

Biology 2010C: General Biology
Fall 2013

MWF 8:30 - 9:20 AM in CSB 101 (Section 0001)
MWF 2:30 - 3:20 PM in CSB 101 (Section 0004)

Instructor: Dr. Christa Diercksen

Office: Biology 201A

Phone: 407-823-6708

Email: christa.diercksen@ucf.edu

Office Hours (in 201A):

- Monday: 10:00 a.m.-12:00 p.m.
- Wednesday: 11:30 a.m.-1:30 p.m.
- Friday: 1:00 p.m.-2:00 p.m.
- Tuesday/Thursday: By appointment only
- No need for an appointment during regular office hours. First come, first serve!
- Due to the large class size, if other students are waiting, please keep time to 10-15 minutes/student. For longer meetings, appointments for other times are available upon request.

E-mail is the fastest and best way to communicate with Dr. Diercksen

- Faculty can ONLY communicate with students via Knightmail. Please do NOT send messages to Dr. Diercksen or Ms. Yeargain through Webcourses. We will not respond to Webcourses messages.
 - You must set up a Knights account at www.knightsemail.ucf.edu.
 - If you email from an account other than Knightmail, we will **not** be able to respond to you.
- Please include your course section # and a brief description of your issue/question in the subject line and sign off your email with your full name.

Laboratory Sections:

- 2-hour sessions each Tuesday - Friday in Biology Building, Room BL206 or BL211
- **Laboratory/Course Coordinator:** Michele Yeargain
 - **Office:** BL201B
 - **Email:** michele.yeargain@ucf.edu

Required books/materials:

1. *Biology, 9th Edition (Part 1: Custom Edition)* Campbell, N. and J. Reece. 2011. Pearson Benjamin/Cummings Publishing Company, Inc. (ISBN: 978-0-1265-133780)
 - OR the full edition of *Biology, 9th Edition* by Campbell and Reece (2011) (ISBN: 978-0-32155-8237)
 - If you choose to use an earlier and/or international edition of Campbell's Biology, you are responsible for all needed changes to content and page numbers.
2. *Laboratory Manual for Biology I, BSC 2010*, Thomas et. al. 2011. Available for free download online in Webcourses.
3. iClicker 2 (ISBN: 1429280476)

Webcourses:

- Through Webcourses, you may download and/or view:
 - **Course syllabus with course schedule (mandatory)**
 - **Laboratory syllabus and laboratory worksheets (mandatory)**
 - Lecture Powerpoints
 - Optional lecture worksheets/extra course review materials
 - Animations/videos used in lecture
 - Web links for relevant course topics
 - Course alerts and announcements
 - Discussion boards for posting any course questions or concerns to peers.
 - Please be aware that Dr. Diercksen, Ms. Yeargain and the TA's do not routinely monitor these boards. If you have a question specifically for us or do not get a peer response, please email the appropriate person directly.
 - Your lecture exam grades and clicker points as they become available through the semester

To Access Webcourses:

- From <http://webcourses.ucf.edu>
 - Enter PID user name and password
- For technical support, please contact Online@UCF Support. Dr. Diercksen and Ms. Yeargain are not able to provide technical support.
 1. Visit <http://onlinesupport.cdl.ucf.edu/support/>
 2. Call 407-823-0407
 3. Email onlinesupport@ucf.edu
 - Live Support: M-F: 8:30 a.m.-4:30 p.m.
 - Evening/Weekend Email Support

Course Twitter Account:

- If you have a Twitter account, you may choose to follow @DiercksenBio1
- Follow course updates, alerts and random interesting biology items
- Please feel free to tweet your own appropriate comments about the course and biology.
- Important course information will still be posted on Webcourses for those that do not use Twitter.

Classroom Conduct: By enrolling at UCF, all students have agreed to abide by the Golden Rule. Please become familiar with this document at: <http://www.goldenrule.sdes.ucf.edu>

This is a very large class with inherent challenges due to its size. For the best learning environment for everyone, please:

- Arrive and depart on time
- **No talking during class**
- Place cell phones on vibrate
- Students who fail to follow these basic courtesy rules will be asked to leave.
- Laptop use is allowed for course related use only.
- Tape recording of lectures is permitted.
- All materials, including notes, Power Point slides, tests, labs, lab questions, and practice questions are copyrighted by Dr. Christa Diercksen and Pearson Benjamin/Cummings 2012.

iClicker2 Information:

- Our course will be using the iClicker2 classroom response system for class participation and/or assessment of group class knowledge for key lecture concepts.
- During each lecture class, there will be iClicker questions incorporated into the Powerpoint slides.
 - Students will earn points towards the iClicker component of their course grade through these questions.
- **You must have purchased AND registered your iClicker2's by the end of the second week of class (8/30/13).**
 - **We will begin using the clickers and gaining points on Wednesday, 9/4/13.**
- Students must register their iClicker2's to ensure proper credit of iClicker points.
 - Please visit www.iclicker.com and access the "Register" tab to register your clicker for our course.
 - Please use your **NID#** and the **same name you use for registration with UCF** when registering.
 - If you have previously used your iClicker2 in another course or are using it this semester in another course, you still need to register it specifically with our course to receive credit for your responses for BSC202C.
- Students are responsible for bringing their iClicker2's to EVERY lecture session.
 - **You must be present for the lecture section you are registered for and using your own registered iClicker to receive credit for these questions.**
 - Please bring extra batteries
 - There will be NO loaner iClickers available.
 - There will be NO alternative method (e.g. Writing answers down on paper and turning in) for recording your responses other than using the iClicker2 remote.
 - Please use the default **frequency of AA** for our class unless you are told otherwise.
- Our class is using the **iClicker2** remote to allow short text and/or numerical responses at times so if you have an older Clicker model, you will need to repurchase or rent the iClicker2 (ISBN: 1429280476).
- If you lose your iClicker2 and purchase a new iClicker2, you must re-register it for our course AND notify Dr. Diercksen or you will not receive credit for any points with the new clicker.
- iClicker points will be tabulated and posted to Webcourses approximately every 2 weeks during the semester.
- Due to the large number of students/lecture section, missed iClicker points, even for excused absences, can NOT be made up.
 - Please see the grading section below for an explanation of how iClicker points are assessed.

Grading: You receive one grade for BSC 2010 that combines your lecture and laboratory grades.

The lecture grade will be comprised of the following:

1. Five 45-minute, multiple choice exams based on lecture material
 - Your lowest grade from exams 1-5 will be dropped.
2. One required (i.e. Can NOT be dropped or missed) **cumulative** final exam covering material from all chapters covered during the semester plus material from the last few chapters not covered on any previous lecture exam.
3. iClicker questions given during lecture

Course Grade Breakdown:

- 4 counted lecture exams: 10% each
- Final Exam: 25%
- iClicker questions: 5%
 - There will be several iClicker questions per lecture class available. Please respond to as many questions offered/lecture class as you can.
 - By **answering at least 50%** of the iclicker questions offered in a lecture class, you will receive **ONE iclicker point/lecture**.
 - There will be 36 lecture classes (beginning on Wednesday, September 4th) that offer iclicker questions (if a class is cancelled or Dr. Diercksen's iclicker base station receiver does not work for a lecture, the number of classes will be adjusted accordingly).
 - **32 of the 36 lecture class iclicker points will be counted.**
 - If a student does earn 33 or more iclicker points, the extra points will be bonus.
 - Students with documented absences for official University of Central Florida business (such as UCF sponsored trips or athletic events and practices) will have their total iclicker points available adjusted accordingly. These students must give Dr. Diercksen or Ms. Yeargain their official paperwork for these missed lecture classes or point values will not be adjusted.
 - If you have any other documented excuse for missing lecture (please see criteria for missing lecture exams below), please contact Dr. Diercksen for evaluation of the reason for missing lecture and points *may* be adjusted.
 - Any undocumented excuse will NOT be accepted for missing lecture in regards to iclicker points.
- 30%: Laboratory grade
 - Lab grades will be based on quizzes and assignments given during lab.
- At the end of the semester, your score for each of the above components will be added together and converted to a percentage.
- Your final course grade will be awarded using the following scale:
 - A = 90-100%
 - B = 80-89%
 - C = 70-79%
 - D = 60-69%
 - F = 59% and below
- There will be NO additional curving of grades.
- The Withdrawal date is **Monday, October 28, 2013 at 11:59 p.m.**
- In compliance with FERPA (Family Education Rights and Privacy Act), **no grades will be given over the phone or via email** by Dr. Diercksen, Ms. Yeargain or the Biology Department office staff.
 - Please make an appointment with Ms. Yeargain if you need to review and/or discuss your grade.
- **Important: For Biology majors, a grade of "C" or higher is required to advance in your Biology coursework as of August 2012.**

Taking Quizzes/Exams:

- Lecture exams are taken during your registered laboratory section, during your scheduled lab time.
 - Refer to the course schedule for the lecture exam dates (see below).
 - You must wear closed toe shoes to all labs, including exam days.
- The final exam will be given in your lecture classroom according to the UCF Final Exam Schedule for Fall 2013 (see below).
- Failure to take an exam in the correct location and at the correct time will result in a 0 for the exam.
- All exams will use machine-scored scantrons (see below).
- You need to bring a **#2 pencil** and your **valid UCF Student ID card** to all exams including the final exam.
- Your correct name, PID number, and test form (e.g. A, B, C, etc.) must be printed/bubbled on the scantron.
 - Failure to encode the correct information on an exam may result in a 0 on that exam.
- All books, notes and bags must be placed in the front of the room before exams are handed out.
 - You are responsible for your own personal belongings, so please do not bring anything valuable with you to an exam.
- Basic calculators are permitted during exams.
 - All programmable calculators may be checked.
 - Language translators are NOT permitted.
 - Use of a wireless device such as a cell phone as a calculator is NOT permitted.
- Students arriving more than 15 minutes after the start of an exam will not be allowed to take the exam.
- Lavatory use during an exam requires the escort of a teaching assistant if available.
- No one may leave a 45-minute exam until the exam has concluded for the entire class.
- Once you begin an exam, you are not entitled to take a make-up exam if you stop for any reason.

Scantron Policy:

- You are required to supply scantrons for your exams.
- **Seven (7) scantrons** with no markings on them must be given to your teaching assistant in lab by the end of second week of the semester.
 - If no scantrons are submitted, you will receive a 0 on Exam 1.
 - You will be provided exact scantron submittal instructions (color, etc.) in your laboratory section.

Make-Up Exams:

- For known conflicts ahead of time, you must contact Michele Yeargain (michele.yeargain@ucf.edu) to arrange for a make-up exam within **one week** prior to the exam.
- For all valid excuses, Michele must see the excuse note *before* you schedule the exam make-up.
- For emergencies on the day of the exam, you must email Michele Yeargain within 24 hours of the start of the exam and provide a written excuse within 48 hours.
 - Excuses will NOT be accepted after this time.

- Valid excuses must be from an appropriate authority (doctor, police, judge, UCF sporting event, etc.) and on letterhead with original signature and date.
- Excuses from relatives (including relatives who are doctors, dentists, attorneys, etc.) are NOT accepted.
- Students can ONLY make up an exam during the week of the NEXT scheduled exam.
- Make up policy example:
 - You have a note from your doctor stating that you had the flu during Exam 1 at your regular lab time at 8:30 on Tuesday, September 3rd, 2013. You will then take make-up Exam 1 during the week of September 24-27 when Exam 2 is scheduled (during a different lab section than your own) after arranging the make up time with Ms. Yeargain.

Reviewing Lecture Exams, Final Exam and Grades:

- Scantrons will NOT be returned to students; Students will receive instead an individual test report sheet with all correct and incorrect responses indicated.
 - Test reports will be returned during your laboratory section.
 - Exams, quiz results and assignments (lecture and lab) must be reviewed within TWO weeks from the time grades are provided and BEFORE the start of the next exam.
 - Copying information from the exams is prohibited during post-exam viewing.
 - You must resolve any grade concerns within the two-week time period.
 - Review of previous exams and quizzes will NOT be allowed during finals week or after the Final Exam has been taken.
 - The Final Exam may be reviewed for a period of ONE MONTH following the date grades are posted by the Registrar.
 - After these dates, no additional review will be allowed.

Academic Integrity:

- Cheating on lecture exams or on lab assignments will not be tolerated.
- Penalties for cheating can include:
 - A failing grade on an assignment or in the course
 - Suspension or expulsion from the university
 - A "Z Designation" on a student's official transcript indicating academic dishonesty
 - For more information about the Z Designation, see <http://z.ucf.edu/>
 - In BSC 2010, you will receive a ZF for academic dishonesty
- Student who are caught cheating will be immediately referred to the UCF Disciplinary Action Committee.
- Cheating includes but is not limited to:
 - Copying from another student's exam
 - Signing in for another student for an exam
 - Falsifying information such as notes related to absences
 - Using another student's iClicker for them in their absence
 - Plagiarism on any written assignments
 - Note: Turnitin.com will be used for written assignments.

Disability Access Statement: The University of Central Florida is committed to providing reasonable accommodations for all persons with disabilities.

- This syllabus is available in alternate formats upon request.

- Students with disabilities who need accommodations in this course must contact Dr. Diercksen and Michele Yeargain at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has made this request.
- Students who need accommodations must be registered with Student Disability Services, Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

Laboratories:

- Students are **REQUIRED** to attend ALL laboratory sessions for which they are registered.
- See your lab syllabus (available on Webcourses) for more detailed lab and lab absence policies.
- Laboratory sessions **CAN NOT** be made up.
 - If you have a valid, documented reason for missing a laboratory session, the excuse must be submitted on letterhead with original signature and date (from doctor, police, judge, official UCF event, etc.).
 - You must contact your lab instructor or Michele Yeargain within 48 hours of the start of the lab.
- Attendance will be taken at the beginning and end of each lab.
 - If you leave during a lab without permission, it will be considered an unexcused absence.
- Quizzes for each lab will occur at the beginning of each lab session after any assignments have been collected.
- It is advisable to wear old clothes to lab.
- **Closed-toe shoes are required by OSHA.**
 - If you lack closed-toe shoes, the instructors will not allow you to enter the lab and it will be an **unexcused** absence.
- There will be no smoking, eating or drinking in the laboratory.

Help:

- Tutoring and Supplemental Instruction (SI) sessions are available through the Student Academic Resource Center (SARC).
- Announcements will be made when regularly scheduled tutoring sessions will be held as well as special review sessions when appropriate.
- For more information on services provided by SARC, please visit their website at:
 - www.sarc.sdes.ucf.edu
 - SARC is located in Room 113 in Howard Phillips Hall.
- Dr. Diercksen, the lecture coordinator, and the graduate teaching assistants are also available to answer your questions.
- **Please ask for help if you need it!**

Tentative Lecture Schedule Fall 2013 (subject to change): Please read the assigned chapters listed below before coming to the lecture. Note all chapters refer to *Biology, 9th Edition* by Campbell, N. and J. Reece. 2011.

August 19: Course Introduction and Information
August 21: Chapter 1 Themes of Life
(Drop/Swap Deadline is August 22nd until 11:59 PM)
August 23: Chapter 2 Chemical Context of Life
(Add Deadline is August 23rd until 11:59 PM)

August 26 Chapter 2 More Chemistry
August 28 Chapter 3 Water
August 30 Chapter 4 Carbon

Exam 1 given on Chapters 1-4 in labs this week.

September 2 **Labor Day Holiday: No lecture**
September 4 Chapter 5 Large Biological Molecules
September 6 Chapter 5 More Large Biological Molecules

September 9 Chapter 6 Tour of the Cell
September 11 Chapter 6 More Cell
September 13 Chapter 7 Membrane Structure and Function

September 16 Chapter 7 More Membranes
September 18 Chapter 8 Introduction to Metabolism
September 20 Chapter 8 More Metabolism

Exam 2 given on Chapters 5-7 in labs this week.

September 23 Review for Exam 2
September 25 Chapter 9 Cell Respiration and Fermentation
September 27 Chapter 9 More Cell Respiration

September 30 Chapter 10 Photosynthesis
October 2 Chapter 10 More Photosynthesis
October 4 Chapter 12 Cell Cycle

Exam 3 given on Chapters 8-10 in labs this week.

October 7 Review for Exam 3
October 9 Chapter 12 More Cell Cycle
October 11 Chapter 13 Meiosis

October 14 Chapter 13 More Meiosis
October 16 Chapter 14 Mendel
October 18 Chapter 14 More Mendel

October 21 Chapter 15 Chromosomal Inheritance
October 23 Chapter 15 More Chromosomal Inheritance
October 25 Chapter 14/15 Genetic Problems; Review for Exam 4

Exam 4 given on Chapters 12-15 in labs this week.

October 28	Chapter 16	Molecular Basis of Inheritance
October 30	Chapter 16	More Molecular Basis of Inheritance
November 1	Chapter 17	From Gene to Protein
November 4	Chapter 17	More Gene to Protein
November 6	Chapter 18	Regulation of Gene Expression (<i>18.1 & 18.2 up to and including Epigenetic Inheritance on page 358</i>)
November 8	Chapter 18	More Regulation of Gene Expression

Exam 5 given on Chapters 16-18 in labs this week.

November 11	Veteran's Day Holiday: No lecture	
November 13	Chapter 19	Viruses
November 15	Chapter 22	Darwinian View of Life

Due to Football Day, there will be NO labs the week of November 19-22

November 18	Chapter 22	More Darwin
November 20	Chapter 23	Evolution of Populations
November 22	Chapter 23	More Evolution of Populations

Due to the Thanksgiving holiday, there will be NO labs the week of November 25-29

November 25	Chapter 24	Origins of Species
November 27	Class cancelled	
November 29	Thanksgiving Holiday: No lecture	

December 2 Review for Final Exam. Final Exam covers Chapters 19, 22-24 PLUS cumulative material from all previous chapters covered this semester (Chapters 1-10, 12-18).

Tentative Laboratory Schedule (Please see more complete lab information in the lab syllabus):

August 20-23: Introduction, Hypothesis Testing

August 27- 30: Laboratory 1: Measurements

Quiz: 10 points

September 3-6: Exam 1 (1st half of lab)

Information Fluency

Special Topics: Plagiarism and Graphing

Assignment: 10 points

September 10-13: Laboratory 2: Microscope

Quiz: 10 points

Critical Thinking: 5 points

September 17-20: Laboratory 3: Osmosis and Diffusion

Quiz: 10 points

- September 24-27:** **Exam 2 (1st half of lab)**
Laboratory 4: Enzymes
Critical Thinking: 5 points
- October 1-4:** **Laboratory 5: Cellular Respiration**
Quiz: 10 points
- October 8-11:** **Exam 3 (1st half of lab)**
Laboratory 6: Mitosis
Critical Thinking: 5 points
- October 15-18:** **Laboratory 7: Meiosis**
Quiz: 10 points
- October 22-25:** **Laboratory 8: Genetics Crosses**
Quiz: 10 points
- October 29-Nov. 1:** **Exam 4 (1st half of lab)**
Real World 1: Evolution
Assignment: 10 points
- November 5-8:** **Laboratory 9: Transcription and Translation**
Quiz: 10 points
- November 12-15:** **Exam 5 (1st half of lab)**
Real World 2
Assignment: 5 points
- November 19-22:** **No Labs, Football Day on Thursday, Nov. 21**
- November 26-29:** **No Labs, Thanksgiving Holiday**

Final Exam:

- Final exam can NOT be dropped or missed.
- Final Exam is given in our lecture room, CSB 101, according to the UCF Final Exam Schedule for Fall 2013.
- You must take the Final Exam for the section in which you are registered unless you have a documented, valid excuse (same rules apply from regular lecture exams).
 - Failure to do so will result in 0 points for the exam.
 - Please contact Michele Yeargain within 2 weeks prior to your final exam date if you wish to be considered for an alternative final exam time and date from your registered section.

Class meeting time: MWF 8:30-9:20 AM (Section 0001):

- **Your Final Exam is Wednesday, 12/4 at 7:00 a.m.-9:50 a.m.**

Class meeting time: MWF 2:30 -3:20 PM (Section 0004):

- **Your Final Exam is Wednesday, 12/4 at 1:00 p.m.-3:50 p.m.**