

**Biology 2010C: General Biology I  
Spring 2014**

**MWF 10:30 AM - 11:20 AM in CSB 101 (Section 0002)  
MWF 12:30 PM - 1:20 PM in VAB 132 (Section 0003)**

**Instructor:** Dr. Christa Diercksen  
**Office:** Biology 201A  
**Phone:** 407-823-6708  
**Email:** christa.diercksen@ucf.edu

**Office Hours** (in 201A):

- Monday: 1:45 p.m.-2:45 p.m.
- Tuesday: 10:30 a.m.-11:30 a.m.
- Wednesday: 1:45 p.m.-2:45 p.m.
- Thursday: 1:30 p.m.-2:30 p.m.
- Friday: 9:00 a.m.-10:00 a.m.
- 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**

- All attempts will be made to answer emails within a 24 hour time period, M-F and Sun. Keep in mind that Dr. Diercksen is off line on Saturdays.
- Faculty can **ONLY** communicate with students via Knightsmail. 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](http://www.knightsemail.ucf.edu).
  - If you email from an account other than Knightsmail, we will **not** be able to respond to you.
- Emails must be written in a professional manner with proper grammar. 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 and PID#.
- Please refer to the BSC 2010 Frequently Asked Questions document provided in Webcourses *before* emailing. Your question may be answered there!

**Laboratory Sections:**

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

**Course Description:**

- *Credit hours:* 4 (3,2)
- *Course Prerequisites:* High school biology or consent of instructor

- *Purpose of the course:* BSC 2010C is for students majoring in biology, those who plan on entering health-related professions and others who require a lab based introductory biology course to complete their degree. Additionally, an introductory, general biology course is the cornerstone and prerequisite for all upper level courses in biology.
- *Course objectives*
  - Introduction to biological terminology
  - Introduction to the scientific process
  - Application of scientific concepts to a laboratory experience
  - Mastery of the broad range of topics of introductory biology necessary as a foundation to more detailed study in advanced biology classes or a pre-health career
- *General Course Topics:*
  - Basic organic chemistry
  - Cell structure, function, reproduction and other processes
  - Metabolism including details of cellular respiration and photosynthesis
  - Mendelian genetics and chromosomal inheritance
  - DNA and Protein Synthesis
  - Control of gene expression
  - Introductory evolutionary theory

### Required books/materials:

1. *Biology, 9<sup>th</sup> Edition (Part 1: Custom Edition)* Campbell, N. and J. Reece. 2011. Pearson Benjamin/Cummings Publishing Company, Inc. (ISBN: 9781256288527)
  - **OR** the full edition of *Biology, 9<sup>th</sup> Edition* by Campbell and Reece (2011) (ISBN: 9780321558237)
  - If you choose to use an earlier, later 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: 9781429280471)

### Webcourses:

- Through Webcourses, you may download and/or view:
  - **Course syllabus with course schedule (mandatory)**
  - Lecture Powerpoints
  - Optional lecture worksheets/extra course review materials
  - Chapter study guides with vocabulary and key concepts
  - 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](mailto: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 (1/17/14).**
  - We will begin using the clickers and gaining points on **Friday, 1/17/14.**
  - If you fail to properly register your clicker within the first 2 weeks, you will NOT receive clicker points for the entire semester!

- If you do not see any clicker points in your Webcourses after the first posting of points, you must contact Dr. Diercksen by email within 2 weeks and address your clicker registration or you will not receive any clicker points.
- Students must register their iClicker2's to ensure proper credit of iClicker points.
  - Please visit [www.iclicker.com](http://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 BSC2010C.
- 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.
- 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 once a week during the semester.
  - It is each student's responsibility to address missing clicker points with Dr. Diercksen within 2 weeks of when the points are posted.
  - Please see the grading section below for an explanation of how iClicker points are assessed.
  - Please note the special section below on excused absences for clicker points.

**Grading:** You receive one grade for BSC 2010C that combines your lecture and laboratory grades at the end of the semester.

- Students are responsible for keeping track of their own grades and identifying issues within 2 weeks of any received grade.
  - Clicker points and lecture exam grades will be posted in Webcourses as a courtesy but are not to be considered official grades.
  - There is a sample grading template in Webcourses that students may use to help track their grades, but this is also NOT to be considered official.

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 37 lecture classes (beginning on Friday, 1/17/14) 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).
    - **33 of the 37 lecture class iclicker points will be counted.**
      - If a student does earn 34 or more iclicker points, the extra points will be bonus and will be reflected in your final clicker grade at the end of the semester.
    - 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 within 2 weeks of missing lecture 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 within 2 weeks 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.
- Final semester grades will be rounded up to the nearest whole number (e.g. 89.5% will round to a 90% and therefore an "A". 89.4% will remain a "B").
- The Withdrawal date is **Tuesday, March 18, 2014 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.**

### **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 Spring 2014 (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 Ms. Yeargain (michele.yeargain@ucf.edu) to arrange for a make-up exam within **one week** prior to the exam.
- For all valid excuses, Ms. Yeargain must see the excuse note *before* you schedule the exam make-up.
- For emergencies on the day of the exam, you must email Ms. 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 on Tuesday, January 21. You will then take make-up Exam 1 during the week of February 11-14 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 2 weeks from the time grades are provided. There are NO exceptions!
  - Copying and/or photographing 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 1 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 Ms. 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.

**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](http://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 Spring 2014 (subject to change):** Please read the assigned chapters listed below before coming to the lecture. Note all chapters refer to *Biology, 9<sup>th</sup> Edition* by Campbell, N. and J. Reece. 2011.

January 6: Course Introduction and Information  
 January 8: Chapter 1 Themes of Life  
**(Drop/Swap Deadline is January 9<sup>th</sup> until 11:59 PM)**  
 January 10: Chapter 2 Chemical Context of Life  
**(Add Deadline is January 10<sup>th</sup> until 11:59 PM)**

January 13 Chapter 2 More Chemistry  
 January 15 Chapter 3 Water  
 January 17 Chapter 4 Carbon

**January 20 MLK Holiday**

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

January 22 Chapter 5 Large Biological Molecules  
 January 24 Chapter 5 More Large Biological Molecules

January 27 Chapter 7 Membrane Structure and Function (NOTE: Chapters out of order!)

January 29 Chapter 7 More Membranes  
 January 31 Chapter 8 Introduction to Metabolism

February 3 Chapter 8 More Metabolism  
 February 5 Chapter 6 Tour of the Cell  
 February 7 Chapter 6 More Cell

February 10 Review for Exam 2

**Exam 2 given on Chapters 5-8 in labs this week.**

February 12 Chapter 9 Cell Respiration and Fermentation  
 February 14 Chapter 9 More Cell Respiration

February 17 Chapter 10 Photosynthesis  
 February 19 Chapter 10 More Photosynthesis  
 February 21 Chapter 12 Cell Cycle

February 24 Review for Exam 3

**Exam 3 given on Chapters 9-10 in labs this week.**

February 26 Chapter 12 More Cell Cycle  
 February 28 Chapter 13 Meiosis

**March 3-7: Spring Break: NO CLASSES!!!!**

March 10: Chapter 13 More Meiosis  
 March 12: Chapter 14 Mendel  
 March 14: Chapter 14 More Mendel

March 17	Chapter 15	Chromosomal Inheritance
March 19	Chapter 15	More Chromosomal Inheritance
March 21	Chapter 14/15	Genetic Problems; Review for Exam 4
March 24	Chapter 16	Molecular Basis of Inheritance
<b>Exam 4 given on Chapters 12-15 in labs this week.</b>		
March 26	Chapter 16	More Molecular Basis of Inheritance
March 28	Chapter 17	From Gene to Protein
March 31	Chapter 17	More Gene to Protein
April 2	Chapter 18	Regulation of Gene Expression ( <i>18.1 &amp; 18.2 up to and including Epigenetic Inheritance on page 358</i> )
April 4	Chapter 18	More Gene Expression
April 7	Review for Exam 5	
<b>Exam 5 given on Chapters 16-18 in labs this week.</b>		
April 9	Chapter 22	Darwinian View of Life
April 11	Chapter 22	More Darwin
April 14	Chapter 23	Evolution of Populations
April 16	Chapter 23	More Evolution of Populations
April 18	Chapter 24	Origins of Species
April 21	Review for Final Exam. Final Exam covers Chapters 22, 23 and 24 PLUS cumulative material from all previous chapters covered this semester (Chapters 1-10, 12-18).	

### **Final Exam:**

- Final exam can NOT be dropped or missed.
- Final Exam is given in our lecture room, CSB 101 (section 2) or VAB 132 (section 3) according to the UCF Final Exam Schedule for Spring 2014.
- 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.

### **MWF 10:30-11:20 AM Lecture Time (Section 0002):**

- **Your Final Exam is Monday, 4/28/14 at 10:00 a.m.-12:50 p.m. in CSB 101.**

### **MWF 12:30 -1:20 PM Lecture Time (Section 0003):**

- **Your Final Exam is Friday, 4/25/14 at 10:00 a.m.-12:50 p.m. in VAB 132.**