

BSC 2010M: General Biology I

Fall 2015

MWF 11:30 AM-12:20 PM in CSB 101 (0003)
MWF 1:30 PM-2:20 PM in CSB 101 (0004)

Instructor: Dr. Christa Diercksen
Office: Biology 201A
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Email: christa.diercksen@ucf.edu

Office Hours (in BIO 201A):

- Monday: 9:00-11:00 AM
- Tuesday: 10:00 AM-12:00 PM
- Wednesday: 10:00-11:00 AM
- Thursday: Virtual in 2nd Life
- Friday: 9:00-11:00 AM: Advising priority for Biology majors 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 may be 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. Dr. Diercksen is off line on Saturdays.
- Faculty can ONLY communicate with students via Knightmail.
 - 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.
- Emails must be written in a professional manner with proper grammar. Please include your course section # or lecture time and a brief description of your issue/question in the subject line and sign off your email with your full name, PID and NID.
- Please refer to the BSC 2010 Frequently Asked Questions document provided in Webcourses *before* emailing. Your question may be answered there!

Laboratory and Course Coordinator: Michele Yeargain

- **Office:** Biology 201B
- **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 2010 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. Textbook:

- Campbell's *Biology*, 10th ed. is the required textbook for our course. There are many versions of Campbell's *Biology* available from various sources but for the Fall 2015 semester, you **MUST** purchase the virtual lab access for the laboratory portion of our course and this lab access will include the full e-text version of Campbell's *Biology*.
- It is strongly recommended (for the best price) that students purchase the lab access/e-text through the following UCF custom link:
 - http://www.pearsoncustom.com/fl/ucf_bio/
- Students who wish to upgrade to a physical loose-leaf version of the textbook can do so through this link.
- *Note:* The UCF bookstore does have access cards for purchasing the e-text with lab access as well as the loose leaf and hard copy versions of the text with lab access but your cost will be higher than using the online link provided above.
 - Campbell's *Biology* E-text w/ Lab Access; ISBN 9781323250235
 - Campbell's *Biology* w/ Lab Access Hardcopy text; ISBN 9781323191392
 - Campbell's *Biology* w/ Lab Access Loose Leaf text; ISBN 9781323228708
- **Important:** If you purchase the textbook from any other source or if you already own the textbook, you will still need to purchase the lab access through the above link or through the UCF bookstore for the Fall 2015 semester.

2. Classroom response system: iClicker 2; ISBN: 9781429280471

Laboratory:

- There is a REQUIRED laboratory component to BSC 2010.
- The laboratory will be completed entirely online in the virtual Second Life community.
- All information concerning the laboratory will be covered in the separate laboratory syllabus found in Webcourses.

Webcourses:

- Through Webcourses, you may download and/or view:
 - **Course syllabus with course schedule (mandatory)**
 - Lecture Powerpoints
 - Exam question review Powerpoints
 - 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. Lab grades will be loaded into Webcourses at various key intervals during the semester.

To Access Webcourses:

- From <https://webcourses.ucf.edu>
 - Enter NID and NID password
- For technical support, please contact Online@UCF Support. Dr. Diercksen and Ms. Yeargain are not able to provide technical support for Webcourses.

- Visit <http://onlinesupport.cdl.ucf.edu/support/> or call 407-823-0407 or email: onlinesupport@ucf.edu
 - Live Support: M-F: 8:30 a.m.-4:30 p.m.
 - Evening/Weekend Email Support

Important Information for Financial Aid Students:

- Faculty members are required to document students' academic activity at the beginning of each course in order for proper distribution of financial aid.
- In order to document that you began this course, please complete the following academic activity by the end of the first week of classes, or as soon as possible after adding the course, **but no later than Friday, August 28, 2015**. Failure to do so will result in a delay in the disbursement of your financial aid.

Academic Activity Assignment: Syllabus Quiz

- Please access Webcourses and complete the 10 question Syllabus Quiz under the Quiz section.
- The due date for the quiz is **Friday, August 28, 2015 at 5:00 PM**.
- **While the academic activity assignment is vital for financial aid students, EVERY student will receive a bonus point on the Final Exam for completing the Syllabus Quiz.**

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 in Webcourses announcements for those that do not use Twitter.

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

Course Grade Breakdown:

- Laboratory: 25%
- 3 counted lecture exams: 15% each
- Final Exam: 20%
- iClicker questions: 10%
- Students are responsible for keeping track of their own grades and identifying issues within 2 weeks of any received grade.
 - Grades will be posted in Webcourses as a courtesy but are NOT to be considered official grades.
- 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 round down to an 89% and will remain a "B"). This is a definitive cut off and no grades will be altered unless there is a documented error in the grade calculation that would change a student's course letter grade.

Other important grade information:

- The Withdrawal date for the Fall 2015 semester is **Monday, November 2, 2015 at 11:59 PM**. Please refer to the Undergraduate Catalog for detailed information about the implications of the withdrawal date.
 - Students must initiate withdrawal themselves. Dr. Diercksen will NOT automatically withdraw any student from the course. Late and medical withdrawals and Incompletes are granted for only very compelling and documented reasons.

- 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.
 - Additionally, grades will not be discussed with any individual other than the student (including parents) unless the student has provided written documentation permitting the discussion to Dr. Diercksen or Ms. Yeargain.
- For Biology majors, a grade of “C” or higher is required to advance in your Biology coursework. For other majors, please check with your major’s department for more information.

Laboratory Grade Details:

- Please refer to the laboratory syllabus on Webcourses for all detailed information concerning the lab and lab grading.
- Please direct all lab related questions to your lab TA’s or to Ms. Yeargain.

Lecture Grade Details (Lecture exams + Final Exam + iClicker points):

1.) Lecture Exams:

- Four multiple-choice exams based on lecture material will be given throughout the semester.
 - Your lowest grade from these 4 exams will be dropped so you will have **3 counted exams**.
 - Each lecture exam will cover 4 chapters. Please see the course schedule below for the dates lecture exams are taken and which chapters are covered for each exam.
- **Taking Lecture Exams:**
 - Lecture exams will be given during your registered lecture section. You **MUST** take your lecture exams with your section. Failure to take an exam in the correct section will result in a 0 for the exam.
 - All exams will use machine-scored scantrons
 - **You are required to supply at least FIVE (5) unmarked raspberry scantrons for your exams.**
 - You must bring them to lecture or Dr. Diercksen’s or Ms. Yeargain’s office for collection during the first 2 weeks of class.
 - If you do not turn in your scantrons by **Friday, September 11, 2015**, you will receive a zero on Exam 1.
 - You need to bring a **#2 pencil** and your **valid photo ID**, preferably your current UCF Student ID card, to all exams including the Final Exam.
 - Your correct name, PID number, and test form (e.g. A, B, C) must be printed/bubbled on the scantron.
 - Failure to encode the correct information on an exam may result in a 0 on that exam.
 - Basic calculators will be 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. No extra time will be allowed.
 - No student may leave the lecture room for at least 15 minutes after the beginning of the exam. It will be announced when you may begin turning in your exam which must then be checked against your photo ID.
 - Please be considerate of others still taking the exam. There will be absolutely **NO** talking if any student is still taking the exam.
 - Lavatory use during an exam requires the escort of a teaching assistant if available.
 - Once you begin an exam, you are not entitled to take a make-up exam if you stop for any reason.

Make-Up Exams:

- For known conflicts ahead of time, you must contact Ms. Yeargain or Dr. Diercksen to arrange for a make-up exam within one week prior to the exam.
- For emergencies on the day of the exam, you must email Ms. Yeargain or Dr. Diercksen 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, military supervisor, etc.) and on letterhead with original signature and date.
- Excuses from relatives (including relatives who are doctors, dentists, attorneys, etc.) are NOT accepted.
- Job or other work related absences will NOT be considered a valid excuse for missing an exam.
- **Important:** The absence must have been caused by a valid emergency or circumstance as determined by Dr. Diercksen or Ms. Yeargain, including but not limited to: major illness, serious family emergency, jury duty, military obligation, observance of a religious holiday, etc. in order to warrant a make up exam.
- Undocumented or unapproved absences will NOT be considered for a make up exam.
 - Students will receive a score of zero for an unexcused missed exam. Keep in mind that the lowest lecture exam grade for all students will be dropped so the zero grade will be automatically dropped from your final course grade calculation for this first missed exam.
 - Any additional unexcused missed exams will result in a zero grade that will be used in the final course grade calculation however.
- Students who miss exams for valid and approved reasons are responsible for contacting Ms. Yeargain or Dr. Diercksen to arrange a time and place for the makeup exam. All attempts will be made to schedule the make up exam as soon as possible after the missed exam on a case-by-case basis depending on the circumstances of the individual student and the reason for missing the exam.

Reviewing Lecture Exams and Final Exam:

- Scantrons and exams will NOT be returned to students.
- If you wish to view and/or receive a printed copy of your individual exam report sheet (with all correct and incorrect responses indicated) you must request it in person with Ms. Yeargain or Dr. Diercksen within 2 weeks of an exam grade being posted in Webcourses and BEFORE the next exam's grades are posted.
 - E.g. If exam 1's grades are in Webcourses on Monday, September 28th, you must request its report by October 12th.
- Once the 2 week window is over for an exam, you may NOT review that exam for the rest of the semester.
 - You must resolve any grade concerns within the two week time period as well.
 - Additionally, review of previous exams will NOT be allowed during finals week or after the final exam has been taken.
- Once you have a printed copy of your exam report, you will be able review a copy of the exam questions with Ms. Yeargain, Dr. Diercksen or the lecture assistant during their respective office hours.
 - Copying and/or photographing information from the exams is prohibited during post-exam viewing.
- The final exam may be reviewed for a period of one month following the date grades are posted by the Registrar.

2.) Final Exam:

- The final exam will be given in your lecture classroom according to the UCF Final Exam Schedule for Fall 2015 (see below).
- The final exam is **required** (can NOT be dropped or missed) and **cumulative** (i.e. Covering material from ALL chapters covered during the semester plus material from the last few chapters not covered on any previous lecture exam).
- 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 Ms. 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.

3.) iClicker Points and iClicker Usage:

- We will be using the iClicker classroom response system for class participation and assessment of class and/or individual knowledge for key lecture concepts.
- Your iClicker grade is worth 10% of your total course grade. You will earn clicker points two different ways for our course.
- **Method 1: Participation**
 - 5% will be earned from questions that will be given during most lectures.
 - Questions will be content focused or opinion and will often involve peer discussion before or after the questions.

- By answering **at least 75%** of the iClicker questions offered in a lecture class, you will receive **ONE iclicker point** for that lecture.
- Points will be awarded for *completion only*, *NOT accuracy* for these questions.
- **Method 2: Short Quiz**
 - 5% will be earned from a short quiz based on material covered on an upcoming exam.
 - Points will be awarded for *completion* AND *accuracy* for these questions, with students receiving ½ point/question for answering the question and an additional ½ point/question for answering correctly.
 - The dates Method 2 will be in effect are: September 21, October 9, October 28 and November 20 (also noted on the course schedule below).
- Students with *documented* absences for Method 1 points may have their total clicker points available adjusted accordingly.
 - Please contact Dr. Diercksen for evaluation of the reason for missing lecture within 1 week and provide documentation with your name and the date class was missed for *possible* clicker point adjustments based on Dr. Diercksen's discretion.
- Students with *documented* absences for Method 2 points must contact Dr. Diercksen within 24 hours of missing the Method 2 clicker day. In most cases, students will be instructed to take a short multiple choice quiz in Webcourses to potentially earn the equivalent points missed during a Method 2 clicker day.
 - Only students who have documented excuses for missing a Method 2 clicker day are eligible for taking the Webcourses quiz.
- Any undocumented excuse will NOT be accepted for missing lecture in regards to any clicker points.
- Approximately once a week, clicker points will be posted in Webcourses.
 - Students are responsible for contacting Dr. Diercksen immediately if they see an issue with their clicker points in Webcourses.

Additional iClicker Information:

- You may use an iClicker+ for our class if you already have one since you will not be required to input numerical or text information. If you need to buy or rent a clicker, it is strongly recommend getting the iClicker2 since it will give you more flexibility in other classes that may use the iClicker system.
 - You may NOT however use the iClicker Go app on a smart device. Our class size and the technology in our lecture room currently precludes the iClicker Go's use.
- An announcement will be made in lecture when clicker use for grades will begin.
 - This start date will determine the number of clicker points that could be available this semester however this number could change over the course of the semester due to potential technical difficulties.
- Not all clicker points will be counted in the final clicker grade so there is a possibility of gaining a bonus if a student attends most or all of the lecture classes.
 - e.g. If there are 50 clicker points available by the end of the semester, only 40 may be "counted" so if a student earns 45 points, the student would earn over 100% for their clicker grade. *Note:* This is only an example, the total number of clicker points will be unknown until the semester is over.
- Students are responsible for bringing their iClickers to EVERY lecture session.
 - You must be using your own registered iClicker and be attending your registered lecture section to receive automatic credit for these questions.
 - **Important:** The iClicker software and whether it detected your clicker is the final say in awarding points. Do NOT stop by the lectern, email after class or come to office hours to ask for points not awarded. If you were in class and using your registered clicker properly, it will record your response if you see the check mark. If there is some issue with your clicker, you must address it immediately (e.g. re-register, change the batteries, ensure you have the right frequency, etc.) if you wish to earn clicker points.
- 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 iClicker remote even if you were in attendance during the lecture.
- Use the default **frequency of AA** for our class unless you are told otherwise.

iClicker Registration and Usage Information:

- Students must register their iClickers to ensure proper credit of clicker points!
- You will register your clicker within our Webcourses and do NOT need to register on the iClicker website.
 - Within our Webcourses, click on the iClicker tab. Enter your 8 digit iClicker remote ID in the space provided and hit "register".
 - As long as you are logged into YOUR Webcourses account, this registration will match your iClicker remote to your iClicker points.
 - If you lose your iClicker and purchase, rent or borrow a new iClicker, you must register the new clicker for our course AND notify Dr. Diercksen or you may not receive credit for any points with the new clicker.

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
- **Laptop use is allowed for course related use only. Dr. Diercksen reserves the right to ban ALL laptop and smart device use if students do not abide by this rule.**
- 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 2013.

Classroom Safety:

- Please be aware of the closest exit to your seat.
- Pay attention to those around you and any suspicious behavior.
- If the siren sounds, please try to remain quiet and calm so that we can hear the instructions.
- Please call 911 or UCF Police (407-823-5555) if there is an immediate threat and inform them we are in the **College of Sciences Building, Room 101 on UCF's campus.**

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
- Students 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
 - Completing another student's laboratory and/or lab quiz for them

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 Accessibility Services (SAS), Student Resource Center Room 132, phone (407) 823-2371, TTY/TDD only phone (407) 823-2116, before requesting accommodations from the professor.

Academic 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, Ms. Yeargain, the lecture assistant and the graduate teaching assistants are also available to answer your questions.
- Please ask for help if you need it and don't wait until it's too late!

Other Help: UCF Cares

- There many offices and programs at UCF for dealing with different student issues. It can be confusing and overwhelming to know where to turn sometimes.
- UCF has created a new umbrella website initiative which provides students with information for help and support for ALL aspects of student lives.
- If you are dealing with any issues such as coping with tragedy or crisis in your personal or family life, having trouble finding stable and safe housing, eating disorders or hunger issues, hazing and discrimination, sexual abuse or assault, in need of alcohol or drug treatment or ANYTHING that is affecting your health or well being—your first step is to visit:

www.UCFCARES.com

- Or call 407-823-5607
- You will be put in touch with the right resource for your needs in a caring, discreet manner.
- When in doubt or trouble, please reach out to your UCF community and UCF resources!

Tentative Lecture Schedule Fall 2015 (subject to change): Please read the assigned chapters listed below before coming to the lecture. Note: All chapter numbers refer to *Campbell Biology, 10th ed.* For some chapters, not all of the material will be covered. Announcements will be made in class when appropriate for what is covered and what is not.

August 24: Course Introduction and Information
Please read Chapter 1 as an introduction to our text and biology, but specific Chapter 1 content will NOT be on any exam if not covered in other chapters.

August 26: Chapter 2 Chemical Context of Life

August 27: Drop/Swap Deadline

August 28: In lecture hall (CSB 101): *Introduction to the Virtual Lab and Second Life*
Add Deadline

August 31 Chapter 2 More Chemistry
 September 2 Chapter 3 Water
 September 4 Chapter 3/4 More Water; Carbon

September 7 Labor Day Holiday: No UCF classes

September 9 Chapter 4 More Carbon
 September 11 Chapter 5 Large Biological Molecules

September 14 In lecture hall (CSB 101): *Virtual Lab and Second Life Follow-up*
 September 16 Chapter 5 More Large Biological Molecules
 September 18 Chapter 7 Membrane Structure and Function
Note: Chapter 6 has been skipped for the time being to better match the lab sequence.

September 21 Chapter 7 More Membranes; **Method 2 Clicker Quiz**
 September 23 **Exam 1: Chapters 2, 3, 4 & 5**
 September 25 Chapter 8 Introduction to Metabolism

September 28 Chapter 8 More Metabolism
 September 30 Chapter 6 Tour of the Cell
 October 2 Chapter 6 More Cell

October 5 Chapter 9 Cell Respiration
 October 7 Chapter 9 More Cell Respiration and Fermentation
 October 9 Chapter 10 Photosynthesis; **Method 2 Clicker Quiz**

October 12 **Exam 2: Chapters 6, 7, 8 & 9**
 October 14 Chapter 10 More Photosynthesis
 October 16 Chapter 12 Cell Cycle

October 19 Chapter 13 Meiosis
 October 21 Chapter 13 More Meiosis
 October 23 Chapter 14 Mendelian Genetics

October 26 Chapter 14 More Mendelian Genetics
 October 28 Chapter 14: Genetic Problems; **Method 2 Clicker Quiz**
 October 30 **Exam 3: Chapters 10, 12, 13 & 14**

November 2 Chapter 15 Chromosomal Inheritance
Withdrawal Deadline (11:50 PM)

November 4 Chapter 15 More Chromosomal Inheritance
 November 6 Chapter 16 Molecular Basis of Inheritance

November 9	Chapter 16	More Molecular Basis of Inheritance
November 11	Veteran's Day Holiday: No UCF classes	
November 13	Chapter 17	From Gene to Protein

November 16	Chapter 17	More Gene to Protein
November 18	Chapter 18	Regulation of Gene Expression
November 20	Chapter 22	Darwinian View of Life; Method 2 Clicker Quiz

November 23	Exam 4: Chapters 15, 16, 17 & 18	
November 25	No Class	
November 27	Thanksgiving Holiday: No UCF classes	

November 30	Chapter 23	Evolution of Populations
December 2	Chapter 23	More Evolution of Populations
December 4	Chapter 23	Hardy Weinberg Problems
	<i>Note: Material from Chapters 22 & 23 will be on the cumulative Final Exam.</i>	

December 7	Review for Final Exam	

Final Exam Dates and Times: You must attend the final exam time for YOUR lecture section unless previous documented arrangements have been made with Dr. Diercksen or Ms. Yeargain.

- **Section 0003; 11:30 Lecture time:** Your final exam will be Wednesday, December 9, 2015 at 10:00 AM-12:50 PM
- **Section 0004; 1:30 Lecture time:** Your final exam will be Monday, December 14, 2015 at 1:00-3:50 PM