



Project Green Challenge

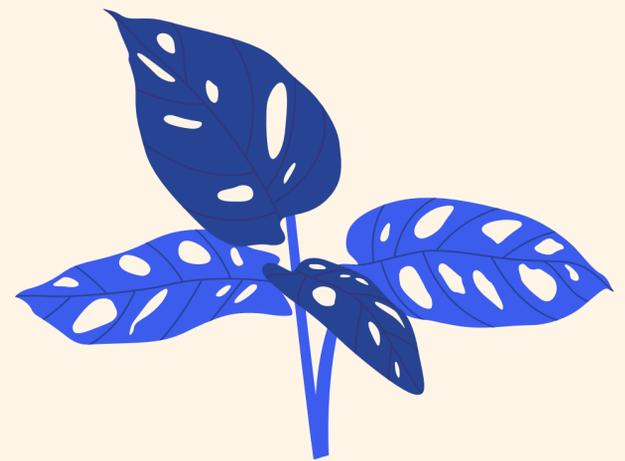
DAY 21 - 2020

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WHAT DRAWS YOU TO THE PROGRAMS?

There are many hands-on learning opportunities that focus on researching, activities, volunteer work. In addition to this, there are a variety of courses provided that works towards sustainable goals.



WHAT MAKES IT UNIQUE, COMPARED TO OTHER SCHOOLS?

What makes this school unique is that there is a common goal (“Live Green!”) which offers two challenges, to be a leader and dedication to sustainability. It combines both academics and other efforts outside of the classroom to be more environmentally friendly.



CAN YOU FIND OUT WHY AND/OR WHEN IT LAUNCHED?

This program was launched in 2008, which means it has been more than a decade since this has been implemented in students. There are a total of eight committees/teams for this cause which include: Campus Green Teams, Advisory Committee on Sustainability, and more.



IF POSSIBLE, FIND A SPECIFIC CLASS THAT INTERESTS YOU. IS THERE A SYLLABUS YOU COULD SHARE?

When looking around in the courses Iowa State University provides, the Interior Design Department holds a class that focuses on the 'nature and function' of the design of interior environments. The class ARTID255 doesn't have an online public syllabus.

HOW WOULD YOU ADAPT THIS TO MAKE IT YOUR DREAM CLASS?

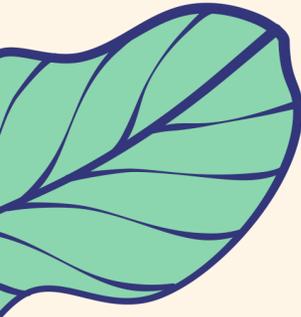
When thinking of sustainability, changing the class towards those views might be easier than other classes. Teachers can focus on informing students on the variables that help out the environment and which do not. Adapting this class to look into more sustainable ways would make it a dream class.



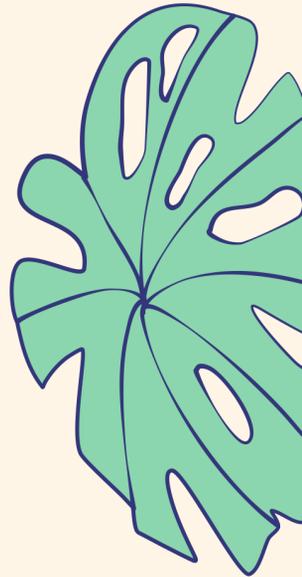
UNIVERSITY of North Carolina

WHAT DRAWS YOU TO THE PROGRAMS?

There are many hands-on learning opportunities that focus on researching, activities, volunteer work. In addition to this, there are a variety of I was drawn to this particular program after seeing how effective their methods of sustainability are. I was very impressed by their success after launching their Three Zeros program which included, having reduced water consumption/wastage by 32%, diverting 5,814 tons of waste from landfills, and reduced its greenhouse gas emissions by 19%. provided that works towards sustainable goals.



WHAT MAKES IT UNIQUE, COMPARED TO OTHER SCHOOLS?



What makes this so unique compared to other schools is how involved the whole school is in this program. They give several opportunities for students to contribute to their work for increasing sustainability, and of course if students weren't interactive in this program, it would not work as efficiently. The university does an amazing job of having everyone help and continues to reduce their water usage, greenhouse gas emissions, and reduce the waste that goes to landfills.



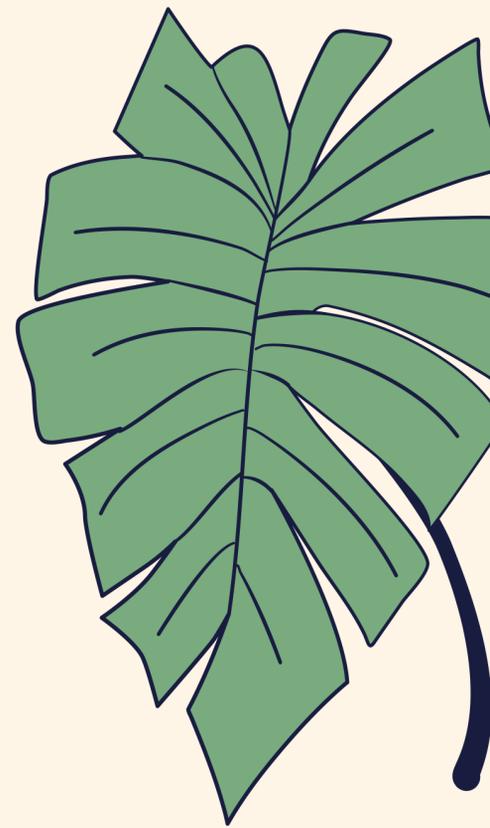
CAN YOU FIND OUT WHY AND/OR WHEN IT LAUNCHED?

The Three Zero program officially launched in 2016. It includes three major topics of concern today: water usage, waste to landfills, and greenhouse gas emissions. The three topics they chose were easily measurable, so they could track their progress in each field.

IF POSSIBLE, FIND A SPECIFIC CLASS THAT INTERESTS YOU. IS THERE A SYLLABUS YOU COULD SHARE?

After looking at the classes that UNC offers, I found their Marine Science (MASC 53) course particularly interesting. This class offers Polar Oceanography and Exploration and I have always been interested in polar exploration in marine fields. Syllabus:

<https://www.coursicle.com/unc/courses/MASC/53/>



HOW WOULD YOU ADAPT THIS TO MAKE IT YOUR DREAM CLASS?

To make this my dream class, I would add an option for a semester abroad to the polar regions. Having a hands on experience like that would be amazing and would offer several opportunities. I would also love if a bit of sustainability or environmental science could be incorporated into the course since that is one of the reasons why I have an interest in marine science, to help the environment.



WHAT DRAWS YOU TO THE PROGRAMS?

What draws me to this program is the variety of sustainable options the university offers. They present options from recycling, and green living to the green workplace and green labs. Many sections are included in their sustainability approaches such as partnerships and facilitation, buildings and operations, outreach, engagement, and communications.

WHAT MAKES IT UNIQUE, COMPARED TO OTHER SCHOOLS?

What makes this school unique from others is that it is recognized as a green ribbon school by the U.S Department of Education. This award is only given to schools that focus on sustainability. In addition to this, it has many environment-towards clubs and programs.

CAN YOU FIND OUT WHY AND/OR WHEN IT LAUNCHED?

The school was awarded the green ribbon in 2015. Right now, the university is currently working on a 10-year plan that explores a sustainable path. In addition to this, they are thinking about how to decrease nitrogen and become fossil fuel-free by 2030/2050.

IF POSSIBLE, FIND A SPECIFIC CLASS THAT INTERESTS YOU. IS THERE A SYLLABUS YOU COULD SHARE?

A specific class offered at UVA that interests me is EVSC 1080 in their environmental science field. This course discusses the impact humans currently have, have had, and will have on the environment. It discusses major current topics about what's going on in the environment. Syllabus:

<https://msisuva.admin.virginia.edu/app/catalog/showCourse/VA01/013861/UGRD/2009-03-01>



HOW WOULD YOU ADAPT THIS TO MAKE IT YOUR DREAM CLASS?

To make this course my dream class, I would include more hands on research and maybe a lab to see the effects of these problems in person. Other than this I would not change much about this course. It seems very interesting and it even discusses how the environment would look with the absence of humans which I find very interesting.

PROJECT GREEN

CHALLENGE SYLLABUS

FOOD WASTE



ZERO WASTE



PLANT-BASED DIET



PGC themes

- Food Waste
- Zero Waste
- Plant-Based Diets

Encouragement

Having platforms such as Kahoots and taking engaging notes on the subject to teach students about the topic.

Inspiration

Students can make personal connections in their life to understand the topic and

Discussions

Having speakers and watching TedTalks are a way to get our students active in the class

Collaboration

Encourage collaboration/teamwork with group assignments (each graded individually based on what they did) and would enforce quick discussions.

Syllabus

Week 1: Innovating to Zero:

[HTTPS://WWW.TED.COM/
TALKS/BILL_GATES_INN
OVATING_TO_ZERO](https://www.ted.com/talks/bill_gates_innovating_to_zero)

Introduction to themes of this course and reviewing syllabus guidelines. Discussion about given TedTalk and students' perspectives on sustainability methods.

Week 2: Pre-assessment:

See where students stand on the learning spectrum, will not be graded heavily

Week 3: Lesson Plan:

What plant-based diets do to our environment//their effects people and animals

Week 4: Plant-based recipe book:

Students create a recipe books with at least 5 completely plant-based recipes. Students have the option to make their favorite plant-based dish and bring it to class for extra credit. We will incorporate cultural perspectives to the recipes to understand how other cultures may struggle or adapt easier to a plant-based lifestyle.

Week 5: What's Wrong With What We Eat Ted Talk:

[HTTPS://WWW.TED.COM/TALKS/MARK_BITTMAN_WHAT_S_WRONG_WITH_WHAT_WE_EAT](https://www.ted.com/talks/mark_bittman_what_s_wrong_with_what_we_eat)

This video will conclude the section on plant-based diets and students will be asked to give an overview on what they learned and explain how they plan on incorporating a plant-based lifestyle to their routine.

Week 6: Speaker

Students will get a lesson taught by environmental scientists and will be completing a hands on lab with the speaker.

Week 7: Peer teaching

Students will have the opportunity to study for the upcoming midterm with their peers by sharing notes, overviews and more.

Week 8: MIDTERM

Students will enter the classroom and leave once the midterm is completed. Rest of the week will be used to review the midterm.

Week 9: Interview

Students will interview any person that incorporates sustainability into their lifestyle and students will evaluate and suggest new ideas to the person they will interview, as well as a corresponding 2-3 page assignment.

Week 10: Lesson plan:

Discussing what zero/food waste is and their effects

Week 11: Debate:

Should the government enforce minimal waste on consumer products?

Students will be able to pick their debate teams (unless it is unequal) and will be required to research beforehand what their side is. The research paper and their effort would be graded.

Week 12: Lesson Plan:

Discuss how zero waste, food waste, and plant based diets, affect the environment/society and how we individually can reduce our waste.

Week 13: 100 Solutions to Reverse Global Warming:

[HTTPS://WWW.TED.COM/TALKS/CHAD_FRISCHMANN_100_SOLUTIONS_TO_REVERSE_GLOBAL_WARMING](https://www.ted.com/talks/chad_frischmann_100_solutions_to_reverse_global_warming)

Discuss TedTalk and argue for or against points made. Students will have to submit assignments about their opinions as well as in a group come up with their own solution.

Week 14: Review week

Students will be split into groups to make a PowerPoint on each lesson and present it to the class as an overview. Knowledge of other students' powerpoints is not required but should be used as a study guide.

Week 15: FINAL EXAM

Students will only attend class to do the final exam and are permitted to leave right after.

syllabus sharing



Arianna Lopez <alopez@mast-fiu.org>

1:27 PM (4 hours ago)



to mroch ▾

Good evening Professor Roch!

My name is Arianna Lopez and I noticed you teach many classes about marine science and environmental science. My partner and I created a syllabus that implements topics such as waste management and plant-based diets. Please look over the PDF attached to this email and email me back with your thoughts. I would be highly grateful for your criticism and if you actually decide to use it for your personal classes.

Thank you for your time,

Arianna Lopez



Roch, Martin

2:57 PM (3 hours ago)



to me ▾

Dear Arianna,

Thank you for giving me the opportunity to assist with this very important and interesting course. I suggest that you first break down the topics in three weeks segments like this.

I. Zero Waste (3 weeks)

II. Food Waste (3 weeks)

III. Plant based Diet (3 weeks)

And for each segment include specific areas within the topic the course will be covering. I also, strongly suggest you include any specific activities that are required for the course. This syllabus should also include a brief introduction to the course and how the student will be assessed.

I hope this was helpful,

Martin Roch

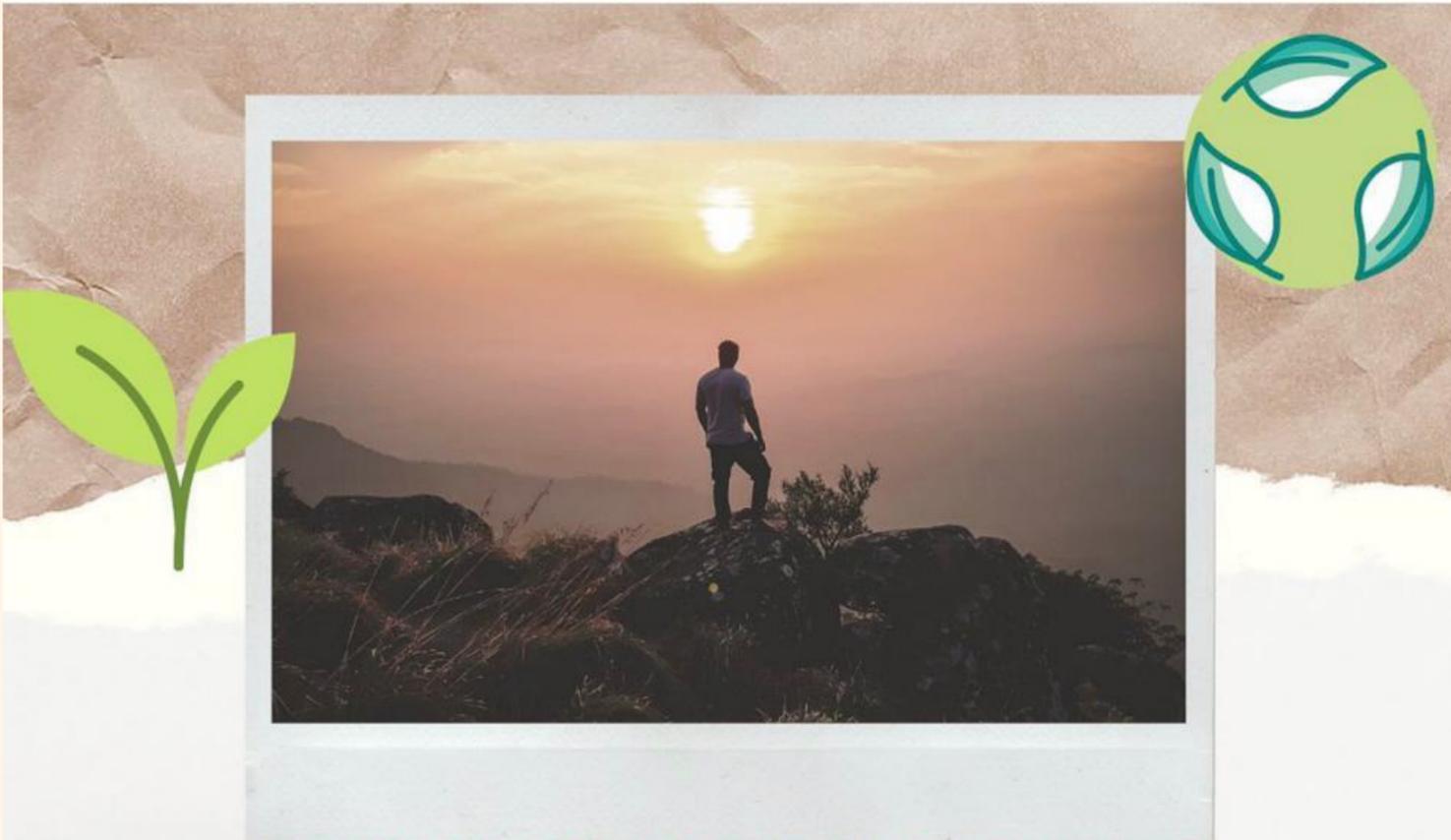
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2 minutes ago



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