Course: SCI 111L – Understanding Climate Change Lab
Term: Spring 2018
Room: Eucalyptus Hall (EH) 2104
Time: Wednesdays @ 2-4:45 PM

Instructor: Marius Vilkas
Office Hours: Wednesdays from 11-12 AM, or by appointment
Office: for now LO 1224, this will change due to moving of my office so keep notice
E-mail: marius.vilkas.773@my.csun.edu

Coarse Objective:
This course will develop the basic science behind the predictions for Earth’s climate, and explain why human activities, primarily the emission of greenhouse gases, are the main driver of global warming.

Attendance and Coming Prepared for Class:
It is essential that you arrive on time and stay in the classroom until you complete the lab. For online labs, you must complete the lab within the time frame that the lab is open. If you do not, the lab will be counted as a missed lab. THERE ARE NO MAKE-UPS FOR MISSED LABS. I will give you a copy of the lab on which you can record your answers to submit to me.

Online Labs:
Each person must log in and submit his/her own lab. If you wish to work together with classmates, you can; but you still must submit your own lab through Canvas. If you fail to submit the lab before it closes, you will get NO CREDIT. Deadlines will NOT be extended.

Classroom Etiquette:
Phones (talking and texting) are a rude distraction during the lab. Please respect your classmates and myself and turn them off. Engage with actual humans instead of your mobile devices. You will use computers as learning tools—not for surfing the web and keeping up with social media. Treat each other and me with courtesy—and have fun with the lab exercises and making new friends.

Academic Dishonesty:
I will not tolerate any form of academic dishonesty. This includes, but is not limited to copying answers during the labs, plagiarism, facilitating cheating by another student, and altering answers after I have graded your work. If you are
caught cheating on an exam or assignment, you will receive a failing grade for the exam or assignment AND will receive a full grade deduction the entire course.

**Grading:**
Lab reports = 80% In-class project= 20%. The lowest score earned on ONE lab will be dropped. **There are no make-ups!** I will evaluate individual cases where documentation of a serious emergency or illness is provided. NO GRADE OF INCOMPLETE WILL BE GIVEN FOR THIS COURSE.

Grading Scale:

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<tr>
<th>Grade</th>
<th>Score Range</th>
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<tbody>
<tr>
<td>A</td>
<td>(&gt;92%)</td>
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<tr>
<td>A-</td>
<td>(90-91.9%)</td>
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<tr>
<td>B</td>
<td>(80-81.9%)</td>
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<tr>
<td>B-</td>
<td>(80-81.9%)</td>
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<tr>
<td>C</td>
<td>(70-71.9%)</td>
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<td>C-</td>
<td>(70-71.9%)</td>
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<tr>
<td>D</td>
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<td>D-</td>
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<tr>
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<td>(72-77.9%)</td>
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<tr>
<td>B+</td>
<td>(88-89.9%)</td>
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<tr>
<td>A-</td>
<td>(90-91.9%)</td>
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Lab Topics and Schedule

Note: This schedule is subject to change, so please look at your student CSUN e-mail and Canvas often for any updates!

**Week 1 – Jan. 24**

- Introduction to lab. Review of syllabus, class policies, and class Canvas. Lab 1a – Introduction to Excel, Scientific Notation, and Unit Conversions

**Week 2 – Jan. 31**

- Lab 1b. Los Angeles temperature anomalies

**Week 3 – Feb. 7**

- Lab 2. Greenhouse Gases and their effect on temperature

**Week 4 – Feb. 14**

- Lab 3. Atmospheric Circulation

**Week 5 – Feb. 21**

- Lab 4. Chasing Ice

**Week 6 – Feb. 28**

- Lab 5. Vostok Ice Core

**Week 7 – Mar. 7**

- Lab 6. Carbon Cycle

**Week 8 – Mar. 14**

- Lab 7. Climate Feedbacks [online]

**Week 9 – Mar 21**

- NO CLASS - SPRING RECESS

**Week 10 – Mar. 28**

- Lab 8. Paleoclimate

**Week 11 – Apr. 4**

- Lab 9. Renewable energy

**Week 12 – Apr. 11**

- Lab 10. Ocean acidification

**Week 13 – Apr. 18**

- Lab 11. Climate forecasts, variability [online]

**Week 14 – Apr. 25**

- Lab 12. Climate compromise and final project preparation [online]

**Week 15 – May 2nd**

- In-class project: preparation

**Week 16 – May 9th**

- In-class project: presentation

**Finals Week – May 12th. 18th:** NO FINAL (Enjoy your summer!)