BIOL 230 Projects

Projects



- Ethnobotany
- Rhizosphere
- Urban creeks

To Do

- 16 hr TBA
- 1 journal article per person
- 1 notebook per pair
- 1 final report per pair

A student said:

44 I will admit, in the beginning of BIO 230 when you told us we had to do our own research/project, I was BUMMED! I didn't want to do it and I didn't plan on actually trying to do a good job.

1 2 3

A student said:

However, as the semester went on, I got more and more into the research and I even became excited when we got results!

A student said:

"Honestly when we were assigned a research project I was not really excited to spend extra time in the lab outside of the regular class schedule. However, those research projects turned out to be some of the most valuable experiences I have gained in my undergraduate education."

UCD

Skyline Students Say

The ability to tell other students that you did research at a community college is a huge confidence builder. Transferring to a University can be a scary experience, but knowing that you were able to accomplish something is great.

UCLA

4 5

Skyline Students Say

CSU Long Beach

Skyline Students Say

4. during the interview process, they were excited and interested in the research that I did at community college. Having that experience really differentiated me from other candidates.

UCB

Skyline Students Say

44I was offered a few PAID summer research positions here at Stanford mostly as a result of having a good resume. Being able to come into a competitive academic setting with some prior experience under my belt has served me well.

Stanford

7 8 9

1

BIOL 230 Projects

Skyline Students Say

44 was on the fence about pursuing science because I thought I wasn't smart enough to apply the concepts. Community College research gave me a foundation that increased my confidence as an aspiring scientist. ... you realize, "wow, I'm actually doing this, ME! ***

Stanford

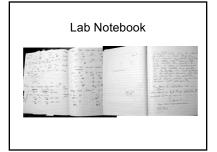
Skyline Students Say

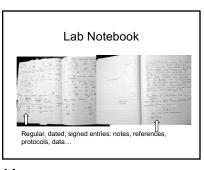
44I'm working in a lab where I've been able to apply the skills I've learned in your class. Having experience with writing scientific papers and with some of the equipment has given me an advantage.

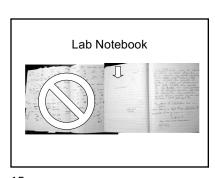
UCD



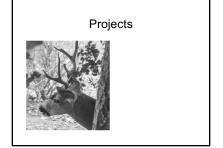
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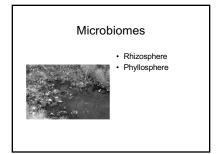
Microbiomes

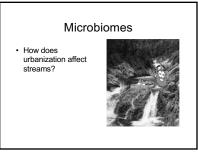
- Communities of microorganisms that live on or in people, plants, soil, oceans, and the atmosphere.
- The NMI aims to advance understanding of microbiome behavior and enable protection and restoration of healthy microbiome function.

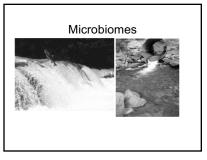


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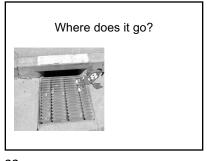
Projects BIOL 230

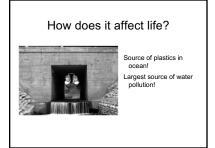


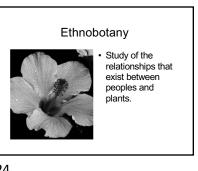




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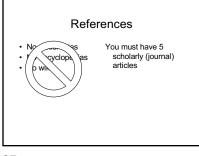
22 23 24

Enthnobotany

- 1/3 of crops produced for human consumption are lost or wasted.
 More than ½ of the world's fresh water and ½ of its farmland are used to produce food that is never consumed
 1/2 of fruits and vegetables harvested in the tropics are lost due to fungal spoilage.
 Solve it.

"There are, however, other possibilities, notably those connected with natural substances. Little, however, has been done to purify or determine the properties of any of these substances."

-Ernst Chain



25 26 27 **BIOL 230 Projects**



Citations

- NEVER do this!!!
- http://www.ncbi.nlm.nih.gov/pubmed/182050 18?ordinalpos=2&itool=EntrezSystem2.PEntr ez.Pubmed_Pubmed_ResultsPanel.Pubmed_ DefaultReportPanel.Pubmed_RVDocSum



Or this

• Vasudevan, P.T. and M. Brig. searchresults



30

Or this...

http://find.galegroup.com/ips/retrieve.do?subjectPara m=Locale%2528en%252CUS%252C%252%253A FGE%253D%252BSU%252CUNe%25252C20%2529 biodiesel%28production%253AAnd%253ALOE%25 D%2528AG%252CNone%252C8%2529fulltext%25 24&contentSet=IAC-

userGroupName=plan_skyline&resultListType=RES ULT_LIST&sgHitCountType=None&qrySerId=Locale %28en%2CUS%2C%29%3AFQE%3D%28KE%

29 28



Citations

Vasudevan, P.T. and M. Brig. (2008). Biodiesel production—current state of the art and challenges. *Journal of Industrial Microbiology and Biotechnology* 35(5):421-430.



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Vasudevan, P.T. and M. Brig. (2008). Biodiesel production—current state of the art and challenges. *Journal of Industrial Microbiology and Biotechnology* 35(5):421-430.



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•Punctuation

Italics

31 32 33



Citations

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•Journal vol (Issue):page-page, year



Journal article

Related to your project

-Background -Procedures



Journal article

Related to your project Due:3/6/20 One/person

Start with: PubMed, Google Scholar Find an article and answer the questions

35 36 34

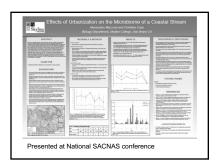
BIOL 230 Projects

Projects

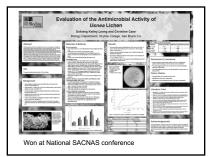


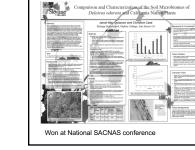
- One project per two students.
- One lab notebook per two students.
- Chose topic... 2/20/20
- See me...





37 38 39







40 41 42