Student Name:
MAC 2241
Instructor: D’Andrea
Fall 2014

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Hello there and Welcome to MAC 2241 Life Sciences Calculus 1!

This course is going to be a vigorous, exciting, and very innovative. Upon completion of this course, the student(s) should have a strong foundation in Calculus and applications used in Biology. I am delighted about being your instructor this semester! I hope we have a successful semester ahead! As your instructor this semester, it is my privilege and obligation to see my students succeed in their courses. I understand that there are different types of ways that students learn, thus I will be implementing various activities and exercises that will be beneficial to students. To further help my students succeed, I will provide plenty of flexible office hours so that if students have questions, they can come freely and ask questions about concepts, hmwk, tests, etc. I want my students to be successful in this course, and I will be available through various different ways, such as: office hours, email, before and after class sessions, Skype, IM, chat, blackboard collaborate, etc.

Please feel free to contact me or ask questions if you need further assistance with anything regarding course material and concepts. I look forward to being your instructor this semester and welcome you all to Life Sciences Calculus 1!
Professor: Joy M D’Andrea  
Office: B342 (in the back area)  
Phone: 941-359-4241  
Office Hours:  
M: 11:30am – 12:20pm  
T: 11:30am – 12:20pm  
W: 11:30am – 12:20pm  
R: 11:30am – 12:20pm  
U: 8pm – 8:50pm (by skype appointment)  
Website: [http://jdandrea.myweb.usf.edu/](http://jdandrea.myweb.usf.edu/)  
Skype: jamde.jam  
Email: jdandrea@usf.edu or jdandrea@sar.usf.edu  
Emails will be answered during the email scheduled times (please see email schedule on last page). If a student decides to email during other times not listed in the email schedule, then the email will be answered either the next email time slot (if on the same day) or within 24 hrs of arrival. Please try to write emails that either starts with Dear Ms. D’Andrea or Hello Miss D’Andrea. If there is an EMERGENCY, a student can contact the instructor by cell phone (941-467-5858).

College: AM  
Department: MTH  
CRN: 93908  
Section: 521  
Credit Hours: 3  
Days: M/W 12:30pm – 1:45pm  
Place: A221

COURSE ATTR: Gordon Rule 6A Computations  
Mathematics  
Quantitative Reasoning  
Gen Ed - Quantitative Methods

PREREQUISITES: ACT Math Minimum Score: 29  
or SAT Math Minimum Score: 650  
or MAC 1114 Minimum Grade: C  
or MAC 1147 Minimum Grade: C
Required Text: Calculus for Biology and Medicine, Third Edition, by Claudia Neuhauser; Pearson. (Students can have any version of the book (as long as it is this edition, doesn’t have to be the hard copy)

ISBN: 9780321644688

Calculator: A TI-83 or equivalent calculator is recommended. The graphics calculator will be used on a regular basis. Students are responsible for bringing their calculators to every class period. During tests, students MUST use their own calculators. A cell phone is NOT ALLOWED to be used as a calculator.

Recommended Text: Calculus for Biology and Medicine Student Solutions Manual, By Claudia Neuhauser; Pearson.

ISBN: 9780321644923
Course Description:
Differentiation and integration of algebraic, trigonometric, exponential, and logarithmic functions with applications to biological sciences. (No credit for math majors or students with credit in MAC 2233, MAC 2281, or MAC 2311.)

Specific Learning Outcomes: Upon completion of the course the student will be able to:

**Part 1: Differentiation**
1. Find and calculate limits, by both direct computation and graphical methods.
2. Learn and understand average rates of change and the formal definition of a derivative.
3. Learn and develop modeling techniques for population growth and decay.
4. Analyze and compute applications of uninhibited and limited growth models, also decay models.
5. Understand the concepts of continuity.
6. Learn and apply different differentiation techniques.
7. Learn, find, and calculate limits of trigonometric functions.
8. Understand derivatives from a graphical approach.
9. Be able to learn applications of differentiation for biology and chemistry.
10. Understand the difference between exponential, logarithmic and trigonometric functions.
11. Learn the extreme and mean value theorem.
12. Interpret the concepts of monotonicity and concavity.

**Part 2: Integration**
1. Learn the difference between differentiation and integration.
2. Understand and compute integrals.
3. Learn the difference between definite and indefinite integrals.
4. Learn and apply different integration techniques.
5. Understand and compute applications of integration.
**Attendance:** Students are expected to attend class regularly. Attendance is worth 50 points or 5% of the students overall grade. This means that each class attended is worth 1.67 points. Attendance will be taken every class session (starting 09/03/2014). Students should be aware that this class meets twice a week for 75 minutes (M and W). Thus for every hour spent in class an additional hour for each hour should be spent on the course. For this course, since it is a 3-credit hr course, you should be spending about 4 – 6 hrs on it outside of class a week. Math is a cumulative process and missing out on an important concept can hinder your overall performance in the course. In the event of an absence, the student is responsible for all work covered and assigned. If a student misses a class, then he/she needs to notify the Professor through an email in a timely manner.

**Classroom Demeanor:**

i) **Cell Phones:** Cell phones should be turned off during class. *Please no texting in class.* If I see a student texting during class, I will ask that the cell phone be put away. If a student has an emergency situation going on where they need to have their phones nearby, then please put them on vibrate or silent mode. No cell phones are allowed to be used as calculators in the class.

ii) **Laptops/Tablets:** Students are allowed to bring their laptops/tablets to class, provided they are using them for class materials such as: e-book pdf copy of the text, specific software use in aid of calculating, YouTube video preparation, etc. There will be specific days that students need to bring their laptops, which will be posted on canvas. Students ARE not allowed to use their laptops/tablets in class for any other purposes not related to class such as Facebook, twitter, email, or any other social media networking site.

iii) **Conversations/Disruptions:** Students who wish to carry on side conversations in class may be asked to leave the room, as this is disruptive to the rest of the students in the class. The use of profanity in class will not be allowed. Please allow a level of civility for everyone in the class.

**Food/Drinks:** Don’t make a mess. Be careful what you bring to class. Cups should have lids on them and do not leave your mess on the desk. There will be times I bring TREATS.
USF Sarasota-Manatee Policies and Procedures

Religious Observances: The University recognizes the right of students and faculty to observe major religious holidays. Students who anticipate the necessity of being absent from class for a major religious observance must provide notice of the date(s) to the instructor, in writing, by the second week of classes.

Disabilities Accommodation: Students are responsible for registering with the Office of Students with Disabilities Services (SDS) in order to receive academic accommodations. Reasonable notice must be given to the SDS office (typically 5 working days) for accommodations to be arranged. It is the responsibility of the student to provide each instructor with a copy of the official Memo of Accommodation. Contact Information: Disability Coordinator: 359-4714; disabilityservices@sar.usf.edu; http://www.usfsm.edu/students/disability/

Academic Dishonesty: The University considers any form of plagiarism or cheating on exams, projects, or papers to be unacceptable behavior. Please be sure to review the university’s policy in the USFSM Undergraduate Catalog or USFSM Graduate Catalog and the USF Student Code of Conduct.
Undergraduate:
   http://www.sarasota.usf.edu/Academics/Catalogs/
Graduate:
   http://www.sarasota.usf.edu/Academics/Catalogs/
USF Student Code of Conduct:
   http://www.sa.usf.edu/srr/page.asp?id=88
**Academic Disruption:** The University does not tolerate behavior that disrupts the learning process. The policy for addressing academic disruption is included with Academic Dishonesty in the USFSM Undergraduate Catalog or USFSM Graduate Catalog and the USF Student Code of Conduct.

Undergraduate:
http://www.sarasota.usf.edu/Academics/Catalogs/

Graduate:
http://www.sarasota.usf.edu/Academics/Catalogs/

USF Student Code of Conduct:
http://www.sa.usf.edu/srr/page.asp?id=88

**Contingency Plans:** In the event of an emergency, it may be necessary for USFSM to suspend normal operations. During this time, USFSM may opt to continue delivery of instruction through methods that include but are not limited to: Blackboard/Canvas, Elluminate, Skype, and email messaging and/or an alternate schedule. It’s the responsibility of the student to monitor Blackboard/Canvas site for each class for course specific communication, and the main USFSM and College websites, emails, and MoBull messages for important general information. The USF hotline at 1 (800) 992-4231 is updated with pre-recorded information during an emergency.

**Emergency Preparedness:** It is strongly recommended that you become familiar with the USF Sarasota-Manatee Emergency Action Plan on the Safety Preparedness site

**Fire Alarm Instructions:** At the beginning of each semester please note the emergency exit maps posted in each classroom. These signs are marked with the primary evacuation route (red) and secondary evacuation route (orange) in case the building needs to be evacuated.
**Web Portal Information:** Every newly enrolled USF student receives an official USF e-mail account. Students receive official USF correspondence and CANVAS course information via that address. Canvas support is available through USFSM E-Learning staff from 9am to 5pm Monday through Friday. Please call or email Carlos Montoya at 1-941-359-4295 (or cmmontoya@sar.usf.edu). The USF Tampa IT Helpdesk provides 24 hour support for CANVAS. Please call 813-974-1222 or email: help@usf.edu if you need assistance outside of USFSM’s E-Learning hours. Additionally, CANVAS tutorials can be found in the student Quickstart Guide at http://guides.instructure.com/m/8470.

**Instructor Copyright:** Students may not sell class notes or other course materials, this includes interactive pdf’s that may be posted. Students may not record the instructor without prior approval.

**USF Application Portal:** Students have free access to various software programs through the application gateway. http://apps.usf.edu/ If a student needs further assistance on how to access the application gateway, they can reach the IT department at 1-813-974-1222.

**FERPA Compliance:** "Pursuant to the provisions of the Family Educational Rights and Privacy Act (FERPA), prior to submitting work to Turnitin, students are requested to delete any personal information (e.g., name, address, telephone) from the work being submitted. This protects students from having personal information disclosed to vendors or other outside agencies."
Homework (HMWK): There will be section homework assignments that will be collected throughout the semester. Approximately 20 – 40 questions will be included for an assignment. These assignments are usually due on Wednesdays by 12:30pm. Please refer to the tentative assignment schedule on pg. 17 of the syllabus. There will be no late work that will be accepted for the homework portion of the grade, unless under extenuating circumstances which will require documentation from the student. This homework grade will be worth 250 points or equivalent to 25% of the overall grade.

Project: There will be a group project that is counted as 200 points towards the overall grade, or 20% of the overall grade. Groups will be organized during the first week of classes. Particular details will be addressed in class. There are 2 selected class sessions for the group projects presentations/discussions (please see the tentative course outline). Students should check canvas for details!

Quizzes: There will be several in – class quizzes given throughout the semester. These quizzes are not scheduled on the outline, thus they may be every week or every other week. Each quiz will consist of 1 to 3 questions (may vary according to which section(s) the quiz is on). The four lowest quizzes will be dropped at the end of the semester. The total points for the 10 best quizzes will be 100 points of the overall grade, or 10% of the overall grade. Students CANNOT work together on quizzes. If a student misses a quiz, then this will count as one of their dropped quiz grades. There are NO MAKE – UPS for quizzes.
Tests: There will be four tests (exams) given throughout the semester. This is a large portion of the overall grade that is worth 400 points or 40% of the overall grade. Students will be permitted to bring 1 note card (size is 3 x 5 inches) to use for their tests, ONLY FORMULAS ARE ALLOWED ON THE NOTE CARDS! Note cards will be checked before each test is handed out. Students CANNOT work together on tests! **STUDENTS WILL NEED TO PURCHASE/GET BLUE BOOKS FOR THEIR TESTS.** Below is the tentative schedule for the scheduled test dates and total point/percentage value of the overall grade.

| Test 1 | Ch.1: 1.1 – 1.3  
| | Ch.2: 2.1 – 2.3  
| | Ch.3: 3.1 – 3.5  
| | 09/29/2014  
| Test 2 | Ch.4: 4.1 – 4.8  
| | 10/20/2014  
| Test 3 | Ch.5: 5.1 – 5.5, 5.8  
| | 11/10/2014  
| Test 4 | Ch.6: 6.1 – 6.3  
| | Ch.7: 7.1, 7.2, 7.7  
| | Ch.8: 8.1  
| | 12/10/2014  

**WORK MISSED:** Make-ups are not encouraged for quizzes, hmwk or tests. Do not miss a test. Excused absences are acceptably documented medical problems, family crises, or legal circumstances. All else is unexcused. In the event of an excused absence, it is the students’ responsibility to notify me by email listed above. Make - ups or other resolutions for missed exams will be handled in accordance with university policy. The following dates are the only available for ANY kind of make – up exam, proctored by a USFSM employee.

- September 26th: 1pm – 3pm
- October 24th: 1pm – 3pm
- November 11th 1pm – 3pm
- December 5th 1pm – 3pm
Withdrawal Deadlines: To drop the course without academic penalty and with a full refund is: Friday, August 29, 2014. To withdraw from the course with a grade of a ‘W’ is: Saturday, November 1, 2014.

Important Dates:
September 1st (Monday), Labor Day - no classes.
November 11th (Tuesday), Veterans Day – no classes
November 27th - November 28th, Thanksgiving Holiday – no classes
December 6th – December 12th (Saturday – Friday) Final Exam Week
Additional Required Materials: Each student is required to have a folder for the course. The syllabus for the course should be put into the folder. If a student has a binder, then this will be fine for their required folder. This is to make sure that the syllabus doesn’t get lost during the semester, since important dates such as tentative test dates and holidays are contained in the syllabus. A student can use any type of notebook they desire for their notes or hmwk questions. **STUDENTS WILL NEED TO PURCHASE/GET 5 BLUE BOOKS FOR THEIR TESTS.**

Regarding each regular class period for M and W: The class is scheduled to meet twice a week for 75 minutes per session on M and W. The first 5 – 10 minutes will be allocated to answering hmwk, quiz, test or concept questions. I will take roll every class, so students should remember to sign the attendance sheet (starting 09/03/2014). We will usually be going through 1 – 2 sections a day in every class (they are usually short sections). Sometimes there will be quizzes on the sections that were covered the previous class session or in the current session. When a test is scheduled, the entire class session is devoted to the test.

Grading: The grade for the course will be based on grades earned on attendance, hmwk, completion of a project, quizzes, progress tests and a final exam. Attendance will count as 50 points towards the overall grade, or 5% of the overall grade. The homework average will add up to 250 points and is counted as 25% of the overall grade. **Any extra credit earned in the course, will be added onto the homework points.** The project will count as 200 points towards the overall grade, or 20% of the overall grade. There will be 10 best quizzes that are counted towards the overall grade, so a total of 100 points or 10% of the overall grade. Additionally, there will be 4 progress tests given throughout the semester. Totaling to 400 points towards the overall grade, or 40% of the overall grade. See table on next page below for further breakdown.
The maximum number of points that can be earned (before extra credit) in the course is 1000.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>50</td>
</tr>
<tr>
<td>Homework (HMWK)</td>
<td>250</td>
</tr>
<tr>
<td>Projects</td>
<td>200</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Progress Tests</td>
<td>400</td>
</tr>
<tr>
<td>Total</td>
<td>1000</td>
</tr>
</tbody>
</table>

The College of Arts and Sciences +/- grading policy will be used in assigning final grades.
To find out which grade the student has, all they will need to do is add up their points they have earned and divide by 1000. The following below denotes the points in terms of grades that will be achieved.

965 – 1000 A+
925 – 964 A
895 – 924 A-
865 – 894 B+
825 – 864 B
795 – 824 B-
765 – 794 C+
725 – 764 C
695 – 724 C-
665 – 694 D+
625 – 664 D
595 – 624 D-
Anything below 595 points is an F.
Students who prefer to be graded by the S/U system must inform me by the end of the third week of classes (Starting September 8, 2014). Incompletes will be assigned only to provide a short grace period to make up specific work; since incompletes are usually disastrous for the students receiving them (!), they are not encouraged.
Tips & Resources

There are many ways that students can succeed in this course.

1) Asking questions during class if a student is stuck on a concept.
2) Going to the Instructors office hours and asking questions.
3) Doing the extra credit assignments, because they can boost hmwk grades.
4) Resources: (websites will be given out on first day of class)
5) Students can and are encouraged to create outside study groups. Having peers to bounce ideas off of and to ask questions too is a great way to further retain information and learn new ways to understand the concepts presented in class. Students should work together on hmwk!
   - Visit the learning and support center! There are Instructors and tutors that can help with questions, and hmwk problems. Student tutors meet in C263 and B222. Free Math Tutoring from Learning Support Services– B222
     The main phone line: 941-359-4323
   - Website: http://usfsm.edu/information-commons/tutoring/
6) There are many different math websites available online that can also provide help. We will go through some of these on the first day of class.
7) Additional handouts will sometimes be provided.
8) Keep up with the reading/discussion assignments (a good idea is to read and look through the section(s) prior to coming to class).
9) Pay attention to your assigned hmwk and quiz questions! These are beneficial to review for the tests!
**Tentative Course Outline by Week and Chapter:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Chapter References</th>
</tr>
</thead>
<tbody>
<tr>
<td>08/25/2014</td>
<td>M</td>
<td>Course Objectives, Syllabus, Introductions, 1.1 1.2, 1.3</td>
</tr>
<tr>
<td>08/27/2014</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>09/01/2014</td>
<td>M</td>
<td>No Class: Labor Day 2.1, 2.2</td>
</tr>
<tr>
<td>09/03/2014</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>09/08/2014</td>
<td>M</td>
<td>2.3</td>
</tr>
<tr>
<td>09/10/2014</td>
<td>W</td>
<td>3.1</td>
</tr>
<tr>
<td>09/15/2014</td>
<td>M</td>
<td>3.2, start 3.3</td>
</tr>
<tr>
<td>09/17/2014</td>
<td>W</td>
<td>Finish 3.3, 3.4</td>
</tr>
<tr>
<td>09/22/2014</td>
<td>M</td>
<td>3.5</td>
</tr>
<tr>
<td>09/24/2014</td>
<td>W</td>
<td>Test 1 Review/Group Presentations 1</td>
</tr>
<tr>
<td>09/29/2014</td>
<td>M</td>
<td>Test 1 4.1</td>
</tr>
<tr>
<td>10/01/2014</td>
<td>W</td>
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</tr>
<tr>
<td>10/06/2014</td>
<td>M</td>
<td>4.2, 4.3</td>
</tr>
<tr>
<td>10/08/2014</td>
<td>W</td>
<td>4.4, 4.5</td>
</tr>
<tr>
<td>10/13/2014</td>
<td>M</td>
<td>4.6, 4.7</td>
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<td>10/15/2014</td>
<td>W</td>
<td>4.8, Test 2 Review</td>
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<td>10/20/2014</td>
<td>M</td>
<td>Test 2 5.1</td>
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<tr>
<td>10/22/2014</td>
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</tr>
<tr>
<td>10/27/2014</td>
<td>M</td>
<td>5.2, 5.3</td>
</tr>
<tr>
<td>10/29/2014</td>
<td>W</td>
<td>5.4</td>
</tr>
<tr>
<td>11/03/2014</td>
<td>M</td>
<td>5.5</td>
</tr>
<tr>
<td>11/05/2014</td>
<td>W</td>
<td>5.8, Test 3 Review</td>
</tr>
<tr>
<td>11/10/2014</td>
<td>M</td>
<td>Test 3 6.1</td>
</tr>
<tr>
<td>11/12/2014</td>
<td>W</td>
<td></td>
</tr>
<tr>
<td>11/17/2014</td>
<td>M</td>
<td>6.2</td>
</tr>
<tr>
<td>11/19/2014</td>
<td>W</td>
<td>6.3</td>
</tr>
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<td>11/24/2014</td>
<td>M</td>
<td>7.1</td>
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<td>11/26/2014</td>
<td>W</td>
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<td>12/01/2014</td>
<td>M</td>
<td>7.7, 8.1</td>
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<tr>
<td>12/03/2014</td>
<td>W</td>
<td>Test 4 Review/Group Presentations 2</td>
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<tr>
<td>12/10/2014</td>
<td>W</td>
<td>Test 4 12:30pm – 2:30pm</td>
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### Tentative HMWK Schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Due</th>
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</thead>
<tbody>
<tr>
<td>09/03/2014</td>
<td>W</td>
<td>Ch 1 Hmwk due</td>
</tr>
<tr>
<td>09/10/2014</td>
<td>W</td>
<td>Ch 2 Hmwk due</td>
</tr>
<tr>
<td>09/24/2014</td>
<td>W</td>
<td>Ch 3 Hmwk due</td>
</tr>
<tr>
<td>10/08/2014</td>
<td>W</td>
<td>Ch 4 Hmwk (4.1 – 4.3) due</td>
</tr>
<tr>
<td>10/15/2014</td>
<td>W</td>
<td>Ch 4 Hmwk (4.4 – 4.7) due</td>
</tr>
<tr>
<td>10/29/2014</td>
<td>W</td>
<td>Ch 5 Hmwk due (5.1 – 5.3)</td>
</tr>
<tr>
<td>11/05/2014</td>
<td>W</td>
<td>Ch 5 Hmwk due (5.4 – 5.5)</td>
</tr>
<tr>
<td>11/26/2014</td>
<td>W</td>
<td>Ch 6 Hmwk due (6.1 – 6.3)</td>
</tr>
<tr>
<td>12/03/2014</td>
<td>W</td>
<td>Ch 7 &amp; Ch 8 Hmwk due (7.1, 7.2, 7.7, 8.1)</td>
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Tentative Available Student Email Schedule:

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th></th>
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</thead>
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<td>M</td>
<td>11:30am – 12:20pm</td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>11:30am – 12:20pm</td>
<td>8:00pm – 8:30pm</td>
</tr>
<tr>
<td>W</td>
<td>11:30am – 12:20pm</td>
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</tr>
<tr>
<td>R</td>
<td>11:30am – 12:20pm</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>1:30pm – 2:00pm</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>8:00pm – 8:30pm</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>8:00pm – 8:50pm</td>
<td></td>
</tr>
</tbody>
</table>

Above are the specific times that responses to student’s emails will be answered quickly. If a student email’s during different hours that are not LISTED above, they may have to wait until the next email time slot (if email is the same day) or the next day (within 24 hrs) for a response. Students should check their email or canvas accounts daily for any updates regarding the course.

Yellow highlight represents daytime email hours, Teal (cyan) highlight represents evening email hours.

If there is an EMERGENCY, a student can contact the instructor by cell phone (941-467-5858).
Signature of Syllabus Reading

If you (the student) have read the syllabus and carefully looked over its contents regarding grading, class sessions, tests, quizzes, hmwk, attendance, and cell phone policies, and when assignments/quizzes/tests/projects are due, please sign your name and date it below. Give it back to the instructor by 08/27/2014.

Name:

Date: