DEPARTMENT OF BIOLOGICAL SCIENCES
TEXTBOOK LIST
FALL 2013

*BIOL 11000
FUNDAMENTALS OF BIOLOGY I
Instructor: David H. Bos
Lab Coordinator: Mark Browning
Estimated Enrollment: 1335
Text: Principles of Life
Authors: Hillis, Sadava, Heller and Price
Any of these options:
ISBN: 978-1-42925721-3 bound text
ISBN: 978-1-42927605-4 Loose leaf text
ISBN: 978-1-42927632-0 BioPortal access card (this is the ebook)
Publisher: W.H Freeman & Co
Note: -"i>clicker" version 1 or 2 will be used, please purchase on line or at bookstores.
Required: Lab manual - University Bookstore only

*BIOL 11100
FUNDAMENTALS OF BIOLOGY II
Instructor: Denise Zielinski
Estimated Enrollment: 160
Text: Biology
Year/Edition: 8th
ISBN Number: 0073227390
Author(s): Raven
Publisher: McGraw-Hill
Hardback
Required: Lab manual- University Bookstore only

*BIOL 11200 (Biotechnology students only)
FUNDAMENTALS OF BIOLOGY I
Instructor: David H. Bos
Lab Coordinator: Mark Browning
Estimated Enrollment: --
Text: (see information above for BIOL 11000)

*BIOL 11300 (Biotechnology students only)
FUNDAMENTALS OF BIOLOGY II
Instructor: Denise Zielinski
Estimated Enrollment: --
Text: Biology
Year/Edition: 8th
ISBN Number: 0073227390
Author(s): Raven
Publisher: McGraw-Hill (hardback)
*BIOL 11500  
BIOLOGY RESOURCE SEMINAR  
Instructor: Dennis Minchella/Staff  
Estimated Enrollment: 200  
~There is no textbook required for this course, materials presented in class~

*BIOL 12100  
BIOLOGY I: DIVERSITY, ECOLOGY, AND BEHAVIOR  
Instructor: Dennis Minchella  
Estimated Enrollment: 445  
Textbook: Life- The Science of Biology (used text may be purchased, BioPortal not required)  
Year/Edition: 9th edition (10th edition will not be used)  
Author(s): Sadava et al.  
Publisher: Sinauer

*BIOL 13500  
FIRST YEAR BIOLOGY LABORATORY  
Instructor: Laurie Iten  
Lab Coordinator: Deborah Anderson  
Estimated Enrollment: 136  
Required Lab Manual: Boot Camp for Biology Lab

*BIOL 19500  
Biodiversity, Ecology and Education  
Instructor: Denise Zeilinski  
Textbook: Life- The Science of Biology  
Year/Edition: 9th edition (10th edition will not be used)  
Author(s): Sadava et al.  
Publisher: Sinauer

*BIOL 19700  
BIOLOGY FRESHMAN HONORS SEMINAR  
Instructor: TBS  
Estimated Enrollment: 45  
~There is no textbook required for this course~

*BIOL 20100  
HUMAN ANATOMY AND PHYSIOLOGY  
Instructor: C. David Bridges  
Estimated Enrollment: 36  
Required  
Text 1: Lecture Notes (lectures 1-28)  
Year/Edition: 2013  
ISBN Number:
Author(s): C.D. Bridges
Publisher: Hayden-McNeill

**Recommended**
Text 2: Coloring Guide to Anatomy & Physiology
Year/Edition: 1st/1995
ISBN Number: 978-0697171094
Author(s): J. A. and R. J. Stone, Wm C. Brown
Publisher: McGraw-Hill Science/Engineering/Math

**Recommended**- purchase is optional
Text 3: Human Anatomy
Year/Edition: Any
ISBN Number:
Author(s): F. H. Martini, M. J. Timmons
Publisher: Prentice Hall

**Optional**
Di Fore’s Atlas of Histology with Functional Correlations either:
Year/Edition: 2008/11th
Author(s): Victor P. Eroschenko
Publisher: Williams and Wilkins

Or
Di Fore’s Atlas of Histology with Functional Correlations
Year/Edition: 2012/12th ed
Author(s): Victor P. Eroschenko
Publisher: Williams and Wilkins

**Note:** - *"i>clicker" will be used, please purchase on line or at bookstores.*

*Required*- nonprogrammable calculator with log capability

Further supplemental materials are **NOT** required or recommended for this course. Bookstores should not present such material for student purchase.

*BIOL 20300
HUMAN ANATOMY AND PHYSIOLOGY
Instructor: C. David Bridges
Lab Coordinator: Stuart Michael
Estimated Enrollment: 864

**Required**
Continued:
Text 1: Lecture Notes
Year/Edition: 2013
ISBN Number:
Author(s): C. D. Bridges
Publisher: Hayden-McNeill

**Required**
Text 2: Lab Manual
Year/Edition: 2013
ISBN Number:
Author(s): Stuart Michael, C. D. Bridges
Publisher: Hayden-McNeill

**Required**

Text 3: Di Fore’s Atlas of Histology with Functional Correlations *either:*
Year/Edition: 2008/11th
Author(s): Victor P. Eroschenko
Publisher: Williams and Wilkins

Or

Di Fore’s Atlas of Histology with Functional Correlations
Year/Edition: 2012/12th ed
Author(s): Victor P. Eroschenko
Publisher: Williams and Wilkins

**Recommended**

Text 4: Coloring Guide to Anatomy & Physiology
Year/Edition: 1st ed/1995
ISBN Number: 978- 0697171094
Author(s): J. A. and R. J. Stone
Publisher: McGraw-Hill Science/Engineering/Math

**Recommended, Purchase not required**

Text 5: Human Anatomy
Year/Edition: Any
ISBN Number:
Author(s): F. H. Martini, M. J. Timmons –Publisher: Prentice Hall

**Recommended, particularly if student is taking a degree in one of the health professions**

* Atlas of the Skeletal Muscles
Year/Edition: 7th
Author(s): R. J. and J.A. Stone
Publisher: McGraw-Hill Education (ISE Editions)

**Note:** "*clicker* will be used, please purchase on line or at bookstores.

**Required- nonprogrammable calculator with log capability**

Further supplemental materials are NOT required or recommended for this course. Bookstores should not present such material for student purchase.

*BIOL 20500*

**BIOLOGY FOR ELEMENTARY SCHOOL TEACHERS**

Instructor: David Eichinger
Lab Coordinator: Cindy Sheetz
Estimated Enrollment: 200

Text: What is Life? A Guide to Biology with Physiology and 12 month BioPortal access Card which includes the full ebook What is Life 2e w/Physio
Year/Edition: 2013, 2nd edition
ISBN-146413622x
Author(s): Phelan, Jay
Publisher: W.H. Freeman
Or
Loose Leaf text plus 12 month BioPortal Access Card which includes the full ebook What is Life 2e w/Physio
ISBN: 1464136238
Or
12 month BioPortal Access Card includes the full ebook What is Life 2e w/Physio (standalone)
ISBN: 1464132100
Lab Packet: Biology for Elementary School
Publisher: LAD Custom Publishing
Note: The packet is only available for purchase at University Bookstore.

*BIOL 22100
INTRODUCTION TO MICROBIOLOGY
Instructor: Thomas Walter
Lab Coordinator: Iris Sun
Estimated Enrollment: 355
Text: No text is required See syllabus for optional back round texts that some may find helpful.
Note: "i>clicker" will be used, please purchase on line or at bookstores.
Lab Manual: Introduction to Microbiology Required
Year/Edition: 2013
ISBN Number: 978-1-59984-616-3
Author(s): Iris Sun
Publisher: Blue Door Publishing, LLC (800-979-1624)

*BIOL 23000
THE BIOLOGY OF THE LIVING CELL
Instructor: Edward Bartlett
Estimated Enrollment: 300
Text: TBA
Year/Edition:
ISBN Number:
Author(s):
Publisher:

*BIOL 23100
BIOL III: CELL STRUCTURE AND FUNCTION
Instructor: Peter Hollenbeck
Estimated Enrollment: 445
Text: Essential Cell Biology
Year/Edition: 3rd
ISBN Number: 0815341296
Author(s): Alberts, Bray, Hopkin, Johnson, Lewis, Raff, Roberts, Walter
Publisher: Garland Science Press
Required
An e-book is available to purchase or rent at http://store.vitalsource.com/show/978-0-2038-2820-5
*BIOL 23200
LABORATORY BIOL III: CELL STRUCTURE AND FUNCTION
Instructor: John Anderson
Lab Coordinator: Deborah Anderson
Estimated Enrollment: 440

Text: A Laboratory Course in Cell and Molecular Biology
Year/Edition: Current - Diagrams & Class Notes
Author(s): J.N. Anderson
**Required**
May be purchased at Boiler Copy Center

*BIOL 28600
INTRODUCTION TO ECOLOGY AND EVOLUTION
Instructors: Jeff Lucas
Estimated Enrollment: 40
Text: The Economy of Nature
Year/Edition: 2010 or last edition
ISBN:
Author(s): Ricklefs, R.E.
Publisher: WH Freeman

*BIOL 29400
BIOLOGY RESEARCH
Permission of Department required
"There is no textbook required for this course"

*BIOL 29500
SPECIAL ASSIGNMENTS
Permission of Instructor required
"There is no textbook required for this course"

*BIOL 30100
HUMAN DESIGN: ANATOMY AND PHYSIOLOGY I
Instructor: Rupa De
Lab Coordinator: Brent Branstetter
Estimated Enrollment: 360

Text: Principles of Anatomy and Physiology
Year/Edition: 2011/13th
ISBN Number:
Author(s): Tortora and Derrickson
Publisher: Wiley & Sons

Text: Human Anatomy and Physiology Lab Manual
Year/Edition: 2009-2010
ISBN Number: (lab manual only)
Author(s): Sandra Grabowski & Sons
*BIOL 39500
MACROMOLECULES
Instructors: Wen Jiang/Clark Gedney
Estimated Enrollment: 40
"There is no textbook required for this course- Lecture Notes from Instructors"

*BIOL 39500
HOUSEHOLD BIOLOGY & CHEMISTRY
Instructor: Alan Friedman
Estimated Enrollment: 30

#1 Text: Chemistry in The Home (Paperback
Year/Edition: 2008
Author(s): Henry T. Weed
Publisher: Read Books
Required

Since this book is old enough to be in the “public domain”, a free download for the Nook Reader or using Nook software is available from Barnes and Noble at the same link above.
Multiple other on-line versions (including PDF, EPUB and Kindle) are available from The Internet Archive (archive.org) at:
http://www.archive.org/details/cu31924003623521

# 2 Text: A Short History of Nearly Everything
Author: Bill Bryson
Year: 2004
Broadway Books, New York NY
http://www.amazon.com/Short-History-Nearly-Everything/dp/076790818X/ref=tmm_pap_title_0
Required

*BIOL 41500
INTRODUCTION TO MOLECULAR BIOLOGY
Instructor: Stephen Konieczny
Estimated Enrollment: 50
Text: Lewin’s Essential Genes
Year/Edition: 2013/3rd
ISBN Number: 9781449644796
Author(s): J. Krebs, et al
Publisher: Jones & Bartlett
*BIOL 42000  
EUKARYOTIC CELL BIOLOGY  
Instructor: Claudio Aguilar  
Estimated Enrollment: 50  
Text: Molecular Cell Biology  
Year/Edition: 6th  
ISBN Number:  
Author(s): Lodish, et al  
Publisher: W. H. Freeman & Co.

*BIOL 43600  
NEUROBIOLOGY  
Instructors: Daniel Suter and Arthur Rosen  
Estimated Enrollment: 84  
Text: From Neuron to Brain  
Year/Edition: 2012/5th  
ISBN Number: 978-0-87893-609-0  
Author(s): Nicholls, Martin, Wallace and Fuchs  
Publisher: Sinauer (Order direct and save www.sinauer.com)  
Required/Hardback

*BIOL 43800  
GENERAL MICROBIOLOGY  
Instructors: Louis Sherman/Bruce Applegate/Laszlo Csonka  
Estimated Enrollment: 130  
Text: Prescott’s Microbiology  
Year/Edition: 9th  
ISBN 978073402406  
Author(s): Willey, Sherwood & Woolverton  
Publisher: McGraw-Hill  
(More text options will be coming this summer 2013)

*BIOL 43900  
LABORATORY IN GENERAL MICROBIOLOGY  
Instructor: Thomas Walter  
Estimated Enrollment: 75  
No text is required. See syllabus for optional back round texts that some may find helpful  
~Lab Manual available for purchase at CopyMat/Chauncey Hill Mall ~

*BIOL 44100  
BIOLOGY SENIOR SEMINAR IN GENETICS  
Instructor: Henry Chang  
Estimated Enrollment: 20  
Textbook: ~There is no textbook required for this course~
*BIOL 44201
INTRODUCTORY MODULE: PROTEIN EXPRESSION
Instructor(s): Sue Karcher
Estimated Enrollment: 40
~Lab Manual available to download from BlackBoard.~

*BIOL 44202
ANIMAL PHYSIOLOGY
Instructor: Elwood Walls
Estimated Enrollment: 13
Textbook: ~No textbook required / Lab Manual provided~

*BIOL 44203
BACTERIAL SYNTHETIC GENETICS LABORATORY
Instructor: Barry Wanner
Estimated Enrollment: 15
~There is no textbook required. Materials will be provided via a wiki and internet~

*BIOL 44205
INTRODUCTION TO LABVIEW
Instructor: Clark Gedney
Estimated Enrollment: 8
~There is no textbook required for this course/lab manual provided~

*BIOL 44207
PROTEIN STRUCTURE LABORATORY
Instructor: Clark Gedney
Estimated Enrollment: 12
Text: Protein Structure & Function
Year/Edition: 2004
ISBN: 0-87893-663-7
Author(s): Gregory Petsko & Dagmar Ringe
Publisher: New Science Press

*BIOL 44215
MULTIDISCIPLINARY DESIGN OF SYSTEMS & DEVICES FOR PHYSIOLOGY MEASUREMENTS
Instructor: Nancy Pelaez
Estimated Enrollment: 20
While not required, a recommended physiology text for reference is:
Text: Animal Physiology
Year/Edition: 2012
Author(s): Hill, Wyse and Anderson Publisher Sinaure
Or
Silverthorn, Human Physiology: An Integrated Approach, 5/E. Pearson Benjamin Cummings 2010
Additional instructional materials will be posted on Blackboard or provided online at
http://wiki.bio.purdue.edu/MultidiscPhysiolLab/
*BIOL 44400
HUMAN GENETICS
Instructor: Susan Karcher
Estimated Enrollment: 60
Text: Thompson & Thompson Genetics in Medicine
Year/Edition: 7th Edition (or most recent edition)-With Student Consult Online Access
ISBN Number:
Author(s): Nussbaum, et al
Publisher: Elsevier

*BIOL 49400
BIOLOGY RESEARCH
Permission of Department required
"There is no textbook required for this course"

*BIOL 49800
BIOLOGY TEACHING
Permission of department required
"There is no textbook required for this course"

*BIOL 49900
BIOLOGY HONORS THESIS RESEARCH
Permission of Department required
"There is no textbook required for this course"

*BIOL 53300
MEDICAL MICROBIOLOGY
Instructor: Seema Mattoo
Estimated Enrollment: 25
Text: TBA
Year/Edition
ISBN
Authors:
Publisher:

*BIOL 54100
MOLECULAR GENETICS OF BACTERIA
Instructor: Laszlo Csonka
Estimated Enrollment: 20
Text: TBA
*BIOL 54200
LABORATORY IN NEUROPHYSIOLOGY
Instructors: Donald Ready
Estimated Enrollment: 8
*There is no textbook required for this course/lab manual provided*

*BIOL 55900
ENDOCRINOLOGY
Instructor: John Anderson
Estimated Enrollment: 89
*Class Notes; Endocrinology -BIOL 55900; Fall 2013*

*BIOL 58000
EVOLUTION
Instructor: Morris Levy
Estimated Enrollment: 30
Text: Evolution - Required
Year/Edition: 2013/3rd
Author(s): Futuyma
Publisher: Sinauer Associates, Inc.
*Text is required*

*BIOL 59100
FIELD ECOLOGY
Instructors: Nancy Emery
Estimated Enrollment: 20
Text: Practical Field Ecology - A Project Guide
Year/Edition: June 2011
Publisher: Wiley-Blackwell
**Required/paperback**

*BIOL 59500
BIOLOGY TEACHING METHODS FOR SECONDARY SCHOOLS (This course is for Secondary Transition to Teaching and STEM Goes Rural students only)
Instructor: David Eichinger
Estimated Enrollment: 11
Text: Developing Biological Literacy
Year/Edition: 1993, 1st
ISBN Number: 0787201936
Author(s): BSCS
Publisher: Kendall/Hunt Publishing Co.
*BIOL 59500
INTRODUCTION TO BIOINFORMATICS
Instructor: Michael Gribskov
Estimated Enrollment: 2
~There is no textbook required for this course/Papers selected from scientific literature~
Estimated Enrollment: 30

*BIOL 59500
METHODS & MEASUREMENTS IN PHYSICAL BIOCHEMISTRY
Instructor: Cynthia Stauffacher
Estimated Enrollment: 28
Text: TBA
Year/Edition: 
ISBN
Author(s): 
Publisher:

*BIOL 59500
ECOLOGICAL STATISTICS
Instructor: Esteban Fernandez-Juricic
Estimated Enrollment: 20
Text: A Primer of Ecological Statistics
Authors: Nicholas J. Gotelli, Aaron M Ellison
Year/Edition: 2004
STATISTICA-software for statistical analysis can be purchased from http://www.onthehub.com/statsoft/
Students are encouraged to bring a laptop with STATISTICA to class to learn how to run statistical analyses.
*Text and STATISTICA are required

*BIOL 59500
Neural Mech Health & Disease
Instructor: Ed Bartlett
Estimated Enrollment: 20
Text: No text required

*BIOL 59500
Cell Biology of Plants
Instructors: Dan Szymanski and Christopher Staiger
Estimated enrollment: 20
~There is no textbook required for this course~

*BIOL 60000/BCHM 66400
BIOENERGETICS
Instructor: William Cramer
Estimated Enrollment: 20
~There is no textbook required for this course~
*BIOL 60200
CELLULAR NEUROBIOLOGY
Instructor: Donna Fekete
Estimated Enrollment: 30

Textbook: From Neuron to Brain
Year/Edition: 2012/5th
ISBN Number: 978-0-87893-609-0
Author(s): Nicholls, Martin, Wallace and Fuchs
Publisher: Sinauer (Order direct and save www.sinauer.com)
Required/Hardback

*BIOL 61100
CRYSTALLOGRAPHY OF MACROMOLECULES
Instructor: Michael Rossmann
Estimated Enrollment: 8
*There is no textbook required for this course*

*BIOL 65001
TECHNIQUES IN MOLECULAR BIOLOGY
Instructor: Stanton Gelvin
Estimated Enrollment: 45
*There is no textbook required for this course*

*BIOL 65200
ADVANCED ECOLOGY DISC
Instructor: Nancy Emery, Course Director
Estimated Enrollment: 10
*There is no textbook required for this course*

*BIOL 69100
BIOLOGICAL RESEARCH METHODS
Permission of Department required
*There is no textbook required for this course*

*BIOL 69500
SPECIAL ASSIGNMENTS
Permission of Instructor required.
*There is no textbook required for this course*

*BIOL 69500
STRUCTURAL BIOLOGY SEMINAR
Instructor: Richard Kuhn
Estimated Enrollment: 15
*There is no textbook required for this course*
**BIOL 69600**
DEVELOPMENT & DISEASE SEMINAR
Instructor: Elizabeth Taparowsky
Estimated Enrollment: 15
~*There is no textbook required for this course~*

**BIOL 69600**
ETHICS: LIFE & RESEARCH LABS
Instructor: Seema Mattoo
Estimated Enrollment: 20
Textbook: TBA

**BIOL 69800**
RESEARCH MS THESIS
~*There is no textbook required for this course~*

**BIOL 69900**
RESEARCH PHD THESIS
~*There is no textbook required for this course~*