DEPARTMENT OF BIOLOGICAL SCIENCES
TEXTBOOK LIST
FALL 2011

*BIOL 11000
FUNDAMENTALS OF BIOLOGY I
Instructor: David H. Bos
Lab Coordinator: Mark Browning
Estimated Enrollment: 1332

Text: Connect+ Raven Stand Alone Code
http://connect.mcgraw-hill.com/class/d_bos_fall_2011
Note: Purchase of the Connect Plus includes the on-line version of the text by Raven!!
May purchase all material directly from URL.

Year/Edition: 2011/9th
ISBN: 00773291X
Author(s): Raven
Publisher: McGraw-Hill

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

*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

*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  
Year/Edition: 9th edition  
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**, Laurie Iten
*BIOL 19500
SPECIAL ASSIGNMENTS
Permission of Instructor Required

"There is no textbook required for this course~

*BIOL 19500
Biodiversity, Ecology and Education
Instructor: Denise Zeilinski
Textbook: Life - The Science of Biology
Year/Edition: 9th edition
Author(s): Sadava et al.
Publisher: Sinauer

BIOL 19500
CASPIE INTRODUCTORY LABORATORY
Instructor: Stephanie Gardner
Estimated Enrollment: 22

"There is no textbook required for this course. There will be a lab manual for this course~

*BIOL 19700
BIOLOGY FRESHMAN HONORS SEMINAR
Instructor: Richard Howard
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
Year/Edition: 2011
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

Optional, not required
Text 3: Human Anatomy
Year/Edition: Any
ISBN Number:
Author(s): F. H. Martini, M. J. Timmons
Publisher: Prentice Hall

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

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: 720

Required
Text 1: Lecture Notes
Year/Edition: 2011
ISBN Number:
Author(s): C. D. Bridges
Publisher: Hayden-McNeill

Required
Text 2: Lab Manual
Year/Edition: 2011
ISBN Number:
Author(s): Stuart Michael, C. D. Bridges
Publisher: Hayden-McNeill

Required
Text 3: Di Fore’s Atlas of Histology with Functional Correlations
Year/Edition: 2007/11th or earlier
ISBN Number: 978-0781770572
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, particularly if student is taking a degree in one of the health professions**

Text 5: Atlas of the Skeletal Muscles
Year/Edition: 6th /2008
ISBN Number: 978-0071283595
Author(s): R. J. and J.A. Stone
Publisher: McGraw-Hill Education (ISE Editions)

**Optional, not required**

Text 6: Human Anatomy
Year/Edition: Any
ISBN Number: 
Author(s): F. H. Martini, M. J. Timmons
Publisher: Prentice Hall

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

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

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BIOL 20500
BIOLOGY FOR ELEMENTARY SCHOOL TEACHERS
Instructor: David Eichinger
Lab Coordinator: Dan Harmeson
Estimated Enrollment: 250

Year/Edition: 2011
Author(s): Phelan, Jay
Publisher: W.H. Freeman

Lab Packet: Biology for Elementary School
Publisher: LAD Custom Publishing
**Note: The packet is only available for purchase at University Bookstore.**

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BIOL 22100
INTRODUCTION TO MICROBIOLOGY
Instructor: Thomas Walter
Lab Coordinator: Iris Sun
Estimated Enrollment: 230

Text: *Textbook options will be discussed during the first day of class. Note: "i>clicker" will be used, please purchase on line or at bookstores.*

Lab Manual: Introduction to Microbiology
Year/Edition: 2011
ISBN Number: 978-1-59984-199-1
Author(s): Iris Sun
Publisher: Blue Door Publishing

*BIOL 23000
THE BIOLOGY OF THE LIVING CELL
Instructor: Edward Bartlett
Estimated Enrollment: 300

Text: Cell and Molecular Biology
Year/Edition: 6th
ISBN Number: 
Author(s): Karp, Gerald
Publisher: Wiley and Sons, Inc.
Recommended

*BIOL 23100
BIOL III: CELL STRUCTURE AND FUNCTION
Instructor: Peter Hollenbeck
Estimated Enrollment: 445

Text: Essential Cell Biology
Year/Edition: 3rd
ISBN Number: 
Author(s): Alberts, Bray, Hopkin, Johnson, Lewis, Raff, Roberts, Walter
Publisher: Garland Science Press
Required

*BIOL 23200
LABORATORY BIOL III: CELL STRUCTURE AND FUNCTION
Instructor: John Anderson
Lab Coordinator: Deborah Anderson
Estimated Enrollment: 400

Text: A Laboratory Course in Cell and Molecular Biology
Year/Edition: 2011 - Diagrams & Class Notes
Author(s): J.N. Anderson
Required
May be purchased at Boiler Copy Center

*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 29500
EVOLUTION & ECOLOGY
Instructor: Peter Waddell
Estimated Enrollment: 30

Textbook: Evolution
Year/Edition: 2009/2nd
ISBN Number:
Author(s): Futuyma, Douglas J.
Publisher: Sinauer Associates

*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
Or:
ISBN 97811181115350 (includes: Biology 301 and 302 lab manual, Tortora 13e Binder-Ready version with Atlas a + WileyPLUS
Or:
ISBN 9781118115374 (includes Biology 301 and 302 lab manual, Tortore 13e hardbound book +WileyPLUS+Real Anatomy

Author(s): Tortora and Derrickson
Publisher: Wiley & Sons

Text: Human Anatomy and Physiology Lab Manual
Year/Edition: 2009-2010
ISBN Number: 9780470889572 (lab manual only)
Author(s): Sandra Grabowski
Publisher: Wiley & Sons

*BIOL 39500
SPECIAL ASSIGNMENTS
Permission of Instructor required

~There is no textbook required for this course~

*BIOL 39500
MACROMOLECULES
Instructors: Dinesh Yernool/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

Text: Chemistry in The Home (Paperback)
Year/Edition:
ISBN Number:
Author(s): Henry T. Weed
Publisher:

Text: A Short History of Nearly Everything
Author: Bill Bryson
http://www.amazon.com/Short-History-Nearly-Everything/dp/076790818X/ref=tmm_pap_title_0

Required-may be purchased at amazon.com

BIOL 41500
INTRODUCTION TO MOLECULAR BIOLOGY
Instructor: Stephen Konieczny
Estimated Enrollment: 50

Text: Lewin’s Essential Genes
Year/Edition: 2010/2nd
ISBN Number: 9780763794507
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: 2001/4th
ISBN Number: 0-87893-439-1
Author(s): Nicholls, Martin, Wallace and Fuchs
Publisher: Sinauer
Required/Hardback
*BIOL 43800
GENERAL MICROBIOLOGY
Instructors: Louis Sherman/Bruce Applegate/Laszlo Csonka
Estimated Enrollment: 130

Text: Prescott’s Microbiology *(w/bound in Connect + Access Card)*
Year/Edition: 8th
ISBN: 0077473345 9780077473341
Author(s): Willey, Sherwood & Woolverton
Publisher: McGraw-Hill

Text: Prescott’s Microbiology *(Connect + Standalone Access Card)*
Year/Edition: 8th
ISBN: 007747287X 9780077472870
Author(s): Willey, Sherwood & Woolverton
Publisher: McGraw-Hill

*BIOL 43900
LABORATORY IN GENERAL MICROBIOLOGY
Instructor: Thomas Walter
Estimated Enrollment: 50

~*Lab Manual available for purchase at CopyMat/Chauncey Hill Mall ~*

*BIOL 44201
INTRODUCTORY MODULE: PROTEIN EXPRESSION
Instructor(s): Daniel Szeto and Arnold Stein
Estimated Enrollment: 40

~*Lab Manual available to download from BlackBoard. ~*

*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 44204
LABORATORY IN ANIMAL CELL CULTURE
Instructors: Stephen Konieczny and Elizabeth J. Taparowsky
~*There is no textbook required*~
*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 44208
DNA SEQUENCING LAB
Instructor: Arnold Stein
Estimated Enrollment: 14

“There is no textbook required for this course/lab manual provided”

*BIOL 44209
EXPLORING THE LIVING CELL
Instructor: Yukiko Mizukami
Estimated Enrollment: 6

“There is no textbook required for this course/lab manual provided”

*BIOL 44210
INTRODUCTION TO DNA SEQUENCES
Instructor: Peter Waddell
Estimated Enrollment: 15

“There is no textbook required (guidelines provided)”
*BIOL 44400
HUMAN GENETICS
Instructor: Susan Karcher
Estimated Enrollment: 49

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 47800
INTRODUCTION TO BIOINFORMATICS
Instructor: Michael Gribskov
Estimated Enrollment: 17

Text: Understanding Bioinformatics
Year/Edition:
ISBN Number:
Author(s): Marketa Zvelebil and Jeremy Baum
Publisher: Garland Science
Paperback

BIOL 49300/PSY 49400
INTRODUCTION TO ETHOLOGY
Instructor: Jacqueline Emmerton
Estimated Enrollment: 40

Text: Perspectives on Animal Behavior
Year/Edition: 2010/3rd
ISBN Number:
Author(s): Goodenough, J., McGuire, B., and Jakob, E.
Publisher: Wiley
*BIOL 49400  
BIOLOGY RESEARCH  
Permission of Department required

~There is no textbook required for this course~

*BIOL 49500  
SPECIAL ASSIGNMENTS  
Permission of Instructor required

~There is no textbook required for this course~

*BIOL 49800  
BIOLOGY TEACHING  
Permission of Instructor 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: Barry Wanner  
Estimated Enrollment: 25

Text: Bacterial Pathogenesis: A Molecular Approach
Year/Edition: 3rd
Authors: Brenda A. Wilson, University Of Illinois at Urbana-Champaign  
Abigail A. Salyers, University Of Illinois at Urbana-Champaign  
Dixie D. Whitt, University Of Illinois at Urbana-Champaign  
Malcolm E. Winkler, Indiana University Bloomington

*Required
*BIOL 54100
MOLECULAR GENETICS OF BACTERIA
Instructor: Laszlo Csonka
Estimated Enrollment: 20

Text: Molecular Genetics of Bacteria
Year/Edition: 3rd
ISBN Number: 1555813992
Author(s): Larry Snyder and Wendy Champness
Publisher: ASM Press Washington DC

*BIOL 54200
LABORATORY IN NEUROPHYSIOLOGY
Instructors: Stephanie Gardner and Donald Ready
Estimated Enrollment: 16

'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 2008~

*BIOL 57300
MOLECULAR BIOLOGY OF ANIMAL CELLS
Instructor: Arnold Stein
Estimated Enrollment: 50

~There is no textbook required for this course~
BIOL 58500
ECOLOGY
Instructors: Richard Howard and Nancy Emery
Estimated Enrollment: 44
Text: TBA

BIOL 59500
SPECIAL ASSIGNMENTS
Consent of Instructor Required
Estimated Enrollment: --

~There is no textbook required for this course~

BIOL 59500
TEACHING EVOLUTION
Instructor: Nancy Pelaez
Estimated Enrollment: 15

Textbook: Evolution
Year/Edition: 2001
ISBN 0060199067
Author: Carl Zimmer
Publishers: Harper Collins New York, NY
*Text is required*

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):
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~
*BIOL 59500
DEVELOPMENTAL BIOLOGY
Instructor: Daniel Szeto
Estimated Enrollment: 30

Text 1: Principles of Development
Year/Edition: 2007-3rd
ISBN Number:
Author(s): Lewis Wolpert
Publisher: Oxford

Text 2: Bioethics and the New Embryology
Year/Edition: 2005
ISBN Number:
Author(s): Scott F. Gilbert, Anna L. Tyler, and Emily J. Zackin
Publisher: Sinauer Associates, Inc.

Every student should also have a set of colored pencils, the bookstores should put those all together.

*BIOL 59500
METHODS & MEASUREMENTS IN PHYSICAL BIOCHEMISTRY
Instructor: Cynthia Stauffacher
Estimated Enrollment: 28

Text: Principles of Physical Biochemistry
Year/Edition: 1998
ISBN
Author(s): K.E. VanHolde, W.C. Johnson and P.S. Ho
Publisher: Prentice Hall

*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
*Text is required
*BIOL 59700
Sex and Evolution
Instructor: Richard Howard
Estimated Enrollment: 28

Text: Sexual Selection
Author: Malte Andersson
Publisher: Princeton University Press/1994
*Text is required*

*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: The Neuron: Cell and Molecular Biology
Year/Edition: 3rd edition
ISBN Number:
Author(s): Irwin B. Levitan and Leonard K. Kaczmarek
Publisher: Oxford University Press
Required textbook

*BIOL 61100
CRYSTALLOGRAPHY OF MACROMOLECULES
Instructor: Michael Rossmann
Estimated Enrollment: 8

~There is no textbook required for this course~

*BIOL 65200
ADVANCED ECOLOGY DISC
Instructor: Kerry Rabenold, 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: Wen Jiang
Estimated Enrollment: 15

~There is no textbook required for this course~

*BIOL 69600
STRUCTURAL BIOLOGY/BIOPHYSICS SEMINAR
Instructor: Alan Friedman
Estimated Enrollment: 15

~There is no textbook required for this course~

*BIOL 69600
DEVELOPMENT & DISEASE SEMINAR
Instructor: Henry C. Chang
Estimated Enrollment: 15

~There is no textbook required for this course~

*BIOL 69600
DEVELOPMENT & DISEASE SEMINAR
Instructor: Elizabeth J. Taparowsky
Estimated Enrollment: 14

~There is no textbook required for this course~
*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~