cycle/process includes weekly homework on the publisher website, discussion boards, quizzes and hands on labs with lab reports. Your lab reports must include evidence (photos/pics plus data) that demonstrate that you completed the lab. These images are integrated into your lab report which is uploaded to the Dropbox. Realistically INET students should expect to spend 12-18 hours per week on BIO 111. Tests must be taken in the Testing Center at least twice this semester.

SYLLABUS INTENT & ACKNOWLEDGEMENT

Getting Off to a Good Start. The intent of this syllabus is to let you know what will be expected in this course. It is essential that you read the syllabus in its entirety. Each and every student will be held accountable to these written standards. After reading the entire document, please copy and paste the syllabus acknowledgement statement found in **RED** and located on the second to last page of this document into a DB post in the Coffee House forum before the end of the first week of class. Feel free to include any questions you still have regarding the class or policies listed. *Please keep reading at this time.*

GRADING

Homework. The online homework is an essential part of the learning process in this class. Chapter homework on CONNECT (publisher website) breaks down the concepts into bite-sized chunks therefore it is essential that you establish a weekly routine of meeting the due dates. *All late work receives a (-2 pt.) deduction.* The learning cycle for each chapter consists of:

- A. LearnSmart** – first exposure to the key terms and concepts. Use MG Hill CONNECT digital flashcards to target your weak points and move more quickly through what you know. LearnSmart allows you to test your knowledge and build your confidence with immediate feedback. *Due each Friday worth 5 points x 15 chapters = 5% of final grade.*
- B. Science Literacy Terms** compare and contrast pairs of terms and include an example of each by digging into the textbook or using the search feature of the eBook. **Your choice A or B or do both for more practice.** *Due each Friday worth 5 points x 15 chapters = 5% of final grade.*
- C. Lectures** – online video lectures from Bozeman science or CrashCourse/SciVue videos on YouTube. These mini lectures will help explain the concepts and organize your thinking. *Not graded but very helpful and essential to earn an A.*
- D. Active Learning** – complete the publishers interactive activities on CONNECT. *Due each Sunday worth 10 points x 15 chapters = 10% of final grade.*

Web Activities – the goal is to apply what you know, dig deeper, make connections that you share with the rest of the class via weekly Discussion Board posts. We will use TED-Ed Flipped Lessons and online case studies to expand on the course objectives. *Due each Thursday (1st post) and Sunday (2 reply posts) x 15 forums = 150 total points or @ 10% of final grade. Lowest score dropped.*

Weekly Quiz – test your knowledge before moving on to the next chapter. Most have ten multiple choice questions per chapter with immediate automated grading. *Due each Sunday worth 10 points x 15 chapters = 10% of final grade. Lowest score dropped.*

Laboratory Reports – essential for transfer credit. We will be using eScience Labs, Inc. kits purchased from a company in Colorado. Weekly lab reports are *due each Monday via DROPBOX, worth 20 points x 14 lab activities = 280 total points or @30% of final grade. Two lowest scores dropped.*

Exams – Three unit exams covering 4-6 chapters each. Exams must be taken in the Testing Center during the open window period or arrangements must be made with an alternative testing center or company prior to the first exam. *100 points x 3 = 300 points or @30% of final grade.*

Grading Scale

A simple percentage scale will be used. Total points will be recorded and converted to a percentage by dividing the points you have earned by the total points possible. Grades will be assigned according to the following scale. Grades are available 24/7 via the course eLearning site.

A 94-100	B+ 87-89	B- 80-83	C 74-76	D+ 67-69	
A- 90-93	B 84-86	C+ 77-79	C- 70-73	D 60-66	F below 60

Incomplete grade policy – An incomplete grade may be assigned if you have not fulfilled all course requirements and may be granted only when your work has been of acceptable quality near the end of the course because of reasons satisfactory to the instructor. For details:

<http://public.delta.edu/catalog/Pages/Policies.aspx>

CLASS POLICIES

Be Responsible. I expect that you will turn in assignments, post to the DB, and take exams on time. Deadlines for homework on MG Hill Connect (publisher) are flexible but must be turned in before the unit ends. Deadlines for labs are soft (-2 pt. deduction), deadlines for quizzes and web assignments are hard (0 pts. after deadline). If special circumstances warrant an extension, it is the responsibility of the student to communicate with the instructor. Please act responsibly and initiate communication concerning your individual situation if a problem arises.

Don't Miss Lab. Due to the hands on nature of the laboratory component of the course, there are generally few options for making up these activities since they will cause you to fall further behind. Since the lowest two lab scores will be dropped you can afford to miss two lab assignments *without penalty*.

Make-up Exams are strongly discouraged and will be allowed only in cases of emergency or personal hardship. *I must be notified on or before the last day of the testing window.*

Instructor Initiated Drops. Delta policy requires that attendance be noted. If you miss two consecutive weeks of assignments without contacting me and discussing the situation, I may drop you from the course through the instructor-initiated drop process. If you do not attend the mandatory orientation and/or miss homework assignments during the first week of class I may drop you for lack of attendance. You will receive notification from the registrar's office if this occurs. <https://public.delta.edu/catalog/Pages/Default.aspx>

Respect for different points of view will be expected at all times. You will find that over the course of the semester the study of biology will reinforce the premise that "diversity is the spice of life." <http://www.delta.edu/diversity/deltadiversity.aspx>

Modifying syllabus. I may make adjustments to the course schedule if I deem that a situation has impaired learning or that the entire class would benefit from the change. On occasion the technology may require that we are flexible but the pace of this course has been vetted and it is in our best interest to keep up with the course schedule.

eLearning and Email Etiquette - Students are responsible for checking eLearning and their Delta email account for course updates a **minimum of every other day** throughout the semester. Attendance "online" is determined by completion of required assignments. We are in a professional environment. It is important to communicate professionally at all times - your college instructors are NOT impressed when you chat with them via email's that start with "HEY". Avoid "text-speak" such as "u" for "you" or "r" for "are" or all caps in all e-mails and online assignments.

Sample Winter Semester Schedule – BIO 111 INET

WK	LECTURE - due Friday	WEB - due TH & Sun.	LAB - due Monday
1	Scientific Study of Life - Chap 1	TED Nature of Science Playlist	Scientific Method Lab General Lab Safety
2	Cells - Chap 3	Cell Playlist	Intro to the Microscope Lab Cell Structure and Function
3	Energy of Life – Chap 4	TED Energy & Nutrition Playlist	Diffusion eScience Lab
4	Photosynthesis – Chap 5	Biology Today Web Activity	Enzyme eScience Lab
5	Energy Release – Chap. 6	Optional Nutrition Case Study	Cell Respiration eScience Lab
Exam 1 Chapters 1-6 (not Chap. 2) Must be taken in Testing Center or by arrangement			
6	DNA & Genes – Chap 7	TED DNA Playlist	DNA & RNA eScience Lab
7	Replication & Division – Chap 8	Cell Division Playlist	Mitosis eScience Lab
Mid-Semester Break – No Classes			
8	Reproduction & Meiosis – Chap 9	Biology Today Web Activity	Meiosis eScience Lab
9	Patterns of Inheritance –Chap 10	Genetics Playlist	Mendelian Genetics Simulation @Star Genetics MIT
Exam 2 Chapters 7-10 Must be taken in Testing Center or by arrangement			
10	Evolutionary Change – Chap 12	TED Evolution Playlist	Population Genetics eScience Lab
11	Evidence of Evolution – Chap 13	TED Evidence of Evolution	Taxonomy Web Exploration Lab
12	Speciation & Extinction – Chap 14	TED Speciation & Extinction	Variation and Selection Lab @learn.genetics.utah.edu
13	Population Ecology – Chap 18	TED Microbes & Honeybees	Virtual Ecology Lab @Annenberg Learner
14	Communities & Ecosystems – 19	TED Ecology Playlist	Begin Online Eco Presentation
15	Preserving Biodiversity – 20	Reply to Ecology Online Presentations	No Lab *Student Survey/Feedback
Exam 3 Chapters 12-14 & 18-20 Available on MG Hill			

Learning Cycle - how to master biology concepts using a weekly routine

- SmartBook **OR** Science Literacy (5 pts) - first exposure to terms and concepts, **your choice**, due Friday
- Lectures (0 pts) – Bozeman or Crash Course YouTube video lectures not graded
- Web Activities (10 pts) – life-long learning via TED-Ed Flips or playlists due Thursday and Sunday
- Active Learning (10 pts) – MG Hill online interactive learning activities with feedback due Sunday
- Chapter Quiz (10 pts) – short multiple choice test your knowledge quiz due Sunday
- Labs (20 pts) – eScience laboratory kit and lab reports due Monday