

YANTELOPE Teaching Earth Science (with lab) through Antelope Valley College,

Inside California State Prison, Los Angeles County



Introduction

The California State Prison Los Angeles County (CSP-LAC) in Lancaster, CA, has worked with California State University (CSU), Los Angeles since 2016 to offer inmates the opportunity to pursue a BA in Communication Studies through classes held inside the maximum-security men's prison on the Progressive Programming Facility (PPF, Yard A). CSU Los Angeles offers the only face-to-face BA program within the California State Prison system.

The first cohort of students is close to earning their degrees, but the CSU graduation requirement of a lab science has been a stumbling block, as the classroom facility has no lab space and lab courses are not typically taught as correspondence courses (the typical method by which students fill gaps in face-to-face programming).

Antelope Valley College (AVC), part of the California Community College system, is based in Lancaster, CA. AVC has offered classes inside CSP-LAC since 2016 (on both the PPF Yard A and the General Population Yard B). Students may earn an AA-T in Communications Studies. Students on the PPF Yard A who complete the AA-T may transfer to the Cal State LA program to continue their studies.

During summer 2019, I taught Introduction to Earth Science (including lab) to 22 inmates on Yard A. Roughly half of these students are part of the first CSU cohort while the rest are AVC

This is the first time a lab science has been taught inside the CSP-LAC facility. Bakersfield, Chaffey, and Imperial Valley Colleges have Student Success Prisons including the Kern Valley State Prison, California Institution for Women, and Centinela State Prison [Corrections to College]

system) is a full-semester course covering an overview of geology, astronomy, meteorology, and oceanography, and the Course Outline of Record specifies that "students will examine minerals, rocks, [etc. and that] laboratory exercises will expose students to a variety of hands-on activities exploring the Earth Sciences."

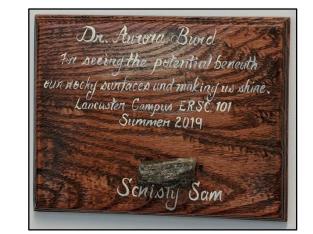
Acknowledgments

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Special thanks to the men of ERSC 101, Summer 2019, who were the most diligent and collegial cohort I have had the privilege to teach.



Paper 27-11: Aurora Burd, Antelope Valley College



Course materials were similar to the Spring 2019 ERSC 101 course taught on Antelope Valley College's main campus (with the exception of a major change to the earthquake unit to cover the nearby July 4-5, 2019 Ridgecrest earthquake ERSC 101 (transferable to the University of California and CSU||sequence, and removal of field trips from the curriculum).

Comparison of Student Success Metrics	Spring 2019 (AVC Main Campus)	Summer 2019 (CSP- LAC)
Total # Students	19	22
Final grade: A	0	18
Final grade: B	7	4
Final grade: C	8	0
Final grade: D	2	0
Final grade: F	1	0
Percentage C or higher	79%	100%

Comparison of Student Demographics (estimated)	Spring 2019 (AVC Main Campus)	Summer 2019 (CSP- LAC)
% African- American	10	36
% Hispanic	58	14
% White Non- Hispanic	32	27
% Other	0	23

CSP-LAC students' work was much higher quality on nearly every assignment, with most students completing 100% of assignments on time.

Possible factors contributing to student success: interest and engagement, | prioritization of education, majority of students near completion of BA, and 'print | once' rule for written assignments.

THIS IS IT!!! WE MADE IT GUYS. AT THIS POINT WE'VE ALL PASSED, BUT I KNOW WE ALL WANT TO DO OUR BEST. IF MY NOTES HELPED YOU, I AM HAPPY TO HAVE SHARED. I HOPE EVERYONE DOES WELL, AND REMEMBER TO READ THE QUESTIONS! I MESSED THAT UP LAST TEST AND MISSED TWO QUESTIONS I SHOULDN'T HAVE. HOPEFULLY THOSE GUYS WHO ARE INTERESTED WILL ALL GET BACK TOGETHER FOR GEOLOGY 102.

> Mr. J., who mastered the material extremely quickly, helped other students study for exams.

So I have to admit, I had a good time working on hese two assignments. It is the process of actually going staide and looking up at the moon was great. I was able put my busy schedule aside and do something fun. I need point out that I am a lefty so in order for me to shade the moons' I had to almost turn the hand out upside down. I shaded the wrong sides of 3 of the moons, it decided use a colored pencil so I couldn't erase. Additionally, I had fun with the cloud assignment, as you see. I didn't see any clouds on most days and I would e them during the times I am day dreaming out my back adaw. I found it interest that we take things for granted the moon and the constant changes in the cloud formation, I got how important these things are to our enviorament. I know didn't have to write a reflection but I wanted to acknowledge the sifits of the assignment and shaw my approciation

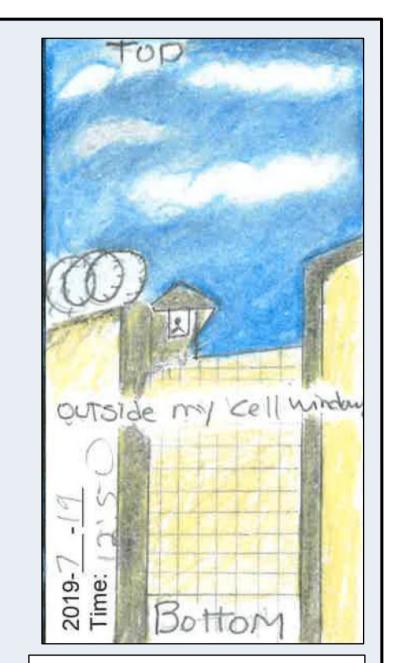
> Mr. B. appreciated observing clouds and moon phases.

This lab was a lot of fun, our group all participated and everyone had a Chance to be heard. We covered a lot of information

cannot believe that six weeks have gone by with 108 hours of earth science with lab-work would ever take place inside of a prison Nevertheless, it has, and I am so filled with gratitude and thankfulness that I was given an opportunity to take part in it. I hope that I was able to help in making this program move forward with our success in the first ever Lab here at Lancaster State Prison. I am going to give you my best moon rendition of the phases it goes through on its that the moon made its trip around the world in a day. Because one day I would see the moon

we used our ping-pong balls as the Earth and moon. We drew own the continent Earth ping-pong ball at 23.5°, we moved it in orbit around one of the globes, which was the size of our giant sun. We also moved the moon around the Earth to show how only the face of the moon looks at the Earth. Although I knew about only one side of the moon facing the Earth, seeing it (we only put craters on one side of our moon) was really interesting. We had to turn the little moon to face the Earth, while we move the ping-pong moon around the globe. I realize now that this means that the moon revolves around the earth in about 28 days, and that the moon rotates on its axis about every 28 days. Seeing that through the model was mind-blowing!

There is no doubt that the moon orbits the Earth and not vice versa. Sunlight always illuminates only half of the moon. As the moon understanding of what is described above



Mr. L. observed clouds from his cell.

Mr. B. noted that the students value the contributions of their peers during class.

Mr. H., a science major preincarceration, reflected on the nearby Ridgecrest earthquake sequence.

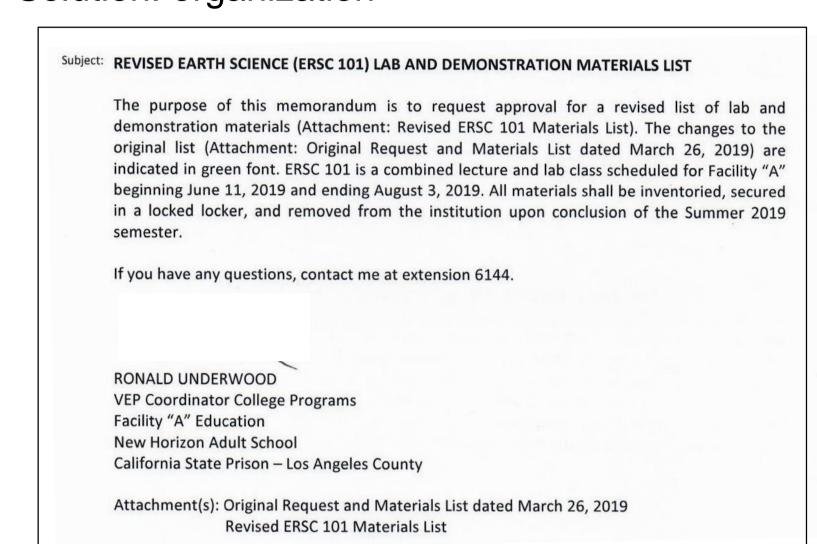
Mr. G., a clerk for the education program and one of the original students in the program, made sure that ERSC 101 ran smoothly every day. Here, he reflects on how his understanding of the Earth-Moon system has changed.

Mr. R. enjoyed thinking about the relative motion of the Earth

Mr. W.'s work was succinc and near-poetic.

Logistics challenges

- Approved by prison, Inventoried, & stored securely
- After course ended, approved for removal & inventoried again
- Substitutions for glass, metal, electronics, etc.
- Solution: organization



Communication:

- No cell phones inside
- No flash drives may be brought inside
- Only one computer with (limited) internet
- Videos/animations must be loaded onto classroom computer
- Students have limited access to technology and are completely dependent on education program for classroom materials
- Solution: patience, flexibility, and planning ahead

Paramilitary environment:

- Dress code, wearing alarm, etc.
- Schedule changes due to guard staffing, count,
- Students have little control over their own schedules
- Solution: patience, flexibility, and situational awareness

- No air-conditioning in some classrooms, in the Mojave Desert in the summer
- No dedicated lab classroom
- Solution: hydrate, and try to teach class in the spring/fall in future

References

Graduation Initiative, 2019: http://www.calstatela.edu/engagement/prison- graduation-initiative (accessed September 2019). Antelope Valley College, Prison Education Program, 2019: https://www.avc.edu/academics/pep (accessed September 2019). California Department of Corrections and Rehabilitation, California State Prison, Los Angeles County (LAC), 2019: https://www.cdcr.ca.gov/facility- locator/lac/ indicating Progressive Programming Facility (yard "A") established 2000 (accessed September 2019). Corrections to College California, 2019, Spring 2019 CDCR Face to Face Course Catalog:

Cal State LA, Center for Engagement, Service, and the Public Good, Prison

https://correctionstocollegeca.org/resources/ spring-2019-cdcr-face-to-face-course-catalog (accessed September 2019).