SYLLABUS

GEOLOGY 306: Earth Science Laboratory (Summer 2015) (COURSE CODE: 10145)

With

Ms. Terry J. Boroughs

Tuesdays and Thursdays from 1 PM to 4:10 PM in Room 424 (1st 8-weeks)

Office hours: Tuesdays and Thursdays in room (424/425) from 4:10 PM to 5 PM or by appointment. You may contact me by fax via the Science Division: 484-8725 (include a cover sheet with your name, class section and my name), or email at borougt@arc.losrios.edu or GeoGSD@aol.com. The best way to get in touch with me is through email. For additional information, visit my web page at http://wserver.arc.losrios.edu/~borougt or http://www.arc.losrios.edu/~borougt ("www." may not be necessary if you log onto a campus computer.) You can also go to the ARC home page and use the quick link to faculty web pages and input my name.

Course Prerequisites and Requirements:
Corequisite: Geology 305 (Earth Science Lecture). Geology 305 must be taken concurrently or have already been taken in a previous semester. Advisories for Geology 305: MATH 32 or 39; and ENGWR 102 or 103, ENGRD 116 with a grade of “C” or better; or ESLR 320 and ESLW 320 with a grade of “C” or better.

The Required Text is Applications & Investigations in Earth Science (Eighth Edition only!) by Tarbuck, Lutgens, and Pinzke which should be available through Chegg.com, Borders.com, Amazon.com, BN.com, the ARC Book Store, etc. Make sure that your manual contains all of its pages! I also recommend that you use your Geology 305 (Earth Science Lecture) textbook as a reference and that you can access the online supplements (for example: www.masteringgeology.com) or the smart figures and videos that utilize Quick Response (QR) codes!

Grade Breakdown:
100-90% = A, 89-80% = B, 79-65% = C, 65-50% =D, Below 50% = F

Course Description and Student Learning Outcomes:
This course emphasizes scientific methods, critical thinking skills, and systematic Earth science laboratory procedures. Topics include rock and mineral identification, study of geologic concepts by means of topographic and geologic maps, and exercises in weather analysis, astronomy and oceanography. This course is not available for credit to students who have completed GEOL 300 or GEOL 301. Earth Science is the study of the Earth, the processes that operate on, at or beneath its surface, and its origin and change through time. Major topics of Earth Science include astronomy and the Earth's formation, oceans, mineral and rock formation, earthquakes and plate tectonics, Earth's interior layers, fossil life and ancient climates, weather, and surface processes including rivers, groundwater, glaciers, wind, waves, and landslides, etc.

This in-depth laboratory course provides an application and/or hands-on approach the dynamic nature of the Earth through the study of geology, oceanography, meteorology, astronomy, scientific method and philosophy of science of the Earth. This course encompasses the study the metric system, the study and identification of common rocks and minerals, the interpretation and recognition of geologic structures and landforms, interpretation of maps, aerial photographs, remote sensing images, seismic information, analysis of geologic hazards, and field observations astronomical and meteorological phenomena.
(Student Learning Outcomes) Upon completion of this course, the student will be able to:

- Apply the scientific method to evaluate Earth science processes.
- Distinguish between specimens of rocks and minerals and their modes of formation.
- Differentiate between various geological processes that work to shape the topography of Earth.
- Analyze atmospheric observations including (temperature, pressure, humidity, cloud cover) to make basic weather forecasts.
- Examine astronomical patterns and phenomena including planetary motion, solar and lunar eclipses, lunar phases, sun angle, and constellations.
- Survey Earth's basic marine processes and describe seafloor topography.
- Interpret and analyze various types of maps and satellite imagery used in the Earth sciences.

Course Format:
Introductory lectures prior to new topics using multiple learning styles to address the fact that different students often learn differently. Some students are more visual, some are more auditory, etc. In other words, I tend to use a combination of learning materials during lecture. I will talk about a specific topic while using various visual aids, while at the same time utilizing the white board to define vocabulary, etc. I will also provide several handouts with more detailed information, data tables, figures not found in your text book, etc. The end result is that the student should be exposed to a topic several times in different formats to address different learning styles and, hopefully, so that the repetition ensures retention of the material. Following the introductory lecture, most of the class time will be spent completing the laboratory assignment. Completing the necessary reading prior to class is a must, since most of the class time will be spent working on the assignment. So, come to class prepared to start working!

LAbORATORY ASSIGNMENTS:
Midterm Exams = 25%; Final Exam = 20%; Lab work = 55%; Extra credit = 5%

Assignments:
The Laboratory assignments will consist of a combination of: Matching and identification; sample identification; Short Answer; Essay questions; drawing small maps, using map skills, etc. All completed laboratory assignments must be turned in on the date specified by the syllabus and/or the instructor to receive credit. The deadline for labwork sent via e-mail or by fax is 12 (midnight) on the due date. If you fax something, be sure to retain the original copy and the print out from your end. The fax machine is used by the entire division, so it may be busy, which could translate into problems, especially if you are trying to fax a large document. Also be aware that pencil does not fax very well. Either make a copy of your original and fax the copy, or use pen instead. Anything submitted after midnight on the due date is considered late and is subject to the following policies. If you chose to submit your homework via email, make sure that it is either typed into the text of the email message (preferred!) or attached as a single file in either an rtf file format (in Microsoft Word use Save As and then select the rtf format) or as a pdf file. These formats are more universal and translate across different computer set-ups more easily. Make sure that if you do send your homework as an attachment that is a single file no more than 2 or 3 (at the most) MB! If the file is too large it will not be allowed through the campus email system! Therefore the smaller the file the better!

Late Assignments and/or Make-up Policy:
All students will receive three (3) Dinosaur cards at the beginning of the semester, which may be used on late labwork, up to two weeks following the due date for that assignment. When a card is attached to the late labwork and turned in during the allotted time, the assignment will still receive credit, depending upon completeness. However, if the allotted time has passed or the student has already turned in three late assignments, the late assignment will receive a
Notice: I keep track of your late assignments, whether or not you attach a dinosaur card! These cards are to be used in case of an illness, emergency or other unexpected event, so use them wisely. Exceptions: No labwork will be accepted after the day of the Final! The cards do not apply to extra credit assignments.

Anyone who does not turn in two homework assignments in a row may be dropped from the course. Anyone who misses more than one exam may be dropped from the course! If, for any reason, you can no longer attend the class, it is YOUR responsibility to drop yourself and be sure to submit the appropriate paperwork yourself!

The Exams will consist of a combination of: Multiple choice and True/False questions, Matching and identification; Sample identification; Short Answer; Essay questions; drawing small maps, using map skills, interpreting topographic maps, aerial photos, etc. Cell Phones must be stowed and/or stored away during exams! You will typically need a #2 pencil, 882 scantron and a calculator for exams. Pop Quizzes will also contain a variety of questions.

All students will receive three (3) Dinosaur cards at the beginning of the semester, which may be used for late labwork or to make-up an exam, but the cost for a make-up exam will be two (2) cards. Make-up exams will be scheduled during Finals Week or during the week prior to Finals week. Make-up Exams will contain primarily essay questions and will be substantially more difficult! To be eligible for the make-up exam, the student must have two (2) cards remaining of the original three (3). Therefore, the student may use the cards for three (3) late laboratory assignments or for one (1) make-up exam and one (1) late laboratory assignment. Exceptions: The cards may NOT be used to retake an exam, only to take an exam for which the student was absent. The cards do not apply to Pop Quizzes or the Final exam; there will be no make-up for the Final exam!

ANY STUDENT THAT HAS NOT USED ANY DINO CARDS WILL RECEIVE 15 POINTS TOWARD THEIR EXTRA CREDIT SCORE; TWO DINO CARDS REMAINING WILL RECEIVE 10 POINTS; ONE CARD REMAINING WILL RECEIVE 5 POINTS; ZERO CARDS REMAINING WILL RECEIVE ZERO EXTRA CREDIT POINTS.

Academic Dishonesty and Disruptive Classroom Behavior:
Cheating and/or plagiarism will NOT be tolerated! For example, copying word-for-word from an internet source without the proper use of quotation marks and internal referencing of the source of material constitutes plagiarism and will be dealt with appropriately. Copying homework and/or exam answers from a classmate will constitute cheating and both parties may be held accountable. Anyone caught doing either will receive an "F" for that assignment and possibly the entire course, depending upon the severity and number of incidences! Of course, the examples mentioned above are only a few of the many possible activities that may be considered to be cheating and/or dishonest classroom behavior. All of which will receive the appropriate action, depending upon the severity of the behavior. A minor incident, may just receive a warning, but more serious or multiple incidents, will face more severe consequences. Students who copy, cheat or plagiarize betray the trust of students who do their own work!

Inappropriate or disruptive behavior – yelling, persistent loud talking during lectures or student presentations, sexist or racist remarks, or harassment of any kind will not be tolerated. If a disruption is serious enough, a disruptive student may be asked to leave class, “(may be suspended) “for the day of the removal and the next class meeting” (Ed Code). Any days spent in suspension from class are considered unexcused absences.

Any inappropriate, unacceptable, or criminal conduct in class or on a field trip may result in an "F" for that assignment, and possibly for the entire course, as well as criminal prosecution, suspension from the college, or even expulsion from college depending upon the act or conduct and its severity! At the very least this type of academic dishonesty or inappropriate behavior will produce a student file with the Disciplinary Officer here on campus. If additional reports are filed by other instructors a pattern of behavior will be established and may result in the more severe penalties such as suspension, expulsion, etc. which may be included on the student’s official transcripts. The school, district, and
instructor will also not be held liable for any injuries, etc. incurred as the result of the afore-mentioned inappropriate conduct. For further details, please read the American River College Class Schedule, the Student Conduct Code, (Article IV or part one of the Student rights and responsibilities, which is also described in the Los Rios Community College District Board of Trustee Policies, Section 2400 Student Rights and Responsibilities / 2440 Standards of Conduct and Due Process.) In other words, as a student of American River College, YOU will be subject to the Student Conduct Code and will be held responsible for your actions; whether they are dishonest behaviors such as cheating and/or plagiarism, or inappropriate and/or criminal behavior, which disrupts the classroom learning environment.

Please turn off Cell Phones before coming to class! At the very least, you should set your cell phones to vibrate. A ringing cell phone is very distracting when it goes off during an exam!!! A ringing telephone may result in being asked to leave the classroom.

Excessive talking, texting, etc. during lecture or other behavior which is disruptive and interferes or obstructs normal classroom procedures will result in one (1) warning. If that warning is not effective, the person(s) responsible will receive a written assignment on a topic at the instructor's discretion, which will be due the following class meeting. This applies to episodes within a single class meeting or repeated episodes over a series of class meetings. The format for the written assignment is as follows: one (1) full page of text typed with a 12-point font. The assignment will be worth a 100-point homework assignment. If the assignment is not turned in as instructed or if there is any evidence of plagiarism, etc., the student will receive a zero for the assignment. If this procedure is not successful in dealing with the disruptive behavior, the student may be asked to leave the classroom, at which point college sanctions and disciplinary measures, per the Student Conduct Code, may be implemented. Repeated episodes may result in the involvement of the Science Division Dean.

Laboratory risks and safety procedures:
Because there is the potential for inherent risk and potential injury in any laboratory setting, especially if students do not follow both verbal and written safety instructions, the Los Rios Community College District has implemented a new policy concerning laboratory classes. The Science Division staff is obligated to implement this policy which requires that all laboratory students fill-out and sign a liability release form. The student accepts the risk of potential injury associated with the laboratory setting by completing and signing the liability release form which will be distributed by your instructor on the first day of class. These forms MUST be returned to the instructor PRIOR to beginning the first lab exercise. Any student, who is unwilling to follow safety protocols and/or complete the liability release form, may be dropped from the class by the instructor. You may need to fill out 2 copies of the form, one for yourself and one to submit to your instructor.

Fortunately, the laboratory assignments that we will be completing in this course do not require a great deal of dangerous chemicals and/or materials, but there are still risks. For example, when using a glass plate to determine relative hardness or a streak plate to determine streak, you must keep the plate on your desk, while scraping the sample across the glass! Holding the plate in your hand while completing this task puts you at risk of injury, especially if the plate breaks while you are holding it! We will also be using dilute Hydrochloric Acid to determine the presence of the mineral, Calcite. Although the acid being used is very dilute, it can still cause injury and possible damage if exposed to broken skin, your eyes, etc. It will also stain and/or discolor fabric and may eat through paper, fabric, etc. Therefore careful handling of the acid is a MUST! It is also necessary to wash the material after being tested with the acid and your hands as soon as after use as possible to prevent further dissolution of the sample and/or irritation to the skin. Therefore, use of the acid is limited to the sink area identified by your instructor. While there you will place a drop or two of acid on the sample and observe any reaction. Once done, wash the sample and your hands before returning to your desk. Failure to comply with these safety protocols could put you at risk and you will be responsible for the consequences, hence the district’s new policy!
Special Needs:
If you have a health problem, a documented learning disability, or a physical need of some kind, please let me know. I am committed to helping all students achieve their educational goals. If you require classroom or examination accommodations due to a physical or learning disability, please contact Disabled Students' Programs and Services at (916) 484-8545 to discuss your needs. I will help ensure that you receive any accommodations approved by DSPS. If using the DSPS test center, please make your appointment for the time and day of the exam and pass that information on to me. Be sure to make any necessary appointments early, due to competition for limited testing space. For example, many former students who experience dyslexia, found it easier to read the exams during a test situation, when the font size is much larger than usual. If this applies to you, let me know, so that I can print out the large font exam. However, if you wait until the day of the exam, I may not be able to accommodate you.

Support Services:
If you need to access any of the many support services available here on campus, please check out the following website, it has links to some of the various services available on campus. http://www.arc.losrios.edu/support_services.htm

These services include:
- **Science Skills Center**: This center provides a series or workshops to promote various science skills, such as concept mapping, textbook comprehension, test preparation, problem solving, etc. You can also earn a ½ unit of credit! Their goal is for students to learn to identify and apply efficient studying strategies to your science classes. These strategies can also be applied to other classes! You can visit the center in room 491 or contact them via: scc@arc.losrios.edu or (916)484-8204
- "**MESA** is a learning community for students pursuing four-year degrees in the fields of mathematics, science or engineering. By providing resources, information, opportunities, and financial support, MESA helps students achieve in the classroom, progress academically, and develop professionally. Students receiving financial aid may be MESA eligible. Visit the MESA Center, 131 Liberal Arts or contact Will Davis – daviswe@arc.losrios.edu or (916) 484-8510."
- **Re-Entry Center**: If you have been away for any length of time, their goal is to help you make a successful transition back to school. You can call (916) 484-8391 or 484-8456 or E-mail: reentry@arc.losrios.edu for more information.
- **DSPS (Disabled Students Programs and Services)**: and their goal is to promote equal access to programs and facilities at American River College, thereby insuring that students with disabilities experience the opportunity to participate fully in campus activities. The philosophy of DSPS is to encourage maximum independence and personal empowerment through a successful educational experience and their website is: http://web.arc.losrios.edu/~dsps
- **CJOC (Career and Job Opportunity Center)**: offers an array of resources to assist students in choosing career options, planning for college, and researching current job openings. All services are provided at no charge. The Career Center offers workshops on resume writing, job search strategies, and interview information & techniques each month. Their website is: http://web.arc.losrios.edu/~career

Last but not least:
If you have any questions or class-related problems during the semester, please visit me during my office hours or send me an email. I will respond as promptly as possible. If you email me, try to give me at least 24 hours to respond. If you send a message an hour before class, I may not even be near a computer to answer your message!

If, for any reason, you can no longer attend the class, it is YOUR responsibility to drop yourself and submit the appropriate paperwork yourself! Anyone who does not turn in two laboratory assignments in a row may be dropped from the course. Anyone who misses more than one exam may be dropped from the course!
FYI: Campus policy states that smoking within 30 feet of any classroom or building entrance is prohibited. Around the Science complex area that usually means you must go out to the parking lot to be far enough from the building entrances and air intake systems. Smoke easily enters into the classrooms if you are too close. Please be courteous to others.

FYI: The campus is now strictly enforcing the limited attempts rule. These attempts include taking the course and receiving an “F” or even a “W.” For example, after the third attempt, the automated enrollment system will not allow the student to enroll in the course again.

MATERIALS NEEDED FOR LAB.
1. Pencils: #2 and various colored pencils.
2. Large eraser (you will need one for your drawings, etc.)
3. Protractor and Rulers (metric.) (See-through if possible to facilitate measuring map distances)
4. String for measuring streams and other irregular (non-linear) features.
5. Geology 305 text for reference.
6. Highlighter pens and blue and black ink pens.
7. Drawing (geometry) compass (used to draw circles) for Earthquake lab. (?)
8. Graphing paper and if you choose to photocopy pages out of the manual rather than tear them out, you should have them PRIOR to the start of that particular LAB assignment.
9. Calculator and owner's manual if necessary

KEYS TO SUCCESS:
1. Attend class regularly.
2. Take notes and pay attention during lecture.
3. Refrain from talking during lecture!
4. Ask appropriate questions when necessary. Otherwise attend office hours for more detailed questions.
5. Read chapters carefully, preferably prior to the lecture on the corresponding topic.
6. Complete homework and/or labwork on time. Don’t wait until the last minute!
7. Don’t get behind!
8. Show up for exams prepared, e.g. have an 882 scantron and a #2 pencil available.
9. Be respectful of your instructor and fellow students. Treat others, as you would want to be treated!

GOALS:
1. Learn about Earth Science and Geology!
2. Learn to use the scientific method.
3. Become aware of your surroundings.
4. Learn to make observations.
5. Learn to use deductive reasoning.
6. Make conclusions based upon your observations, etc.
7. Put these observations, deductions, conclusions, etc. down in a concise, written form.
8. Improve your study and organizational skills and become better prepared for your future job and/or career.
9. Have Fun!
SAFETY ISSUES and PROCEDURES

- Due to the increased number of students on campus these days, there is an increased risk of a student collapsing, suffering a seizure, heart attack, stroke, etc. As a result, all of us, students and instructors alike might be called upon to assist in an emergency. In such a situation, I may be focused on looking after the student involved in the emergency. As such, I may not be in a position to call the appropriate numbers or contact the appropriate emergency personnel. Therefore I want you to be aware of some of the emergency procedures, equipment, and personnel that are in place on the campus, just in case your assistance is necessary.
- A list of emergency procedures and campus phone numbers is posted near the door. The room number is also listed on this placard. You will need to relate the room number and/or location to the campus police.
- If there is a fire alarm sounding, please go to the nearest parking lot in an orderly fashion and wait until the area is given the all clear.
- The new District-wide police number is 916-558-2221. The current police numbers for the colleges will remain activated for a significant period of time during the transition to the new number, but we encourage everyone to start using the new number immediately.
- The most significant change will be the Department’s new phone answering system. They system was designed to more effectively handle high call volume by routing emergency calls or other calls that require an officer response and non-emergency calls to specific areas within the department. All emergency and officer response type calls will be handled by the 24 Hour Police Communications Center (PCC) at Sacramento City College (all emergency phones will continue to be answered directly by the PCC). All campus specific non-emergency calls will be handled by the dispatchers/clerks assigned to that particular campus during business hours (8:00AM-5:00PM, M-F, M-TH during the summer session). However, the officers will still be on duty 24 hours a day. If you require officer assistance or have an emergency, please call the Los Rios Police Department Dispatch at Sacramento City College 916-558-2221 or use one of the convenient emergency phones throughout the campus.
- An emergency phone is located in the hallway between rooms 425 and 426.
- The phone answering system will work as follows: When you call the 558-2221 number or any of the existing police department phone numbers, you will hear the following prompt: “You have reached the Los Rios Police Department, if you have an emergency or need an officer dispatched to your location for assistance, push zero now (Your call will go immediately to the PCC and an officer will be dispatched). If you need non-emergency assistance such as parking or citation information, lost and found inquiries, or other information, for American River College and its centers, push (1)....” (The dispatcher/clerk assigned to that specific campus will answer and assist you during business hours).
- Please contact the campus police first (number is on the emergency placard near the door district Police Communications Center (PCC) at 916-558-2221), remember to designate the ARC campus by pushing 1; they are better equipped to direct and alert the necessary emergency personnel to the room. They are also capable of notifying the campus nurse’s office, which can direct personnel to the scene very quickly and are better able to assess the situation.
- If the emergency is of a serious and life-threatening nature and the person(s) in question is unconscious, etc. please call 911 and inform the campus police (that you have also called 911) and they will send for the appropriate emergency personnel.
- If the emergency does not appear to be too serious or life-threatening, then the nursing personnel that are located here on campus may be able to treat the person in question. By notifying the campus police 1st they can send a representative from the nurse’s office right away, whether or not the situation is serious or life-threatening. The nursing personnel would then be in a better position to assess the situation.
- The nurse’s office (Health Center, 484-8383) is located in the Admissions and Records office down the middle hallway near the door facing towards the library, career center, and quad and across from the Admissions and Records Counter. It is near the small courtyard atrium and the counters where students fill out their forms and wait in line for the Admissions and Records Counter.
- If the situation is very serious and time is an issue, I may need various volunteers; some to direct emergency personnel, someone to alert the nurse’s office, someone to make the appropriate phone calls, people to keep the area clear surrounding the person in question, and so on.
- There is a first aid kit usually stored under the classroom sink, unless otherwise identified by instructor.
- Please remember that bodily fluids, such as blood, saliva, etc. can carry and transmit diseases, especially if they come in contact with broken skin. The first aid kit located previously contains gloves for such an occasion.
- Even though the risk of such an emergency is very low, it is best to have some plan of action just in case, which is why I have included this information in your syllabus packet. These types of emergencies have occurred before in the Science Division and elsewhere on campus, so it is best to be prepared.

Instructor: Ms. Terry J. Boroughs
# CLASS SCHEDULE - Geology 306 (Tuesdays and Thursdays)

Chapter numbers based upon, “Applications & Investigations in Earth Science,” 8th edition!

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPICS DISCUSSED AND ASSIGNMENTS DUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 9</td>
<td>Administrative Details. Lab. safety. Earth Science basics / introductory topics such as the Scientific method, uniformitarianism. Begin Chapter 23 (The Metric System, Measurements, and Scientific Inquiry.)</td>
</tr>
<tr>
<td>June 12</td>
<td>Last Day to Drop Class With Refund and Without Notation on Record</td>
</tr>
<tr>
<td>June 16</td>
<td>Astronomy (Patterns in the Solar System [Chapter 18]) Due. Continue chapter 18 and Begin chapters 19, 20, 21.</td>
</tr>
<tr>
<td>June 23</td>
<td>Last Day to Petition for Pass/No Pass</td>
</tr>
<tr>
<td>June 23</td>
<td>Astronomy (Examining the Terrestrial Planets [Chapter 20]) Due. Continue chapter 20 and 1.</td>
</tr>
<tr>
<td>June 25</td>
<td>Exam # 1 on Chapters 18, 19, 21, 23 During the last ½ of class. Geology (The Study of Minerals [1]) Due. Begin Chapter 2.</td>
</tr>
<tr>
<td>June 30</td>
<td>Geology (Common Rocks [Chapter 2]) Due. Continue chapter 2 and begin Chapter 9.</td>
</tr>
<tr>
<td>July 2</td>
<td>Geology (Determining Geologic Ages [Chapter 9]) due. Continue Chapter 9, and begin chapters 3 and 22. Review for Exam.</td>
</tr>
<tr>
<td>July 7</td>
<td>Exam # 2 on Chapters 1 &amp; 20 During the last ½ of class. Continue chapters 3 and 22.</td>
</tr>
<tr>
<td>July 9</td>
<td>Geology (Introduction to Aerial photographs and topographic maps [Chapter 3] &amp; Location and Distance on Earth [Chapter 22]) Due. Begin chapter 8.</td>
</tr>
<tr>
<td>July 14</td>
<td>Geology (Geologic Maps and Structures [Chapter 8]) Due. Continue chapter 8 and begin chapters 6 and 7. Review for Exam.</td>
</tr>
<tr>
<td>July 16</td>
<td>Exam # 3 on Chapters 3 and 9 During the last ½ of class. Geology (Plate Tectonics [Chapter 7] and Earthquakes and the Earth’s Interior [Chapter 6]) due. Continue chapters 6 and 7 and begin chapter 4.</td>
</tr>
<tr>
<td>July 17</td>
<td>Last Day to Drop Class with a &quot;W&quot; Grade</td>
</tr>
<tr>
<td>July 21</td>
<td>Geology (Shaping Earth’s surface – Running Water and Groundwater [Chapter 4] and (Shaping Earth’s surface – Arid and Glacial Landscapes [Chapter 5])) Due. Continue Chapters 4 and 5, and begin chapters 10, 11, 12 and 13.</td>
</tr>
<tr>
<td>July 28</td>
<td>Meteorology (Earth-Sun Relationships [Chapter 12]; Heating the Atmosphere [Chapter 13]) Due. Continue chapters 12 and 13. Review for Final exam.</td>
</tr>
<tr>
<td>July 30</td>
<td>Review for Final exam. Final Exam during Last 2 hours. Last day to turn in extra credit assignments!</td>
</tr>
</tbody>
</table>

Class Schedule and syllabus are subject to change at the instructor's discretion!